The STIC Model: Six Tests of Information Confidence

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Anyone who has a smartphone or access to the Internet now faces a juggernaut of influencers promoting their ideas, products, scams, and conspiracy theories alongside invaluable help and information of all kinds. Seemingly, the often unwanted "guests" on our screens are like snowflakes in that they are all quite different and in need of evaluation before allowing them to be captured on our outstretched tongue.

Tools such as the CRAP Test, have been used to help teens sort out what to believe. At the same time, professional fact checkers try to help all gain some perspective in a crazy world of ideas. However, several of the available tools were developed mostly to test information sources as part of academic research papers or reports in the K-12 arena and lack a broader view of the current world of information.

While writing a book aimed at teenagers of any age entitled <u>Create by Design</u>, I created a number of strategies for teenagers that might improve their learning skills and their design thinking ability. Naturally, the topic of judging information quality presented itself fairly early. Looking around, I decided to take a bit of a different approach that might assist teens in making judgements about any type of information they were encountering no matter where or when encountered and across all channels of communication they are subjected to. Thus, I posed the major question to my readers:

Should this information be allowed to STIC (stick) in my brain or should I flush it?

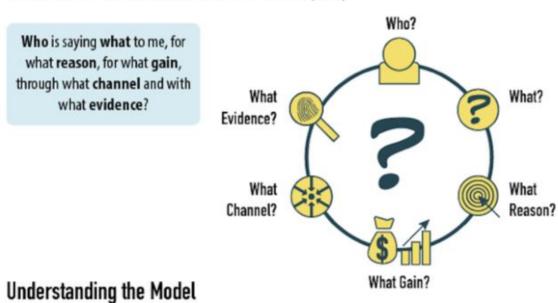
Hopefully, a more robust tool would encourage all people, young or old, to come into command of their own strategies for deciding what to trust, believe, and act upon. The current division of communities into opposing core beliefs that divide societies, governments, and even families present a challenge so very apparent in today's media. This creates a new fear and wonderment about the direction we are headed whether home, community, province, nation, or transborder. It all seems to present a formidable challenge with a major sense of urgency to solve.

So, let's examine the STIC model to see whether pieces, parts, or the whole might be a tool for us as individuals but also worth teaching to young and old.

There are six tests that can be made individually, mixed up, or as a whole. Put up six fingers to help you and others remember those six: WHO is telling me WHAT, for what REASON, for what GAIN, through what CHANNEL, and with what EVIDENCE?

SIX TEST OF INFORMATION CREDIBILITY MODEL (STIC)

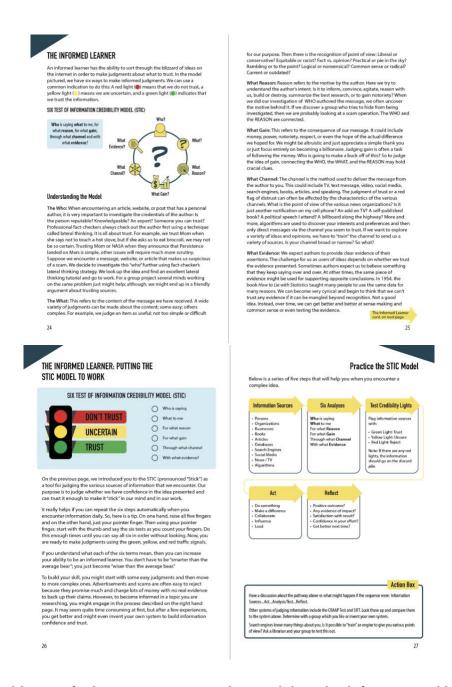
green means trust.



Next, there are three tests after our investigation that help us decide our level of confidence: The regular traffic light: red means don't trust, yellow is uncertain, and

SIX TEST OF INFORMATION CREDIBILITY MODEL (STIC)	
DON'T TRUST	Who is saying What to me
UNCERTAIN	For what reason For what gain
TRUST	Through what channel
	With what evidence?

It would also be helpful if the reader could access the actual pages of the entire book and in particular the four pages that are titled The Informed Learner where the actual STIC Model is presented. Pictures of these pages are provided below and may be too small to read, but the reader can access the entire book with the Informed Learner pages at page 13 and 14. The entire book is at: Create by Design Booklet and permission is granted to use pages of the book with your own students.



As you probably see, facing pages present the model on the left page and how to use the model ideas are on the right. Think boxes and action boxes provide some additional ideas.

A helpful video about the STIC Model was created by masters' students in my instructional design course for presentation at the International Association of School Librarians Conference in the Spring of 2022. Here is the link: IASL Presentation: Information Confidence "The STIC Model" by Dr Loertscher & His Graduate Students

In addition to the STIC Model, the readers are advised to investigate how professional fact checkers do their work. They have a method of examining the "who" part of the STIC Model using what they call lateral thinking. This means that instead of reading down through a piece of information such as a website, they try to discover across different information sources by opening new information resources that would tell us about who the person, organization, or even bot that is responsible for the content. Trust is determined based first on the reader's judgment of believability.

One good YouTube video by Civic Online Reasoning presents an excellent overview of lateral thinking: Sort Fact from Fiction Online with Lateral Reading

Lateral reading often helps address the other parts of the STIC Model such as adjusting the channel where the information is coming from, following the money when looking at gain, and judging the actual evidence authors give for their claims.

More and more, evidence is often presented as the analysis of huge data sets, clinical trials, and experiments. It is also interesting to help teens look at careers in data science: Data Science Career: (Is Becoming A Data Scientist ACTUALLY Worth It?)

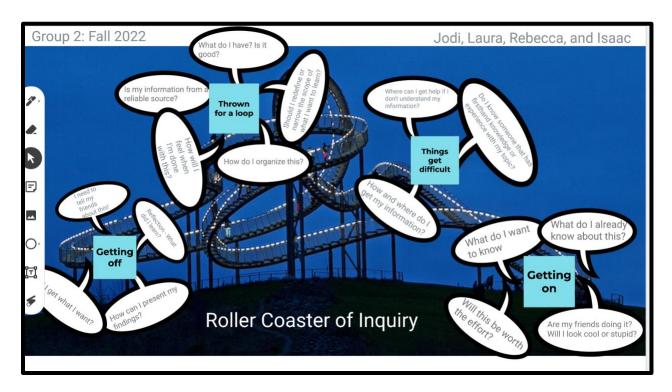
However, caution is often needed after one has read the classic books How to Lie with Statistics. Such data analysis is often so interesting by studying political campaigns and their polling data. Opposite conclusions based on the same data set also lead some to agree with Rudy Giuliani when he reportedly said, "There are no facts; only opinions."

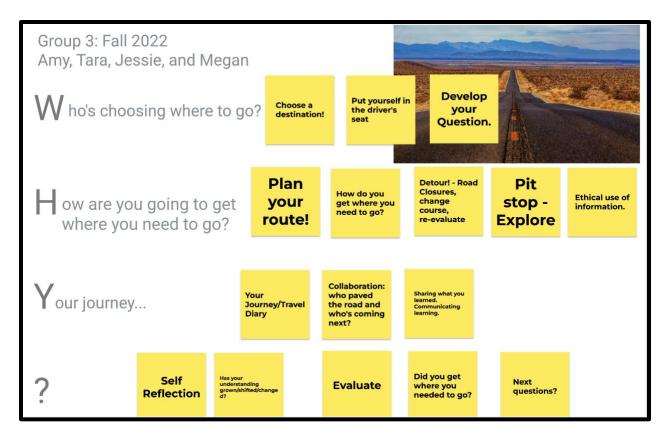
So, what does all this mean?

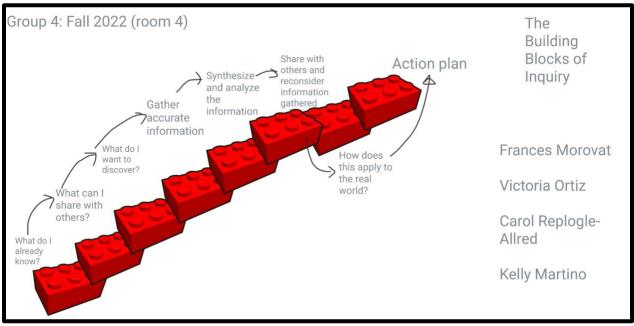
The author is suggesting that teaching the STIC Model with a heavy dose of lateral reading is a possibility for teacher librarians who really want to increase the sophistication of the inquiry skills they are currently teaching. Yes, this model may be better than or about the same as you are now teaching, but there is a greater challenge to consider here.

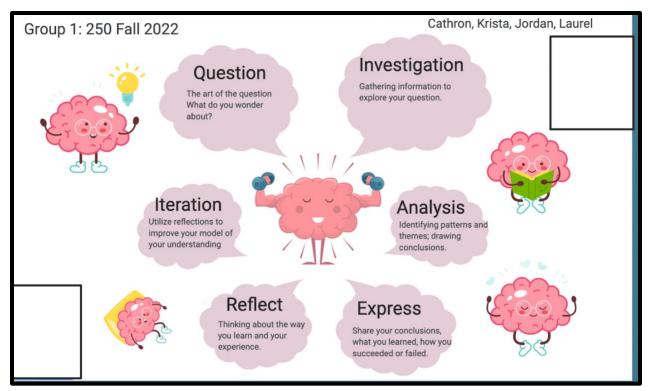
The author teaches an instructional design course to students enrolled in the School of Information at San Jose State University in California and, of course, has a unit about the teaching of information literacy as a part of a co-taught learning experience with classroom teachers. One of the fascinating things I observe each semester is asking the graduate students to examine a number of information literacy models out there but then using a Jamboard, challenge them in groups of three or four to create a drawing of their own information literacy model. I encourage them to be creative and my purpose is

to deepen their understanding of information literacy models rather than me giving a lecture about it. The results of this challenge are always fascinating. Using Jamboard, the groups can not only build their own model, but they can see what other groups are doing at the same time. Thus, the experience is a bit of collaborative learning with a touch of competition. Below are the four examples of models that were created in the fall semester of 2022 that you can view with their permission:









Link to Jamboard:

https://jamboard.google.com/d/1GLaDJlggiNZUyXHQbLwNQgFS2LGdpSm0i1OlTucLH7c/edit?usp=sharing

The Big Think

After any inquiry learning experience is complete, it is wise to conduct a BigThink or metacognitive reflection that learners do to ask the following questions:

- What did I learn?
- What did we learn?
- How did I learn?
- How did we learn?
- How can we become better at inquiry the next time we have the opportunity?

Both the teacher and the teacher librarian who conduct this reflection together need to document the percentage of learners who met or exceeded their joint expectations. Their Jamboard drawings of their inquiry process can be a part of the process objectives assessment. Content learning will require a different set of measures.

However, and that is a big however, we need to probe individual and group inquiry model drawings across time. What happens to the sophistication level of the drawings across a school year with at least three inquiry experiences? Perhaps we ought to ask the learners themselves about this question. Whether all learners have become better judges of what sticks in their brains vs. flushing would be one of the finest pieces of evidence to suggest that teacher librarians are indispensable.

Finally, if you have read this far, as a professor, I have the urge to give you an assignment. Find an article or speech in which Carol Kuhlthau describes her four-decade inquiry interviews of her students. Apply the STIC Model. Red, yellow or green light of trust? So what? And, what's next for you?

References:

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