On Miller’s Invitation To Test The Qur’an For A Mistake:
Building a Case for Errors in Form, Content, Presentation, Sources, Transmission, and Credulity!
(Critical Musings on Gary Miller’s Pamphlet: *The Amazing Quran*)

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Abstract

If we would like to know if a religion is true or false, we should not depend on our emotions, feelings, or traditions. Rather, we should depend on our reason and intellect." -- (Ibrahim, 1997, p. 4)

Ironic, yes, but truly one likes this sound advice from the Muslim apologist Ibrahim (1997) since pitting “traditions” and “feelings” against sound “reason” is good advice. Science goes even further; it is the pitting of some things against other things, the pitting of some hypotheses against other hypotheses, the pitting of some theories against other theories, and the pitting of some paradigms against other paradigms. It can be a profound challenge, however, to advocate the use of reason when it goes against the grain of one’s deep emotion-based commitments. Emotions generally take the lead. People are “predictably irrational” (Ariely, 2008), biased, invested, prone to illusory thinking, tottering with cognitive imbalance, vulnerable to a narrowed focus, and susceptible to self-deception. One must plan and prepare carefully to address these potential limitations in all critiques—of self and others, and of the products of self and others. Practicing a virtue epistemology, and a tactical scientifically-based critique, is critical.

This present essay respectfully calls for such a critical examination of Miller’s Speech, his subsequent Pamphlet: The Amazing Quran, the invitation he offers to test the Qur’an, and the implications (logical, psychological, theological, and epistemological) of his position. In his speech Miller is making truth claims, but not offering evidence of any caliber. It is merely a concatenation of claims. Why there is a breakdown in the calibre of the evidence and argument offered is considered secondly. As with many religious books, or ideological appeals, the breakdown is potentially driven by insufficient attention to addressing possible issues of faulty epistemology, cognitive processing limitations, self-deception, paradigmatic blindness, the influence of religious narratives, cognitive imbalance, and muddled systems of thinking and practices. Virtue epistemology, the scientific approach, aims to address all sides fairly!

Introduction

We have, without doubt, 
Sent down the Message; 
And We will assuredly Guard it (from corruption). 
--Sura 15:9

So, the message is directly from Allah; and it has not been corrupted. At least that’s the claim. And, further, it is purported to be “without doubt”...? Hence, if doubt and corruption are, indeed, evident, obviously the source and nature of the message is up for challenge—up for falling down. The challenge offered here, however, is purely academic—presaging historical, scientific, religious, philosophical, psychological and cultural inquiry. There is no malice driving the investigation. Simply put, it’s a simple question: was the Qur’anic claim in the above quote true? While this is a mere academic challenge, and a search for understanding, it does raise the issue of the epistemic high ground. Miller, like other Islamic apologists, is contending for such high ground for the Qur’an. But is it a high ground?

History of This Response

The genesis of this particular reaction to Miller’s speech/pamphlet is rooted in earlier dialogues: with a book from Khaleel (2003), with a booklet from Ibrahim (1997), and with a few
conversations regarding the books with interested persons. These emerged as interesting learning experiences, secondarily to being just plain curious (Kashdan, 2009).

The response is divided into three sections. The first focuses on Miller’s text and some problems therein. In the second section the focus is on the essential breakdown in foundational elements that are critical for Miller’s case. The third focus is on the psychological and epistemological mechanics of the fault lines in Miller’s position. Much of the information presented has been considered earlier in response to Ibrahim’s (1997) text and Khaleel’s (2003) text.

Considering The Topical Dangers in Miller’s Text

On Miller’s Speech

Miller, apparently, gave a speech and then the speech was later transcribed into pamphlet form. As such, the content is largely, or primarily, an opinion piece, or a sermon. It is not an argument. It doesn’t rise to the level of any typical lecture or formal written commentary, even commentary like journalistic opinion pieces, editorials, or “Letters to the Editor.” The speech/pamphlet is basically a concatenation of claims designed with a speech in mind and designed to appeal to a surface level of audience processing. At least, that’s how it seems!

The search for evidence, any evidence, in the text which would support claims made was limited to auxiliary claims. There were no direct quotes that could be tracked, no citations, no references listed, no bibliography, and no basic academic infrastructure. Where quotes were selected from the Qur’an the sources (suras) were not identified. Where other sources were intimated they were not identified in a manner that a fair and honest, yet curious, critic could track down the references to confirm, understand, explain, challenge, or refute the references.

The search for arguments was equally frustrating. The text was merely sermonizing, and that leaving much to be desired. The search for a fair treatment of opposing arguments, theories, evidential challenges, and critics, highlighted the fact that they were never considered. There was nothing scholarly, scientific, or epistemologically sound, about the pamphlet. It was ironically “amazing,” like the purported objective, in its limitations.

Like other Islamic apologetic writings previously considered (Ibrahim, 1997; Khaleel, 2003) this pamphlet has the classic earmarks of confirmation biases, illusory thinking, dichotomized thinking, propaganda, and self-deception. The evidence, and concepts, discussed below arguably begin to support such a claim.

Where to begin? What to consider? There were multiple issue-items in the speech that would strike one as problematic. These were items that seemed questionable, required documentation, and invited investigation with respect to any fair-minded critique. So, which item or items in the following list might be appropriate starting points or focal items? Some items are obviously more central than others. The strategy adopted was to attempt a presentation of the
issue-items in a cursory fashion, and then grouped into four artificial categories (The Qur’an, Mohammed, Others, and Thinking). Such a grouping helps narrow the focus manageable tasks.

- **The Qur’an**
  - The question of the origin of the Qur’an (i.e., divine; human, from a crazy person or liar page 18; jinn, page 22; devil page 22, ...).
  - The question of supernatural information in the Qur’an.
    - The issue of claims for scientific knowledge in the Qur’an (e.g., the bee page 31, the atomistic view page 4, the solar movement page 32, the creation account page 27-28, etc.).
    - The issue of embryology (page 10, ...).
    - The issue of medicine (i.e., honey, page 6).
  - The issue of probabilities (page 29, ...).

- **Mohammed**
  - The issue of the critiques of Mohammed (i.e., hallucinations page 6; what’s “on his mind” page 7; crazy, page 16, liar, page 16, both page 17?).
  - The issue of Mohammed’s “confidence” (i.e., excessive confidence, page 16, 18, 20,...).
  - The issue of mythomania (page 23,...).
  - The issue of deception (page 27).

- **Others**
  - The issue of the Minister and his mind-change within minutes (page 21).
  - The issue of the attitude to the Jews (page 21, 28-29).
  - The issue of the “New Catholic Encyclopedia” claims (page 25, 26).
  - The issue of “Hans” (page 26).
  - The issue of the Nobel laureate (page 27-28).

- **Thinking**
  - The issue of scholarly critique.
  - The issue of circular reasoning (pages 5/6).
  - The issue about the use of anecdotes and stories.
  - The issue of proof (page 5, 7).
  - The issue of burden of proof (i.e., on the critic, page 15).
  - The issue of “all facts” in evidence (page 16, 24, 27).
  - The issue of the tests of falsification—find a mistake—re the nature of the Qur’an (page 7, 8, 9, 14, 15, 28-29).
  - The Abu Lahab example/test, (page 19).
  - The issues of appeal to authorities (page 9, 10, ...)
  - The issue of no challenges, credible challenges (page 14, 15, 27,...).
  - The issue of “exhausting the alternatives” (page 16, 27).
  - The issue of deception (page 27, ...).
  - The issue of dichotomous thinking (page 17, 20, ...).
Given these four groupings they can be addressed initially in terms of topics. This leads to a topical breakdown that helps frame the topics and give direction to addressing the topics in more critical detail. This is then followed by sections dealing with the “Critical Breakdown” and the “Cognitive Breakdown.”

On Miller and the Qur’an

A key focus, a critical focus, for Miller is the Qur’an. He sets up the issue of the origin of the Qur’an as either supernatural with three possible levels (i.e., divine, jinn, the devil) or natural with several possible levels (Mohammed-as-crazy, Mohammed-as-liar, Mohammed-as-deceived). Another possibility at the natural level is Mohammed-as-self-deceived, but he doesn’t address this one even peripherally that I can see.

For Miller, support for the supernatural origin of the Qur’an is found in the purported supernatural information in the Qur’an. There is the issue of claims for scientific knowledge in the Qur’an, such as, (1) the sex of the bee (page 31) but this is clearly refuted in the following Arabic language analysis regarding the use of the feminine for collectives (http://www.answeringmuslims.com/2011/07/miracles-of-quran-female-honey-bee.html), (2) the atomistic view of reality (page 4) (understandable for anyone familiar with various Greek philosophical views), (3) the solar movement/rotation (page 32) which in context is easily critiqued as a geocentric view (see http://wikiislam.net/wiki/The_Geocentric_Qur%27an), (4) the creation account (page 27-28) (which is quite suspect, see, http://www.answering-islam.org/Authors/Fisher/Topical/ch07.htm), etc. Whether these Islamic claims bear any evidential weight are questions that are obviously best answered in the negative.

Further support listed that Miller sees is related to (1) the issue of embryology (page 10) (but see the earlier critical comments on Ibrahim, 1997, and Khaleel, 2003), (2) the issue of medicine such as honey (page 6) (but honey’s medicinal properties were known millennia before the Qur’an, see http://www.honeyo.com/honeyhealing.shtml), and (3) the issue of probabilities (page 29), but the probabilities fail when the wide range of failures are added into the calculus. Again, whether these claims by Miller bear any evidential weight are questions that are best answered in the negative.

On Miller and Mohammed

The issue of the critique of Mohammed incorporates such topics as hallucinations (page 6), things that would be “on his mind” (page 7), whether he fits the category of crazy (page 16) or liar (page 16-17). Topics that seem to interface with the above concerns are: The issue of Mohammed’s “confidence” (page 16, 18, 20), the issue of mythomania (page 23) and the issue of deception (page 27). These focal points Miller takes as supportive of the claim for Mohammed’s true standing as a Prophet.

The psychology of the prophet, however, makes the claim weaker than Miller sees. Self aggrandizement, synchronicity, patternicity, confabulation, confirmation bias, overconfidence,
suitable scripts, high exit costs, pride, and so on, can serve to keep the Prophet entrenched in a faulty belief. For supporting arguments see references used below (e.g., Zimbardo, Baumeister, Piattelli-Palmarini, and others). None of the caveats that Miller offers are seen as evidentially weighty influences. Self deception and a flawed virtue epistemology are the truly weighty matters.

On Miller and Others

Two issues related to others stand out. First is the Jew as other. The issue of the attitude to the Jews (page 21, 28-29) is troubling. Not as troubling as some more radical Islamic literature, but the tone that seems to underpin Miller’s position is of concern given the major conflicts the world faces these days.

The second issue regarding others is the superficial attention Miller gives to others that he considers of sufficient value to draw upon as evidential sources. There is the issue of the Minister and his mind-change within minutes (page 21). This just doesn’t ring true, or credible. In fact, it seems more like a complete fabrication. Then there is the issue of one particular other, a Catholic authority, reporting an opinion in the “New Catholic Encyclopedia” (page 25, 26). The claim just doesn’t ring true. Unfortunately, the actual bibliographic details are not provided so one is not in a position to check out the details. This is a major problem with respect to drawing upon others. Then there is the issue of “Hans” (page 26), again a particular other (possibly Hans Kung) that Miller draws upon. But again no bibliographic details are provided to permit scholarly consideration. Finally, a particular other is mentioned by referring to a Nobel laureate (page 27-28). Details are required; context is required, analysis is required.

On Miller and Thinking

Several issues related to thinking stand out in the speech/pamphlet. First, there is the issue of scholarly presentation and critique. The scholarly approach is missing. Sources are not identified; even Qur’anic quotes are not sourced. Furthermore, the use of anecdotes and stories is not an evidential source that would carry any weight with any person thinking about the material at a basic scientific level. The Abu Lahab example/test (page 19) is more like a childish test than a real test.

A second issue related to thinking addresses the question of proof. Proof is a focus that Miller does address (page 5, 7). One should ask: (1) What constitutes proof? (2) Who has the burden of proof ...on critic (page 15)? (3) The issue of “all facts” being in evidence (page 16, 24, 27). (4) The issues of appeal to authorities (page 9, 10) as an avenue to truth.

A third issue addressed the test. The challenge is to find a mistake in the Qur’an. This is different from the Biblical injunction to “test everything” as a mistake in the Qur’an is the test that falsifies the Qur’an. This issue of the tests of falsification—find a mistake—re the nature of the Qur’an is pushed repeatedly by Miller (page 7, 8, 9, 14, 15, 28-29). Related to the test is the
claim that there are no challenges, credible challenges (page 14, 15, 27). Along the same lines there is the claim of “exhausting the alternatives” (page 16, 27) as a source of evidential weight.

The fourth issue relates to thinking limitations. There is the issue of deception (page 27). There is the issue of circular reasoning (pages 5/6). There is the issue of dichotomous thinking (page 17, 20). These are limitations that are seen at a surface level. They are not the only thinking limitations. Such limitations will be addressed further below.

**Considering The Critical Dangers In Miller’s Foundations**

Having already engaged some of the claims for scientific knowledge in the Qur’an when considering other Islamic apologists (i.e., Ibrahim, 1997; Khaleel, 2003), subsequent reiterations seemed redundant. There were no grounds for confidence in such claims. Were there grounds for expanding this analysis for a consideration of the Qur’an here? Perhaps. But what were the key questions that might be expanded upon? The question of Mohammed and the question of the nature of the Qur’an were foundational for all the other issues and claims. If the foundation failed, then all else tottered and crumbled. The initial task considers issues in such a context.

**On the Qur’an**

Like Khaleel (2003), Miller (n.d.) roots his positioning in the nature of the Qur’an. He sees it as a fact that the content the Qur’an is irrefutable being free of human influence. And as a variant, the “fact” that Mohammed was illiterate serves as evidence in support of the non-natural origin of the Qur’an. This is an Achilles heel! If this can be successfully challenged the rest falls (including the contention for a supernatural pre-eminence to claims regarding science, education, slavery, laws, tolerance, antiracism, and so on).

Two of the relevant texts from the Qur’an here are:

* Nay, this is
  A Glorious Qur’an
  (Inscribed) in
  A Tablet Preserved
  --Sura 85:21-22

* We have, without doubt,
  Sent down the Message;
  And We will assuredly
  Guard it (from corruption).
  --Sura 15:9

Both of these texts posit the idea of irrefutability (regarding content) advanced by Khaleel. At the same time, they point to the test (Miller, n.d.), the appropriate test, the academic test, the scholarly test, the fact-based test, the scientific test, the test of reason. Is there evidence
of corruption or error in the Qur’an? Two resources will be considered in responding to the invited test: Morey (1992) and White (2013).

**Morey (1992) Responding to the Invitation to Test the Qur’an**

As in the earlier consideration of Khaleel (2003), there is a case for again drawing upon chapter 10 of Morey’s (1992) book, a book which itemizes a number of arguments and facts that one can consider. Such considerations contribute to a case-building approach that seems to refute the notion of an error-free Qur’an. Indeed, if just one factual error, of the many purported factual errors, is admitted into the mix the foundational claim falls. On the other hand, knowing the human propensity to rationalize, to follow a confirmation bias, and to fall to self-deception, one will be best served by considering the cumulative case alongside various particular facts.

**The Freedom To Criticize.**

Morey (1992) makes the point that there must be scholarly “Freedom To Criticize.” This is a principle anyone who purports to value scholarship, science, understanding, and wisdom, must adopt. There must be agreement between those on different sides of an issue that there is freedom to critique the other’s position, the other’s facts, their documents, their sources, their authorities, and what they dearly venerate, without recourse to emotional, vituperative, and violent retaliation. Hopefully, many modern Muslims and Christians will adopt this principle and be open to criticism, dialogue, and change. That’s fair!

**Logical Fallacies.**

While all logical fallacy claims have a place at the discussion table, one particular fallacy that Morey (1992) flags, is particularly notable and that’s the circular reasoning fallacy. This can be a foundational fallacy for many Muslims. In fact, this seems to be a relatively clear fallacy that Khaleel (2003) adopts when he advances the following: “While it is realized that belief in it is a matter of personal choice, the fact is in terms of content the Qur’an is irrefutable. This is because it is free of human influence. In other words, since it was written by a non-human source it is devoid of the inevitable errors in human thinking. Its method of revelation is also impossible to deny. This is because it was revealed to a man who was illiterate (pp. 131-132).” In effect, the claim that Mohammed is the prophet of God is based on the piece of information that the Qur’an says so, and the Qur’an is without error. But then the claim that the Qur’an is the authoritative, irrefutable, errorless message from God is based on the piece of information that Mohammed says it is. The major problem: that’s circular reasoning! One needs to examine the evidence and arguments for such claims not merely accept them. Reason must be in play.

Similarly, to contend that a Biblical text has been corrupted because it does not agree with the Qur’an is circular reasoning. What one needs to argue is where, how, and why a text is corrupted, without reasoning in a circle. That’s a reasonable approach! These two major logical fallacies provide a substantive challenge to the Qur’an and its claims.

**The Double-Edged Sword.**
What Morey (1992) notes with respect to the double-edged sword is the following: some Muslims will draw on a fact or a claim in support of their argument, seemingly not aware that the broader context actually undercuts their argument. The example that Morey uses to make this point is the Muslim’s use of the Gospel of Barnabas with respect to their Qur’anic claim that Jesus was *not* crucified (Sura 4:157-158). For Muslims to draw upon the Gospel of Barnabas as inspired support of some Qur’anic claims is dangerously double-edged. Why? First the Gospel of Barnabas condemns having more than one wife and supports the eating of pork. This then argues against Muslim claims. Secondly, and more importantly, the Gospel of Barnabas is a well known fraudulent work that could not have originated in the first century given the problems with vocabulary and contradictions, anachronisms and a host of other problems (See Appendix 3 in Geisler & Saleeb, 1993). In fact, it has been dated quite late by some scholars [http://en.wikipedia.org/wiki/Gospel_of_Barnabas](http://en.wikipedia.org/wiki/Gospel_of_Barnabas). Avoid the double-edged sword, or use it at one’s peril!

The *Bible* vs the *Qur’an*.

There are several points that could be made here. Foremost, there is reason to guard against the logical fallacy that if one shows problems in the Biblical text, one thereby supports the Qur’anic text. This is a non sequitur; it does not follow logically. In fact, both texts could be wrong. The scholarly approach is to examine the problems in both texts independently, fairly, using the best scholarship available, and to be open to change when reasonably required.

The *Mohammed Test*

It has been suggested that Mohammed himself pointed to the Bible as a means to test his claims, to see if he spoke the truth. His appeal to the Bible gives the Bible *temporal priority* (with respect to the Qur’an) and *logical priority* (with respect to content). But how does this align with the Muslim propensity to reject Biblical texts as corrupted rather than a touchstone? The Muslim presupposition is that the Qur’an takes precedence. But why should it? What is the argument and evidence for the superiority of the Qur’an, independent of circular reasoning? One argument, perhaps the most compelling testable argument is the error-free claim. However, is the Qur’an error-free? This then is the fundamental question to address!

The *Errors Test*.

If there are errors in the Qur’an then the Qur’an falls as in a self-refutation. Are there errors? What are the purported errors? Morey (1992) offers a list of 100 errors in the Qur’an; these errors serve as evidence for an error-laden Qur’an. Some are compelling possible errors, some are weak and even explainable using broader contexts. Some errors are prone to language constraints, some have alternate explanations any first-year courtroom lawyer could advance, but some are sufficient to sway the skeptic, and reasonably should sway the zealot. The cumulative case would counsel caution rather than acceptance of the Qur’anic claims. A sample of those errors are presented, and considered, here.

The Weak Errors:

- **The Abraham Errors.**
The errors that Morey notes as discrepant from the Biblical history are: (1) the name of Abraham’s father (Sura 6:74), (2) where Abraham lived and worshipped (Sura 14:37), (3) the building of the Kabah (Sura 2:125-127), and (4) the son who went to be sacrificed by the hand of Abraham (Sura 37:100-112), along with other discordant facts like the number of offspring and the number of wives Abraham had. Of course one could argue that the Biblical text was corrupted. But as Morey notes: claiming a corrupted text is far short of demonstrating corruption; and claiming corruption on the basis of the claims of the Qur’an is circular reasoning. Evidentialism as a philosophical position and credible evidence as a factual resource, are needed as critical vehicles for consideration of Islamic claims. That’s a scientific requirement!

The problem of having Nimrod responsible for throwing Abraham into a fire (Sura 21:68-69 and 9:69), when Nimrod had been dead for centuries, seems to be a problem; but it could be a minor problem. One could claim that Mohammed (or Gabriel) had a different Nimrod in view here. Perhaps. But which is the more reasonable evidence-based conclusion? The first-order conclusion? Error! This is critical openness on the part of the critic. That’s the reasonable approach!

The Days of Creation.
It is not clear how many days of creation there are from Sura 4:9-12. The earth was created in two days (Sura 41:9), the amalgamation of the earth and sky (as seven firmaments) in two days (Sura 41:11-12); and then there were four days for things on the earth (Sura 41:10). This seems to add up to eight days! Of course mental gymnastics will follow to attempt an explanation. That’s natural, and to be expected! For example, one set of “two-days” might be a subset of the “four-days” period. If so, then one can get to a “six-days” total. Considering alternate possibilities is reasonable. But it is also reasonable to consider the possibility of error. That’s the essence of science and reason!

The Denial of the Death of Jesus
There is a denial of the death of Jesus on the Cross (Sura 4:157-158).

That they said (in boast)
“We killed Christ Jesus
The son of Mary,
The Messenger of Allah”—
But they killed him not,
Nor crucified him
But so it was made
to appear to them...
(Sura 4:157-ff).

This is a clear historical mistake. One needs to forgo reason, and sound historical scholarship, to accept such a historical misrepresentation. Still, it is fair to ask: is there any evidence other than the Qur’anic claim? Ali (2004), in a note to this text, points to outside sources (e.g., Gospel of Barnabas albeit late-dated and the Marcionite gospel he dates around 138) for support. But these are fraudulent texts, misidentified texts, Gnostic
texts or pseudopigrapha; and the Gospel of Barnabas is arguably clearly redacted to align with the Qur’anic doctrine in the case (see Appendix 3 in Geisler & Saleeb, 1993). It is imperative that one consider the historical scholarship independent of theological overrides. That’s an epistemic mandate!

- Which is the better argument? Jesus died on the cross? Jesus did not die on the cross; it was just made to appear so. Which has the better evidential case? Christians, and major secular historians, quite clearly believe Jesus died on the cross. Are there any secular historians who support the Islamic claim? I don’t think so.

- **The Noah Problems.**
- The Qur’an has one of Noah’s sons refusing to go on the Ark (Sura 11:32-48). There is a suggestion that this son forfeited his right to be considered a son because he was unrighteous (Sura 11:46). However, the Bible has all of Noah’s family on the Ark (Gen 7:1), regardless of the apparent unrighteousness of others in Noah’s family (“...you alone I have seen to be righteous before Me in this time -- Gen 7:1”) including Ham (Gen 9:20-27). A second inconsistency is the identification of the resting place of the Ark—Mt. Ararat (Genesis account) or Mt. Judi (The Qur’anic account)? Ali’s (2004) footnote to this text claims support for Mt. Judi as a lower peak of the Ararat system. The support he sees is from local traditions which are purported to be accepted by Josephus, Nestorian Christians, Eastern Christians and Jews. He could be right, but it would certainly help his case to cite the bibliographic references for the authorities to whom he appeals. It’s a scientific tactic to keep an open mind, but also to properly document evidence! Given the counterclaims it is a weak error, at best, if an error at all.

- **About Joseph.**
- The Bible has the wife of Potiphar attempting to seduce Joseph (Gen 37:36); the Qur’an names the husband as Aziz (Sura 12:30). Ali (2004) attempts to skirt the problem by contending that Aziz is a title. However, if he is right it is an Arabic or Syriac title, not an Egyptian title. Possibly, it could be argued that Mohammed (or Gabriel) was not intending a personal name and the Arabic title was some form of accommodation, or translation. Hence, the error is in the weak category here and possibly not an error at all. That’s a reasonable openness!

- **About Samaritans.**
- According to Morey, the Qur'an has a Samaritan molding the golden calf at mount Horeb (Suras 20:85-87, 95-97) but the term Samaritan and the people identified as Samaritans came much later, in fact, several hundred years later. Samaritans emerged from Jewish intermarriages in the Babylonian captivity. However, the term in Sura 20:85 is “Sāmīrī” and how do we know: (1) if this is truly equivalent to Samaritan, or (2) if there was a another group of people named Sāmīrī present when he descended the Mount to find the golden calf, or (3) if there was an order or office for some people which was named Sāmīrī who were present then, or (4) if Sāmīrī was a personal name identifying a particular person even though the definite article is used. It is not a clear cut case, hence tentativeness is required. One needs more evidence regarding the language issues...
involved, the cultural contexts, the intent of the author, and the range of alternative reasonable explanations. That’s hermeneutically sound! One ought to table the possibility of error here until more information is acquired.

The Stronger Errors:

- **About Moses.**
  - A number of possible errors are pointed out here by Morey (1992) and a couple of them are less ambiguous than the weaker errors. The first error relates to Moses. Moses was found and raised by Pharaoh’s daughter (Ex 2:1-10), but the Qur’an has Pharaoh’s wife raising Moses (Sura 28:8-9). This is a clear error. A claim that the Biblical text was corrupted is an example of circular reasoning and would not eliminate the judgment of “error.” Corroborating evidence would be needed given the temporal and logical priority of the Bible, and the psychological propensities to confirmation bias, rationalization, and self-deception in the Islamic reference frame.
  - A second error connecting Moses and Haman looks like a chronological error, but someone might argue that the Haman referred to in the various suras (27:4-6; 28:38; 29:39; 40:23-37) was not the historical Haman found in Esther. A relevant historical question then is: was “Haman” a name in use in Egypt in the time of Moses? One could reasonably suspend judgment on this point. But the cumulative case grows.
  - A third error points to crucifixion in Egypt in the time of Moses (Sura 7:124). The history of crucifixion is evidently not a part of Egyptian history under Pharaoh. That’s quite strong evidence of an error. The cumulative case for error from the Moses data grows even stronger!

- **About Mary.**
  - Where did Mary give birth to Jesus: under a palm tree (Sura 19:22) or in a stable (Luke 2:1-20)? Does the dialogue (1) between Mary and the voice beneath the tree, (2) between Mary and the people, and (3) between Mary and the infant Jesus (Sura 19:23-33) seem mythical or historical? Clearly mythical!! Hence, this has the ring of an error of major proportions. This is a sound preliminary inference. There’s compelling evidence of error here!
  - Was Mary the daughter of Imran as reported in the Qur’an (Sura 66:12), and the sister of Aaron (Sura 18:28)? What is the historical evidence? Are the timelines (i.e., about a possible 1400 year difference or mix-up) a problem? Is this confusion and error? The contradiction is addressed on-line at various locations. Consider the claims here: http://www.answering-islam.org/Quran/Contra/qbhc06.html. The following are a series of quotes, somewhat balanced, from this resource.
    - **Problem #1**
    - “I am aware what Muslims claim to be a solution to this problem. Yusuf Ali for example writes in his footnote 2481 commenting on the above verse: “Aaron the brother of Moses was the first in the line of Israelite priesthood. Mary and her cousin Elisabeth (mother of Yahya) came from a priestly family, and were therefore, ‘sisters of Aaron’ or daughter of ‘Imran (who was Aaron’s father).”
    - “This is faulty reasoning. Only Aaron became a Priest of the Lord and in fact the first High Priest. And only Aaron’s descendants became priests. Neither Moses nor their sister Miriam are ever understood to be in “priestly lineage.” Amram is definitely not a priest. If Mary’s lineage of being part of a priestly family should
be stressed then necessarily she would have to be called a daughter of Aaron, since all of Israel's priests are descendants of Aaron, while his brother and sister are not counted among the priestly line."

- Problem #2
  - "The big problem is that the Qur'an is explicitly not talking about wider clan relationships as we see in the following verse. Behold! wife of 'Imran said: 'O my Lord! I do dedicate unto Thee what is in my womb for Thy special service ... When she was delivered, she said: 'O my Lord! Behold! I am delivered of a female child!'... '... I have named her Mary...' -- Sura 3:35-36

  - Yusuf Ali in his footnote 375 to Sura 3:35 even goes so far to invent (?) a second 'Imran by claiming that "by tradition Mary's mother was called Hannah ... and her father was called 'Imran," in order to somehow save the Qur'an from this contradiction. But the same tradition that calls Mary's mother Hanna, also gives the name of her husband as Joachim. Why would Y. Ali accept one part of this tradition (e.g. in the Proto-Evangelion of James the Lesser) and reject the other? Yusuf Ali does not give any reference for this "tradition" he refers to."

- Problem #3
  - "And a last question: Is there any other instance in the Qur'an where a person is consistently called daughter [son] or sister [brother] of people which are only wider relatives? Even if there was to be one name in the clan so overpowering that everybody is named in his or her relationship to that one person, it is doubly improbable that anybody would be named always after two distant relatives in the place of "father" and "brother", and never be mentioned in relationship to his or her real parents' or brothers' names. If this is the only instant then the Muslim explanation is even more strained since ad hoc explanations, i.e. explanations which serve no other purpose than to explain away this one problem but are not used anywhere else are not very credible. It does appear to be such an artificial reasoning in this case. And the fact that Aaron is indeed 'Imran's son and this is a direct and correct genealogical relationship, also indicates that the rest is understood as daughter and sister in the normal everyday sense.

  - Thomas Patrick Hughes in his "Dictionary of Islam", page 328, writes on this issue that "it is certainly a cause of some perplexity to the commentators. Al-Baidawi says she was called 'sister of Aaron' because she was of Levitical race; but Husain says that the Aaron mentioned in the verse is not the same person as the brother of Moses."

  - As always, conflicting explanations are evidence that there is indeed a problem and no one clear and satisfactory solution is available."

- This problem regarding Mary seems clearly error-laden. The evidence leads to a tilt towards the error inference. The responses do not resolve the issue. Hence the tentative conclusion supports the error inference.

- Self Contradictions.
- These are errors potentially reason-based. Basically, the Qur’an purports to be free from contradiction (Sura 39: 23, 28). Yet, there certainly seems to be contradictions which logically refute the claim.
  - On The Reception of the Quran. Morey (1992) notes four conflicting accounts of the reception of the Qur’an: (1) via Allah in the form of a man (Sura 53:2-18; 81:19-24) (but Ali has this as Gabriel), (2) via the holy Spirit (Sura 16:102; 26:192-194) (but one might argue for a distinction between formal cause, final cause, and material cause), (3) via angels (Sura 15:8) (but it could be that angels are intermediate), and (4) the angel Gabriel (Sura 2:97). Morey’s case is not the clincher one looks for regarding error; there are ways around such purported errors. Acknowledging alternative explanations is reasonable. That’s a scientific approach that keeps the error door open!
  - On a Day in God’s Sight. Morey notes: “The Quran differs on whether a day is a thousand years or fifty thousand years in God’s sight (Sura 32:5 and 70:4) (1992, p. 145).” This one does seem to be a legitimate self-refutation point. But there could be a trivial explanation. Nevertheless the error door is open, and the Qur’an is failing the error tests invited.
On Conflicting Wording. Morey notes: “In Suras 2:58 and 7:161 the same quotation is given with conflicting wording.... The presence of conflicting wording is serious because Muslims claim that the Quran is absolutely perfect even in its quotations (1992, p. 146).” If the claim is true, then this is an example of error. However, one suspects many Muslim scholars might rationalize here and claim that the meaning is what is consistent, not the exact wording. Or they might argue for a focus on the original language, Arabic, as a loophole. Openness to alternate explanations, even if they are rationalizations is acceptable. But the cumulative case for error grows.

On the First to Believe. Morey (1992) asks: “Who was the first to believe? Abraham or Moses (Sura 6:14 versus 7:143)? You can’t have two ‘firsts’ (p. 146).” But Ali (2004) escapes this problem by contending that the “first to believe” used in Sura 7:143 was not referring to ‘first’ in time. The reference was to zeal rather than time. “It has the intensive and not the comparative meaning (Ali, 2004, note 1104, p. 384).” But why should we believe this claim? What is the corroborating evidence? What is the logical argument? While Ali offers a convenient escape clause, it does illustrate how difficult it can be to flag an error. One must make a judgment, an inference to the best explanation that does not depend on circular reasoning. That’s where hope lies!

Attitudes To Women -- An Evidential Critique Suggesting Error

- The case for error here is based on reason, argument, evidence, humanity, empathy, common sense, compassion, and intuition, just for a start. Wawa Sultan (2009) makes a fairly compelling case that the Islamic attitude to women which is rooted in hadiths, Islamic culture, history, the Qur’an and fear, is a clear and certain error.
- It is true that the attitudes to women throughout history have been abysmal. Women have been viewed as the weaker sex, property, morally inferior, and cognitively inferior. This is true even in the “enlightened” Jewish tradition accepted as revelation, the early Christian context, the Enlightenment period, and certain modern scholarship trends. As with slavery, though, the high road was not attained overnight. The process had seeds and roots in earlier environments; and over time the better view developed. The Christian view seems to be more positive than the earlier Jewish view. In Christianity, women were seen as (1) equals to males (“...there is neither male nor female” in Christ), (2) capable of holding a powerful role (e.g., prophetess), (3) involved in service, (4) honourable witnesses (as to the resurrection), (5) equivalent to males regarding a relationship of submission (“...submit yourselves to one another...”), and more. Over the period of Christian history the attitude to women matured; females were involved in education, service, missions, medicine, abolition, suffrage, and so on. Today Western women occupy majorsities in many university programs, undergraduate and graduate. They occupy prominent places in virtually all professions. Still, admittedly, there are sex differences.
- In Islamic countries the case for women has not followed a progressive developmental path as pronounced as that of the West. Sultan (2009), along with others (e.g., Ali, 2007,
(2010) sees the role of women, and the attitudes to women, in Islamic countries as representative of a major error in Islam.

- Consider these hadiths as flagged by Sultan (2009):
  - “But what is a Muslim woman? She is whoever Islam tells her she is in her early years. What motto does Islam painfully inscribe on her birthmark? ‘A woman is a defect.’ This hadith pronounced by Islam’s prophet, Muhammad, was handed down mother to daughter, … (Sultan, 2009, p. 117).”
  - “Muhammad in a hadith told his followers: ‘Oh ye women, you are the majority of those who dwell in hell, for when you receive you express no thanks, when afflicted you show no patience, and when I keep aloof from you, you complain.’ … According to Muslim belief, women are incapable of gratitude or patience, and like to grumble and complain (Sultan, 2009, p. 138).”
  - “Muhammad said in another hadith: ‘A woman must not feed anyone without her husband’s permission, unless the food is about to spoil. If she feeds anyone with his consent, her recompense is the same as his, but if she feeds anyone without his permission, he receives the recompense, while she will bear the responsibility for the sin (Sultan, 2009, p. 138).”
  - “Muhammad said in another hadith: ‘If a man summons his wife to his bed and she refuses, the angels will curse her until morning.’ Who is this God who asks his angels to devote their attention to cursing women who refuse to go to bed with their husbands (Sultan, 2009, p. 139)?”
  - “When there is a conflict between obeying her husband and obeying God, a woman owes her first obedience to her husband. This means she is not allowed to fast or pray unless her husband agrees, as laid down by the words of the Prophet of Islam in a hadith: ‘A woman shall neither fast nor pray without her husband’s authorization.’ (Sultan, 2009, p. 139).”
  - “Can you imagine how enslaved a woman must be if she believes this hadith from her prophet: ‘A man has the right to expect his wife, if his nose runs with blood, mucous or pus, to lick it up with her tongue.’ Can you imagine the conceit of a man who believes that this God has entitled him to such a position that his wife must lick up the filth that comes out of his nose (Sultan, 2009, p. 139)?”

- This cultural evidence points to error. That’s a reasonable position! Of course, one might make the claim that the hadiths are not the Qur’an; they are suspect, or in need of qualification. But until such a clear and compelling argument is offered “error” is the reasonable inference for Islam, and by extension, the Qur’an.

- Indeed, Sultan (2009) goes beyond the hadiths; she also considers the Qur’anic models, that is, Mohammed’s marriages, as they apply to the formulation of the theological concept of women.
  - Mohammed marries Aisha when she is six and consummates this marriage to Aisha when she was nine years of age. “Through the story of this ‘marriage,’ Islam denies women the right to reach the stage of physical, intellectual, and emotional maturity at which they are fully ready to marry. It denies Muslim
women the right to marry as a rational human being. That a girl should jump from her swing and become within a few minutes a mature woman in the arms of a man—this is something the most basic laws of morality cannot accept (Sultan, 2009, pp. 123-124.).” This certainly seems to indicate psychological error. As an escape, some have contended that Aisha was nineteen. Perhaps!

This certainly seems to indicate psychological error. As an escape, some have contended that Aisha was nineteen. Perhaps!

Openness to such evidence would be appropriate! But, which is the stronger evidentially-based claim? Which is the dominant view amongst Muslim scholars, and secular historians? The dominant, scholarly, evidence-based view carries the most weight.

- Mohammed’s marriage to Zeinab is likewise problematic. Zeinab was his daughter-in-law, the wife of his adopted son. Mohammed was smitten by her, having seen her inadvertently unveiled. At first he resisted his desires likely recognizing what was forbidden given the law written on the heart, as well as the cultural law of that time period. “But, Muhammad was unable to resist his desires and the rock began to tumble down from the mountain peak, verse after verse, enabling him to give free rein to those desires, while the angel Gabriel began to shuttle back and forth, up and down, until he had resolved Muhammad’s dilemma (Sultan, 2009, p. 124.).” The first revelation-point (Sura 33:37) apparently reprimands Mohammed for concealing his feelings; it seems the feelings, and the subsequent marriage, were a divine intention. The second revelation-point has to do with Mohammed’s marriage to Zeinab being orchestrated by divine intention. The third revelation-point was that this marriage was to serve as an illustration of a marriage law being revised to permit such marriages. “When God’s Prophet coveted his adopted son’s wife and God ordered him to satisfy that desire, this behavior, for Muslims, became enshrined in both religious and secular law. Muhammad banned adoption in order to justify his socially unacceptable marriage—by the standards of his time—to the wife of his adopted son. This ban put an end to a social system that at the time helped save many children who, for one reason or another, had been left fatherless, and the ban to this day, continues to rot the soul of Muslim societies (Sultan, 2009, p. 126).” This certainly has the earmarks of error!

- Mohammed’s marriage to Safia is also problematic when empathy is considered. And empathy is a vital human and moral consideration in our contemporary times and in earlier historical times. In David’s time Nathan confronts David with the metaphor of the rich landowner who had many sheep, yet who takes the single pet sheep from the poor man to prepare a feast for his own guests. David’s judgment is clear and dramatic: “That man shall die!” Nathan points out the empathic fact: “Thou art the man.” The sense of empathy was there. In current times the empathic focus is equally prominent (de Waal, 2009; Rifkin, 2009). The very day that the Jewish woman, Safia, is captured following the battle and slaying of her husband, father, and brother, she is married to Mohammed. It seems so unseemly. So loveless! So lacking in empathy.
• These Qur’anic models presented by Sultan (2009) are indeed troublesome; they seem to indicate error to most reasonable, empathic, and humane, people with a conscience. Until one can make a case that the Qur’anic models are theological truths (i.e., superior, accurate, and correctly mapped onto reality), the reasonable approach is to infer error, or at the very least, immature morality. That’s a reasonable person test!

• Appeals can be made to the positive treatment of women in Islamic society (e.g., property rights) or the reverence of women, but the more egregious markers (body covering, female circumcision, denial of permission to drive, denial of an education, honour killings, female court testimony, female rape, attitudes to women, the hadiths, and so on) overpower the purported positives. Read the writings of some Islamicized females (e.g., Ali, 2007, 2010; Manji, 2003; Sultan, 2009). That’s a reasonable consideration! The stories are heart rending. Do some followers of Islam misunderstand the Qur’an and tradition? Sultan (2009) asks this question also, but asks further: “Have the same followers misunderstood the Prophet’s attitude to women in his lifetime? Where are the Koranic verses or Prophetic traditions that can alleviate the ugliness of these attitudes (p. 127).” Her question is a good question, and suggestive of error.

The Cumulative Case.

• Morey notes the use of legendary materials (Arabian, Jewish, heretical Christian sects, Sabean sources, and Eastern Religions). Like Sultan, he notes convenient revelations that were self serving related to marriages and privacy. He notes doctrinal errors like mistakes or Mohammed’s misunderstanding of the doctrine of the trinity. And there is more. True enough, the use of a virtue epistemology would allow that many of Morey’s claims can be reasonably challenged. While rationalizations, alternative explanations, and reasonable possibilities, can be offered for many of the purported “mistakes” the cumulative case leads to a strong tilt away from Islamic truth claims, not towards Islamic truth claims. The cumulative case from Morey against an errorless Qur’an emerges from considering Qur’anic claims, hadiths, history, and common sense.

White (2013) Responding to the Invitation to Test the Qur’an

Drawing upon major scholarly considerations White (2013) offers a sound and sympathetic critique of the Qur’an. Of interest for the current review are: (1) doctrinal errors, (2) his call for fairness, (3) the purported prophecies of Mohammed in the Bible, (4) the purported perfection of the Qur’an with respect to parallels and sources, and (5) the purported perfection of the Qur’an with respect to transmission and text.

The Doctrinal Errors.

White (2013) notes several doctrinal errors in the Qur’an that serve to adequately, and successfully, meet the challenge in the invitation to test the Qur’an. One in particular stands out.

• The Theological Error Regarding the Trinity
The most striking theological error is the view of the Trinity portrayed in the Qur’an and attributed to Christians. The Qur’an “portrays the Trinity as Allah, Mary, and Jesus and is concerned to repeatedly deny that Allah could have a son. The relationship implied—father, mother, child—is far, far removed from anything that can be remotely identified as Christian (White, 2013, p. 100).” Why would the Qur’an report this “error” as fact, if the Qur’an was the divine revelation purported? Misunderstanding on the part of the author is the reasonable inference. Such a misunderstanding could occur given a psychological, biased view of what the Trinity involved, or given a heretic view of the Trinity in circulation at that time. The reasonable inference is: Qur’anic Error!

“The Muslim must understand what is at stake. It is not an arguable fact that Christianity is clear in its profession of monotheism. Followers of Christ did not believe God had taken a human wife and by her sired a child named Jesus, and hence he was the ‘son of God.’ The Qur’anic text seems plainly to say otherwise. What does this say concerning the truthfulness of its claims to divine origin and inspiration (White, 2013, p. 100)?” Error in the Qur’an!

“Is it not more than possible, even likely, that what we are reading came from Muhammad? It is easy to understand how a person living in Mecca could be confused on the subject. Doesn’t dedication to truth require one to consider the possibility that the Qur’an is in error because its author was a human being whose own understanding was likewise in error (White, 2013, p. 100)?” A scientific approach—a virtue epistemology—demands such rigour. That’s the true scholarly approach!

Are there other theological errors? Arguably yes! But one is all it takes to show error.

- The Doctrine of Jesus

White (2013) sets out to examine every reference to Jesus in the Qur’an to let his Muslim friends know he is attempting to be fair. Whether this Islamic view of Jesus should be treated as an error as opposed to a difference of opinion or interpretation muddies the waters. For the Christian, the Qur’an is clearly making a serious error with respect to Jesus. However, it is not an error of the same nature as the error regarding the Christian Trinity. One error, the Jesus errors, reflects a difference of opinion. The other error, the Trinity error, reflects a blunder. And certainly a blunder is not a possibility on God’s part. It is the blunder regarding the Trinity that seems to meet the challenge to the Qur’an wherein the Qur’an fails the test invited by the apologists like Ibrahim (1997), Khaleel (2003), and Miller (n.d.).

The Call for Fairness to Unveil Error.

White (2013) makes the scholarly point that there should be comparable practices in critiquing both the Qur’an and the Christian Scriptures; and, there should be a comparable attitude for both Christian and Islamic textual scholars. Rigour in scholarship, comparable scholarship, is required. “As Christians, we would insist upon ‘even scales,’ that is, using the same standards in light of both biblical and Qur’anic claims. We rightly point out that often Muslims examine the Bible with presuppositions they would never bring to the Qur’an, and we likewise exhort Christians to be fair and evenhanded in their examination of the Qur’an (White, 2013, p. 217).” There is an imbalance. Many Muslims simply accept the Qur’an and have no
hermeneutical grounding for such acceptance; there is no attention, or minimal attention, to
original languages, authorial intent, historical context, cultural context, documentary context,
competing hypotheses, psychological influences, and so on.

- The Question of a Sound Hermeneutical Approach

While there are many examples of questionable hermeneutics, one addressed by White
(2013) is telling. “One striking example of the need to place the Qur’an on the same ‘critical
examination’ playing field is found in its claim that the Egyptians engaged in crucifixion in the
days of Joseph. Historians tell us they did not; the Qur’an (Sura 7:124; 12:41; 20:71; 26:49)
anachronistically places it in an era where historically it did not exist (p. 218).” Of course Islamic
apologists will offer rationalizations here and some might make a modicum of sense. But will
they pass the “reasonable person test?” Here a case must be made by the apologist, and it is this
case-making that requires sound hermeneutics. This is White’s point regarding alternatives
offered by Islamic apologists. “While we disagree with the conclusions drawn in these defenses,
our point here is that any ancient text, any written document, must be examined in context, in its
original languages, and with serious depth. That which is true will be able to withstand consistent
examination and analysis (White, 2013, p. 218).” Given the “reasonable person test,” and the
less-than-convincing alternative explanations, a fair inference is that this reference to crucifixion
in the days of Joseph is another example of error in the Qur’an.

- The Question of Parallels

White, quite neatly disentangles this issue comparing the Biblical and the Qur’anic
parallels. First he looks at an example of the parallels in the four Gospels and how one can
explain minor differences, and even differences that have the appearance of error. The
differences are due to: different authorial perspectives, different contexts for each human author,
different backgrounds for each human author, different authorial purposes, and different sources
for each author. It is clearly reasonable to expect differences. This makes sense in a court of law
where eye-witness testimony can differ but the gist of the truth is communicated. It makes sense
when reporters submit their version of events for an event witnessed, or story investigated. It also
makes sense logically; as White asks: “…what would be the sense of three carbon-copy gospels
(2013, pp. 218-219).” But some, perhaps most, Muslim apologists see such differences in the
Bible accounts as contradictions, and thus refutations, and evidence of corruption.

To illustrate the issue White comments on the differences between Matt 9:18-26 and
Mark 5:22-43. “In fact, in my first debate with Shabir Ally, this was his primary focus in
attacking the inspiration of the New Testament, centering upon the alleged contradiction between
these two accounts: Shabir Ally insisted that the differences between these accounts of what is
obviously the same incident proves beyond doubt that the New Testament has been corrupted
and that only a portion of the divine revelation once given to Jesus is still contained therein. In
essence, the basis of his accusation was that there should be no differences between the Gospels
in how the story is told (White, 2013, pp. 219-220).” White’s response more than adequately
explains and justifies such differences by acknowledging such factors as: the author’s purpose,
the author’s audience, the author’s selection of detail, the author’s resources like the amount of papyrus at his disposal, the author’s freedom, telescoping, style, genre, personality, and so on. In actuality, the multiplicity and diversity of human authorship enriches the text, the story, and the content; it doesn’t refute the revelation.

Parallels in the Qur’an are quite different—qualitatively different—as the Qur’an is purported to have only one author. “The Qur’an, we are told, has only one author, God. Issues that relate to multiple authors with varying emphases and purposes simply cannot arise in examining dictation from an eternal tablet (White, 2013, p. 222).” This major problem seems to be overlooked by Qur’anic scholars when they encounter differentiated parallels in the Qur’an. “The same Muslims who say differences in the Gospels are evidence of their unreliability rarely if ever consider that the Qur’an contains parallel accounts of the same events that differ in detail, order, and content (White, 2013, p. 222).” White (2013) asks a series of questions to which the Qur’an provides differing answers in the parallels; one set of examples suffice to make his point.

- “What did Lot say to the people of Sodom (p. 222)?” (Surat 7:80; 26:165-166; 27:54; 29:28-29). That there are differences shows human mediation. That there is human mediation shows there is not a single authored “tablet.” The reasonable person test implies the Qur’an fails the invitation to test it.
- “What did the people of Sodom say to Lot (p. 224)?” (Surat 7:82; 27:167; 27:56; 29:29). Again wide variation and difference best aligns with human mediation and authorship. The reasonable person test implies the Qur’an fails the invitation to test it.
- “How did Allah punish the city of Sodom (p. 224)?” (Surat 7:84; 26:173; 27:28; 29:31). Here White notes similarities and differences. “Note here the precisely identical Arabic text of Surat 26 and 27 in phraseology. Why is this significant? Because it shows the author could provide exact duplicate narration if he wished. In the majority of the parallels we can identify in the text, he does not. Though this raises the question of why, the orthodox Islamic view of inspiration and revelation does not allow us to pursue the matter, for it denies the author’s intentions can be discerned—the author is not Muhammad or a later redactor, but Allah himself (White, 2012, p. 225).” Again, the reasonable person test implies the Qur’an fails the invitation to test it.
- White offer more examples, and they are quite informative. It is worth investing effort in further reading his examples.

The Biblical Prophecies of Mohammed as Tests Revealing Error.

White (2013) makes the evidence-based, scholarly point that claims to find references to Mohammed in Jewish and Christian scriptures do not stand up to scrutiny. Each Islamic claim (e.g., that Jesus prophesied one would come after him named “Ahmad;” Deut 18:15-19; that Mohammed is the “paraclete” of John 14-16; that the stone which the builders rejected was Mohammed, etc.) is successfully deconstructed by White’s analyses. He shows that eisegetical approaches by Muslims is the reasonable conclusion. Here too the reasonable person test implies the Qur’an fails the invitation to test it. The Qur’an is reasonably viewed as showing error.

The Issue of Parallels and Sources as Tests Revealing Error.
White (2013) makes the point that outside sources are important hermeneutical considerations to either support or challenge a claim. There is a good case that outside sources are evident with respect to the Qur’an. He notes that quite early (e.g., Surah 68) there were “...accusations of the Qur’an being ‘legends of the ancients’ (White, 2013, p.230).” While there were warnings against attributing such legends to the formation of the Qur’an White writes: “And yet there seems a tremendous amount of solid, verifiable, and balanced information indicating that at the very least Muhammad showed a familiarity with certain ‘legends of the ancients’ that then appear in the Qur’anic text (2013, p. 230).”

White makes his case by examining various Qur’anic stories that clearly trace—strikingly trace—to: (1) late Christian non-canonical sources, post biblical texts, legendary material like the Arabic Infancy Gospel, the Protevangelium of James, the Infancy Gospel of Thomas, various Gnostic documents (second through fourth century), the Gospel of Pseudo-Matthew, and (2) Jewish folklore, Babylonian Talmud, the Targum of Jonathan ben Uzziah, the Jewish Mishnah, Sanhedrin 4:5, the second century Midrash Rabbah, and the 2nd Targum of Esther.

Consider one of the weaker story lines that some Muslim apologists venture to explain. The same story in Surah 27:17-44 and the 2nd Targum of Esther is informative when compared and considered logically and historically. “Obviously the stories are drawn from the same source. The best Muslim apologists can do is try to insist this Jewish story is actually borrowed from the Qur’an, not the other way around. But barring this theory’s historical problems, given the number of examples where the Qur’an uncritically incorporates earlier materials where there is no question of their date, what reason have we to assume in this one instance that the Qur’an’s story is the original? Besides this, what is more likely: that the author of the Qur’an would incorporate stories he thinks are scriptural and historical among others so as to make a point against polytheism and idolatry (as here), or that the Jews would pick up a story from an as yet unknown book and add it to their own developed traditions and legends. The answer seems obvious (White, 2013, p. 246).” The reasonable person test makes sense of the claim that the Qur’an fails the test.

The Issue of Transmission and Texts as Tests Revealing Error.

White (2013) makes the point that there is a superb case that textual variation is evident in the Qur’an. The problems given textual fragments, acquisition, selection, omissions, politics, revisions, recordings (on parchments, bones of camels, smooth rocks, human memories, etc.), the time lag in the sense of a need to codify the text, abrogation, and so on, make the case that problems in transmission and accuracy are paramount. The final collation around 705 AD is suggestive of a problematic history.

White does offer a few examples as Muslims do request specific examples when the claim of textual variation is made. White (2013) reports as follows: “In 2007 Turkish Muslim scholars published a copy of the Topkapi Manuscript. On pages 87 to 89 they reproduce a table with forty-four textual variants between the Qur’an’s major mus’haf. Early tafsir literature mentions numerous variations involving consonantal structure (p. 274).” Of the several variants that White addresses (Suras 3:158; 17:93; 2:222, and 4:12) three are quite striking.
• “Surah 3:158 reads, ‘If you should die or be slain, before Him you shall undoubtedly be gathered.’ But the great Paris manuscript of the Qur’an, one of the earliest we possess, contains an extra Arabic letter that changes the entire meaning to ‘you shall not be gathered.’ (2013, p. 274).”

• Surah 2:222 has numerous variant readings. White sets up a contrast between Fogg’s Palimpsest manuscript giving Ibn Mas’ud’s reading on one line, the Uthmanic reading in parallel, and a third from the Sana’a palimpsest materials showing a mixture. Regarding the differences, White writes: “One need not be able to read Arabic to see this is not the result of random copyist error. Words being moved, grammatical terminations changed, verbal forms altered indicates purposeful copyist editing. At the least, this illustrates a verbal transmission coming into written expression in different ways, forcing a later recension and editing; but in any case, it shows beyond all possible question that the Qur’an was not written down in perfection in the days of Muhammad and never altered or changed in its transmission (pp. 274-275).”

• His last example, Surah 4:12, utilizes technology to demonstrate a case for change. “Untraviolet photography shows the rewriting of the term as kalala even more clearly. The text relates to offspring and family relationships, and given the controversies of the early Islamic period (both around Uthman’s recension and later in the reign Abd al-Malik, when many scholars see further recensional activity in the Qur’anic text) related to Muhammad’s family relationships, it is highly relevant. A word that resulted in greater confusion was inserted, and with high probability the alteration was purposeful, related to matters theological as well as political (White, 2013, p. 275).” Again the reasonable person test is bound to come down on the side of seeing “error” in the Qur’an.

Considering Possible Cognitive Dangers In Miller’s Thinking

Introduction

Attempting to address an answer to the question about why this cognitive breakdown, this bad belief, happens in Islam is not limited to Islam. Actually there are entrenched learnings capturing bad belief and cognitive processing problems in all worldviews. This includes an Islamic worldview, an atheistic/naturalist worldview, a Christian worldview, a Hindu worldview, a Buddhist worldview, and so on. So the broader question is: what are possible cognitive factors that predispose worldview adherents to faulty worldviews? Answers are seen in some of the following predisposing factors: (1) a narrowing of focus, (2) ignoring of serious problems, (3) shallow thinking, (4) rationalization, (5) self deception, (6) cognitive rigidity, (7) cognitive imbalance, (8) paradigmatic blindness, (9) competing thinking systems (10) epistemological limitations, (11) poor authorities (foolish, ill-informed, malevolent, self-aggrandizing authorities, etc.), (12) cultural influences, (13) religious narratives, (14) professional blindness, (15) iatrogenic idolization, and so on. There are numerous constraints and liabilities that interfere with belief formation, change, and revised belief formation, that is, reformation. Change is not an easy move to initiate, nor an easy road to follow. So what blocks sound belief formation, sound belief retention, abandoning bad beliefs, and sound belief reformation? A preliminary list follows.
• Epistemological failures
• Cognitive failures
• Confirmation bias
• Illusory thinking
• Bad beliefs formulated
• Paradigmatic blindness
• Imbalance
• Dual processes
• Systems failures

There are more constraints and limitations but these are listed here to give a general picture of the nature and range of the problem. They are elaborated in the following sections.

Key Epistemologies That Breakdown
While many epistemologies (e.g., evidentialism, virtue epistemology, prudential epistemology, passional epistemology, volitional epistemology, existential epistemology, Gethsemane epistemology, etc.) should be relevant here, particularly where religion is the worldview in focus, the first focus is obviously straightforward evidentialism. Hence, evidentialism is a first-line epistemological approach considered. Moreover, this naturally leads to an additional scientific thrust linked to virtue epistemology.

On Evidentialism

We make choices for reasons. We make deductions, inductions, and abductions for reasons. We form beliefs for reasons. We accept hypotheses, opinions, models, and theories for reasons. Underpinning our reasons—our intuitive and reflective reasons—are: (1) basic beliefs, arguments, and evidence on the one side of the ledger, and (2) desires, emotions, biases, heuristics, and faulty beliefs on the other side. Both sides are important, and considered. That’s a fair approach!

Although both sides are important the appeal here is primarily for evidence. Clifford’s (1876/1999) dramatic appeal to evidence, solid evidence, as the underpinning of belief, resonates, at least initially. Clifford held that it was wrong “always, everywhere, and for anyone” to believe something without adequate evidence. But, if it is wrong to believe anything upon insufficient evidence, one needs to ask: what is sufficient evidence? And what about probabilities (subjective judgments, opinions, and statistical probabilities), what is a sufficient probability? Inducements to accept a proposition as credible are varied—for example, sensations, intuitions, authorities, memories, logic, common sense, even hope and love can be inducements. Inducements are sometimes unconscious or automatic, and sometimes inducements are practical or pragmatic. Such factors do serve to broaden the scope of evidence, and thus, evidentialism. But again, what is sufficient evidence? Addressing the question is mandatory!
With respect to research in the areas of science, psychology and education, evidentialism is a methodological-given, an important basic. As well, the methodology applies to disciplines like history, theology, biography, linguistics, and so on. Yet, upon subsequent reading and reflection one sees an automatic response regarding evidence can be cognitively narrowing to a dangerous point; it is not prudent to ignore: (1) the alternate and varied epistemologies on the scene (e.g., Baehr, 2008, 2011; Cook, 2012; Jordan, 2006, 2008; Moser, 2008, 2010, 2012, 2013; Spufford, 2012; Wainwright, 1995, 2005), and (2) the cogent critiques of evidentialism on the scene (e.g., Dougherty, 2011; Jordan, 2006; Wainwright, 1995).

Drawing upon Locke, Dougherty, Jordan, and Wainwright, a workable approach to evidentialism, or framework for evidentialism, can be constructed—an approach that improves on Clifford’s narrow view by broadening his basic view. Such epistemologies, albeit often overlapping, are offered as contributing to this broadened view. These views are here labelled as: Basic, Core Broad Empiricism (CBE), Faculty Evidentialism, Ethical Evidentialism, Epistemic Evidentialism, Absolute Evidentialism, Defeasible Evidentialism, and Dutiful Evidentialism.

**Basic Evidentialism.** First, then, Locke gets the Basic label being historically first. He makes a case for empirical and rational demands for evidentialism. In his essay Concerning Human Understanding Locke addresses degrees of assent from high to low—ranging from certainty, through degrees of probability, to improbability, to impossibility. There are “...degrees of assent from full assurance and confidence, quite down to conjecture, doubt, and distrust... (Book IV, Ch. 15, Sec 2).” Where one is on this continuum depends upon two evidential grounds: personal experience or the reported experience of others. “Probability then, being to supply the defect of our knowledge and to guide us where that fails, is always conversant about propositions whereof we have no certainty, but only some inducements to receive them for true. The grounds of it are, in short, these two following: -- First, The conformity of anything with our own knowledge, observation, and experience. Secondly, The testimony of others vouching their observation and experience. In the testimony of others is to be considered: 1. The number [of witnesses]. 2. The integrity [of the witnesses]. 3. The skill of the witnesses. 4. The design of the author, where it is a testimony out of a book cited. 5. The consistency of the parts, and circumstances of the relation. 6. Contrary testimonies. (Book IV, Ch. 15, Sec 4).” Locke further stresses that before one comes to make a judgment, the pros and cons of all the arguments “ought to be examined (Book IV, Ch. 15, Sec 5).” Amen!

Such an examination leads to a weighted judgment proportional to the evidence: quality and quantity, sources and critics, intentionality and integrity, and pros and cons. This would be basic evidentialism, but Locke does keep the evidential door open for context, history, charity, disagreements, time, analogy, and even divine revelation, albeit secondary to right understanding of such revelation. He is reasonable and open!

In a more contemporary setting the basic view would be expressed as Jordan’s (2006) “first stab” where he frames it as:
“EV. For all persons S and propositions p at times t, it is permissible for S to believe that p at t if and only if believing p is supported by S’s evidence at t (p. 42).”

On EV Jordan adds: “The notion of support encapsulated in (EV) is that of a preponderance of evidence: a person may believe a proposition p just in case p is more likely than not on S’s evidence. ....what we might call ‘the evidentialist imperative’ (Jordan, 2006, p. 42).”

Core Broad Empiricism (CBE). Adding to the basic view, Dougherty (2011) broadens the evidential sources somewhat to include internal experiences. He writes: “The only indications of how the world might be are ultimately derived from experiences of some kind (including memory impressions, apparent logical insights, introspection, and other traditional sources of evidence) (p. 6).” Obviously evidence is more than sense data in this formulation.

Faculty Evidentialism. Knowing, or true belief, occurs when one is appropriately responsive to the evidence. One’s faculty for knowing (i.e., perception, perceptual knowledge; memory, memory knowledge; insight, a priori knowledge) aligns with one’s appropriate evidences. Dougherty expresses it as: “The conceptual core is that when one forms a true belief because they were appropriately responsive to their evidence, then they know. Perceptual knowledge is true perceptual belief appropriately responsive to perceptual evidence, the ‘testimony of the senses’. Memory knowledge is true belief appropriately responsive to memory impressions, what we might call ‘the testimony of memory.’ A priori knowledge is true belief about a priori matters appropriately responsive to apparent insights (2011, p. 12).” One quantifies across basic faculties like those identified. The process seems to have elements of a cumulative case weighing not just the single line of evidence, but the evidence across faculties, and then the total case. “One then has knowledge that p when the balance of one’s reasons is sufficiently heavily tipped in favour of the true belief that p, and the main reason one holds that belief is because of those reasons (Dougherty, 2011, p. 12).”

Why then do people differ with respect to their beliefs? The faculty evidentialist might answer: “total experience.” As an illustration: “An expert’s visual faculty could deliver the report ‘That’s an elm.’ where the novice’s could not. Though the expert and the novice might have the same sensuous experience, they would not have the same total experience, because something in the expert’s past experiences causes him to have a different experience in the present observation. When the expert hosts the exact same sensuous qualia there is an additional experience. The expert sees the object as an elm. This difference in total experiential/evidential profile explains the difference in their justification regarding the thing they both see and have the same visual experience of (Dougherty, 2011, p. 12).” For Dougherty the theory aligns with common sense, “paradigm cases of knowledge,” and explanations for problematic cases.

Ethical Evidentialism. Jordan (2006) uses this terminology and attributes it conceptually to Clifford. Since Clifford held that it was wrong “always, everywhere, and for anyone” to believe something without adequate evidence, his appeal was moral. There are detrimental effects of such inappropriate beliefs for both individuals and society; thus harm links to the moral aspect. Jordan (2006) elaborates on the ethical framing: “The most plausible construction
of ethical evidentialism is an indirect consequentialist one (p. 43).” Such a construction grounds
the normative import of the evidentialist assertion “... on the claim that one should obey any rule
that is such that, if everyone were to follow it, collective utility would be maximized (p. 43).” In
effect, there is an ethical evidential imperative.

_Epistemic Evidentialism._ Beyond the moral sense addressed above there is an intellectual
sense, and justification. Essentially, “...it is unreasonable to believe something without adequate
evidence (Jordan, 2006, p.43).” To pursue a course that is unreasonable is a violation of
epistemic evidentialism. In effect, there is an intellectual imperative.

_Absolute Evidentialism._ “If the evidence is balanced, or one finds oneself in a state of
radical uncertainty, then one should neither believe nor disbelieve. One should withhold belief
(Jordan, 2006, p.45).” Withholding belief, or suspending belief, is viewed as the wise choice in
the absence of evidence, in the presence of balanced evidence, and perhaps for the sceptic-in
principle, the experimental researcher, and the personality type that demands absolute certainty.
In effect, there is an agnostic imperative.

_Defeasible Evidentialism._ “Defeasible evidentialism allows exceptions. Not every
proposition falls under its purview, since it assigns the evidentialist imperative a limited scope,
allowing the possibility that some propositions reside outside its jurisdiction. ...it leaves open the
possibility that one may have grounds other than the evidential from which to believe (Jordan,
2006, p. 45).” What would these other grounds look like? Duties!

Moral duty can push one to adopt a proposition that seems inadequately supported, or
push one to reject a proposition that seems adequately supported. This is rationally permitted as
no one is irrational pursuing moral duty. Perceived moral duty can be a serious problem.

_An Islamic Application_

When applied to situations like those presented by apologists such as Miller (n.d.),
Ibrahim (1997), and Khaleel (2003), it is quite likely these apologists have a prior commitment
to Allah and therefore see a prior moral duty to advance the cause of Allah. They are Allah’s
“helpers.” This duty can override the evidence—the evidence is secondary. In spite of lacking
adequate evidence for the claims they advance they respond as if the evidence exists. They
respond inappropriately. Their responses emerge from a sense of “moral duty,” not evidence, not
an intellectual imperative, and not drawing on experience and the sophisticated cross-faculty
case. When applied to a situation like that presented by Ibrahim (1997), Khaleel (2003), or Miller
(n.d.) it is quite likely Clifford would see their claims as a moral failure, that is, the very opposite
of the moral duty that Islamic apologists might draw upon. Lack of adequate evidence for claims
advanced is not critical for this type of Islamic apologist.

Intellectual duty, particularly as a research protocol, is a strategy to force consideration of
alternatives. It is a planned scepticism or a defensive rally (see Lakatos, 1970). It can make
scientific sense, in that one has a duty to consider all sides of an issue or argument fairly and
thoroughly. It is rational, responsible, scientific, scholarly, and defensible. No one is irrational
for pursuing intellectual duty, although the pursuit may have irrational aspects. It is these irrational aspects that require further rational considerations. What might be truly irrational is placing all of one’s eggs in the absolute evidentialist basket, or the tattered and frayed religious basket, or the bloody ideological basket. One has an intellectual duty to broaden perspective, consider alternatives, adopt a critical tentativeness, test hypotheses, revise positions, reject fallacies, and change-one’s-mind in line with evidences, arguments, and epistemologies that make sense.

Still, there are principled problems with evidentialism (Dougherty, 2011, Jordan, 2011, Wainwright, 1995). Jordan notes: “...if one wants to hold that evidentialism is obligatory, it is at most a defeasible obligation. If the evidentialist imperative is defeasible, it can be overridden if there are occasions in which it is morally or rationally obligatory to believe a proposition that lacks adequate evidence. So, it is possible that a use of pragmatic arguments is compatible with the evidentialist imperative, understood as a defeasible obligation (Jordan, 2006, p. 46).” The tilt here is towards a case for a broadened evidentialism, an evidentialism that permits the pragmatic, and thus the choice to include views beyond moral duty, or absolute evidentialism. There are permissible, rational, evidential tilts towards authentic theism (e.g., Christianity), and away from faulty theisms (e.g., Islam)!

On Virtue Epistemology

Virtue epistemology refers to an approach to evidence-establishment that involves: (1) virtues like “...carefulness and thoroughness in inquiry, inquisitiveness, attentiveness, fair-mindedness, open-mindedness, intellectual honesty, and intellectual integrity (Baehr, 2011, p. 98),” and (2) attention to effects or vices such as “... intellectual laziness, inattentiveness, lack of intellectual discrimination, gullibility, carelessness, disregard for truth, ignoring and distorting counterevidence, self-deception, and the like (Baehr, 2011, p. 98).” At least for one formulation or framework, virtue epistemology focuses on persons, or agents, and their properties, rather than the properties of beliefs. There are cases of “defective inquiry” and cases of “defective ‘doxastic handling’ of evidence” that Baehr addresses.

Earlier, Baehr (2008) advanced four frameworks or approaches for character-based virtue epistemology. The table below presents a graphic representation.

| Table 1. Baehr’s Four Framings of Varieties of Virtue Epistemology (VE) |
|-----------------|-----------------|-----------------|-----------------|
| Conservative   | Autonomous      |                |
| Strong          | Weak            | Moderate        | Radical         |
| “Strong Conservative VE is the view that there are major, substantive connections between intellectual virtue and traditional epistemology, that the concept of intellectual virtue stands to “save the day” within or to transform traditional epistemology (Baehr, 2008, p. 475).” | “Weak Conservative VE is the view that the conceptual connections between intellectual virtue and traditional epistemology, while genuine, are more secondary or less central (Baehr, 2008, p. 475).” | “...defenders of Moderate Autonomous VE insist merely that epistemology proper is not reducible to or exhausted by traditional epistemology, and that the borders of traditional epistemology ought to be expanded to make room for a | “Kvanvig argues that the notion of intellectual virtue should be the focus of epistemology, but that the belief-based, synchronic framework of traditional epistemology cannot accommodate such a focus (more on this argument below); |
more immediate or independent concern with intellectual virtues. One representative sample of Moderate Autonomous VE is Lorraine Code’s *Epistemic Responsibility* (1987) (Baehr, 2008, p. 475). Consequently, he calls for a rejection of the traditional framework and the issues and questions central to it. Kvanvig’s preferred, more diachronic and socially oriented framework begins with a conception of “human beings in terms of potentialities in need of socialization in order to participate in communal efforts to incorporate bodies of knowledge into corporate plans, practices, rituals, and the like for those practical and theoretical purposes that ordinarily characterize human beings” (1992, 169) (Baehr, 2008, p. 474).

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<th>Formidable challenge:</th>
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<td>“...on account of its commitment to the idea that something like an exercise of intellectual virtue is an essential feature of knowledge (Baehr, 2008, p. 493).”</td>
<td>“...according to which an independent concern with intellectual virtues and their role in the intellectual life offers a suitable complement to traditional epistemology (Baehr, 2008, p. 493).”</td>
<td>“...on account of its contention that traditional epistemology should be repudiated in favor of an autonomous, virtue-based approach (Baehr, 2008, p. 493).”</td>
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“While the approaches of Weak Conservative VE and Moderate Autonomous VE are still largely undeveloped, they seem likely to represent the way of the future within character-based virtue epistemology (Baehr, 2008, p. 493).” Though the Weak Conservative and Moderate Autonomous views are intellectually appealing, one should be reluctant to shelve the Strong Conservative view at this time. There are reasons to lean to the Strong Conservative view.

Note that Baehr, while distinguishing between character-based qualities (e.g., openness, fair-mindedness, carefulness, and so on) and faculty-based approaches (e.g., memory, perception, and so on), limits his four-group analysis to character-based approaches. Reasonably, merit is assumed for both character-based and faculty-based approaches. Moreover, “proper function” is arguably critical for both character-based and faculty-based approaches. Essentially, Plantinga’s (1993a, 1993b) notion of a requirement of “proper function” could apply to a range of substrates—neurological and cognitive on the one hand, and moral, dispositional, and character-qualities on the other hand.

*An Islamic Application*

When applied to situations like those presented by Islamic apologists (e.g., Ibrahim, 1997; Khaleel, 2003; Miller, n.d.), it is appropriate to ask if we are seeing “…carefulness and thoroughness in inquiry, inquisitiveness, attentiveness, fair-mindedness, open-mindedness, intellectual honesty, and intellectual integrity (Baehr, 2011, p. 98),” as well as attention to effects or vices such as “… intellectual laziness, inattentiveness, lack of intellectual discrimination, gullibility, carelessness, disregard for truth, ignoring and distorting counterevidence, self-deception, and the like (Baehr, 2011, p. 98).” If the subsequent limitations and constraints addressed are evident in Miller, for example, then the question of problematic virtue...
epistemology gains strength. Virtue epistemology, the very methodological mindset of science, should be evident when truth claims are made. Miller’s pamphlet does not read like a scholarly treatise. It reads more like an opinion piece, mesmerism, or puerile propaganda. A virtue epistemological critique is warranted.

**Cognitive Processes Breakdown**

**On The Confirmation Bias**

When competing arguments, hypotheses, models, and theories are not considered in a scholarly text it is clear there is a serious academic limitation. One major psychological problem is the confirmation bias. Cognitively, we are prone in our human tendencies: (1) to **look for information** in support of our current beliefs, favoured beliefs, and chosen beliefs, (2) to **interpret information** as supportive of our current beliefs, favoured beliefs, and chosen beliefs, and (3) to **avoid information** (i.e., facts, models, hypotheses, and theories) not supportive of our current beliefs, favoured beliefs, and chosen beliefs. These tendencies fold into a bias favouring our **active position**. The **active position** we hold can be our preferred position or just our current position. It can even be our imagined position, our initial position when considering pros and cons, our selected position for a debate or position paper, or even our peers’ position. This **active position** leads to a bias—a “confirmation bias.” For the most part the confirmation bias propensity is viewed in a negative light and as a major problem for thinking clearly, rationally, and convincingly (Nickerson, 1998).

**Mechanics.** Nickerson (1998) notes a number of specific mechanics which can be operative in the confirmation bias, actions which restrict understanding, actions such as:

- Restriction: “…restriction of attention to a favored hypothesis (p. 177)”
- Restriction: “…restricting attention to a single hypothesis (p. 177)”
- Restriction: “…preferential treatment of evidence supporting existing beliefs (p. 178)”
- Restriction: “…looking only or primarily for positive cases (p. 178)”
- Restriction: “…overweighting positive confirmatory instances (p. 180)”
- Restriction: “…seeing what one is looking for …. regardless of whether the patterns are really there (p. 181)”
- Restriction: by seeing “illusory correlation (p. 183)”
- Restriction: by being subject to a “primacy effect… information acquired early in the process is likely to carry more weight than that acquired later (p. 187)”
- Restriction: by being vulnerable to our “Own-judgment evaluation…. studies have typically shown overconfidence to be more common than underconfidence (p. 188)”
- Restriction: by being subject to “the illusion of validity…. experts are not immune (p. 189)” Attorneys, physicians, psychologists, engineers, and clinicians have been found to be overconfident with respect to their judgments and beliefs (a form of professional blindness).
Societal Implications. In mysticism the confirmation bias has societal implications noted by Nickerson (1998) with respect to understanding in various areas. Nickerson (1998) links the confirmation bias to the preoccupation with numerology, number mysticism, over millennia like the Great Pyramid and the mathematical relations “hidden” therein—a naive mysticism.

In religions the confirmation bias was also seen in the judgments of apparently “decent people” involved in indecent witch hunts. Confirmations of witchcraft were found to be easier than exonerations. Other religious examples would relate to heretics, to prophets, and to proclaimed authorities. Most striking, confirmation bias can be seen with respect to holy texts (like the Qur’an, the Book of Mormon, Gnostic gospels, and the Bible itself) where adherents seek confirmations and fail to deal with the disconfirming evidences.

In politics the confirmation bias is seen in the rationalizations advanced for various political policies. For example, “Obamacare” for the Obama administration, is prone to confirmation influences via supportive evidences, arguments, and even political manipulation and deceptions. On the other side of the political coin, seeing “Weapons of Mass Destruction in Iraq” was prone to confirmation via supportive evidences and arguments for the Bush administration. The downside is not seen, or is suppressed.

In medicine the confirmation bias has a long history seen in various medical treatments (e.g., bleeding, purging, homeopathy, etc.). Rigorous drug testing protocols, and medical treatment studies, are the standards now in order to deal with the confirmation bias. Still, it is likely that some procedures do slip through because of a confirmation bias on the part of the author, the drug companies, the research team members, the universities, and so on.

In law the confirmation bias is potentially quite damaging; judicial reasoning by jurors can be tainted by primacy effects. The initial judgments jurors make in a trial process tend to entrenchment, and then a confirmation bias. This is a difficult bias to address. Judges give jury instructions and guidelines but the bias likely persists. Hopefully the jury experience (cross examinations, expert testimonies, jury deliberation, etc.) counteracts a number of these biases.

In science the confirmation bias can be counterproductive in that it leads to theory persistence and change resistance (see Kuhn, 1970; Lakatos, 1970). This is a problem when such theories are wrong and misleading.

In Islamic apologetics there does seem to be a confirmation bias operative. It needs to be treated fairly, with awareness, and scientifically.

Causes of the Confirmation Bias. What are the causes of such a bias? Nickerson (1998) offers a few reasons to elucidate possible drivers of the confirmation bias.
• **Wanting to Believe:** “The Desire to Believe ... dubbed the Pollyanna principle (Nickerson (1998, p. 197)” .... The desire might be rooted in rewards; one envisions substantial rewards (material rewards, ego rewards, ideological rewards in the form of triumphalism, or the manifestation of ultimate justice associated with being right).

  o With respect to Islamic apologists it is certainly conceivable that each one “wants to believe.” Furthermore, the rewards Islam claims to offer (material rewards, ego rewards, ideological rewards in the form of triumphalism, or the manifestation of ultimate justice associated with being right) are motivational.

• A variant of the “desire to believe” is the propensity to believe; it is called “a principle of credulity” by both Reid (1818/2011), and recently, Swinburne (2013). Belief is basic.

  o With respect to Islamic apologists like Ibrahim (1997), Khaleel (2003), and Miller (n.d.), it is certainly conceivable that they have a propensity to believe, this principle of credulity, nurtured by their authorities (i.e., parents, teachers, peers, Imams, apologists, the Qur’an, the hadiths, and so on).

• **Cognitive Restrictions:** “Information-Processing Bases for Confirmation Bias.... tendency of people to gather information about only one hypothesis at a time.... people are fundamentally limited to think of only one thing at a time (Nickerson, 1998, p. 198).” Also in play here should be, arguably, *virtue epistemology*. Nickerson (1998) notes: “Another explanation of why people fail to consider alternatives to a hypothesis in hand is that they simply do not think to do so. Plausible alternatives do not come to mind. This is seen by some investigators to be, at least in part, a matter of inadequate effort, a failure to do a sufficiently extensive search for possibilities ... (p. 200).” This is a classic failure related to *virtue epistemology*!

  o With respect to Islamic apologists it is certainly conceivable that their thinking is restricted; they think narrowly of “one thing at a time.” There is an argument to be made that they do not adopt the more scientific virtue epistemology.

• **Reference Frames:** “Conditional Reference Frames.... when people are asked to explain or imagine why a hypothesis might be true or why a possible event might occur, they tend to become more convinced that the hypothesis is true or that the event will occur, especially if they have not given much thought to the hypothesis or event before being asked to do so (Nickerson, 1998, p. 203).” This fascinating phenomenon seems to parallel somewhat “ideomotor action theory” where simply thinking about an act sets the human being into a motoric action pattern to implement the act. As a parallel here, we have what might be termed *ideo-ideological action theory*—thinking about a hypothesis as true sets a cognitive confirmation bias in cognitive motion. Also in play
would be the order of considering pros and cons; to consider the pro reasons first is conducive to a bias to the pro side of the argument.

- With respect to Islamic apologists like Miller (n.d.), it is certainly conceivable that their “reference frames” are predisposing them to a strong confirmation bias.

- **Error Avoidance:** “Pragmatism and Error Avoidance.... some ways of being wrong are more likely to be regrettable than others (Nickerson, 1998, pp. 203-204).” Type 1 Errors (i.e., rejecting the null hypothesis inappropriately) and Type 2 Errors (i.e., accepting the null hypothesis inappropriately) are considerations for the pragmatic decision makers. “In general, the objective of avoiding disastrous errors may be more conducive to survival than is that of truth determination (p. 204).” One side of Pascal’s Wager is the classic example of “avoiding disastrous errors.” That is: One ought to believe in God because if there is a God, and one bets against this possibility, the loss is infinite. If there is no God, and one bets that there is a God, the loss is finite and minimal. The errors, and the route to “avoiding disastrous errors,” are clear for Pascal. What Pascal’s wager accomplishes is not a technique, or call to make a bet on God. One can’t choose to believe as a bet. Rather, what Pascal’s wager accomplishes is better perception; one perceives the magnitude of the possible gain and loss. Such perception can motivate one to explore fully the theistic message, worldview, evidences, and arguments.

**Problems of the Confirmation Bias.** The problems can be cast as methodological or moral. The confirmation bias is a methodological problem addressed by those who see attempts at refutation as the hallmark of scientific progress (e.g., Popper, 1965). Popper’s solution to the bias is to work intentionally to refute hypotheses rather than seek to confirm them. The objective is verisimilitude which is viewed as more reasonable than a truth-finding objective.

The confirmation bias is a philosophical/methodological problem for those epistemologists oriented towards truth-seeking. Virtue epistemologists argue for understanding the bias and guarding against the bias methodologically. They broaden perspective; they set up safeguards; they experiment; they weigh alternatives; they apply rigour; and they remain open-minded to various hypotheses and theories. The characteristics of the virtue epistemologists are in a broad sense scientific.

The confirmation bias is a moral problem for the evidentialist epistemologists like Clifford—those who call for more evidence before belief. In one’s cognitive processing, when facing the threat of confirmation biases, rigour, perspective, and effort are possible, but such safeguards require work.

**The Problem for the Believer—Theist or Atheist.** Here the issue is the clear and present danger for the atheist who finds herself unwittingly distracted by a propensity to the confirmation
bias. Of course, the same problem exists for the theist. The confirmation bias is placed on the table as a constraint that both camps face. The constraint can help with respect to understanding theistic misunderstanding, Islamic misunderstanding, and Christian misunderstanding. The atheist, whether (1) committed to atheism, (2) merely considering the pro side of atheism, (3) exposed to atheism, or (4) imagining atheism, is vulnerable to a confirmation bias. Similarly the Muslim, whether (1) committed to Islam, (2) merely considering the pro side of Islam, (3) exposed to Islam, or (4) imagining Islam, is vulnerable to a confirmation bias. The confirmation bias acts as a constraint against a fair and just critique of Islam, the Qur’an, and the hadiths.

That the Christian is vulnerable to the same mechanisms is a fair charge. If we don’t know which side is right it is fitting that we consider: (1) the side with the better arguments, (2) the side with the better defense mechanisms, (3) the side making sound refutation attempts, (4) the side withstanding better the proposed defeaters, (5) the side having abduction and the cumulative case effect working for it, and (6) the side with the more prudential outcomes.

**Confirmation Bias—A Good Thing?** Is the confirmation bias in any way a good thing? The simple answer is yes, if one’s belief is true. That the confirmation bias can be a good thing, pushing one to stick with a scientific theory in spite of troubling facts (see, for example, Lakatos, 1970), would be part and parcel of the scientific process. That the confirmation bias can be a good thing pushing one to stick with the legal principle “innocent until proven guilty,” can serve justice well, and the innocent person well. That the confirmation bias can be a good thing pushing one to stick with a friend or spouse surrounded by the likes of Iago, is a good thing (see Lewis, 1960b on the obstinacy of belief). The confirmation bias can be a good thing when survival is the goal; it is definitely a better thing when truth is the end.

**Confirmation Bias And Choice.** Is there a role for choice in the confirmation bias? Yes, there is a role for choice at least at two levels. First, at a seminal level one’s choices can set the confirmation bias in motion. Choosing to entertain an idea can set the confirmation bias in motion. Choosing to explore the pro side (or argue for the pro side) of an issue can set the confirmation bias in motion. Choosing a peer group espousing an idea can set the confirmation bias in motion. Many of our initial choices have confirmation bias effects. The effects are inadvertent, but they are contingent on seminal choices.

Secondly, at a critical level, when one understands the nature of the confirmation bias one is in a position to apply strategy to circumvent the bias. Choose to practice virtue epistemology, to implement multiple-perspective-taking, and to consider the suspect motivational rewards of confirmation. This indicates an important role for choice. It can be post hoc, but it is still critical.

**An Islamic Application**

When applied to certain claims, like those presented by Miller (n.d.), there does seem to be a confirmation bias that needs to be faced squarely. In Islam the confirmation bias seems to be
An Illusory Thinking Model

An illusory thinking focus (Piattelli-Palmarini, 1994) can be tied to mistakes in knowing, or illusions about what we think we know, and thus, bad beliefs. Piattelli-Palmarini argues for seven deadly sins, or dangers, that lead us to wrong conclusions and bad beliefs. 

- The first danger is “overconfidence.” Many people show an unrealistic overconfidence in their answers to questions, even factual questions. Indeed, “...the discrepancy between correctness of response and overconfidence increases as the respondent is more knowledgeable” (p.119). The more you know, the more you need to be on guard.
- The second danger is “illusory correlations” or magical thinking. The person convinced of a “positive correlation...will always find new confirmations and justify why it should be so (p.122).” “We are naturally... verifiers rather than falsifiers... (p. 123).”
- The third danger is the "Historian's Fallacy" or “predictability in hindsight.” In essence, "...we all honestly think we could have predicted what happened, as long as we know, or think we know, that it actually did happen (p. 124).”
- The fourth danger is “anchoring.” Our beliefs and opinions get arbitrarily "anchored" to such things as "first impressions," original opinions, contexts, propaganda, news reports, authorities, and emotions. These first impressions are quite resistant to change. It is almost as if pride gets in the way.
- The fifth danger is “ease of representation.” For example, when asked which is greater, death from suicide or death from homicide, homicide usually gets the nod. People typically report a greater death rate via homicide, as “...the more the occurrence impresses us emotionally, the more likely we are to think of it as also objectively frequent (p. 128).” Be wary of your imagination!
- The sixth danger is “probability blindness.” “Any probabilistic intuition by anyone not specifically tutored in probability calculus has a greater than 50 percent chance of being wrong (p. 132).” We are "blind not only to extremes of probabilities, but also to intermediate probabilities... (p. 131).” Is our reaction to genetic engineering, nuclear power, pharmaceutical test demands rational? We have a non-rational “…peremptory desire that there be no risk at all... (p. 131),” and thus small risks loom large.
- The seventh danger is “reconsideration under suitable scripts,” or what Piattelli-Palmarini calls the “Othello Effect.” In essence, “...our judgment of probability allows itself to be influenced by fictions, including scenarios we know to be pure inventions (p. 134).” As Othello was influenced by the script, the fictitious script, offered by Iago, so we are vulnerable to alternate scripts.
In essence, the entire notion of illusory thinking simply reduces to bad beliefs, or faulty beliefs. What Piattelli-Palmarini offers, and the offerings are valuable, are psychological sources of bad beliefs.

An Islamic Application

When applied to situations like those presented by Islamic apologists (e.g., Ibrahim, 1997; Khaleel, 2003; Miller, n.d.), there do seem to be red flags related to “overconfidence,” “illusory correlations,” the “historian’s fallacy,” “anchoring,” “probability blindness,” and “The Othello Effect.” The confidence these apologists show in their books strikes the informed reader as dramatic “overconfidence,” unjustified confidence, and even puerile confidence. The “illusory correlations” linked to magical thinking are apparent in the purported nature of the Qur’an and the revelation to Mohammed. “Anchoring” would be characteristic of Muslims raised under the banner of Islam; their beliefs would be anchored to their background, propaganda, news reports and so on. Even some who leave Islam find they still have beliefs anchored in Islam (see Sultan, 2009). Then, there is “The Othello Effect.” We can allow ourselves to be influenced (1) by scripts we suspect as fictions and (2) by people with a more malevolent agenda. Awareness of these dangers, these illusions, invites meticulous scrutiny for the reasonable person.

A Darkened-Mind Theory—Psychological

Sometimes the mind is “not firing on all eight cylinders” to use an automobile metaphor. At times a particular aspect of mind can fail to function in which case the subsequent actions are flawed. In a sense, this aligns with Plantinga’s (1993a, 1993b) notion of warrant requiring “proper function” to attain a level of adequacy for the support of a belief. A cognitive architectural component that is not functioning, or not functioning properly, is not likely to provide a sound foundation for belief or confidence. For example, in states like sleep-walking, somnambulism, hypnotism, altered states like religious ecstasy or trance, drug-induced states, crowd psychology, and so on, any beliefs advocated, or truth-claims made, would be suspect. In fact, it is likely that many of the behaviours and beliefs would have the earmarks of irrationality, even “stupidity.” Important critical functions are suspended—a part of the mind is “missing in action.” Such dispositional atrophy “darkens” judgment, supporting a darkened-mind inference.

Less striking, but possibly more important, examples emerge in social influence research—research that addresses the power of situational factors as opposed to dispositional factors in the generation of “evil” behaviour (Zimbardo, 2004). Zimbardo lists a number of situational factors that one would be well advised to consider: “…role playing, rules, presence of others, emergent group norms, group identity, uniforms, anonymity, social modeling, authority presence, symbols of power, time pressures, semantic framing, stereotypical images, and labels, among others (p. 47).” These all have the power to push one in a particular direction. If they push one into faulty constructions, flawed inferences, premature conclusions, bad behaviour, and so on, it is a condition easily characterized as a “darkened-mind.”

Something as simple as inducing a small first step can be quite powerful in triggering a fall. Zimbardo (2004) lists ten ingredients in a recipe for the apparent evil compliance in Milgram’s (1974) studies of obedience to authority where subjects were induced to commit to serious levels of electric shock to their fellow human beings. Ingredient #7 is: “Starting the path
toward the ultimate evil act with a small, insignificant first step (only 15 volts) (p. 29).” People easily agree to a small initial step, a mild shock. Similarly, a small initial step like one or two cigarettes, an innocent office flirtation, or a glance at a pornographic image can cascade to large consequences. One can agree to a simple caress, but small steps, like multiplier effects, cascade.

People agree to do minor things, which draws them more easily into subsequent to major commitments. Wegner (2002) uses such research to explain compliance even in phenomena like hypnotism. In an early study of compliance by Freedman and Fraser (1966) Wegner finds support. Home owners were asked for permission to place a large “Drive Carefully” sign on their lawns. Most refused. However, those who were first asked to display a small “Be a Safe Driver” sign in their windows, and agreed to do so, were more likely to agree to the large lawn sign when asked later. Progressive, sequential involvement is the proverbial story of the camel getting his nose in the tent. The first cigarette is a small step into a big tent. The first sexually curious activity is a small step that can lead to the darker side of curiosity (Kashdan, 2009).

Even an organization as sinister as the Ku Klux Klan seems to have had innocuous roots, small step roots, neither political nor racial. It was rooted in “fun,” initially. “At first they played jokes on one another and then on members of the public in general. Then gradually they began to aim their pranks at black people (Baumeister, 1997, p. 239-240).” Baumeister’s speculations are a reasonable reconstruction of how pranks escalate to cruelty as a function of small step-by-step social interactions. Seemingly decent people can be led to do indecent things by small steps (Freedman & Fraser, 1966) by authority figures (Milgram, 1974), by rewards, by good intentions, by egotism, by curiosity (Kashdan, 2009), by simple fun (Baumeister, 1997), by time pressures (Zimbardo, 2004), and by a host of other innocuous situational factors.

The social influence research does seem to offer a mechanism to explain the progress from “commitment to do the innocent small things” to “commitment to do the stupid” or evil big things. Of interest, the ten ingredients for change that Zimbardo (2004) lists in discussing Milgram’s research have implications for dispositions related to behaviours as simple as smoking, religious-positioning and scientific-positioning. Consider the information in Table 2.

In the table one sees the line of progress from small first step in smoking to entrenchment of smoking. The progress from the small first step in Islamic religious-positioning to entrenchment is evident. Similarly, the line of progress from a small first step in Islamic science-positioning to entrenchment is evident. The darkening of the mind is unfolding psychologically in Zimbardo’s ten ingredients.

<table>
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<tr>
<td><strong>Cover Story</strong></td>
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<tr>
<td>- Present an acceptable rationale or justification</td>
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<td>- An Ideology</td>
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<td><strong>Contract obligation</strong></td>
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Meaningful roles
- artist
- rebel / radical
- worshipper, servant
- imam
- martyr, jihadist
- scientist, researcher,
- apologist

Basic rules
- Justify mindless compliance
  - peer-related badge
  - habit
  - addiction
  - environmental influence
  - parental influence
  - peer influence
- Qur’an is the hermeneutical principle for interpreting science; it trumps science?

Alter semantics of act
- hurt to help
  - claim: smoking is calming
  - claim: it’s image-enhancing
- claim: religion of peace (yet via the sword?)
- claim: nasyeth refers to “forehead” rather than “forelock” (Ibrahim)

Diffuse responsibility
- authorities
  - to advertisers
  - to peers / parents
  - radical sub-groups, jihadists
  - Qur’an responsible
  - Imams responsible
- scientists offering support for Qur’an and science

Small innocuous first step
- start
  - a few drags
  - a butt
  - just one cigarette
  - listen to lectures
  - attend mosque
  - read a booklet
  - follow an admired Imam
  - find a weak analogy as with the cerebrum (see Ibrahim, 1997)

Gradual steps
- progress
  - 1, 5, 10, a pack
  - two packs
  - indoctrination
  - listen to propaganda
  - join a supportive group
  - neuropsychology
  - embryology
  - geology
  - hydrology
  - cosmology

Gradual shift of image
- good to bad
  - rebel
  - to loss of stamina
  - to health damage
  - to social ostracism
  - interested
  - to seeker
  - to follower
  - to radical
  - modern science community
  - appeal to medieval scholars
  - use of rationalization
  - adopt scientific foolishness

Exits costs
- high
  - physical and psychological addiction
  - social networks
  - social isolation
  - parental rejection
  - death penalty
  - forego science!!
  - social ostracism
  - reject the Qur’an

An Islamic Application

When applied to Islamic representatives there does seem to be a scenario worth considering. As with all entrenched learnings there would be small first steps; such steps would be clear in developmental influences linked to parents, peers, communities, local media, and so on. The compliance would be mindless. There would be gradual steps of deeper and deeper involvement. Meaningful roles and the Cover Story would be prominent. The diffusion of responsibility (e.g., to the Qur’an, hadiths, and Imams) and the high exit costs (e.g., death for apostates) are easily seen. The Gradual Shift in Image is arguably evident. In effect, Zimbardo’s ten ingredients for being drawn into a position are factors the critically concerned must consider.

A Darkened-Mind Theory—Religious

In a Christian worldview there are three sources proposed for the darkened mind: (1) the human self, (2) Satan, or the god of this world along with principalities and powers, or (3) God himself. The biblical case seems to attribute causality to all three sources with God being the more prominent source. Thus, a fourth option—considering various influences in combination from the three key sources—would be a prudent consideration in this worldview. Again, drawing upon various components of causality (i.e., material cause, final cause, formal cause, efficient cause, proximate cause, sufficient cause, direct cause, and so on) can facilitate integration and coherence.
• **God blinds certain people.** God can be the direct cause of a darkened mind (i.e., that God is the final cause, and perhaps involved in the formal cause) (for biblical examples see Isaiah 6:9-10; Rom 11:7-15).

• **Satan, or various principalities and powers can blind the mind.** Whether blinding from the god of this world (II Cor 4:3-4) is a direct cause from a malevolent source, or a permitted cause, or material cause, to mediate God’s intent either directly, or confluently, is not clear. Seeing God as the final cause, however, and in fact as “the god of this world,” has been argued cogently by Hartley (2005).

• **People are blinded as a result of their acts and attitudes.** As evident in Paul’s argument in Romans (Rom 1:18-25), people are viewed as instrumental in the darkening of their minds, even if God is the final cause. Conversely, people seem to be viewed as instrumental in the removal of the blindness—they can have a veil removed as a result of their actions (II Cor 4:14-16).\(^1\)

Regardless of the cause of the darkened mind, it seems appropriate to root it biblically in beliefs. In Romans 1:18-32 one gets the impression that Paul sees certain individuals with a darkened mind opting for beliefs they “know” are inferior, positions they “know” are wrong. Such beliefs interfere with belief shifts. In fact, the religious call to repentance (metanoia) is a call to a belief shift—a changed mind.

**An Islamic Application**

When applied to Islamic representatives, and assuming a Christian worldview, where does the problem lie? Principalities and powers would be one source of the darkness; personal acts, and intentions, would be another source. One can ask oneself: is my mind being darkened by my environment, my beliefs and attitudes, or my religion? Moreover, it is a fair question to keep in mind for all worldviews

**On Self-deception**

Addressing self-deception is an important key to understand the propensity to see supernatural sourcing in the Qur’an that purports to hold the cultural high ground and presage modern science, infallibility, and immunity to criticism. With the human propensity to self-deception, there is an argument that Islamic claims are a form of self-deception.

Self-deception is a variant of blindness. Self-deception is one possibility to explain how or why someone might abandon a belief, even a properly basic belief (Plantinga, 1983, 2000), or what Barrett (2004, 2009, 2011) terms a non-reflective belief. Self-deception may explain how a person comes to hold a belief that is unreasonable, immature, logically fallacious, or superficial.

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\(^1\) A point of interest here is the comment from Jesus that “if they were blind they would have no sin.” It seems to be a stretch to assume that God could blind people as an act of grace so that they would have no sin, and thus less judgment to face. But it’s possible. Moreover, the blinding by God might be somewhat congruent with the gracious Divine hiding of God (Moser, 2008).
Self-deception has numerous access routes. It is curiously strange that self-deception would saturate human nature, but it does seem pervasive. Self-deception is a prominent theme in the psychological literature; human beings fall prey to a range of defense mechanisms like denial, rationalization, suppression, repression, and projection. Self-deception can be formulated such that it makes psychological and theological sense. As applied to belief in God, belief in the wrong god, and the absence of any theistic belief, several frameworks are of interest here.

Bahnsen’s View -- Reformed-Based Presuppositionalism

Bahnsen wrote his doctoral dissertation on self-deception. His dissertation is available as a pdf with a Google search. As an alternative, and also a shorter read, one can access his article in the Westminster Theological Journal (1995) which is based on his dissertation: http://www.cmfnow.com/articles/PA207.htm

Self deception is framed by Bahnsen as a critically important consideration to understand the human situation. His call to focus on self-deception is based in: (1) his research examining the nature and existence of self-deception, (2) the theology of self-deception one sees in Paul (i.e., Romans chapter 1), and (3) the arguments of Van Til related to the transcendent argument for God. Quoting Bahnsen (1995) here provides the gist of his claim:

“So then, far from being a species of ‘fideism,’ as it is so often misconstrued by writers like Montgomery, Geisler or Sproul, Van Til's approach to the question of God's existence offers, I believe, the strongest form of proof and rational demonstration - namely, a ‘transcendental’ form of argument. He writes, ‘Now the only argument for an absolute God that holds water is a transcendental argument... [which] seeks to discover what sort of foundations the house of human knowledge must have, in order to be what it is.’ To put it briefly, using Van Til's words, ‘we reason from the impossibility of the contrary.’

In The Defense of the Faith, Van Til explains that this is an indirect method of proof, whereby the believer and the unbeliever together think through the implications of each other's most basic assumptions so that the Christian may show the non-Christian how the intelligibility of his experience, the meaningfulness of logic, and the possibility of science, proof or interpretation can be maintained only on the basis of the Christian worldview (i.e., on the basis of Christian theism taken as a unit, rather than piecemeal).”

The self-deception then emerges with respect to espoused-beliefs and beliefs-in-use. The argument is that one’s “beliefs-in-use” presuppose theism. When espoused-beliefs conflict with beliefs-in-use self deception must be in play. Bahnsen (1995) expresses it as follows:

“The charge is made, you see, that presuppositionalism implies that unbelievers can know nothing at all and can make no contribution to science and scholarship since belief in God is epistemologically indispensable according to the presuppositionalist. And it is right here, right at this crucial point in the analysis, that the notion of self-deception by the unbeliever enters the picture.
Van Til always taught that ‘the absolute contrast between the Christian and the non-Christian in the field of knowledge is said to be that of principle.’ He draws ‘the distinction... between the regenerated consciousness which in principle sees the truth and the unregenerate consciousness which by its principle cannot see the truth.’ If unbelievers were totally true to their espoused assumptions, then knowledge would indeed be impossible for them since they deny God. However the Christian can challenge the non-Christian approach to interpreting human experience ‘only if he shows the non-Christian that even in his virtual negation of God, he is still really presupposing God.’ He puts the point succinctly in saying: ‘Anti-theism presupposes theism.’ The intellectual achievements of the unbeliever, as explained in *The Defense of the Faith*, are possible only because he is ‘borrowing, without recognizing it, the Christian ideas of creation and providence.’ The non-Christian thus ‘makes positive contributions to science in spite of his principles’ - because he is inconsistent.”

The self-deception is a given. The atheist functions with a fundamental conflict between beliefs-in-use and espoused-beliefs. The non-Christian theist (e.g., the Islamist) functions with fundamental conflicts at the level of espoused-beliefs. The task of the apologist, with respect to the Islamist, is to present arguments showing why, and where, the espoused-beliefs of the Islamist are faulty. That’s the apologetic approach!

*Garver’s Elaborating View -- Working With “Working Hypotheses”*

Garver offers a critique of Bahnsen and presents a richer elaboration on self-deception which springs from Bahnsen’s original formulation. Garver’s critique may be found here: [http://www.joelgarver.com/writ/phil/bahnsen.htm](http://www.joelgarver.com/writ/phil/bahnsen.htm)

For one thing Garver finds Bahnsen *too rationalistic*. He asks: “Why not just come out and say that sometimes people believe contradictory propositions? His analysis seems to me to be caught in the same kind of dynamics that prevented Plato's Socrates from seeing the possibility of a person knowingly doing what she believes to be wrong.” A possible sequence is: (1) knowingly doing wrong, (2) suppressing the knowledge of wrongdoing, and (3) living with the repression in an unconscious state. The first two steps involve choice. It is at the second and third steps that the self-deception solidifies.

The point Garver makes is consistent with the contrast between beliefs-in-use and espoused-beliefs. This framing is useful. People, especially postmodern academics, frequently advance a set of espoused-beliefs. Yet, somewhat ironically, you often catch them doing things, and saying things, that indicate they do not use their espoused-beliefs, or truly believe their espoused-beliefs. Their cognitive surface structure (i.e., espoused-beliefs) does not align with their noetic deep structure, their real beliefs (beliefs-in-use). It is a form of self-deception. This self-deception doesn’t need to be of the profound calibre. Such self-deception can be a product of one’s working-worldview, one’s game-playing, one’s appetites, one’s preferences, and so on.
The elaborating suggestion in Garver relates to the notion of working with a *working hypothesis*. It is common practice in science and research to adopt a working hypothesis. Garver expresses the notion of a *working hypothesis* in several ways, seen in the following four points. And as a bonus one can see an informative fourfold typology of self deception.

- “Cases of accepting not-\(p\) as a working hypothesis by resolving to act as if not-\(p\) were true.”
  - (See where it leads! *Is this hypothetical self-deception?*)
- “Cases of taking a policy of action to bring oneself to believe that not-\(p\).”
  - (See if it works, and has pragmatic value! *Is this functional self-deception?*)
- “Simply asserting that not-\(p\), despite underlying belief to the contrary.”
  - (*Is this malevolent, prideful, or foolish self-deception?*)
- “Aligning oneself with others who are committed to not-\(p\).”
  - (*Is this socialized self-deception? Is this group-think self-deception?*)

Then, as Garver notes: “None of these cases would count as full-blown belief that not-\(p\) (and thus would not count as cases of holding contradictory beliefs), but they might look very much like it.” It is conceivable, however, that a process could be operative here; in effect, working hypotheses could morph into actual beliefs as a function of habit, lack of self-examination, simple preference, or the operation of confirmation bias. Self-deception would be a product of earlier choices—a choice history (cognitive and social).

A third proposal offered by Garver is related to *existential awareness* as opposed to propositional knowledge. Garver notes that there are “forms of knowledge” that one must consider when flagging self-deception. He writes: “...according to Bahnsen, unbelievers ignore and deny through a process of rationalization” but this “... is not always best analyzed in terms of the subject's propositional knowledge--a belief in certain propositions. There are forms of knowledge (personal awareness or acquaintance, practical know-how, intuition, etc.) which are not exhausted by propositional knowledge. For example, can a couple’s knowledge of how to dance the Lindy Hop be best analyzed in terms of a set of beliefs about the dance? Or does it involve some kind of practical feel for the steps, an embodied awareness of the movements that cannot be fully exhausted propositionally? If so, then there may be kinds or instances of knowledge that do not in any way involve the subjects believing certain propositions. Thus, rather than knowledge ‘that God exists,’ the knowledge of God may sometimes be better theorized in terms of an existential awareness of the divine presence, a fundamental openness of the human person to the Person of God, or the like.” Existential awareness (via emotional sense, intuition, sensus divinitatis, synchronicity, experience, and so on) requires epistemological expertise in distinguishing sound beliefs, reasonable beliefs, better beliefs, and true-beliefs, from self-deception. Critical thinking in this area involves knowledge, strategies, skills, and a critical thinking disposition.

Then there is the issue of *trust*, which is a key feature of the Reformation view of faith as one of three components in the triad: knowledge, assent, and trust. Garver writes: “There may also be unbelievers who quite consciously believe that God exists and assent to that proposition,
but still lack the requisite faith in God—a trusting reliance upon God, working itself out in love. According to James, the demons have such a faithless belief in God.”

Consider also that there are self-deception drivers like levels of consciousness. Garver asks: “What about unconscious beliefs? Levels of consciousness? A multiplicity of competing wills? Compartmentalization? Sure, these are complicated, but so are people in the image of an infinite God.” Psychological states like altered levels of consciousness could be important drivers of self-deception. Consider somnambulism, hypnotism, hypoxia, drug-induced states, split-brain/split-consciousness effects, the confabulations of the left hemisphere, heuristic strategies, the confirmation bias, and so on. One needs to be vigilant with respect to propensities to self-deception in self, and in the others one considers as credible authorities. One altered state that an Islamic jihadist might be open to is crowd psychology. In news reports Islamic crowd protests are more like ranting mobs than rational arguments.

The messy side of things is also flagged by Garver: “Rather, not to put too fine a point on it, we are pulsing, hot, smelly bodies, whose hearts are revealed in emotions, desires, gestures, positions, poetry, music-making, and relationships and who are equipped with conceptual, linguistic, and symbol-transforming capacities that are thoroughly embedded and enmeshed within habits, family, society, and culture. Epistemological analyses that don't make room for these kinds of considerations, it seems to me, either falsely portray experience or provide accounts so general as to be vacuous.” Again, one needs to be vigilant with respect to the shallow side of human beings, the dark side of human beings and the immature side of human beings which are conducive to faulty beliefs. These faulty beliefs then serve as sources of self-deception in self, and in the others one considers as reliable authorities.

The “heart has reasons” that reason knows not of, is a flag alluding to Pascal. Garver writes: “The question is, given Bahnsen's emphases and the overall shape of his apologetic, what do you do with a person who basically offers no intellectual reason why he rejects Christ? In such cases it is often a far more complex matter of desires, personal identifications, emotional configurations, past experiences, idols, unrighteousness in lifestyle, and so on. Even when intellectual reasons are given, they are more often than not, I think, less intellectual rationalizations and more the epiphenomena of practical rationalizations that arise from the heart.”

An Islamic Application

When applied to Islamic representatives like Miller (n.d.), Ibrahim (1997), and Khaleel (2003), is such self deception an important consideration? What might be happening in this area of self-deception? Rationalization, denial, projection, suppression, and so forth, lead to self-deception; this is a dangerous self-deception. The fact of the existence of self-deception, and the case for self-deception, calls for careful consideration of beliefs. Clearly, such self-deception factors do indeed influence rejection of properly basic beliefs, fundamental beliefs, epistemologically sound beliefs, common sense beliefs, and prudential beliefs. Self-deception is a darkness, a blindness, a state in need of light. Evidence, critique, and argument, offer light to both the anti-theist and the non-Christian theist. The anti-Christian theist, for example the
Islamist (e.g., Ibrahim, 1997; Khaleel, 2003; Miller, n.d.), would be well advised to consider critique, argument and evidence that challenges a personal position. The Islamist should ask: does their personal position stand up to critical evaluation? Such a critical disposition and critical evaluation would be scientifically sound and epistemologically sound. That’s a virtue epistemology!

Trivers’ View -- Evolutionary Selection Principles

Does an evolutionary psychology approach to self-deception offer any tools for a consideration of Islamic self-deception characterizing Miller (n.d.) with respect to the quality of his arguments? For Trivers (2011) self-deception is viewed as preferentially excluding from consciousness true information, yet including false information. Why would one do this? Answer: Adaptive advantage! Trivers’ hypothesis is as follows: “...this entire counterintuitive arrangement exists for the benefit of manipulating others. We hide reality from our conscious minds the better to hide it from onlookers (2011, p.9).” The self-deceived person has an advantage in the deception of others. Of interest pragmatism and propagandizing seem comfortably placed in such a scenario as they align with the deception of others.

Trivers posits a threefold advantage to this self-deception.

(1) First, a self-deceived person, being unconscious of their deception, does not give off tells or cues that signal deception.

(2) Second, the self-deceived person does not have an increased conscious cognitive load to maintain the deception. Consequently, his brain has more resources for other tasks.

(3) Third, if the deception is revealed, the self-deceived person has an excuse, an escape hatch—they can blame it on something other than the self, the willful self.

In effect then, the self-deceived person potentially has an advantage over others in manipulation. This, in accord with Trivers’ Darwinian view, serves to propagate one’s genes. An interesting evolutionary take! Does it also serve to propagate one’s cultural memes? Natural selection selects for deception, and ultimately self-deception. If there is a natural selection process in play here, independent of the creation/evolution conflicts, the “deficient-person outcome,” that is, from an epistemological and moral perspective, is alarming. But also the “successful-person outcome,” that is, from a gene-propagator perspective, is alarming. Either route to self-deception is potentially quite important. The self-deception we are dealing with would be quite entrenched. Overcoming such self-deception would require some dramatic precursors: time, effort, openness, education, authorities, models, evidences, arguments, virtue, power, and perhaps even the miraculous, driving a desire for truth.

Trivers’ view is not particularly truth-friendly! It is certainly consistent with Darwinian notions of development, and current variants of the principle of natural selection. Those wishing to advance knowledge and truth (as correspondence with reality) have a major battle ahead of them in dealing with deception and self-deception. Trivers frames the issue in a bleak light: humans are not truth-seeking, nor truth oriented. The lesson seems to be that we should not look
to humans for truth; and that would hold for the naturalists, the scientists, the evolutionary biologists, as well as the politicians, theologians, atheists, and moralists we encounter.

Several challenges to Trivers’ thesis parallel challenges to naturalism. First, Trivers’ position is somewhat consistent with the naturalism that Plantinga (1993b, 2002) challenges as self-refuting. Plantinga would agree that: on naturalism, humans are not truth seeking. See the discussion on Plantinga’s contention that naturalism is self refuting.

Second, naturalism as presented by Rea (2002) argues that there are ontological consequences of adopting naturalism, “unpalatable consequences” as he labels them. Particularly, naturalism fails at saving two key ontological views: the realism of material objects (RMO), and the realism of other minds (ROM). That people believe in the realism of material objects and the realism of other minds points to beliefs-in-use that do not align with a particular espoused belief, an espoused belief in naturalism, as Rea (2002) sees it. An aspect of the blindness, it seems, is partly in not seeing the problems!

Thirdly, leaving aside for the moment the fact that Trivers’ natural selection predisposes one to be deceived about natural selection, there are other substantive challenges. Behe’s (2007) challenge to the mechanism of natural selection gives one pause here. If Behe is right, and given the empirical data he examines he seems to have a case one should consider, then natural selection apparently can get one only a few steps along the way to creating the phylogenetically new (Behe, 2007, 2010). Natural selection might work well within species but the construction of new structures is a bridge too far at the moment (see also Mazur, 2009). Even someone like Provine questions natural selection. Natural selection for deception, even self-deception, may work very well within species, but if natural selection fails to generate new structures additional bases should be on the table for understanding self-deception. If so, then self-deception is open to other roots; those roots are sin, evil, self-preservation, malfeasance, and “principalities and powers.” These may be stronger roots than self-propagation driven by natural selection.

Fourth, Smith (2009) offers a challenge linked to rights. He asks: “Does moral belief in universal benevolence and human rights fit well with and flow naturally from the facts of a naturalistic universe (2009, p. 294).” He then adds: “The answer I will consider is: No, if we are intellectually honest we will see that a belief in universal benevolence and human rights as a moral fact and obligation does not make particular sense, fit well with, or naturally flow from the realities of a naturalistic universe (p. 294).” While not a refutation of Trivers’ position, Smith puts more information onto the table for consideration. In the broad context of these challenges suggested here, the issue of self-deception, human misunderstanding, is elaborated.

Fifth, common sense acknowledges the deceptive side of human nature, and common sense accesses the position that humans are indeed truth-seeking at a transcendent level, in spite of the deception. On the one hand, there is the override of the sciences pushing for truth. Further, there is the theological override, the call of truth. Strikingly, Reid makes the common sense case, the case that humans are basically truth-seeking. There is a common sense tilt towards the Reidian position, hence truth, hence theism, and hence Christian theism.
What then of Trivers’ claim? It is a rich resource for the study of our current state, a state of self-deception. Even if Trivers is wrong regarding the evolutionary source as the sole source, he is often quite right in elaborating on the blight of self-deception. The blindness! His nine categories (see Trivers, 2011, pp. 15-27) of self-deception offer various sources of blindness that ironically open Christian-theistic-eyes: (1) self-inflation, which has as an intention the blinding of others, is consistent with a type of self-blinding, (2) derogation of others, is a blinding to others, and reflective of blindness-seeking, (3) “out-group” derogation and targeted hostility is a type of blindness, (4) power blinds, it blinds the self as seen in cognitive studies using power primes, (5) a sense of, or positioning of, moral superiority shows the judging of others more harshly than the judging of self, signalling our blindness to both others and the self, (6) the illusion of control, (7) biased social theory construction: here our theories of marriage, employment, society, and so on, are such that we are then able “…to persuade self and others of false reality, the better to benefit ourselves (p. 24),” that theories might be adopted, or constructed to self-blind is a challenge to science, (8) the creation of false personal narratives and histories are designed to make one more attractive (with regard to power, physicality, morality, intelligence, etc.) which is a deception of others, and self, and (9) personal psychological modules that are unconscious and deceptive, such as, the module Trivers confesses to: a mild kleptomania. Blindnesses ironically can be seen. But the blindnesses that are seen, along with their drivers, speak more to a broken, sinful, malevolent, and untrustworthy human nature. Trivers’ side! Also in the background are the blindnesses to the other side: (1) the historical aspect for humans of benevolence, creativity, service, knowledge-building of mankind, and the noble, honourable, self-sacrificing, loving side, (2) the relational aspect for humans with others, God, animals, ancestors, and nature, and (3) the teleological aspect for mankind, with respect to the redemption of human being and nature, forgiveness and the grace available.

Further insights from Trivers (2011) that flesh out the pandemic state of self-deception can be seen in his treatment of the rewriting of historical narratives (e.g., The Japanese travesties during World War II, the Armenian genocide, Zionism, etc.), the justifications of war, the practices of religions, the treatment of women, male-female relations, and more. Particularly fascinating are the biological links attempted to correlate religious diversity with parasitic load in a geographic area. Interesting, but likely one is still more inclined to see religious diversity linked to cognitive processing rather than the processing of parasites.

An Islamic Application

When applied to Islamic apologists one wonders if the self-deception is accepted in the service of the higher ideal: helping Allah. Possibly! Characteristic of certain Muslim groups the nine factors that may be in play (see Trivers, 2011, pp. 15-27) are: (1) self-inflation, (2) derogation of others, (3) “out-group” derogation and targeted hostility, (4) power blinds, (5) a sense of, or positioning of, moral superiority, (6) the illusion of control, (7) biased social theory construction, (8) the creation of false personal narratives and histories designed to make one more attractive (with regard to power, physicality, morality, intelligence, etc.), and (9) personal psychological modules that are unconscious and deceptive. Are there modern Muslims that are characterized by any or all of the “nine factors?” It seems so! Such mapping is critical.
One suspects there are cases to be made that radicalized Muslims such as Mohammed Atta, Osama bin Laden, Yasser Arafat, Mohammed Morsi, and others, would map onto many of Triver’s nine factors—particularly 1 through 7 or 8.

Mele’s View -- and Subsequent Cognitive Construals

For Mele (1997) self-deception is viewed as not intentional, not a by-product of evolutionary psychology, and not a valuable thing; rather, it is largely the product of biases, particularly motivationally biased beliefs, desires, and wants. We can be biased to believe what we want to be true. For Mele, one cannot hold that a belief is true and false at the same time, at least in light of current cognitive research.

“In stock examples of self-deception, people typically believe something they want to be true: that their spouses are not involved in extramarital flings, that their children are not using drugs, and so on. It is a commonplace that self deception, in garden-variety cases, is motivated by wants such as these (Mele, 1997, p. 93).”

Motivation influences cognitive behaviour selectively. Selective attention, biased hypothesis-generation, biased evidence-gathering, hypothesis-testing and acceptance criteria, types-of-inferences, selective memory search, beliefs placed on the table, theory consideration, and theory construction are utilized in support of preferred beliefs, desires, and wants. Self-deception! The goal is to support a particular conclusion, a confirmation bias, and a conclusion that aligns with what one wants to be true, or hopes to be true. The overall case for not believing \( p \) is greater than the case for believing \( p \) yet one opts for believing \( p \), or commits to believing \( p \). This seems to be the case with some Islamic apologists (e.g., Ibrahim, 1997; Khaleel, 2003; Miller, n.d.) and their commitment to believing purported evidential claims in spite of the overwhelming case against such belief.

“Should it turn out that the motivated nature of self-deception entails that self-deceivers intentionally deceive themselves and requires that those who deceive themselves into believing that \( p \) start by believing that \( \sim p \), theorists who seek a tight fit between self-deception and stereotypical interpersonal deception would be vindicated. Whether self-deception can be motivated without being intentional – and without the self-deceiver’s starting with the relevant true belief – remains to be seen (Mele, 1997, p. 93).”

There are many who offer additional considerations for Mele, additional factors that when placed on the table seem to show that self-deception is a construct not yet fully formulated or grasped in psychology, philosophy, theology, or religious studies. For the present purposes, in addressing “understanding theistic misunderstanding,” or “understanding the choosing of the wrong god,” the fact of non-intentional self-deception is sufficient to make the case that the psychology of self-deception shows that at the very least self-deception functions as a belief constraint.
Broadening the issue of constraint, one can draw upon the comments from the Open Peer Commentary on Mele’s arguments. These comments add cognitive construals that enrich the construct of self-deception, and the outcome of disbelief, or faulty belief. A few comments are added here as a list:

- “‘Self-deception’ usually occurs when a false belief would be more rewarding than an objective belief in the short run, but less rewarding in the long run. Given hyperbolic discounting of delayed events, people will be motivated in their long-range interest to create self-enforcing rules for testing reality, and in their long-range interest to evade these rules (Ainslie, 1997, p. 103).” *(Note the importance of rewards short term and long term.)* (James 4:3)
- “Mele views self-deception as belief sustained by motivationally biased treatment of evidence. This view overlooks something essential, for it does not reckon with the fact that in self-deception the truth is dangerously close at hand and must be repeatedly suppressed. Self deception is not so much a matter of what one positively believes as what one manages not to think (Bach, 1997, p. 105).” *(Note the importance of proximity to truth, and apparently the intentional suppression of truth.)* (Rom 1:18)
- “Mele’s analysis of self-deception is persuasive but it might also be useful to consider the varieties of self-deception that occur in real world settings. Instances of self-deception can be classified along three dimensions: implicit versus explicit, motivated versus process-based, and public versus private (Bornstein, 1997, p. 108).” *(Note the importance of a broadened perspective.)* (Proverbs 18:17; 23:12)
- “The simultaneous possession of conflicting beliefs is both possible and logical within current models of human cognition. Specifically, evidence of lateral inhibition and state-dependent memory suggests a means by which conflicting beliefs can coexist without requiring ‘mental exotica.’ We suggest that paradoxical self-deception enables the self deceiver to store important information for use at a later time (Brown & Kenrick, 1997, p. 109).” *(Note the importance of various models of cognitive processing that are supportive of self-deception.)* (Rom 1:20-21)
- “In an analysis of the role of emotion in self-deception [the following] is presented. It is argued that instances of emotional self-deception unproblematically meet Mele’s jointly sufficient criteria. It is further proposed that a consideration of different forms of mental representation allows the possibility of instances of self-deception in which contradictory beliefs (in the form p and ~p) are held simultaneously with full awareness (Dagleish, 1997, p. 110).” *(Note the potential importance of emotional factors.)*
- “The mechanisms invoked to demonstrate how self-deception can occur without intention or awareness imply that self-deceptive beliefs are nevertheless the outcome of inappropriate and often egoistically driven processes. In contrast, models of pragmatic reasoning suggest that self-deception may well be the “reasonable” output of a more generalized, adaptive approach to hypothesis testing (Friedrich, 1997, p. 113).” *(Note the possible importance of reasoning and even types of reasoning.)* (Isaiah 1:18)
- “A major worry in self-deception research has been the implication that people can hold a belief that something is true and false at the same time: a logical as well as a psychological impossibility. However, if beliefs are held with imperfect confidence, voluntary self-
deception in the sense of seeking evidence to reject an unpleasant belief becomes entirely plausible and demonstrably real (Gibbins, 1997, p. 115).” *(Note the importance of calibrating beliefs.)* *(John 20:30-31)*

- “As understood by neodissociation and sociocognitive theorists, hypnotic responses are instances of self-deception. Neodissociation theory matches the strict definition of Sackeim and Gur (1978) and sociocognitive theory matches Mele’s looser definition. Recent data indicate that many hypnotized individuals deceive themselves into holding conflicting beliefs without dissociating, but others convince themselves that the suggested state of affairs is true without simultaneously holding a contrary belief (Kirsch, 1997, p. 118).” *(Note the insight from hypnotism, altered states of consciousness, unconscious motives, and so on.)* *(Rom 7:15-23)*

- “Contrary to Mele’s suggestion, not all garden-variety self deception reduces to bias-generated false beliefs (usually held contrary to the evidence). Many cases center around self-deceiving intentions to avoid painful topics, escape unpleasant truths, seek comfortable attitudes, and evade self-acknowledgment. These intentions do not imply paradoxical projects or contradictory belief states (Martin, 1997, p. 122).” *(Note the importance of functional ends or goals in self-deception.)*

- “An important way to become self-deceived, omitted by Mele, is by intentionally ignoring and avoiding the contemplation of evidence one has for an upsetting conclusion, knowing full well that one is giving priority to one’s present peace of mind over the search for truth. Such intentional self-deception may be especially hard to observe scientifically (Perring, 1997, p. 123).” *(Note the importance of peace of mind as motive for self-deceptive belief-selection.)*

The value of such Open Peer Commentary serves to keep self-deception in the forefront of belief constraints, disbelief, and faulty beliefs. Thus self-deception, as both an objective pursued and a methodology used, becomes an important source of disbelief, or faulty belief, in various forms, levels, and scenarios.

**An Islamic Application**

When applied to situations like those presented by Islamic apologists (e.g., Ibrahim, 1997; Miller, n.d.; and Khaleel, 2003) the problems can be seen. Motivation influences cognitive behaviour selectively. Selective attention, biased hypothesis-generation, biased evidence-gathering, hypothesis-testing and acceptance criteria, types-of-inferences, selective memory search, beliefs placed on the table, theory consideration, and theory construction are utilized in support of preferred beliefs, desires, and wants. Self-deception! The goal is to support a particular conclusion, a confirmation bias, and a conclusion that aligns with what one wants to be true, or hopes to be true. The overall case for not believing \( p \) is greater than the case for believing \( p \) yet one opts for believing \( p \), or commits to believing \( p \). This seems to be the case with some Islamic apologists and their commitment to believing purported evidential claims in spite of the overwhelming case against such belief.
How might this self-deception be operative in the case of the claims advanced by someone like Khaleel (2003) or Miller (n.d.)? From the Open Peer Commentary we argue: (1) likely rewards are in play (Ainslie, 1997, p. 103), (2) the intentional suppression of the truth is in play (Bach, 1997, p. 105), and (3) narrowing of thought is in play (Bornstein, 1997, p. 108; see also Vallacher and Wegner, 1985, 1987). We argue also that one needs to consider that emotions, types of reasoning, calibration of beliefs, functional goals, and peace of mind, are factors to consider as evident from various critics of Mele’s views. For Mele, it is beliefs, desires and wants that are in play (Mele, 1997, p. 93). But critique and critical awareness are keys!

**Religious Narratives Constrain Belief**

The manner in which religious narratives can serve to constrain belief could be viewed as threefold: (1) situating people into a system, (2) pushing people away from a system, and (3) dismantling a system.

*Religious Narrative Beliefs That Situate One In A System And Constrain Belief*

Certain religious narratives are typically seen as the source of religious beliefs, and such beliefs are at times construed in contemporary society as bad beliefs, ill-conceived beliefs, or poorly-based beliefs. Such a position is not unreasonable. Such a position could very well lead to the possibility of precluding correct beliefs. The following list is typical of how many see the source of beliefs as a function of one’s religious narrative context.

- Beliefs of one’s Parents
- Beliefs of one’s Culture
- Beliefs triggering the confirmation bias
- Beliefs offering material rewards
- Beliefs offering ego rewards
- Beliefs offering ideological rewards
- Beliefs offering emotive rewards (schadenfreude, vigilante justice, humour, vengeance, venting, gloating, etc.)

Indeed, context situates one in a belief system, and the belief system strongly influences one’s belief acquisitions.

*Religious Narrative Beliefs That Push One Away And Thereby Constrain Belief*

Some religious narratives are typically seen as the source of theistic misunderstanding. They inadvertently are dysfunctional. They can lead to possibly precluding correct beliefs. Consider the following push-narratives:

- A narrative that there is a prominent, singular, interpretive principle (e.g., literalism, allegory, myth, blind faith, “warming in the bosom,” Qur’an, Bible, reason, science, etc.)
- A narrative that there is a prominent, singular interpretive institution (Roman Catholic Magisterium, Papacy, Council, Watchtower society, Sunni, Shiite, Egyptian Brotherhood, El Qaeda, etc.).
• A narrative evidently *egregiously problematic* (e.g., silliness, fantasy, imaginings, illogical claims, refuted claims, etc.).
• A narrative with *philosophical problems* (e.g., problem of evil, myth-type miracles, textual errors, epistemological limitations, etc.)
• A narratives given to *methodological prioritizing*
  o The priority of reason
  o The priority of absolute evidentialism
  o The priority of science, and scientific methodology
  o The priority of a magisterial authority as criterion (e.g., Nihil Obstat, Imprimatur, ...papal infallibility, etc.)
  o The priority approach to scriptural revelation involving full plenary inspiration, error-free status, the priority of special revelation over natural revelation, etc.)
  o The priority of dichotomized thinking

*Religious Narrative Beliefs (Islamic) That Don’t Make Immediate Sense*

There are some religious narrative beliefs that seem particularly troubling. Deconstructing such beliefs shows problems with coherence, logic, reasoning, and consistency. As such, it seems reasonable to suspect these problematic narrative beliefs are thereby possibly precluding correct beliefs. Consider the following sample candidates:

• Role of Revelation via Gabriel
• Role of the Qur’an
• Role of Mohammed
• Role of Hadiths
• Mythic Themes
• Polygamy
• Errors
• Slavery
• Role of Women
• And more

Of course some of these beliefs might find cogent and reasonable supporting arguments, or rationalizations. That takes work. So initial reactions, initial deconstructions, could serve to push one away from a correct belief. The problem then is the fact that a religious belief can undermine theistic understanding; it can constrain belief. Ultimately, however, the one who has the better argument should win the day. The one with the better argument is most likely in the better position to support correct understanding.

*Religious Narrative Beliefs That If True Are Conducive To Correct Belief*

In Christianity there is a somewhat different narrative, a God-prescribed, and God-powered narrative. It could be viewed as a para-natural narrative! The sequential components of this type of narrative could be itemized as follows:
• First: There is a natural revelation of God. The monotheistic God and his equivalent—the God above the gods—is part and parcel of this revelation. This form of monotheism (one God, or highest God) seems to be universal as argued by Varghese (2011).
• Second: There is a sensus divinitatis. We have a sense of the divine (Plantinga, 2000). It is hard-wired in a sense as a sense. It is properly basic knowledge.
• Third: There is the conscience seen in the law written on the heart (Jer 31:33); seen in the honouring of prayer and alms (see Cornelius in Acts 10:1-4); and seen in the good response of some generated from an honourable inner nature (see Rom 2:14-15).
• Fourth: There is the divine draw, or draws. The draw: (1) of the Father (Jn 6:44), (2) the draw of Jesus (Jn 12:32-33) (Jesus indicated that if he was lifted up he would draw all men unto himself), and (3) the reciprocal drawing (Jas 4:8) where a step towards God draws God towards oneself.
• Fifth: There is the work of the Holy Spirit—leading, teaching, convicting, comforting, and so on.
• Sixth: There is the fruit of the Holy Spirit. One key fruit here being faith. The Spirit produces faith—that is, He would be producing knowledge, assent, and trust.
• Seventh: There is the discipleship offered by the church. The charge to the church was to make disciples. The church then is a repository of knowledge building. The gifted authorities, the epistemological authorities, the scientific authorities, and so on are emergent from the church. That the monasteries were church-driven disciple-makers is informative. That the first universities were church-driven disciple-makers is informative. That pretty much all early universities in the United States were church-driven disciple-makers is informative. The academic disciplines, and the knowledge generated there, are for building Christians.

In Christianity then we see a religious narrative where God is the operative agent for the most part. If true, this para-natural narrative offers forces that circumvent the constraints of mere religious narratives. These basic drawing forces can exist in “mere Christianity” and hence cross denominational boundaries—religious narrative boundaries. In Christianity this is a major difference from traditional religions. Of course, in many religious narratives (although not all) one could resist the drawing forces that are offered.

An Islamic Application
When applied to situations like those presented by Ibrahim (1997), Khaleel (2003), and Miller (n.d.) one sees how religious narratives can lead to entrenchment in learning. If the learning is faulty, the opportunity for change diminishes over time. There does seem to be a dramatic entrenchment in faulty learning in Islam cultures. One needs (1) a critical approach from the very beginning of one’s religious life, (2) a virtue epistemology characteristic of science and morality, (3) an array of facts and arguments to overpower propaganda, and (4) the operation of God’s good graces to impact such entrenchments. That’s the hope! And if this Christian framing is correct, then one needs, most importantly, the work of God operative to ensure
exposure to true religious narrative, a proximity to correct beliefs, a move to verisimilitude, and then finally the draw of truth itself.

**Paradigmatic Blindness As Breakdown**

**Reigning Paradigms**

Historically, there are various reigning paradigms—in the political arena, in religious framings, in the sciences, and even in the arts. These paradigms might be pervasive or at times localized. But, as reigning paradigms their effects on citizens are entrenched.

In *politics*: two thousand years ago one might have held that Pax Romano was the reigning paradigm. In medieval Europe, Christianity was the reigning paradigm. In the nineteenth century it was the Pax Britannica that reigned. More recently Marxism-Leninism, Stalinism, Maoism, Nazism, and the Pax Americana have served as reigning paradigms. Citizens under such paradigms were regimented in beliefs, attitudes, and practices. Change was minimized.

In *religion*: polytheism was replaced by monotheism; now atheism is on the rise. Buddhism, Hinduism, and Islam can be seen as reigning paradigms in more specific locales. In the *arts*: realism, impressionism, Dadaism, cubism, held sway at different times.

In *science*: the ancient Greeks (e.g., Aristotle) held the dominant position for quite some time. European rationalism and British empiricists then moved to the high ground. Though experimental science (i.e., empiricism) can be seen as a reigning paradigm today there are guises in the form of scientism, Darwinism, physicalism, or materialism that can be seen to place Naturalism as the reigning paradigm.

With respect to reigning paradigms entrenched learnings follow. Change is difficult. The reigning paradigm drives the learning; if the reigning paradigm is seriously flawed the learning outcomes will be seriously flawed—disordered. With respect to the West (and atheism), the reigning paradigm is naturalism and its offshoots or proxies: materialism, reductionism, scientism, evolutionism, Darwinism, and secular humanism. These are entrenched. With respect to much of the Middle East, the reigning paradigm is Islam and its variants. These are entrenched.

**Challenging The Reigning Paradigm (Kuhn and Lakatos)**

The standard formulation for a dominant paradigm from a science perspective is seen in Kuhn’s (1962, 1970) classic work “The Structure of Scientific Revolutions.” What does a scientific revolution look like? The primary context is a scientific paradigm that reigns across various scientific disciplines. There are competing views, alternate theories, and empirical challenges bubbling up regularly but rarely are these seen as threats, revolutions, or usurpations. More often than not such challenges are viewed as refining the dominant paradigm.
However, some serious challenges can arise in both quantity and quality. Serious disputes can also be culled from the growing philosophical literature addressing challenges to the major paradigm—in the case of Naturalism a literature not limited to theists (see for example the atheist, Monton, 2009; the atheist Nagel, 2012; the agnostic, Berlinski; and the former atheist, Flew, 2007). Nor is the paradigmatic challenge limited to one domain of science. It spans cosmology, biology, physics, information sciences, mathematics, engineering, and more. At this point Kuhn sees the dominant paradigm in science under revolutionary attack. The threat continues and builds prior to a revolutionary change. There could be a plethora of views arrayed against the dominant paradigm prior to a major paradigm shift. Typically, the establishment would band together to protect the dominant paradigm (Lakatos, 1970), often at all costs—obfuscation, suppression, denial, and even fraud. Nevertheless, a boiling point can be reached and a major shift occur—the old paradigm falls, and a new paradigm rules the day.

Of particular interest are the blindesses that characterize the professional in the dominant paradigm when under attack by the new school. People have a vested interest in the traditional way of looking at things, doing things, and valuing things. There is a reluctance to adopt a mind-change, particularly a change that they have been fighting for years. It can be humbling to admit oneself a fool, and thus it is the willingly humble who experience the growth spurt.

While science is highlighted here as the classic illustrative case for a paradigm shift, the protocol holds for religious paradigms as well. In Christianity, just consider the paradigm shift in the 15th and 16th centuries with the Renaissance and Reformation. Such a shift was major, even cataclysmic. In Islam, consider the hope for a paradigm shift in the direction of rational, honest, humane, and just, maturing.

The Heuristic Response to Challenges to the Reigning Paradigm (Lakatos)

An informative and elaborate approach to the mechanics of the resistance to change is seen in Lakatos (1970). To address the resistance to change consider a configuration proposed by Lakatos (1970) that offers an epistemological approach, or methodological rules, for knowledge building. Lakatos argues with respect to research programs that we have three aspects to consider: a hard core, negative heuristics and positive heuristics. It is probably fair to assume that the “hard core” is constructed to include the basic assumptions, beliefs, principles, knowledge, and so on that we accept as firm and foundational.

The methodological technique he terms “negative heuristic” is the principle, and practice, of protecting the “hard core.” “The negative heuristic of the program forbids us to direct the modus tollens at this ‘hard core’. Instead, we must use our ingenuity to articulate or even invent ‘auxiliary hypotheses’, which form a protective belt around this core, and we must redirect the

\[\text{modus tollens: If } P \text{ then } Q; \neg Q, \text{ therefore not } P. \]

1 In logic the modus tollens is configured as If P then Q; not Q, therefore not P. But this is not necessarily true if P is bivalent. For example the claim “where there’s smoke, there’s fire” is not necessarily true; thus, the claim that there is no fire, does not support a denial of the claim “there is no smoke.”
modus tollens to these (Lakatos, 1970, p. 133).” While such an approach is clearly scientific, and potentially valuable, one must be open to allocating doubt to these auxiliary hypotheses, a doubt that is proportional to the evidence lest one be blinded to more credible alternative hypotheses.

The “positive heuristic” involves plodding along with knowledge building in spite of the problems. “The positive heuristic of the programme saves the scientist from becoming confused by the ocean of anomalies…. He ignores the actual counterexamples, and available ‘data’ (Lakatos, 1970, p. 135).” A selective sight is a form of blindness, much like the confirmation bias.

While the focus of Lakatos is on the methodology of science, and science programs, it seems that the formula applies equally well to the psychology of personal knowledge building, whether psychological, religious, political, moral, or pragmatic. Our basic “hard core” beliefs are often immune from critique; instead we build auxiliary hypotheses as a protective belt—a negative heuristic. Then we plod along with knowledge building in spite of the problems. Of course this applies to both sides of an issue—the pro-smoking faction and the anti-smoking lobby, the pro-homosexual agenda and the traditionalists, the healthy eaters and the eaters-of-the-healthy, the neo-Darwinist ramp and the Intelligent Design camp, the carnivores and the herbivores, the theists and the atheists, the Christians and the non-Christians, the Islamists and the non-Islamists, and so on. Both sides have their “hard core” immunized by the negative heuristics, and the building of their auxiliary hypotheses; both sides have their positive heuristics for continuing along with “knowledge building.” Such opposition should be eye-opening, not blinding.

An Islamic Application

When applied to situations like those presented by Ibrahim (1997), Miller (n.d.), and Khaleel (2003) the mapping is easy. Their basic “hard core” beliefs are typically immune from critique; instead they build auxiliary hypotheses as a protective belt. The critiques are offered but the apologists seem blind to such cogent and forceful arguments. The apologists plod along with positive heuristics for knowledge building in spite of the problems. Their “hard core” is immune (1) on principle, and (2) given the function and use of “negative heuristics.” Such opposition should be eye-opening, not blinding. But until there is a sufficient accumulation of challenges, facts, arguments, alternative hypotheses and models, there will be no paradigm shift.

Imbalance As Breakdown

Sternberg (2002) advances an imbalance model as a theory of foolishness. He contrasts foolishness with wisdom, as opposed to the stupid/intelligent contrast. It seems—admittedly taking a little interpretive liberty—the imbalance can apply to deficits, dispositions, and desires. Sternberg sees the beginning of foolishness in a problem with tacit knowledge which is considered to be in a deficit state. Tacit knowledge is procedural (i.e., knowing how), instrumental (i.e., strategy tools for achieving goals and valuables, or what one desires in the context of competing desires), and indirectly acquired (e.g., via pragmatics, socio-linguistics, or
dispositions). In this configuration the “beginning of foolishness” is dependent on faulty beliefs, poor knowledge of strategies, weak skills, and personal agency.

The three *dispositions* that interfere with tacit knowledge use are: a sense of omnipotence, a sense of omniscience, and a sense of invulnerability. Such dispositions would indicate a psychological state that was out of balance. Such dispositions are unreasonable for human beings. Such dispositions can be found in youth, in the socially powerful, in authoritarians, in the wealthy, in the arrogant, in the criminal, and in those in positions of prestige.

Finally, there are *desires* out of balance. This might be seen in a selective focus on an interest, a timeframe, or an action. Wisdom involves balance: (1) between INTERESTS, intrapersonal interests (e.g., growth, knowledge, security, etc.), interpersonal interests (e.g., friendships, love relationships, teacher-student relationships, etc.), and extrapersonal interests (e.g., city, country, God), (2) between TIMEFRAMES (the short term and the long term), and (3) between ACTIONS (adaptation to an environment, shaping an environment, and selecting a new environment). Foolishness is seen in an imbalance in one or more of these areas. While Sternberg’s balance theory does provide a descriptive framework, a very real question is: what pushes the *deficit* in tacit knowledge? Is it a failure to learn? Is it incorrect learning? Is it an inability to learn? Does it reduce to belief? What pushes problematic *dispositions* to the surface? Are these just problematic beliefs? Are desires entangled with beliefs?

Sternberg’s focus on balance can reduce to a focus on beliefs. Beliefs underpin tacit knowledge, dispositions, and desires. Beliefs underpin interests, objectives, and actions. Beliefs underpin restoration of balance, personal agency, and responsibility.

By way of illustration, applying Sternberg’s model to smoking we start with the *dispositions*. Young smokers just beginning their smoking trajectory do seem to have a disposition characterized by a sense of omnipotence, a sense of omniscience, and a sense of invulnerability. They don’t see the harm they are open to encounter. But it isn’t just youth that have these dispositions. They can show up in the intelligentsia, the powerful, the wealth, and the arrogant.

Secondly, these young smoking neophytes clearly have *desires* out of balance: (1) between INTERESTS, intrapersonal interests (e.g., health, athletic ability, status, peer approval), interpersonal interests (approval from parents, teachers, peers, etc.), and extrapersonal interests (e.g., fitting into city, country, and religion), (2) between TIMEFRAMES, (i.e., the initial dabbler in the short term and the addict in the long term), and (3) between ACTIONS, adaptation to an environment, shaping an environment, and selecting a new environment. They don’t see the variables in play.

Finally, with respect to *deficits* in tacit knowledge, they have them. They lack the procedural and instrumental knowledge necessary to deal appropriately with situations, dispositions, interests, timeframes, and aspirations. Foolishness is seen in the behaviour of the
smokers. But it is also seen in the beliefs of the smokers. Arguable, the imbalance in beliefs precedes the imbalance in behaviour.

Though Sternberg’s model contains a great deal of detail and direction for thought it too does seem to reduce to faulty beliefs, competing beliefs, or bad beliefs, and, equally importantly, the choices such beliefs sustain. Deficient beliefs and imbalances walk together.

An Islamic Application

When applied to situations like those presented by Ibrahim (1997), Khaleel (2003), and Miller (n.d.), one could suspect imbalance. Young Muslims do seem to have dispositions characterized by a sense of omnipotence, a sense of omniscience, and a sense of invulnerability. Those are signs of imbalance! There may be desires out of balance: (1) between INTERESTS, intrapersonal interests (e.g., growth, understanding, acquisitions, self concept, ideological service), interpersonal interests (approval from parents, teachers, peers, Allah, etc.), and extrapersonal interests (e.g., fitting into city, country, religion, and world), (2) between TIMEFRAMES, (i.e., short term rewards and long term effects), and (3) between ACTIONS, (i.e., adaptation to an environment, shaping an environment, destroying an environment, and selecting a new environment). Flying planes into buildings is an ideological service showing unbalanced INTERESTS. Attention to long term effects only is an imbalanced TIME FRAMING. ACTIONS to destroy an environment might seem appropriate but there is a lack of balance when the case makes no sense, or malevolent sense rooted in evil!

Propaganda And Pragmatism As Breakdown

When propaganda is the driving force there is a potential cognitive breakdown. When pragmatism is the driving force there is a potential cognitive breakdown. Propaganda and pragmatism are often and easily misaligned with knowledge and truth. In human relationships the pragmatic often overrides the thoughtful reflective response. Pragmatic and propagandistic responses are often at a gut level, knee-jerk-but-supportive, rather than thoughtful, informative, and accurate. As an illustration, when a friend, partner, or spouse asks, “How do I look in these jeans I just bought?” there may be a pragmatic incentive to respond, “Great!” rather than offer the more nuanced response, “not too bad,” or the most accurate response, “Bulky!” In a sense there is a kindness-cruelty continuum—or a kindness-harmful continuum—where the “kindness” end of the continuum seems to trump the truthful end of the kindness-truthfulness continuum. Should it?

The gist of this scenario lies in the pressing need of the therapeutic, personal, or interpersonal moment. Furthermore, this is not the only dimension of pragmatism which merits consideration. There are more serious dimensions like: the life/death dimension, the opinion/knowledge dimension, the lie/truth dimension, and the worse/better dimension. Are there scenarios in the field of pragmatism, and propaganda, where low level determinants and influences which drive behaviour would be better driven by higher level cognitive and metacognitive overrides? Moreover, should we invest effort to get closer to the higher ends of these axes—ends like Life, Knowledge, Truth, Best, Ethical, Virtuous, Right, Just, and so on?
Opting simply for the pragmatic and the propagandistic seem dangerous, or at the very least lazy or foolish.

The Opinion/Knowledge Dimension

An interesting illustration of this problem dimensions is seen in biology texts. For some time now it has been relatively common knowledge that there are misrepresentations in biology textbooks related to some aspects of evolution. Haeckel’s drawings of prenatal embryonic development, the story of the gypsy moths, and so on, are known to be false, inaccurate, or questionable half-truths; yet, they persist in the textbooks for what would appear to be pragmatic reasons (see Wells, 1999, 2000). Even Stephen J. Gould acknowledged the problem, according to Wells (2000, p. 92); yet the information remains. It is surprising that Gould would not have been more proactive given his clear penchant for honesty. He demonstrates admirable balance when considering Scopes and William Jennings Bryan, or the flat-earth history (Gould, 1999), and when considering the history of psychometrics (Gould, 1981). Apparently for pragmatic reasons—assuming it does something good rather than harm, or assuming it does no harm—opinion can trump knowledge. Pragmatism seems to be independent of morality, and certainly less than noble; moreover, it leads to dogmas.

Surely one would choose knowledge over opinion, at least, in principle. Surely knowledge trumps opinion: (1) even if pragmatism worked in accomplishing a particular legitimate end (e.g., showing natural selection as operative and consistent with the moths changing from light to dark as a result of the darker environment which arose in response to industrial pollutants) in spite of the flawed methodology (Wells, 1999); and (2) even if there were no harmful consequences. Knowledge is the ethical goal of credalism, for sure, and the espoused goal of naturalism, though this has been challenged as a legitimate possibility for naturalism (see Haught, 2009). The long quotation from Haught follows to justify his claim:

“Although evolutionary and other scientific accounts must be part of any adequate understanding of morality, these cannot function coherently as ultimate explanation without subverting the whole naturalistic project. The project itself, as I noted earlier, is inseparable from the naturalist’s own submission to the imperative to be responsible. Here responsibility means submission to an ethic of knowledge that takes scientific-objective-theoretic knowing as unconditionally normative. But any claim to be able to explain this exacting ethic in purely naturalistic terms would be to render it conditional rather than unconditional. Naturalism therefore cannot lead the intelligent and responsible subject to any secure foundations for either intelligence or responsibility (2009, p. 166.).”

The Propaganda/Truth Dimension

The term “flat-earther” used as a pejorative term for someone locked into a weird idea, an antiquated idea, or holding an idea that the speaker just does not like, is common. The flat-earth
fiasco becomes the foundation for “flat-earth” finesses! Ironically, even the notion of a “flat-earther” is often just propaganda itself rather than an accurate presentation of facts, a precise science or an authentic history. As seen from Russell (1991) and Garwood (2007), dwelling on the “flat-earth,” rather than just the earth, often served a purpose, a pragmatic and pejorative purpose, for some “academics” with an ulterior motive.

When misrepresentations of knowledge, or people, or history are allowed to stand for pragmatic reasons (such as, it’s not important, it’s not harmful, or worse, it’s useful for my purposes whether nefarious or “good”…) something seems amiss, right? Is it not clearly Machiavellian to hold that ‘the end justifies the means?’ That an objective sought justifies propaganda is ominous.

Worrisome, there seems to be a significant propensity for the marriage of propaganda and the educated classes—the ideologically indoctrinated. Hence, there is danger where academics are at play. As Chomsky notes: “Among those who participated actively and enthusiastically in Wilson’s war were the progressive intellectuals, people of the John Dewey circle, who took pride, as you can see from their own writings at the time, in having shown that what they called the ‘more intelligent members of the community,’ namely themselves, were able to drive a reluctant population into a war… (2002, p.12).” The elitism is common as Chomsky (2002) notes in his chapter on spectator democracy when referring to journalism (i.e., Walter Lippmann), the Soviet System (i.e., Leninism), the business class, religion (i.e., Reinhold Neibuhr), or communications and political science (i.e., Harold Lasswell). Specifically focusing on the media Chomsky writes: “In short, the major media—particularly, the elite media that set the agenda that others generally follow—are corporations ‘selling’ privileged audiences to other businesses. It would hardly come as a surprise if the picture of the world they present were to reflect the perspectives and interests of the sellers, the buyers, and the product (p. 8).”

Propaganda is a multifaceted construct. Some hold that everything is propaganda. Some hold that education is propaganda, not just ‘can be’ propaganda. Some hold that propaganda has no effect. Others see it as having a profound effect. For a discussion of these variations see Ellul’s classic work on Propaganda published in 1965, and in English in 1973.

“The only serious attitude—serious because the danger of man’s destruction by propaganda is serious, serious because no other attitude is truly responsible and serious—is to show people the extreme effectiveness of the weapon used against them, to rouse them to defend themselves by making them aware of their frailty and vulnerability, instead of soothing them with the worst illusion, that of a security that neither man’s nature nor the techniques of propaganda permit him to possess. It is merely convenient to realize that the side of freedom and truth for man has not yet lost, but that it may well lose—and that in this game, propaganda is undoubtedly the most formidable power, acting in only one direction (toward the destruction of truth and freedom), no matter what the good intentions or the good will may be of those who manipulate it (Ellul, 1973, p. 257).”
Assuming Ellul is correct one must monitor propaganda, analyze situations and arguments for propaganda, and unmask propaganda even when in the service of good ends, that is, even when the outcomes serve pragmatism, and advance “a good.” Propaganda, in the guise of pragmatism, is no friend of truth.

Recognizing the limits to propaganda can serve to move one closer to the “truth” end of the continuum, and away from pragmatism. Ellul (1973) notes at least four limits.

- First: propaganda moves within the framework of pre-existing attitudes. These pre-existing attitudes act as constraints, but if they align with the propaganda they facilitate the flow of the propaganda.

- Second: “Propaganda cannot reverse fundamental trends in a society (p. 295).” Ellul uses the example of democracy in the US being resistant to any propaganda for monarchy.

- Third: “Propaganda can never be a propaganda of ideas, but must pronounce judgment on certain facts (whether these judgments are accurate or not). Propaganda cannot prevail against facts that are too massive and definite… (p. 295).” A need for coherence of the facts or consonance with the facts is a limit. But the facts must be massive it seems.

- Fourth: time. The dissemination of propaganda is a slow process, and the unfolding of truth based in facts is a slow process. Propaganda wears out over time even when it can be seen to be pragmatically working, though the time factor can be long (consider the duration of the Soviet Union); truth gets stronger.

Challenging propaganda is important, especially when mixed with pragmatism. In addition to considering the limits of propaganda and the importance of facts, there is a case for examining the claims in propaganda in the context of competing claims, hypotheses, and theories (multiple-perspective-taking and multi-paradigmatic thinking). As well, one must be alert to logical fallacies. Examining claims containing various fallacies (e.g., ad hominem arguments, appeals to fear, appeals to authority, appeals to emotions and virtue-words like happiness, join the band wagon, bad analogizing, rationalizing, projection, denial, oversimplification, testimonies, poisoning the well, bifurcation, equivocation, labeling as in calling people bigots, intolerant, or phobic, unstated assumptions, and so on) can serve as vital challenges to propagandistic claims.

It’s a Worldview Problem

So an important issue reduces to worldview concerns, and thus the broader perspective. Adopting what could be called the SODA approach, where SODA stands for Simultaneous, Overlapping, Discrete, Authorities broadens perspective. The approach is an offshoot of Stephen Jay Gould’s (1999) notion of NOMA—“Non Overlapping Magisterial Authorities.” While Gould presents a clear and interesting case\(^1\) for considering two legitimate authorities (science

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\(^1\) Gould’s book is admirable. His position is admirable. His treatment of the politicized outliers is admirable. For example, his examination of the flat earth stereotype is scholarly. Moreover, his treatment of the Scope’s trial and Bryan is scholarly—that is, fair and balanced.
and religion), his labeling of them as non-overlapping is too limiting. In fact, Gould does actually make the claim that they do overlap in some ways. He writes: “…all human beings must pay at least rudimentary attention to both magisteria of religion and science, whatever we choose to name these domains of ethical and factual inquiry (1999, p. 58).” Further, he noted: “The magisteria will not fuse; so each of us must integrate these distinct components into a coherent view of life (1999, p. 58).” There is some form of overlapping. Simultaneous worldviews are posited for both naturalism and creedalism (creedalism being a system housed in a philosophical or theological framework that supersedes naturalism).

With respect to naturalism it is not simply the adoption of philosophical naturalism that positions the scholar, as this must be framed by one’s creedalism. Though philosophical naturalism is the dominant view in the sciences, and in the scientific approach to sex studies (e.g., Bailey, 2003), it is arguably fundamentally flawed (see Haught, 2006; and Plantinga, 1993b, particularly his chapter “Is naturalism irrational?”). A second approach which acknowledges positioning, methodological naturalism, is simply assuming naturalism for scientific research. The person adopting this stance may typically adopt alternate creedal worldviews in other areas of his or her life. A third approach could be called paradigmatic naturalism. In this approach the paradigm of naturalism is adopted but considered simultaneously with a non-naturalism paradigm, or what was could be termed creedalism (e.g., postmodernism, Christianity, Buddhism, Islam, existentialism, pragmatism, and so on). In essence, we have simultaneous, overlapping, discrete authorities—SODA. NOMA might fit conceptually, and for thinking analytically, but SODA fits practically, actually, and for thinking synthetically, and abductively.

As an illustration consider smokers. Some smokers choose to smoke, are happy as smokers, value smoking, and would like to be left alone. Wearing the naturalism paradigm we describe their behaviour, we speculate on the motives, we project outcomes related to health. We might even wonder if smoking creates a diversity that can enhance the species. We test explanatory models of smoking behaviours. Here we are garbed in the scientific approaches. Simultaneously, switching paradigms, say to a creedalism paradigm like Christianity, we make value judgments, for example: (1) one ought not to try and control smokers because freedom to choose a life course is a higher value, (2) one ought not to smoke because smoking has harmful health effects on an individual, (3) one ought not to smoke because smoking has harmful social effects, via modeling, on youth, (4) one ought not to smoke because smoking has harmful social effects on health care costs, (5) one ought to offer supports to smokers because smoking has addictive qualities that often overwhelm individuals, (6) one ought to support smokers because tolerance is a virtue, (7) one ought to support smokers because smoking makes people calm and happy, and (8) one ought to make the philosophical case, true to the moral paradigm, for and against smoking. Here we are garbed in the creedal.

As another illustration consider homosexuality where the reasoning is similar. Some homosexuals choose their orientation, are happy as homosexuals, value homosexuality, and would like to be left alone. When wearing the naturalism paradigm we describe their behaviour, we speculate on the motives, we project outcomes related to health, we wonder if homosexuality creates a diversity that can enhance the species, and we test explanatory models.
paradigms, to a *creedalism paradigm* like Christianity, or some other creedal position, we make value judgments, liberal and conservative: (1) one ought not to try and control homosexuals because freedom to choose a life course is a higher value, (2) one ought not to adopt a homosexual orientation because homosexuality has harmful health effects on an individual, (3) one ought not to adopt a homosexual orientation as homosexuality has harmful social effects, via modeling, on youth, (4) one ought not to adopt a homosexual orientation because homosexuality has harmful social effects on health care costs, (5) one ought to support homosexuals because homosexuality has emerged from addiction qualities that often overwhelm individuals, (6) one ought to support homosexuals because tolerance is a virtue, (7) one ought to support homosexuals because homosexuality makes people calm and happy, (8) one ought to make the philosophical case, true to the moral paradigm, for and against homosexuality, and (9) one ought to make the political and logical case that government has a vested interest in the propagation of the next generation and therefore should implement proscriptions and prescriptions regarding the generation, education, and protection of children (i.e., the gay marriage issue).

This SODA approach applies to zoosexuality, pedophilia, necrophilia, eating problems, and the entire panoply of acquired behaviours, beliefs, orientations, attitudes, theories, hypotheses, and so on. Also, this SODA approach applies to positive proficiencies like musical skill, athletic prowess, and creative writing, as well. The solution to bad thinking is likely to be best understood with a multiple paradigmatic framing of the issues.

One way of viewing the issues, *paradigmatic naturalism*, leads to types of interpretation consistent with description, valuing of diversity, science, theory building, and empirical research, as well as pragmatism. The simultaneous paradigm, *paradigmatic creedalism*, leads to judgments situated in a belief system (e.g., Christianity, Islam, Buddhism, etc.), or a philosophy (e.g., existentialism, utilitarianism, etc.), and the understanding, doctrines, values, morality, meaning, and so on, that are properly situated within those worldviews. Both operate simultaneously; both are discrete. Both overlap. Problems arise when the two systems merge; problems arise when one system is denied a place at the table.

Therapeutically, there are potentially serious conflicted responses between overlapping paradigmatic worldviews. Again consider smoking. The *paradigmatic naturalist* describes the behaviour, looks for causal theories, and considers the possible value in such diversity. Switching to their *paradigmatic creedalism* they might stress the importance of freedom (e.g., existentialism) and advise social watchdogs to back off. Or they might stress harm and seek the proportionally greater good for society and the individual (e.g., utilitarianism) if the individual stops smoking. Or they might stress the design, purpose, and teleology of the human being’s bodily systems and argue smoking is an aberration that contravenes design and purpose (e.g., Christianity).

Consider homosexuality, as the second example: the *paradigmatic naturalist* describes the behaviour, looks for causal theories, considers the possible value in such diversity, and proposes solutions to problems based on a basic pragmatism (are they better off?). They develop research programs, develop theories, test these theories, and so on. Then, switching to their *paradigmatic creedalism* they stress practices like helping, clinical practices, flourishing, justice,
and principles, in the context of big-picture foci like ontology, cosmology, and axiology. They might stress the importance of freedom (e.g., existentialism) and advise social watchdogs, and the thought-police, to back off. Or they might stress harm/flourishing, and seek the proportionally greater good for society and/or the individual (e.g., utilitarianism) if the individual switches sexual orientation, or conversely if society simply accepts homosexuality. Or, as with smoking, they might stress the design, purpose, and teleology of the human being and argue homosexuality contravenes design and purpose (e.g., Christianity).

In essence there is a worldview problem that exists here. The prescription suggested here in SODA is to actually encourage simultaneous, overlapping, discrete, authorities. That means creedal systems must acknowledge paradigmatic naturalism; it also means naturalists must wrestle with paradigmatic creedalism. Users of both paradigms can be diligent in keeping the two paradigmatic approaches discrete; part of the problem has been what could be called “paradigm creep,” where principles resident to one paradigm creep inadvertently into the other paradigm. For example, a word like “ought” is at home in a creedal paradigm, but out of place in the naturalist paradigm. To say smoking is wrong is paradigmatic creedalism; to say smoking damages healthy lungs is paradigmatic naturalism. When the naturalist says smoking is wrong they have switched worldviews, they have switched to their creedalism. Breadth of perspective is important; with paradigmatic inclusivism one stands on the shoulders of others; one sees more.

Breadth of Perspective—The Anal/Analytic Dimension (The Five-Pill Problem)

The Anal/Analytic label is used here to portray the difference between a focus that is narrow, constrained, retentive, confined, habitual, and lacking a philosophical or scientific virtue (Anal), and a focus that is exploratory, scientific, thoughtful, open, and reasonable (Analytic). Consider the scenario of having five pills in front of you on the table, five similar pills. Each one is white. Each is round. Each has the letter “A” on it. Should we focus narrowly on the similarities, after all, we thereby avoid any kind of judgmental attitude? Such an attitude, in a different venue, would resonate with those concerned about an egalitarian, multicultural, compassionate, postmodern positioning. But does the analogy hold when we consider different applications, a virtue epistemology?

By way of illustration, in an application of this metaphor we could advance the notion that the heterosexual, the bisexual, the self-identified homosexual, the distraught homosexual, the transsexual are quite similar. They are similar, just like the five white pills are quite similar. Similarity is the principal focus. But is similarity where the important qualities lie?

Actually, the better inference one might draw from this metaphor is that what’s important are the differences not the similarities. Moreover, identifying differences definitely requires judgment, categorization, and valuing.

In a second illustration, consider the ailing eater (perhaps a bulimic with a stomach ulcer) and the treatment options with the five similar pills. The first pill is Arsenic, the second Aspirin,

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1 The seminal idea for this pill-problem I owe to Greg Koukl of Stand to Reason. He used a two-pill problem (aspirin and arsenic) to point out that differences are important when people are arguing for the fundamental similarities in cultures and religions. It’s the differences that are important.
the third an Antibiotic, the fourth an Anti-viral, and the fifth an unknown labeled Agnosis. Surely there is a clear need for analysis and thoughtfulness in choosing the better pill, and the best pill. Thus, the second inference is that there can be degrees of benefit with some courses of action clearly being more important, and more beneficial, than others. While one pragmatist might argue, “Hey, the aspirin helps, it got rid of some pain, and some inflammation.” Another pragmatist might argue, we need to consider: (a) what not to try (e.g., arsenic), (b) what we ought to try (e.g., anti-virals), (c) what we need to use for co-existing and/or consequent problems (e.g., antibiotics), and (d) what we can consider experimentally, or diagnostically, if any kind of a conceptual case can be made (e.g., agnosis). Of course, it could be argued that each is a form of pragmatism, but the latter has certain cognitive aspects that are typified by reflection as opposed to impulsivity and the narrowed focus on the similarities. The virtuous approach attends to valuing as opposed to mere pragmatism.

What’s the difference between what works and what’s right since the latter is clearly incorporating what works? Could it be the moral dimension associated with a particular creedal worldview? There are times when what works does not align with what’s right.

A Pragmatism Taxonomy

So the issue is not necessarily best framed as the priority of pragmatism; rather, it may be better configured in terms of the type of pragmatism. Perhaps, Type 1 pragmatism is driven largely by avoiding harm or embarrassment to self. Second, Type 2 pragmatism could be conceived of as driven by avoiding harm or embarrassment to others. Third, Type 3 pragmatism is driven by what works (if the person reports the outcomes as favourable, desirable, appreciated, valuable, etc.). Fourth, Type 4 pragmatism could be driven by what works better. Fifth, Type 5 pragmatism is driven by what works best. Finally, Type 6 pragmatism is driven by what works right, or correctly. This Type 6 paradigm bridges obviously to one’s paradigmatic creedalism since values are now in play. Disentangling opinion, pragmatism, and propaganda from knowledge and truth becomes the mark of wisdom, and the application of simultaneous, overlapping, discrete, authorities.

This pragmatism hierarchy is consistent with an analytical approach to problems, to concepts, to constructs, to positions, to knowledge, and to others. In essence, the analytic approach seems positioned to trump any low level argument from pragmatism. Or at least it would place pragmatic claims in a tentative position, at best.

One final consideration addresses the happiness/harm criterion that often serves to provide the rationale for pragmatism. It is assumed that what justifies a particular approach is that it works for an individual, it brings them an enhanced sense of self, or happiness, or well-being, and on the flip side it doesn’t cause anyone harm. One sees such arguments, and compassionate concerns with respect to homosexuality and transsexual sex reassignment, in many of the current sexuality discussions (e.g., Bailey, 2003; Blanchard, 2005; Dreger, 2008). A couple of questions arise here, though. Can one argue for harm? Is there a case for harm? With sex reassignment there seems to be a case for harm as the body is being harmed. The fact that some turn away from what they previously felt to be a source of happiness, whether lifestyle (Glatze, 2007) or gender reassignment (Heyer, 2011), argues for seriously nuanced
considerations. Are there lesser goods and greater goods? Esau seemed to think a “mess of pottage” was good; he traded for it something of greater value, his birthright (Gen. 25:27-34). “Old lamps for new ones!” The peace of life for a piece of cocaine! Can there be a hierarchy of goods and harms that call for more nuanced considerations? In such a light one should ask if there is a greater good being lost in the process of implementing pragmatism and propaganda.

An Islamic Application

When applied to situations like those presented by Ibrahim (1997), Khaleel (2003), and Miller (n.d.) one could suspect a predisposition to pragmatism and a tilt towards the use of propaganda. Most dramatically, if the sword works in gaining converts it follows there would be a predisposition to use the sword. More subtly, if reporting glowing unconfirmed anecdotes works, if reporting obtuse scientific items as of value, if reporting select facts and half-truths, if ignoring or rationalizing disconfirming evidences, works to gain attention and converts, one could suspect a predisposition to pragmatism. A virtue epistemology requires one be alert to such problems.

As propaganda, Islamic arguments are more likely to be halted in the Western context as they go against the flow of science, democracy, the universities, and virtues like freedom, equality, and fairness. In Islamicized countries and communities, the vulnerability to propaganda is more profound. The bulwark against propaganda is the virtue epistemology associated with honest critique, openness, science, scholarship, and so on, that is far more characteristic of the West.

Systems Thinking Breakdown

There are various systems in play that can interfere with sound thinking. For example there are parenting systems, societal systems, religious systems, political systems, reward systems, and so on, that can impact commitment to an ideal, a paradigm, a hypothesis, a theory, or a worldview. There are also cognitive systems that influence such commitments. It is the cognitively rooted systems that are considered here.

Dual-Systems Thinking (Cognitive Science & Creedal Thinking)

On the cognitive science side of this framing, a case is formulated for two cognitive systems involved in human information processing (see Kahneman, 2003, 2011; Sloman, 2002). In fact, there are numerous two-system models (see Sloman, 2002) including such configurations as deductive versus inductive systems, or analytic versus non-analytic cognition systems, or even the Freudian formulation of primary processes (seeking gratification) versus the secondary processes (dealing with limits, constraints, obstacles, and boundaries via the “reality principle”), as Sloman (2002) notes. The two cognitive systems considered here, however, are labeled as System 1 and System 2, and structured as: (1) the Intuitive versus the Reasoning systems—that is, System 1 versus System 2—(see Kahneman, 2003, 2011), or (2) the Associative versus the Rule-Based systems (see Sloman, 2002).
Kahneman

As Kahneman presented his two-processing system in 2003, he sees an Intuitive system—System 1—which displays processing characterized as: fast speed, parallel processing, automaticity, effortlessness, associative, slow-learning, and emotionality. The other system—System 2—is a Reasoning system and is characterized as: working at a slow speed, using serial processing, under executive control, requiring substantial effort, rule-governed, flexible, and showing emotional neutrality.

In the Intuitive system, System 1, faulty beliefs (and blindesses) could be linked to: (1) associativeness, if the associations are defective or limited, (2) emotions or affect, which could overpower cognition, and (3) automaticity, where that which is automatic is (a) a learned dysfunction or bad habit precluding better learning, or (b) a premature response, precluding the better more mature response. Further, sources of such faulty beliefs can be linked to biases, and the use of “a limited number of heuristics, such as representativeness and availability” (Tversky & Kahneman, 2002, loc 419).

People make “natural assessments” routinely. “Such natural assessments include computations of similarity and representativeness, attributions of causality, and evaluations of the availability of associations and exemplars (Tversky & Kahneman, 2002, loc 421).” These assessments impact judgments. We rely on these natural assessments to produce an estimate or a prediction. This judgmental heuristic can lead to “the relative neglect of other considerations (loc 428)” and possibly error or bad beliefs. Judgmental heuristics can also lead to “predictable biases,” misinterpretation of the task, and inappropriate anchoring. Faulty beliefs surfacing, then, are quite believable!

A judgment from the Intuitive system “will be modified or overridden if System 2 identifies it as biased (Kahneman, 2003, p. 711).” These corrective operations by the Reasoning system can be somewhat desolate, however, if certain constraints are in play. Blockages, or constraints, identified by Kahneman from existing literature (p. 711) are:

- **Time**—“time pressure,”
- **Load**—“concurrent involvement in a different cognitive task,”
- **Time-of-day**—“performing the task in the evening for morning people and in the morning for evening people”
- **Mood**—“surprisingly, by being in a good mood” can impair corrective operations. One wonders if this is being too relaxed.

Facilitators identified by Kahneman from existing literature (p. 711) are:

- **Intelligence** —more intelligent processors can use System 2 overrides
• **Cognitive Drive**—“need for cognition” Some individuals have a need to engage cognitively. They enjoy it, they seek it out. Intricate thought is fulfilling for some (see Shafir & LeBoeuf, 2002).

• **Expertise**—“exposure to statistical thinking”

With respect to beliefs, then—which are the underpinnings of judgments and behaviour—it is evident how beliefs can go awry via System I or System II processes. Heuristics and biases can interfere with beliefs—distorting beliefs—as can a host of constraints such as time, load, mood, intelligence, expertise, cognitive style (drive or need), and even time-of-day. Motivations and emotions can be constraints as Kahneman notes under the label “The Affect Heuristic” (2003, p. 710). Even that great recent boon to human knowledge, the Internet, can be a heuristic with serious constraints for using the Reasoning system (see Carr, 2010 for discussion of what might be called “the shallowing of thinking” as a result of the Internet).

**Sloman**

Sloman’s (2002) two systems of reasoning are similar. He terms them as an Associative system and a Rule-Based system. The Associative system shows automaticity and has certain illustrative cognitive functions (e.g., intuition, fantasy, creativity, imagination, and associative memory). The Rule-Based system draws upon language, culture, logic, concrete and abstract concepts, and strategy, etc. Illustrative cognitive functions drawn from Sloman are: deliberation, explanation, formal analysis, verification, ascription of purpose, and strategic memory.

In Sloman’s model the systems are interactive. They work together to solve problems, but utilize their own unique cognitive resources. In the Rule-Based system there are three sources of rules: culture, self-made rules, and discovered rules (in nature and logic).

Sloman contends: “The associative system encodes and processes statistical regularities of its environment, frequencies and correlations amongst the various features of the world (location 5895).” Further, “...associative thought uses temporal and similarity relations to draw inferences and make predictions that approximate those of a sophisticated statistician. Rather than trying to reason on the basis of an underlying causal or mechanical structure, it constructs estimates based on underlying statistical structure (loc 5899).”

One piece of evidence that Sloman (2002) finds quite compelling for two forms of reasoning is the fact that a person can hold two simultaneous contradictory beliefs. He uses the whale as an example. “A whale is simultaneously both a mammal (technically) and a fish (informally) (loc 5951).” Obviously the label “fish” comes from the Associative system, while the label “mammal” comes from the Rule-Based system. There are situations where “...people first solve a problem in a manner consistent with one form of reasoning and then, either with or without external prompting, realize and admit that a different form of reasoning provides an alternative and more justifiable answer. Judges are often forced to ignore their sense of justice in order to mete out punishment according to the law (loc 5955).” Again, the Rule-Based system is seen to exist with the Associative system, albeit, the Rule-Based system trumps the Associative
beliefs. This would be a good move, however, only if the Rule-Based system gets it right. In effect, two systems of reasoning are in competition!

Developmentally, on the one hand, it seems the rule-based system precedes the associative system; over time rational inferences become intuitive. Sloman (2002) writes: “The claim is that people first figure the world out deliberately and sequentially and only with time and practice does the knowledge become integrated into our associative network (loc 6101).” At the same time: “Evidence also suggests that people rely on associative processes when they do not have knowledge of or access to rule-based ones (Quine, 1977, said that we fall back on our ‘animal sense of similarity’ when a lay theory is not available) (loc 6104).” In this scenario, the Associative system is primary. In actuality, there are two systems of reasoning in interaction, developmental interaction!

Sloman (2002) contends that associative responses are automatic and persist even when the person tries to ignore them. They remain compelling even when faced with rule-based arguments. Nevertheless, “The rule-based system can suppress the response of the associative system in the sense that it can overrule it (loc 6055).” The associative system might be primary, temporally, but the rule-based system is primary, authoritatively. This can be a good thing if the associative system is wrong; it would be a bad thing, a blinding, if the associative system was making the correct conclusion.

In one scenario, problems obviously arise if one engages in shallow processing, that is, one reacts from the intuitive associative system, almost impulsively, and proceeds no further. Interestingly, as noted earlier, Carr (2010) makes the case that the computer (particularly the Internet with hyperlinks and linguistically terse text like e-mail) is propagating a generation characterized by impulsive, shallow, and surface-level processing. Failure to get to rule-based thinking could clearly be a source of bad beliefs, and blindness. Thus, preferential positioning of the associative system could be a source of bad beliefs. The intruding of the associative system on the rule-based system could be a source of bad beliefs. The fact that people are pulled in two directions at once is a potential source of bad beliefs.

In another scenario, problems arise if the associative system is right and the rule-based system overrides it. As mentioned earlier the override of the “promiscuous teleology” of system 1, by the Darwinian rules in system 2 (e.g., by Darwin himself, by Francis Crick, by others) are seen by some as a type of blindedness.

Both of the two-processing frameworks (i.e., Kahneman and Sloman) clearly point to mechanics for generating bad beliefs which then underpin bad judgments. And clearly it is a complicated field. The bottom line is the need for thinking at higher levels: reasoning, rule-based thinking, slow thinking, methodical thinking, linear thinking, and ferreting out potential constraints and biases related to heuristics, culture, and personal psychological characteristics. Harmonizing the two systems is not just getting two eyes working together it is getting two eyes operating in the presence of light.
Barrett

On the creedal side, one important idea that can be drawn from the cognitive science of religion as developed by Barrett (2004, 2009, 2011), with respect to beliefs, is that there are two, or perhaps three, key categories of beliefs. Barrett has termed two of the categories: non-reflective beliefs and reflective beliefs. Non-reflective beliefs would align with Kahneman’s (2003) Intuitional thinking (System 1), and Sloman’s (2002) Associative system. Reflective beliefs, on the other hand, would align with Kahneman’s (2003) Reasoned thinking (System 2), and Sloman’s (2002) Rule-Based system.

Rather than posit a possible third belief category which would be basic beliefs, perhaps even common sense, these could be folded into System 1 level beliefs and processing. Appraising current thinking on evolutionary psychology, albeit outside of the biological box (e.g., Barrett, 2004, 2009, 2011; Murray, 2009, Murray & Goldberg, 2009; Plantinga, 2009), challenges some of the more naturalistic accounts of belief formation, or even naturalism itself (Haught, 2009; Plantinga, 2009). The challenges offer insights regarding beliefs and belief-formation relevant for many arguments regarding beliefs of interest in this essay (i.e., beliefs which underpin a stupidity, blindnesses, a smoking orientation, an Islamic worldview). The beliefs in System 1 are important; the beliefs in System 2 are important. Integration of the two systems, philosophically, epistemologically, psychologically, and theologically, is important.

Using Barrett’s (2009) distinction between non-reflective and reflective beliefs, as well as the possible separate category of properly basic beliefs, provides a three-category system of beliefs: properly-basic beliefs, non-reflective beliefs, and reflective beliefs. There are times when the categories overlap; for example, a reflective belief that has gained automaticity, or habit-status, will function as a non-reflective belief. A properly basic belief (e.g., “I think therefore I am,” or my senses are generally trustworthy, or my memory is generally trustworthy, ...) can also function as a belief in the non-reflective beliefs category. At this point, though, the emphasis is on Barrett’s two category system (reflective beliefs and non-reflective beliefs) as these neatly map onto both Kahneman and Sloman.

Barrett includes the following list as non-reflective beliefs:

- People act in ways to satisfy desires.
- Rainbows exhibit six bands of color.
- Raccoons and Opossums are very similar animals.
- People from outside my group are more similar to each other than people inside my group.
- Animals have parents of the same species as themselves.
- Unsupported objects fall (Barrett, 2009, p.78).

There are mental tools, or cognitive tools, that lead to such non-reflective beliefs. Foremost would be a belief along the lines of basic beliefs:
• belief in one’s existence
• trust in one’s senses generally
• trust in one’s memories generally
• trust in the rules of logic generally
• trust in one’s intuitions generally, and
• trust in reason generally
• perhaps even a trust in common sense

The first four mental tools that Barrett advances from various sources are: (1) Naïve Biology (“Naïve Biology generates the non-reflective beliefs that animals bear young similar to themselves, and living things act to acquire nourishment...”), (2) Naïve Physics (“Naïve Physics generates the non-reflective belief that objects tend to move on inertial paths, cannot pass through other solid objects, must move through the intermediate space to get from one point to another, and must be supported or they will fall...”), (3) an Agency Detection Device (“The Agency Detection Device automatically tells us that self-propelled, goal-directed objects are intentional agents...”), and (4) Theory of Mind (“Theory of Mind gives us non-reflective beliefs concerning the internal states of these intentional agents and their behaviors: agents act to satisfy desires, actions are guided by beliefs, beliefs are influenced by percepts, and satisfied desires prompt positive emotions...”) (Barrett, 2009, p.79). These mental tools lead to non-reflective beliefs.

There are more mental or cognitive tools that generate non-reflective beliefs. For example, “Intuitive Morality,” Intuitive Dualism,” and Intuitive Teleology or “promiscuous teleology” have been posited (see Barrett, 2009) as drivers of non-reflective beliefs. As well, there is the intuitive “Contagion Avoidance” (Murray, 2009) that strikes one as consistent with non-reflective belief.

Before moving on to Barrett’s reflective beliefs it is worth noting that McCauley (2011) divides System 1 thought (Kahneman’s Intuitive system, Sloman’s Associative system, and Barrett’s Non-Reflective system) into two systems, two types of naturalness: (1) practiced naturalness (e.g., writing, riding a bike, playing chess, and more), and (2) maturational naturalness (e.g., chewing, walking, deep structure of language). As he notes: “The distinction between practiced naturalness and maturational naturalness applies no less readily to intuition, thoughts and beliefs. Cognition too can seem natural simply because it is well-practiced and because it is culturally well-supported or, on the other hand, because it emerges, independently of any cultural distinctive influences, in the course of human development (p. 26-27).” Some intuitions align with practiced naturalness and result from schooling, from exercise with routine problems, and from domain-specific experience—expertise. Other intuitions align with maturational naturalness and are typified by descriptors like innateness, hard-wired, modularity, unlearned, non-cultural, species-specific, nativistic, knowledge.
Barrett posits reflective beliefs as conceptually distinct from non-reflective beliefs. Reflective beliefs are beliefs we acquire through reflection: deliberate reflection, or reading, or authorities, or induction, or deduction, or abduction, or confabulations, or gossip, or mere opinion formulation. Quoting Barrett: “... when people say they believe that insects are more plentiful than mammals; E = mc^2; bananas are yellow; Lance Armstrong is the reigning Tour de France champion; or Tom Cruise is six feet five inches tall; they are expressing reflective beliefs. Whether a belief is reflective does not bear on its truth-value or whether it is justified (2009, p. 78).” . . . Reflective beliefs are beliefs that emerge from the interplay of bottom-up information processing using cognitive tools and top-down applications of executive cognitive processors. The products are reflective beliefs.

Reflective beliefs are not necessarily true beliefs. False beliefs, and bad beliefs, are constructions, or reflective beliefs, that might be adaptive. By the same token, false beliefs, and bad beliefs, are reflective beliefs, that might be maladaptive. At the extremes, theft might be adaptive, or maladaptive. Rape might be adaptive, or maladaptive. In a naturalist worldview there is such a case to be made for various adaptive and maladaptive scenarios. In a creedal worldview there is the greater likelihood of challenging adaptive and maladaptive formulations. In creedal worldviews there is a call to change one’s belief, to adopt a better belief, a good belief, a true belief.

With respect to reflective beliefs, thinking can go awry as a result of: (1) logical fallacies, (2) various heuristics and biases (see Gilovich, Griffin, & Kahneman, 2002; Kahneman, 2003; Kahneman & Miller, 2002), (3) perceptual, conceptual, and memory limits on processing, and (4) context-specific biases. Barrett illustrates context specific biases by flagging what can go awry in the face of testimony. We trust others generally, which aligns with a credulity principle (see also Reid, 1818/2011). The trust is undergirded by a conformity bias (we conform to the beliefs of those around us), a prestige bias (we trust those with status, power and celebrity), and similarity bias (we trust people like us). With such biases things can go awry! Bad beliefs and blindnesses can follow.

There are other cognitive constraints that serve as interferences, as well. In fact, the list seems endless, and one wonders how clear reflective thinking is at all possible. In this current project a number of cognitive traps and dangers are advanced for consideration (e.g., Kahneman, 2003; Piattelli-Palmarini, 1994; Sternberg, 2002; Twerski, 1997). Paradoxically, we can see the blindnesses, our blindnesses, all around us, if we look.

Reflective thinking is hard work. As McCauley expresses it: “Natural cognition is what comes to all of us easily (2011, p. 13).” But the reflective, higher order, scientific thinking is hard; it is unnatural. There is a seeing that comes naturally, spontaneously, basically. There is a seeing that takes effort, work, and guardianship.

With respect to non-reflective and reflective beliefs, thinking can go awry as a result of (1) limitations on perception, memory, and attention, (2) responses to limitations like change-blindness, illusions, confabulations (Gazzaniga, 1985), (3) intrusions from long term memory
systems, (4) content-specific biases, and heuristics (Kahneman, 2003), and (5) personal factors like fatigue, time-of-day, and mood (Kahneman, 2003). Barrett (2011) presents three content-specific biases as samples of the “tip-of-the-iceberg” of biases that impact non-reflective beliefs: face detection, fear of snakes, and categorical colour perception. This “hard-wiring” aligns with innate biases which have the potential to impact our beliefs. He writes: “...our minds preferentially attend to and differentially process some types of information over others, handling different domains of information in different ways (p. 38.)” Back to McCauley’s (2011) claim: it’s going to be hard work. It takes effort to get good reflective beliefs, theories, science, verisimilitude, and truth.

An Islamic Application

When applied to Miller (n.d.), Ibrahim (1997), and Khaleel (2003), one can attempt to identify their use of System 1 and System II level thinking. Actually, it seems that System II level thinking is shallow in Miller and Khaleel. For Sloman, the Associative system (System I) shows automaticity and has certain illustrative cognitive functions (e.g., intuition, fantasy, creativity, imagination, and associative memory). This seems more characteristic of Khaleel’s chapters. The Rule-Based system (System II) draws upon language, culture, logic, concrete and abstract concepts, and strategy, etc. Illustrative cognitive functions drawn from Sloman are: deliberation, explanation, formal analysis, verification, ascription of purpose, and strategic memory. This seems absent in Miller and Khaleel. Back to McCauley’s (2011) claim: it’s going to be hard work. It takes effort to get good reflective beliefs, theories, science, verisimilitude, and truth.

With reflective beliefs (System II), thinking can go awry as a result of: (1) logical fallacies, (2) various heuristics and biases (see Gilovich, Griffin, & Kahneman, 2002; Kahneman, 2003; Kahneman & Miller, 2002), (3) perceptual, conceptual, and memory limits on processing, and (4) context-specific biases. Barrett illustrates context specific biases by flagging what can go awry in the face of testimony. We trust others generally, which aligns with a credulity principle (see also Reid, 1818/2011). The trust is undergirded by a conformity bias (we conform to the beliefs of those around us), a prestige bias (we trust those with status, power and celebrity), and a similarity bias (we trust people like us). With such biases things can go awry! Bad beliefs and blindnesses can follow. Further, thinking in either system can go awry as a result of responses to limitations like change-blindness, illusions, and confabulations (Gazzaniga, 1985), inappropriate intrusions from long term memory systems, content-specific biases and heuristics (Kahneman, 2003), and personal factors like fatigue, time-of-day, and mood (Kahneman, 2003). These limitations and potential constraints seem characteristic of Khaleel; at least they are questions to be raised regarding Khaleel’s claims. Some may be applicable to Miller and his claims.

Developmentally, the rule-based system precedes the associative system; over time, rational inferences become intuitive. Sloman (2002) writes: “The claim is that people first figure the world out deliberately and sequentially and only with time and practice does the knowledge become integrated into our associative network (loc 6101).” At the same time: “Evidence also suggests that people rely on associative processes when they do not have knowledge of or access
to rule-based ones (Quine, 1977, said that we fall back on our ‘animal sense of similarity’ when a lay theory is not available) (loc 6104).” In this scenario, the Associative system is primary. In actuality, there are two systems of reasoning in interaction, developmental interaction! That the Associative system becomes primary helps explain the Khaleel case. He may well have formed his reflective beliefs years earlier, perhaps as a teenager, which then transferred to an Associative system. In his more mature state, as a practicing medical professional, he simply defaults to the associative system rather than invest in the “hard work” of developing the more mature arguments consistent with, and required by, the Reflective system.

Sloman (2002) contends that associative responses are automatic and persist even when the person tries to ignore them. They remain compelling even when faced with rule-based arguments. Nevertheless, “The rule-based system can suppress the response of the associative system in the sense that it can overrule it (loc 6055).” This takes hard work, work consistent with a virtue epistemology. The associative system might be primary, temporally, but the rule-based system should be primary, authoritatively. This primacy of the Reflective system can be a good thing if the associative system is wrong; however, it would be a bad thing, a blinding, if the associative system was right. Nevertheless, it is the arguments from the Rule-based system that warrant first-order consideration, not the intuitions and imaginings of the associative system.

Hot and Cold Systems

Metcalfe & Mischel, 1999; Mischel & Ayduk, 2004 address recent work on delayed gratification, work that includes attention to a rational system. Essentially, there are at least three issues that point in this direction: (1) there are two clear “types” that deal with delayed gratification, hot vs cold types, (2) there are brain-bases, or differential neurological substrates, consistent with rationality, and (3) there is the possibility of change, or at least openness to change, via strategic influences, again a rational approach.

Hot vs Cold types. With respect to types, Metcalfe and Mischel (1999) identified two types in their proposal of a two-system framework (a hot system versus a cool system) for self-regulation, the dynamics of willpower, and the delay of gratification. As offered in Mischel and Ayduk (2004) the cool system, “… is an emotionally neutral, know system: it is cognitive, complex, slow, and contemplative. ...the cool system consists of a network of informational, cool nodes that are elaborately interconnected to each other, and generate rational, reflective, and strategic behavior (p. 109). ” The hot system “…enables quick, emotional processing: simple and fast, and thus useful for survival... (p. 109).” The hot system is automatic, developmentally early, and typically precludes effortful control. The notion of rationality would align with the operation of the cool system.

Differential neurological substrates. With respect to brain bases, somewhat tentatively, Mischel and Ayduk (2004) link the cool system to hippocampal and frontal lobe processing. They link the hot system to the amygdala. More recently, Casey, Somerville, Gotlib, et al (2011) relate the two systems to neurological substrates as follows:
“Two neurocognitive systems that rely on distinct neural systems have been proposed to enable self-control. Whereas the ‘cool’ system involves cortical control regions, including the prefrontal cortex, the ‘hot’ system involves deep brain structures such as the ventral striatum that are implicated in the processing of desires and rewards. Resisting temptation, as measured by the ‘hot’ go/nogo task in the present study, supports this view, with the prefrontal cortex and the ventral striatum differentiating low and high-delay participants. The difference in inferior frontal gyrus recruitment for ‘nogo’ relative to ‘go’ trials was reduced in low delaying participants, potentially reflecting reduced ability in these individuals to invoke cognitive control in the context of emotional or ‘hot’ cues. The ventral striatum has been implicated in reward and in immediate, as opposed to delayed, choice behavior. Thus, sensitivity to environmental cues influences an individual’s ability to suppress thoughts and actions, such that control systems may be ‘hijacked’ by a primitive limbic system, rendering control systems unable to appropriately modulate behavior. Similar analogies of imbalances between these neural systems in the literature suggest that addiction and adolescence may be contexts when cognitive control may be particularly vulnerable to alluring environmental cues (p. 4).”

The cool system is more controlled by neuro-cognitive systems, particularly prefrontal cortex, and thus more amenable to delayed gratification. Individuals predisposed to the cool system are more likely to respond to arguments that favour delaying gratification, or opting for the bigger rewards at a later time. Rational behaviour seems evident here.

Strategic Influences. Mischel and Ayduk (2004) note: “As the cool system develops it becomes increasingly possible for the child spontaneously to generate diverse cognitive and attention deployment cooling strategies (e.g., self-distraction, inventing mental games to make the delay less aversive¹), and thus to be less controlled by whatever is salient ... (p. 110).” If defending God is the salient feature of a worldview one needs to delay the practice in order to fully consider the rationale. It takes work and strategy to suppress the salient temporarily.

An Islamic Application

When applied to quasi arguments like those presented by Miller (n.d.), Ibrahim (1997), and Khaleel (2003), there can be a severe lack. Apologists and polemicists for a particular worldview (e.g., Islamic, Naturalism, Christianity, etc.) ought to demonstrate the use of the cool system—slow, methodical, cognitive, strategic, rational, reflective arguments, evidence based, logically coherent, and critically examined arguments. There ought to be a critical suppression of the emotionally “salient” determinants (say, helping God, or serving Allah, or denying Yahweh) in order to fully consider the arguments and evidence. I don’t see this in the apologists (i.e., Ibrahim, 1997; Khaleel, 2003; Miller, n.d.). Their offerings are more of opinion pieces than

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¹ Other strategies to regulate affect, strategies that are logically, or reasonably, amenable to learning have been offered by Larsen and Prizmic (2004, pp. 44-51). For example, they suggest: distraction, avoidance of rumination, expressing negative affect as in venting, suppression, cognitive reappraisal, social comparison with those worse off, planning to avoid future problems, socializing, getting advice, looking for one’s positive blessings, helping those less fortunate, laughter as medicine, and so on. These strategies align with both rational behaviour and learning—and even support “cold turkey” in a cool system.
rational arguments. They seem dominated by the emotionally salient factors rather than the “cool system” processes.

**Discourse on Science**

**The Scientific Skeptical Stance**

We need to be on guard with respect to the sciences. Our most valued approach to knowledge, that is, the scientific methodology, can blind us, or contribute to our blinding. The adoption of a particular worldview (e.g., naturalism) can blind us (see also Rea, 2002). System 2 processes (see also Kahneman, 2011)—where the sciences reside—can override System 1 processing which is a major problem when System 1 contributions to our cognitive mixing-pot are correct. The scientific “circling of the wagons” can blind those trying to break free (see also Feyerabend, 1975, 2011; Kuhn, 1970; Lakatos, 1970). The sciences are filled with fraud, fudging, rigging, gate-keeping abuses, self aggrandizement, ambitions, and so on) blinding the unsuspecting. The imprimatur of authorities can blind one. The professional can be primed for a blindness, which would then blind others. Learning theory can blind one. Technology can blind one via shallowing-of-thinking and narrowing of thinking as in action-identification theory. A broader epistemic scope is needed than the pure absolute evidentialism of the sciences. Sciences can blind! Even in this most respectable epistemic field one needs to be extremely vigilant and critical. The same applies to worldviews like Islam and Christianity.

**An Islamic Application**

When applied to situations like those presented by Miller (n.d.), Ibrahim (1997), and Khaleel (2003), the need to be critical on multiple dimensions is striking. Like Khaleel, Miller shows no immediate evidence that he has attended to the problems, the constraints, the liabilities, and the potential blind spots in his defense of Islam and his call to test the Qur’an. Hence, one can place little confidence in his claims, his opinion-piece. Moreover, the very broad base and far-ranging challenges that already exist with respect to Islamic claims seem to be entirely ignored by the apologists like Miller. Such blindness actually demonstrates the untrustworthiness of his claims.

**Conclusions: The Abductive Claim**

When considering Miller’s claim for the Qur’anic high ground (as with Khaleel) and for the supernatural underpinnings for the Qur’an, the cumulative case against such claims mushrooms. That some professionals, like a medical doctor, adopt such beliefs uncritically is puzzling but not compelling. There are reasons for smart people to believe stupid things (see Sternberg, 2002). And as Sultan (2009) noted in the quote that opened this essay, the beliefs of educated people can be strange: “Muhammad told his followers in a hadith, ‘Drink camel urine, it contains the cure for all ills.’ Muslims can graduate from the most famous medical schools in the world yet still believe that camel urine can cure illness.” – Wafa Sultan (2009).
Miller (and other apologists like Khaleel and Ibrahim) would do well to attend to the rigours of System II level thinking, virtue epistemology, critique, evidence, comparatives (like Christianity), the problems of a confirmation bias, the problems of various religious narratives, illusory thinking, and the mechanics and propensities of self deception. Bringing such issues to bear on the claims they wish to make will either make or break the claims. And given “the reasonable person test” it is clear the more scholarly approach will break the claims. But if not, at least there will be claims that surpass a mere opinion piece.

Miller (n.d.) and compatriots like Khaleel (2003) would do well to adopt an openness to change. Proclaiming the invitation to test the Qur’an for a single error as Miller (n.d.) does, or the pre-eminence for one’s religious ideology as Khaleel (2003) does, is insufficient. One must be open and responsive to the scholarly arguments demonstrating error or challenging the pre-eminence. Such a display must reflect awareness of: (1) the issues with psychological thinking like confirmation biases (see Kahneman, 2003; Nickerson, 1998), self-deception, illusory thinking, rationalizations, defense mechanisms, and so on, (2) the issues with scientific research (e.g., Broad & Wade, 1982; Ioannidis, 2012; Tipler, 2003), (3) the history of scientific and conceptual revolutions over the past few millennia (Feyerabend, 1975, 2011; Kuhn, 1970; van Fraassen, 2002, 2011), (4) rational hermeneutical principles, (5) exegesis as opposed to eisegesis, (6) the pre-eminence of the search for truth, (7) the nature of propaganda, and on and on. One is best positioned when one adopts a stance that is open to change (van Fraassen, 2002). Consider the issue: “So here is the problem for epistemology; we take ourselves to have knowledge and to know what it is to be rational. Yet we also look back and see that in our past our presumed knowledge went into crisis, and the crisis was resolved in ways that burst the very categories of our then-putative knowledge and reason. We could perhaps think of ourselves as so superior to our past that these reflections are now irrelevant—and maybe that is the natural epistemological attitude. But what if we acknowledge that we could be in that position again? ...There were times when epistemology itself needed to undergo radical changes and did so. Can we coherently acknowledge that we could be in that same position again? This problem is a touchstone for epistemology and a fortiori for empiricism, if an empiricist position is to include an epistemology in its stance (van Fraassen, 2002, p. 73-74).” One must be open to change! Hence one must be critical and tentative, proportioning belief as a function of evidences, arguments, and epistemological principles that reflect wisdom and common sense.

Apologists like Miller and Khaleel would do well to attend honestly, and empathically, to some Moslem critics inside Islam; for example Fatah (2008) and Manji (2003). They would also do well to attend to critics who were former Moslems (e.g., Ali, 2007, 2010; Sultan, 2009; Warraq, 2011). Most important are the historically rooted critics that Spencer (2012), Holland (2012), and White (2013) draw upon. The critical attitude characteristic of a virtue epistemology (and the scientific method) would put Miller and Khaleel on far firmer ground, and much nearer truth.

The approach in this report examined Miller’s call to test the Qur’an with respect to error. The approach was layered in terms of addressing: (1) content specifics from Miller’s pamphlet, and (2) explorations with respect to the possible influences (psychological, historical, rational,
hermeneutical, epistemological, and cognitive) driving Miller’s opinion. Change is the reasonable and desirable move for Miller, as the warrant for such a move is clear!

All things considered, so far, the abductive inference to the best explanation is as follows: the Islamic evidential case, including Miller’s invitation, shows failure: (1) on its own merits, (2) when considered philosophically, psychologically, and hermeneutically, and (3) when considered through a straightforward scientific lens involving contemporary evidences, arguments, theories, and accepted knowledge.

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