Arming Students Against Misinformation:

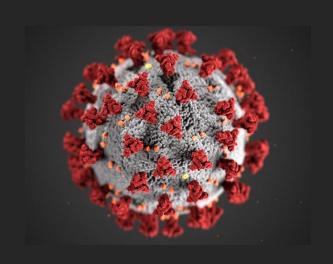
Asynchronous Instruction to Motivate Community College Students to Practice Information Literacy Skills

Allyson Ota, MLISc University of Hawai'i at Mānoa Learning Design & Technology April 14, 2022





Infodemic





Misinformation

Information Literacy!

Problem & Target Audience

Students at Kapi'olani Community College

have difficulty searching for, locating, and evaluating information resources to complete research assignments.

There are further implications of the importance to develop Information Literacy (IL) skills in order to inform decision-making in students' personal lives when navigating the massive amount of information and misinformation found online.



Target Audience

- Average Age 25*
- May or may not know anything about IL
- May not see the value of Information Literacy instruction
- Motivated to complete assignments to pass classes



Needs Assessment:

- Typically Face to Face
- After the pandemic: Synchronously online
- No asynchronous IL instruction
- Requested by Director of Radiologic Technology Program
- Support our Distance Education Students



Why do KCC Students have a hard time finding information resources and evaluating them?

- Students entering college seem to lack information literacy skills expected of college faculty (Saunders et al., 2017)
- Younger people struggle to analyze digital information despite being able to access and use online tools (McGrew, 2020).
- Educators perceive students are finding research resources online: Google, YouTube, social media, and Wikipedia; while books, eBooks, databases and librarians are used the least (Purcell et al., 2012).







Instructional Goal

Upon completion of this asynchronous instruction, students will be motivated and feel confident to practice evaluation of information resources, analyzing the creator's authority, and utilizing search strategies.





DESIGN: WHAT DID YOU DESIGN AND HOW DID YOU DESIGN IT?

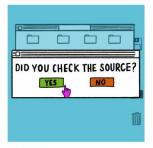
An Introduction to Information Literacy

Welcome to Module 01:

Authority is Constructed and Contextual

Welcome to Module 01, where we will be learning about the *source*, or **authority** behind various information resources; what makes someone an authority; and that the **context** in which research is being conducted matters and affects what sources can be considered authoritative.

We will also learn **how to identify the authority** on a resource, about **confirmation bias**, website **domains**, and *recommended approaches* when encountering information.



via GIPHY

Continue to the Module 01 video, "Authority is Constructed and Contextual" Welcome to Module 02:

ALL The CRAAP! (and More)

In Module 02, we will learn how to evaluate the evidence in **online** resources utilizing the **CRAAP Test**, plus learn the importance of **analyzing the evidence** in claims made through various websites and articles. Aditional tools and tips will be shared to help arm you against misinformation, and provide guidance on **lateral reading** and **evaluating information found online**.



via GIPHY

Continue to watch a video about applying The CRAAP Test

Welcome to Module 03:

Searching as Strategic Exploration

In Module 03, we will learn about where you can **locate quality resources** for your research assignments, observe video tutorials showing you **how to**search in the following locations / databases:

- 1. Google Scholar
- 2. Library's Catalog
- 3. EBSCO Health Databases
- 4. PubMed Central

Learn about the **search process** itself, and realize it's totally fine to ask for help!



via GIPHY

Continue to the Module 03 Presentation Part I

Framework for Information Literacy for Higher Education

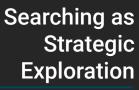
Authority is Constructed and Contextual

Information
Creation as a
Process

Information Has Value













Scholarship as Conversation



(American Library Association, 2015)

Areas Needing Improvement Selected by Faculty (*n* = 10)

Authority is Searching as 60% **70**% Constructed and Strategic **Exploration** Contextual P Information 20% 30% Creation as a Research as **Inquiry Process 10**% **Information Has** Scholarship as Conversation Value



Framework for Information Literacy for Higher Education (ALA, 2015)

Domains of Learning

- Cognitive
 - Pre-test
 - Post-test

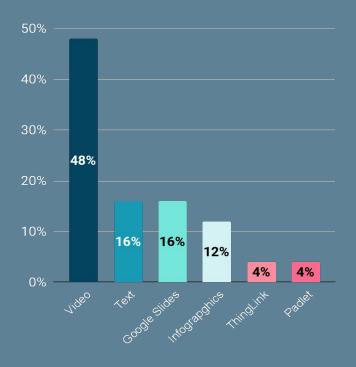
- Affective
 - ☐ Retrospective-survey

Instructional Strategies

- Keller's ARCS Model of Motivation (2010)
 - Attention, Relevance, Confidence, Satisfaction
- Mayer's Cognitive Theory of Multimedia Learning (Mayer, 2014)

Design: Use of Media & Multimedia Throughout the eLearning

Media Types (n = 6) & Elements Used in the eLearning Course (n = 25)



Videos: 12

Text explanation: 4 Google Slides: 4

Infographics: 3

ThingLink: 1

Padlet: 1

Media

ARCS Model of Motivation: Attention & Relevance









- High Quality audio
- Good production
- Duration 5 mins or less

Cognitive Theory of Multimedia Design (Mayer)

"People learn better from words and pictures than from words alone" (2014, p.43)

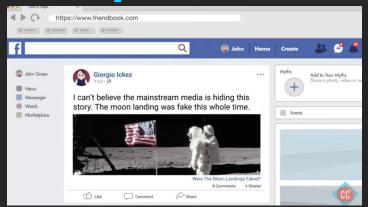




Videos & Google Slide presentations with audio:

- Redundancy (graphics & narration)
- Temporal contiguity (narration and graphics simultaneously)

Examples & Non-Examples, Relevance









Help Save The ENDANGERED



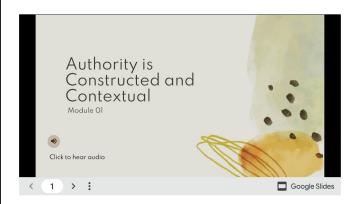
Design: Emphasis

Welcome to Module 01:

Authority is Constructed and Contextual

Overview

Please look through the presentation for Module 01, which will present you with an overview of the main topics included in this module.



Continue

Very minimalist design on all pages:

- Content is the star of the show
- No navigation menu
- No distractions
- Chunking of information
- Reduce cognitive load

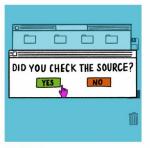
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via GIPHY

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via GIPHY

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via GIPHY

Continue to the Module 03 Presentation Part I

Pre-Training and Signaling

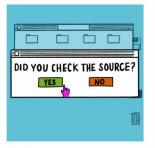
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via GIPHY

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via GIPHY

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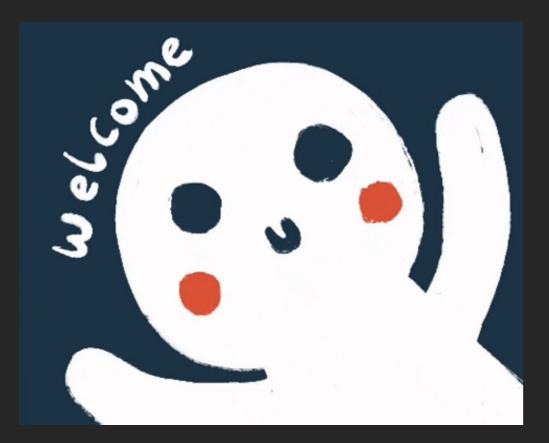
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via GIPHY

Continue to the Module 03 Presentation Part I

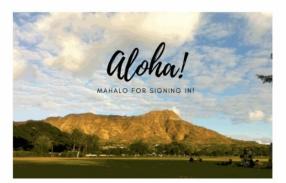


Design: Personalization Principle



Customization & Personalization

Hi allyson!



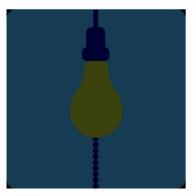
Mahalo for signing in, allyson.

Continue to select light or dark mode

☐ laulima.hawaii.edu

Choose your experience

Light or Dark Mode?



via GIPHY

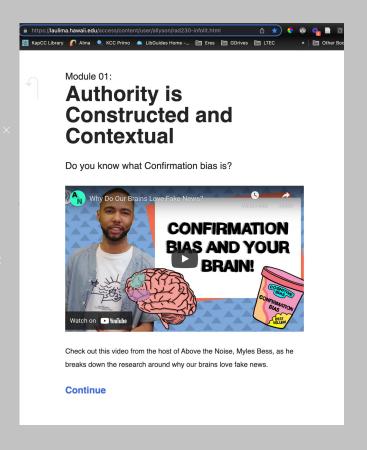
How would you like to proceed?

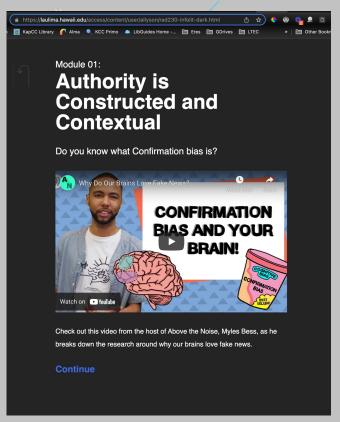
Click the button below to select **light** or **dark** mode for your user experience. You can always come back to this page later if you change your mind. :)

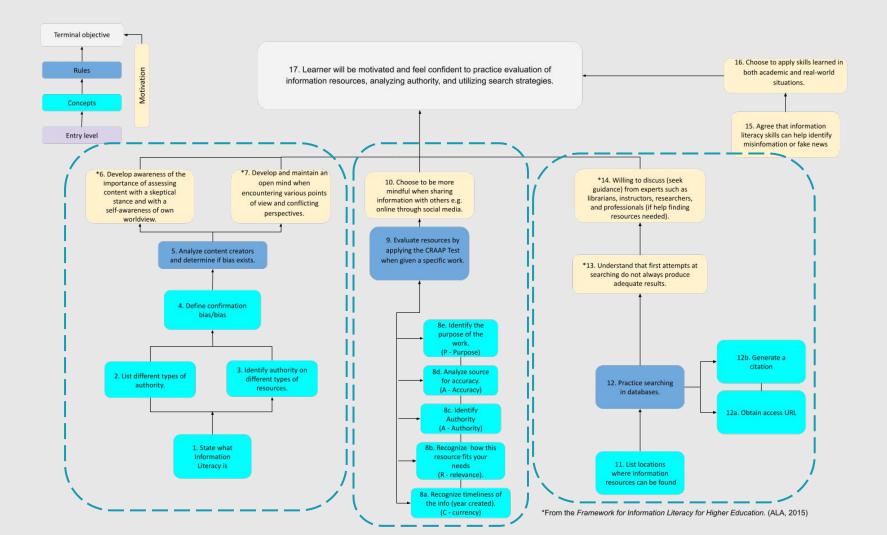
Toggle light/dark mode

Please continue to the next page

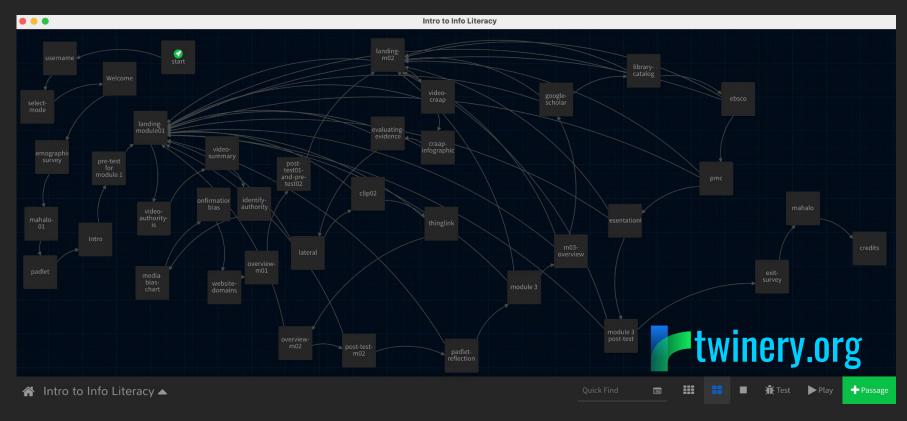
Dark or Light mode option







twine is "an open-source tool for telling interactive, nonlinear stories"



Utilized in an extremely linear way to allow scaffolding

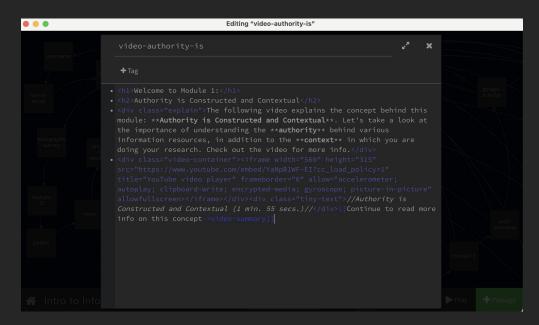
Technology



Stylesheet

Any CSS entered here will override the default appearance of your story.

```
body {
   background-color: white;
   margin: 60px auto;
   width: 80%;
}
/* this is the test code */
body {
   padding: 25px;
   background-color: white;
   color: black;
   font-size: 25px;
}
.dark-mode {
   background-color: #242424;
   color: white;
}
/* end of test code*/
.explain {
   color:#242424;
   font-family: 'Helvetica', 'Arial', 'Sans-Serif';
   font-size: 19px;
}
```



Twine:

 HTML5, CSS, Harlowe 2.1.0 story format, Javascript to code the website and embed multimedia / learning objects

Media & Multimedia Types + Tools & Technologies Used

*Video YouTube Trimmer YouTube *Infographics @ *Google Slides 🔁 🦱 🚾 *Padlet padlet *ThingLink thinglink. **Explanatory Text **Google Forms (for assessment)

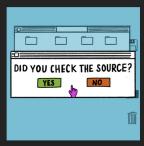
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via GIPHY

Continue to the Module 01 video, "Authority is Constructed and Contextual"

Content Covered:

- What is Information Literacy?
- Authority is determined by information need and the context in which information will be used in
- Identifying Authority + Types of Authority
- Confirmation Bias
- Approaching information with skepticism and open-mindedness

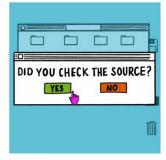
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via GIPHY

Continue to the Module 01 video, "Authority is Constructed and Contextual"





Module 01: Review

Authority is Constructed and Contextual Video



You just watched a video that explains the concept: Authority is Constructed and Contextual. Jared was confused because he sees his pastor as an authority figure, but in the context of his college class assignment, his instructor wanted him to utilize sources considered authoritative in academia. There are different types of authority that exist, but the context in which you are performing your research, also matters. When doing personal research, you probably wouldn't need a scholarly, peer-reviewed article to find the answer to all your questions, but it is something your instructor may require for class assignments.

Continue to learn about identifying the authority on a

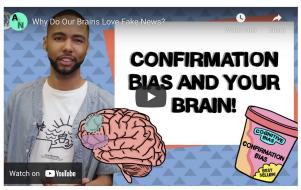
Explanatory Text & Videos

Module 01: Authority is Constructed and Contextual

Module 01: Authority is Constructed and Contextual

Confirmation Bias

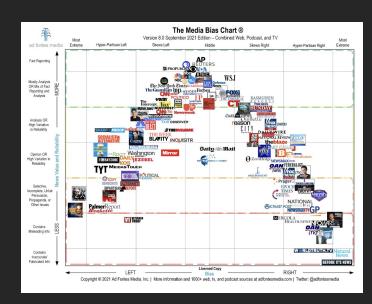
Do you know what **Confirmation bias** is? Check out this video from the host of Above the Noise, Myles Bess, as he breaks down the research around why our brains love fake news.



Why Do Our Brains Love Fake News? (5 min. 20 secs.)

Continue to learn about website domains and authority



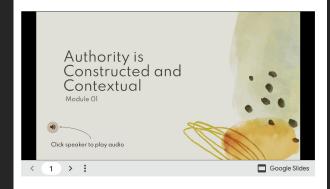


Module 01: Authority is Constructed and Contextual

Module 01: Summary

Authority is Constructed and Contextual

Please look through the following presentation, which provides you with a summary of the main topics that were included in this module, *Authority is Constructed and Contextual*, and some additional, key terminology.



Continue to the Module 01 Post-test & Module 02 Pre-Test

- Ends with Summative Google Slides
 Presentation
- Help prepare them for the post-test

Module 02: ALL The CRAAP! (and More): Addresses evaluating resources found online

Welcome to Module 02:

ALL The CRAAP! (and More)

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via GIPHY

Continue to watch a video about applying The CRAAP Test

Content Covered

- CRAAP Test (2010)
- Lateral Reading
- Examining the Evidence
- Many real-world examples

Module 02: ALL The CRAAP! (and More)

Welcome to Module 02:

ALL The CRAAP! (and More)

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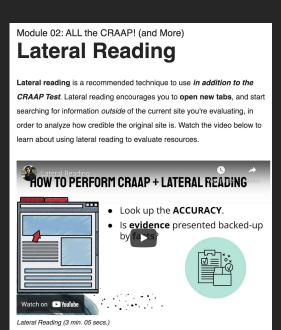
via GIPHY

Continue to watch a video about applying The CRAAP Test









Continue to learn more about analyzing the evidence

Videos, Infographics, & Evaluative Strategies, CRAAP Test, + Use of CRAAP with Lateral Reading

Module 02: ALL The CRAAP! (and More)

Module 02: ALL the CRAAP! (and More)

Breaking Down a Resource

The image below contains hot spots you can click or mouse-over to interact with analyzing an example resource found online. To view bigger, click the full screen icon on the bottom-right of the image next to the word "Thinglink."



This content was based off a resource found on the Indiana University East Fake News

LibGuide

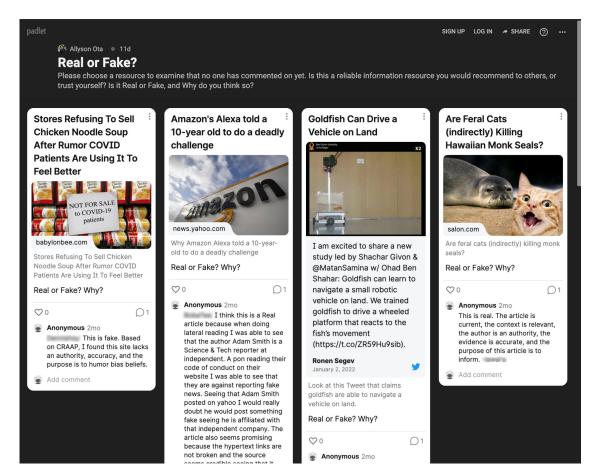
Continue to Module 02 Summary

ThingLink: Article Exploration

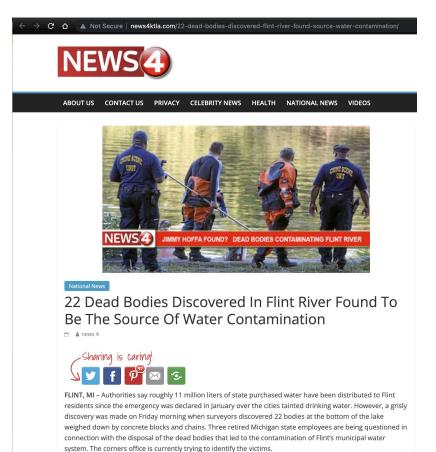
EMBEDDED TEST: Module 02: ALL The CRAAP! (and More)

Padlet

- Interaction
- Analyze resources



ASSESSMENT: Module 02: ALL The CRAAP! (and More)



3. Please state your opinion on whether or not this resource would be a credible news item to cite in a research assignment on Flint Michigan's water crisis.

Yes or No?

Please explain your answer.

http://news4ktla.com/22-dead-bodies-discovered-flin

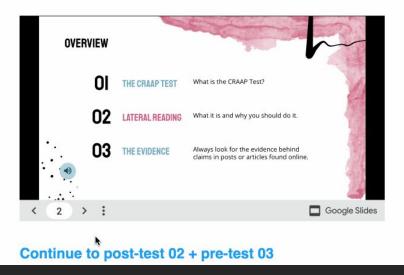
t-river-found-source-water-contamination/

Module 02: ALL The CRAAP! (and More)

Module 02: ALL the CRAAP! (and More)

Summary

Please check out this overview of Module 02 before continuing on to the Post-test for Module 02, and the Pre-test for Module 03.



Module 03: Searching as Strategic Exploration

Welcome to Module 03:

Searching as Strategic Exploration

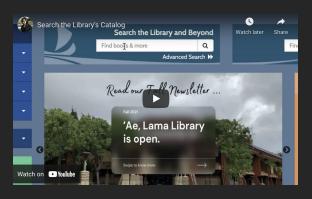
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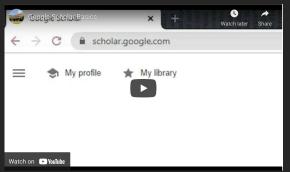
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- 3. EBSCO Health Databases
- 4. PubMed Central

Learn about the **search process** itself, and realize *it's totally fine to ask for help!*

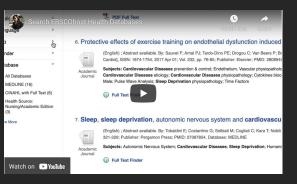


Continue to the Module 03 Presentation Part I





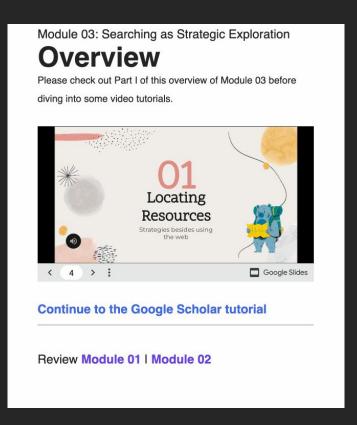


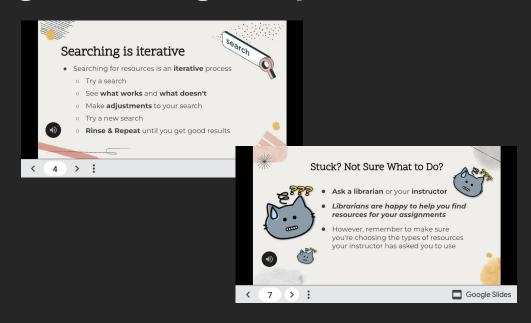


4 Searching Tutorials:

Library's catalog, PubMed Central, Google Scholar, & EBSCOhost Health

Module 03: Searching as Strategic Exploration





"Before this module I didn't know how to use databases so module 3 was very helpful to me."

EVALUATION USABILITY STUDY + LEARNING ASSESSMENT (LA)

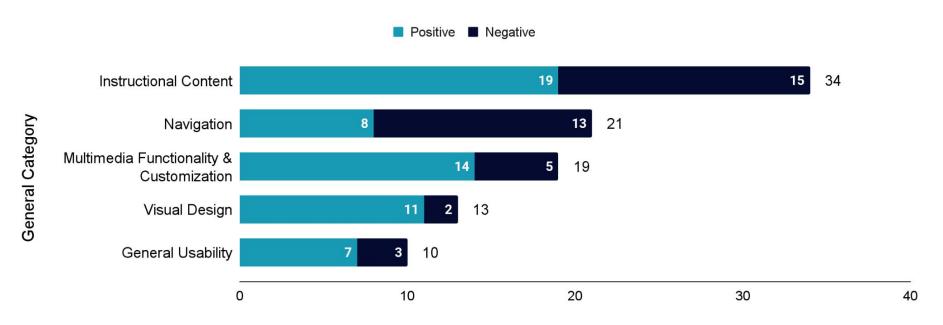
USABILITY STUDY: IS THE INSTRUCTION USABLE?

PARTICIPANTS: USABILITY STUDY

- Participants (n = 3)
- Librarian, Faculty member at KCC, Usability + Content,
 Subject Matter Expertise (SME): Information Literacy
- Instructor, Faculty at KCC, SME: LTEC M.Ed. (Instructional Design)
- Student, undergraduate, UHM student majoring in Education

USABILITY STUDY RESULTS: FEEDBACK FROM PARTICIPANTS

Positive and Negative Feedback Received Across Usability Categories (n = 3)

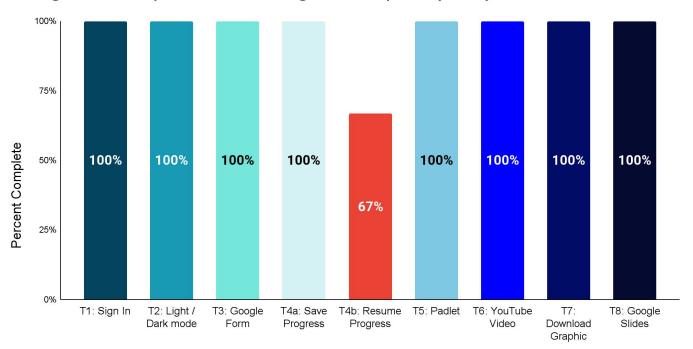


Number of Comments Received

97 Total Comments Received

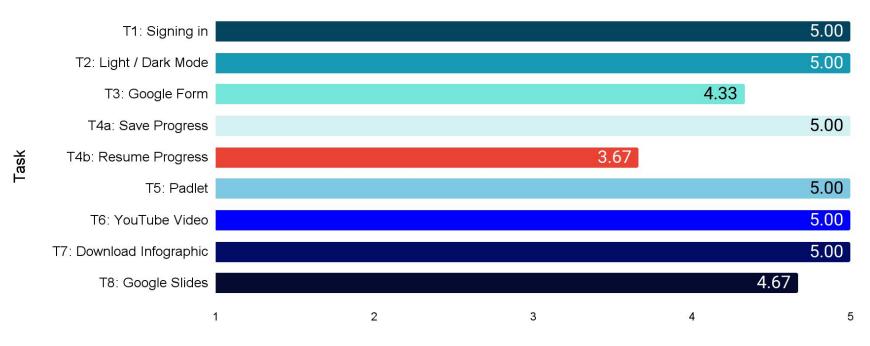
USABILITY STUDY RESULTS: TASK COMPLETION RATE

Average Task Completion Rate Among All Participants (n = 3)



USABILITY STUDY RESULTS: EASE OF USE

Average Ease of Use Rating by Task (n = 3)



Ease of Use Rating

1 = Very Difficult, 5 = Very Easy

USABILITY STUDY RESULTS: EASE OF USE (OVERALL)

Follow-up Survey:

"Rate the ease of use of the website"

5

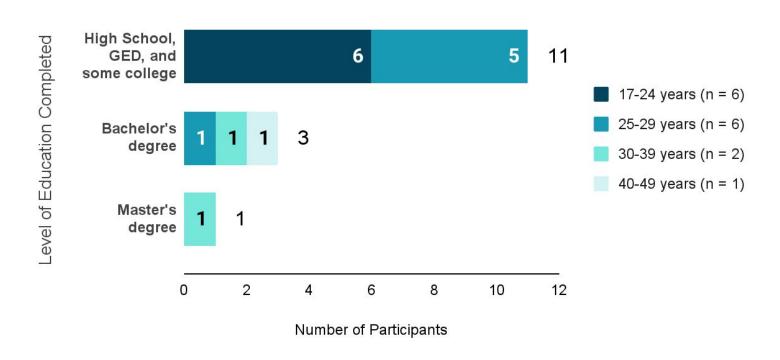
LEARNING ASSESSMENT: IS THE INSTRUCTION EFFECTIVE?

PARTICIPANTS: LEARNING ASSESSMENT (LA)

- RAD 230 students (n = 14)
- Student, undergraduate, UHM student majoring in Education (n = 1)
- Total participants (*n* = 15)
 - All from target audience

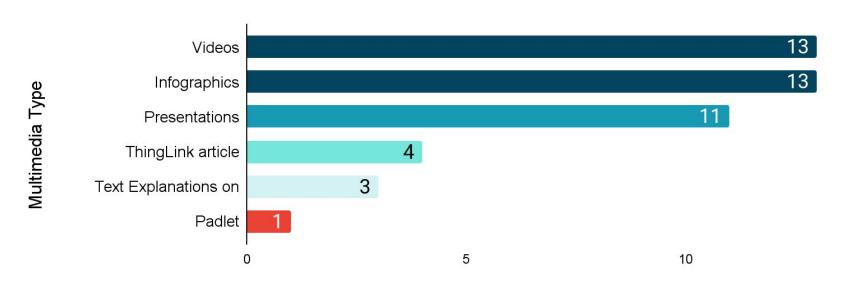
PARTICIPANTS: LEARNING ASSESSMENT (LA)

Participants by Age and Highest Level of Education Completed (n = 15)



PARTICIPANTS: LEARNING ASSESSMENT (LA)

Participants' Preferred Multimedia / Media Types (n = 15)



Number of Participants

15

WHAT DID YOU LIKE THE MOST ABOUT THE INSTRUCTION?

Eleven (73%) students mentioned video

"I feel like the choice of videos were good because of how to the point and short they were. I didn't really get bored."

"I liked that videos and pictures were implemented vs having to just read a bunch of stuff."

"I liked the videos the most because I am more of a visual learner. Watching videos are [sic] helpful and make learning more fun."

WHAT DID YOU LIKE THE MOST ABOUT THE INSTRUCTION?

Connection to coursework

"It's a good reference/tool for my upcoming paper / assignments."

Asynchronous instruction

"We could **go at our own pace** and **backtrack** to the information if necessary **to help ourselves answer questions**."

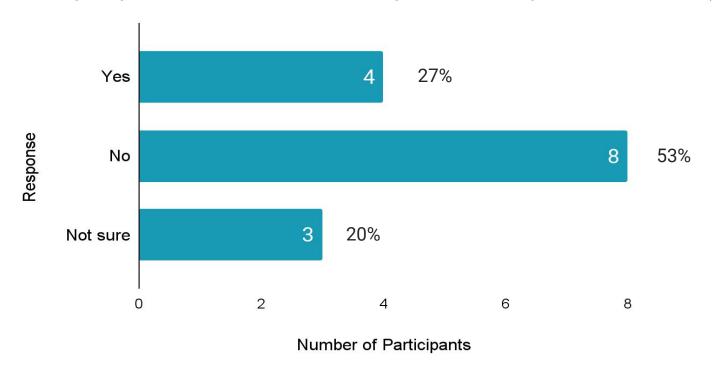
I have **taken this course before** at UH Manoa, so **doing this asynchronously was very** [sic] **much better** and was a **refresher** for me."

WHAT DID YOU LIKE THE LEAST ABOUT THE INSTRUCTION?

- 4 students (27%) said "n/a" or "nothing"
- 3 students (20%) mentioned length of the instruction
- 2 students (17%) mentioned Padlet
- 1 Student (7%) mentioned "I did not like the long videos"
- 1 participant (7%) felt it could have been longer with more info

PARTICIPANTS: DEMOGRAPHICS

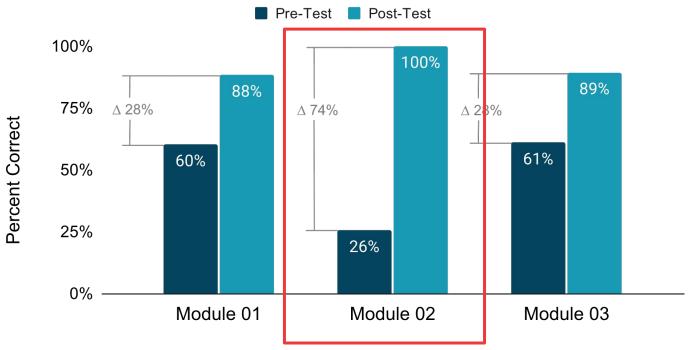
Have you ever attended a library orientation or library instructional session with any of your college classes at any of the UH system libraries? (n = 15)



COGNITIVE OBJECTIVES

LA AVERAGE SCORES BETWEEN PRE AND POST-TESTS

Average Participant Pre and Post-Test Scores by Module (n = 15)



Pre-Tests, Post-Tests, and Change in Scores by Module

PARTICIPANTS: DEMOGRAPHICS

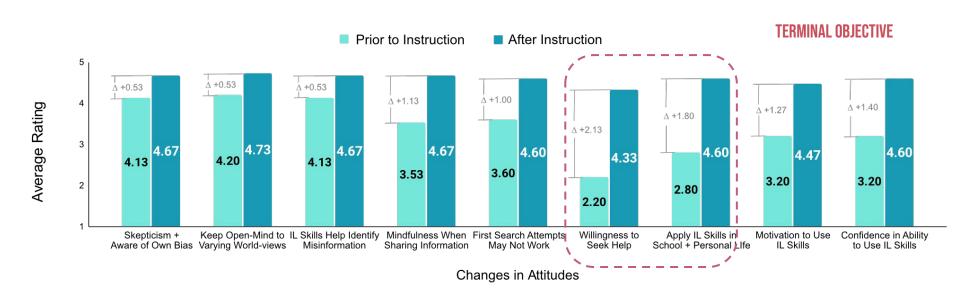
Do you think misinformation is a problem?

- Yes
- No
- Not Sure

YES 100%

n = 15

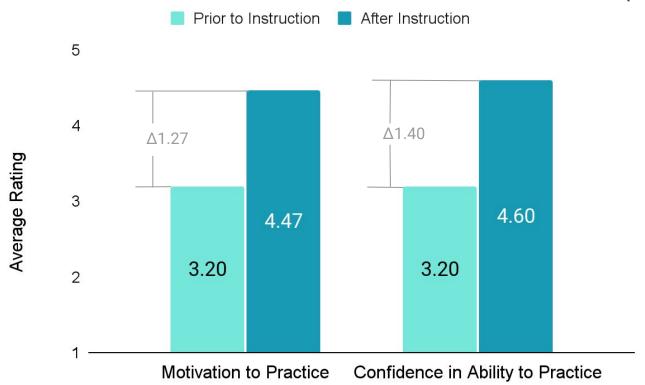
AFFECTIVE OBJECTIVES CHANGES IN ATTITUDES ABOUT INFORMATION LITERACY (n = 15)



1 = Strongly Disagree; 5 = Strongly Agree

TERMINAL OBJECTIVE / INSTRUCTIONAL GOAL:

MOTIVATION AND CONFIDENCE IN ABILITY TO PRACTICE IL SKILLS (n = 15)



1 = Strongly Disagree; 5 = Strongly Agree

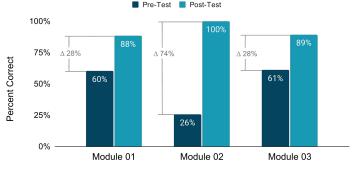
COGNITIVE

Average Participant Pre and Post-Test Scores by Module (n = 15)

WERE GOALS MET?

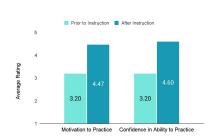


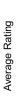


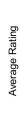


Pre-Tests, Post-Tests, and Change in Scores by Module

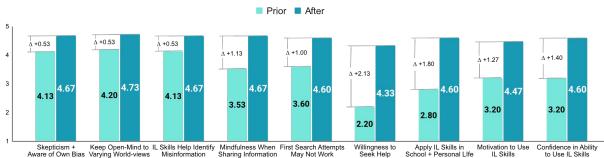
TERMINAL OBJECTIVE







AFFECTIVE



FEEDBACK FROM STUDENTS

"I would of [sic] preferred knowing this in the beginning of the program or even before the program"

"The modules felt long. I think if there was like a progress bar on the top it would help me gauge how much further I need to go."

MOTIVATION TO PRACTICE INFORMATION LITERACY SKILLS

"I feel like before this course, it wasn't a thought in my mind to check how credible a source is. Now, I feel that I will be more aware of where I am getting my information from."

CONFIDENCE IN PRACTICING INFORMATION LITERACY SKILLS

"I had no idea prior to this course how many factors I could have checked to see if the article could be reliable. Now, I feel confident in my ability in evaluating information."

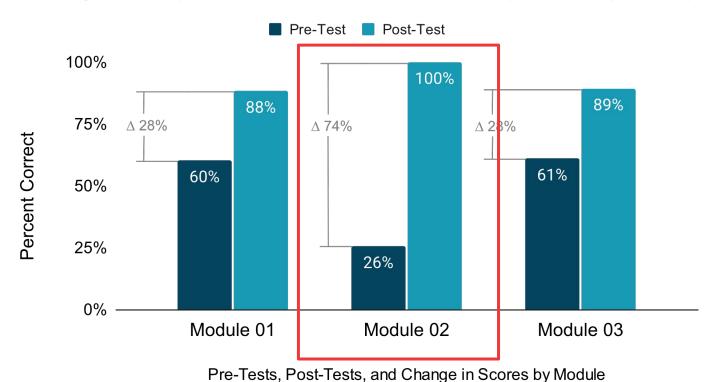
SUGGESTIONS & RECOMMENDATIONS FOR FUTURE WORK

TAKEAWAYS

- I learned a TON but just scratched the surface
- Still more work to do: Revise and Refine
- Progress bar

TAKEAWAYS: LA AVERAGE SCORES BETWEEN PRE AND POST-TESTS *COGNITIVE OBJECTIVES

Average Participant Pre and Post-Test Scores by Module (n = 15)



TAKEAWAYS: TEST QUESTIONS FOR ASSESSMENT

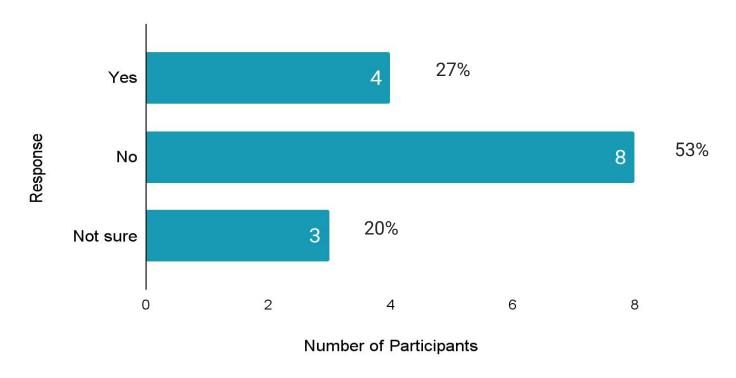
"The pre and post-questions are the same and also idk if my answers are correct or not." - student feedback

Open-ended questions in the pre and post-tests were difficult and time-consuming to grade

- Would be hard to scale up
- No instantaneous feedback

PARTICIPANTS: DEMOGRAPHICS

Have you ever attended a library orientation or library instructional session with any of your college classes at any of the UH system libraries? (n = 15)



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Dr. Peter Leong + Dr. Seungoh Paek



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'Ohana: Karma Murayama + Roxanne Ota





QUESTIONS?

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