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"It [my research] would take place at 11:50PM": Constructing a Realistic Simulation to Study Online Information Evaluation for **School Projects**

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"IT [MY RESEARCH] WOULD TAKE PLACE AT 11:50PM"

Constructing a Realistic Simulation to Study Online Information Evaluation for School Projects



Today's Presenters

Amy Buhler, Engineering Librarian University of Florida



Brittany Brannon, Research Support Specialist OCLC Research





Point of Selection Behavior

Helpfulness

Citability

Credibility

Container

4th Grade → Graduate School

What is a simulation?

"...behavioral simulations model certain aspects of the social environment yet maintain the element of human choice. This type of simulation requires that involvement of human participants in the simulation itself."

Gist et.al., p. 253

LIS Uses of Simulation



- Usability
- Systems Analysis
- Information Retrieval
- Training

Why we chose a simulation

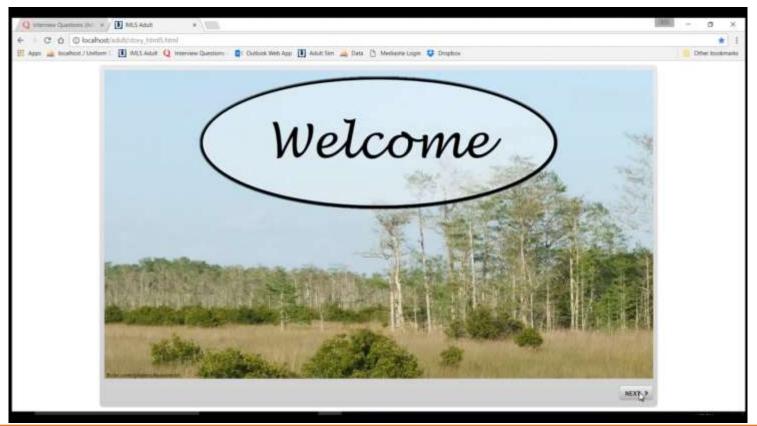


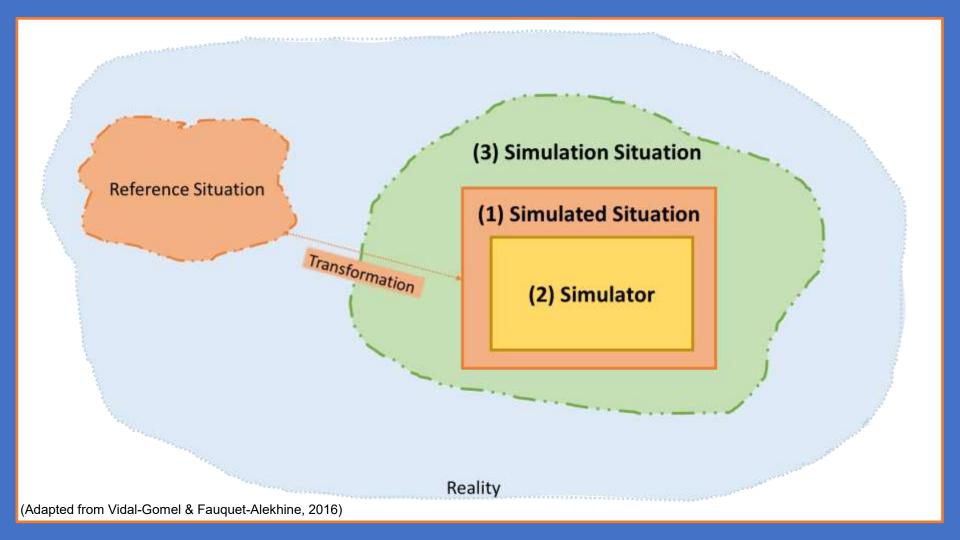
How real is real enough?

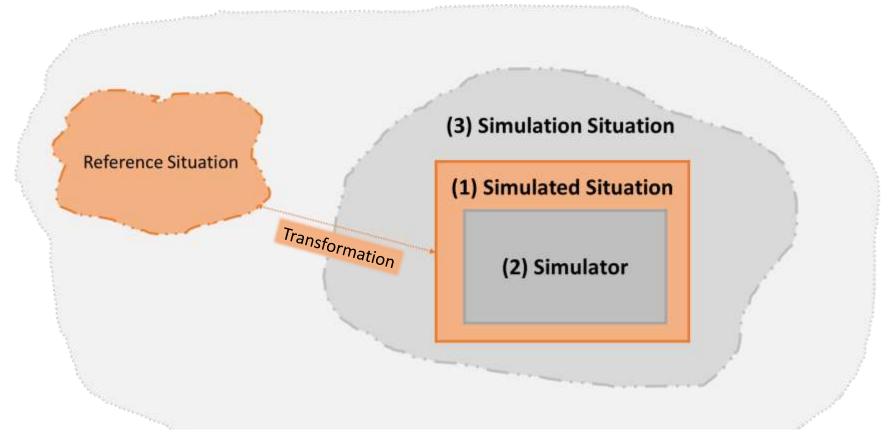
Weighing realism against data collection



Intro to our simulation







the replication of the category of situations being studied

Assignment Prompt

Research Prompt:

You have an assignment to write a science report that investigates the Burmese Python in the Everglades and describes the ways that this animal is affecting the Everglades habitat.





Research Prompt:

You are beginning a literature search for your Wildlife Issues final paper. You've decided to focus on the impact of the Burmese python (*Python molurus bivittatus*) to the biodiversity of the Florida Everglades.



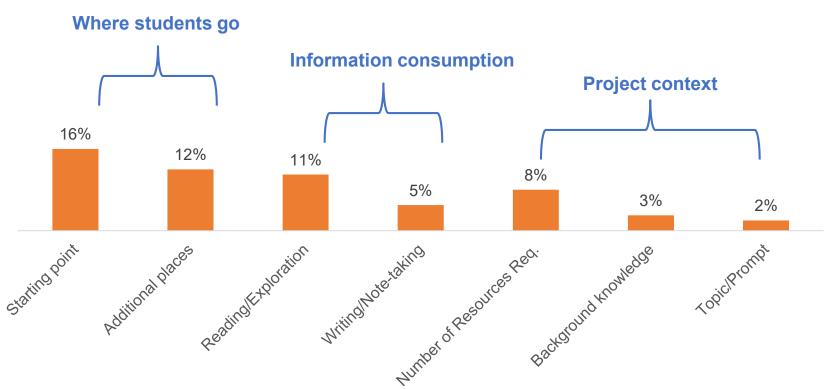
Choosing a system

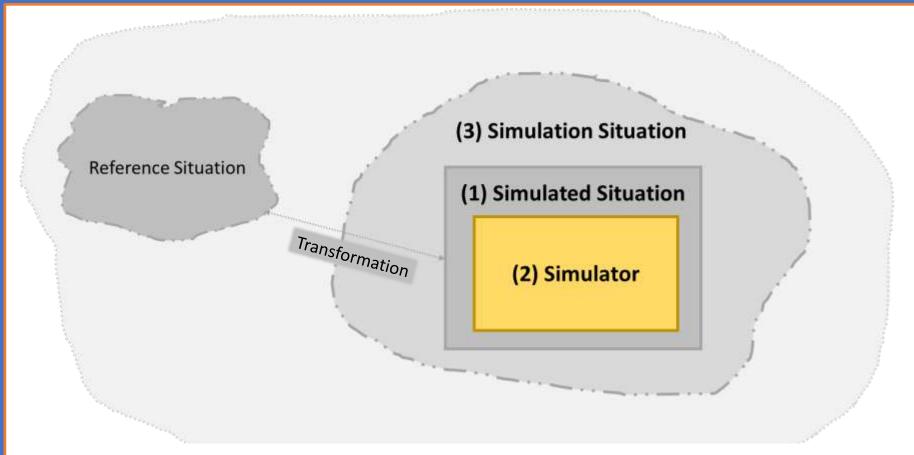


Designing Tasks

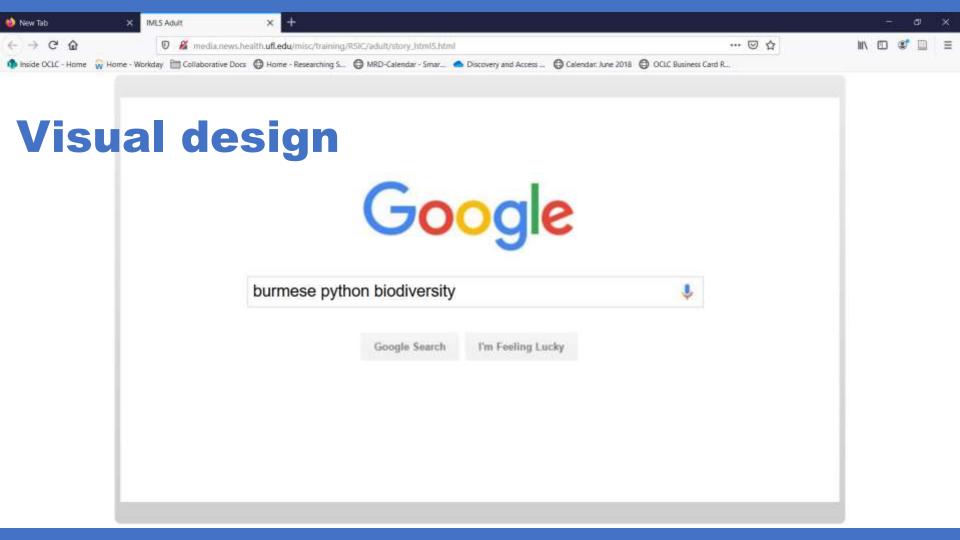


Student Feedback on Simulated Situation

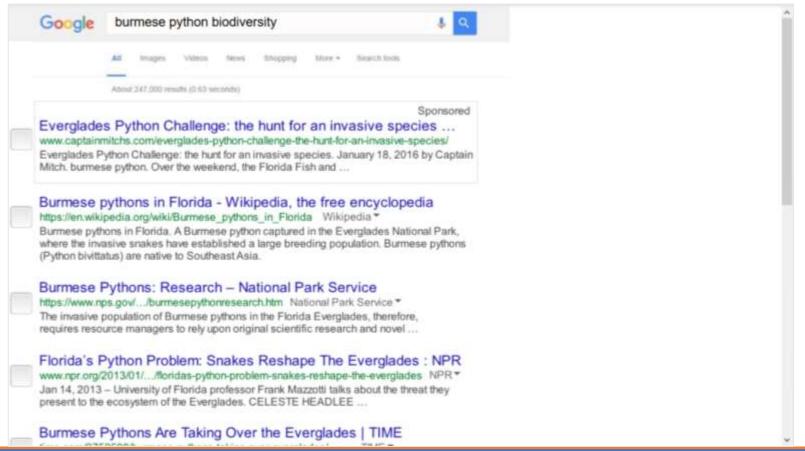




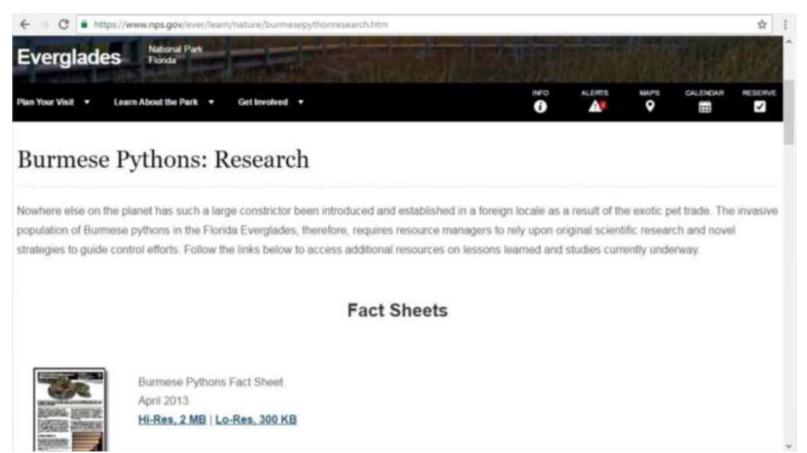
the artifact that replicates a real-life phenomenon



Visual design - SERPs



Information resources



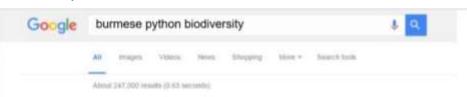
Triggers



Burmese pythons in Florida - Wikipedia, the free enchtps://en.wikipedia.org/wiki/Burmese_pythons_in_Florida Wikipedia. Burmese pythons in Florida. A Burmese python captured in the Everglis where the invasive snakes have established a large breeding population (Python bivittatus) are native to Southeast Asia.

Burmese Pythons: Research – National Park Servic https://www.nps.gov/.../burmesepythonresearch.htm National Park Se The invasive population of Burmese pythons in the Florida Everglades requires resource managers to rely upon original scientific research ar

Florida's Python Problem: Snakes Reshape The Eve www.npr.org/2013/01/.../floridas-python-problem-snakes-reshape-the-Jan 14, 2013 – University of Florida professor Frank Mazzotti talks abi present to the ecosystem of the Everglades. CELESTE HEADLEE ...



Burmese Pythons: Research - National Park Service

https://www.nps.gov/.../burmesepythonresearch.htm National Park Service *
The invasive population of Burmese pythons in the Florida Everglades, therefore, requires resource managers to rely upon original scientific research and novel ...

Florida's Python Problem: Snakes Reshape The Everglades: NPR www.npr.org/2013/01/.../floridas-python-problem-snakes-reshape-the-everglades. NPR*
Jan 14, 2013 – University of Florida professor Frank Mazzotti talks about the threat they present to the ecosystem of the Everglades. CELESTE HEADLEE...

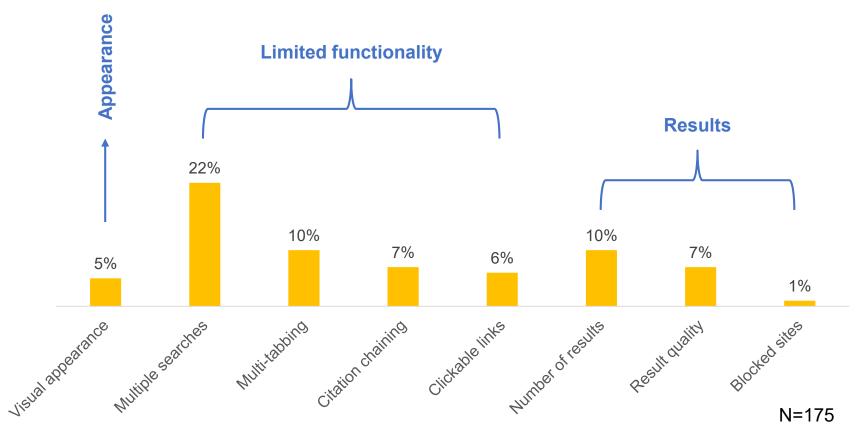


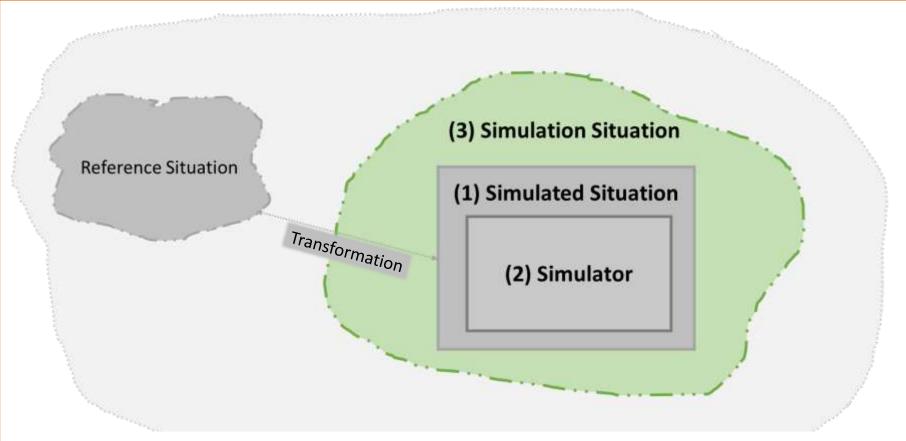






Student Feedback on Simulator





everything that happens while the simulation is conducted

Phases of Simulation Situation

Briefing Simulation Session

Debriefing

Facilitator Materials

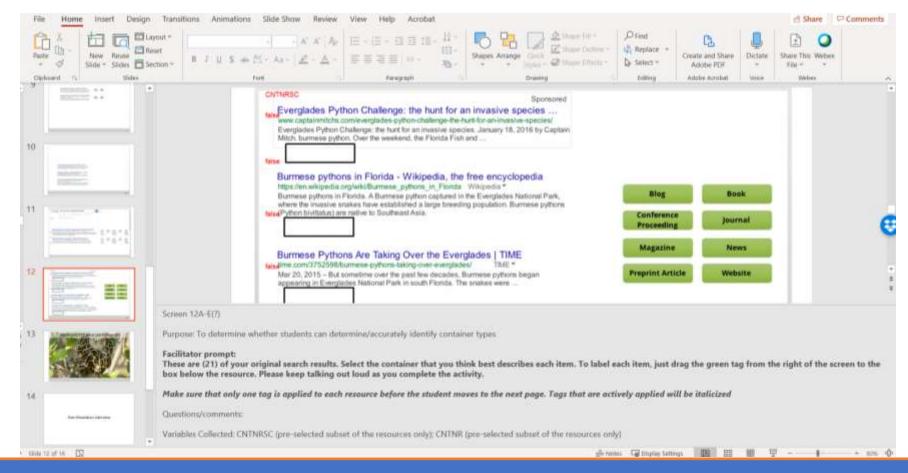
Think-aloud Prompts/Probes

In addition to reminding participants to think aloud when they becoming silent, be sure to give positive reinforcement when they are making detailed observations

- Tell me more about...
- Remember to talk out loud about your decisions...
- Remember to talk out loud...
- Remember to explain your thought processes as you are making your decisions...
- · Tell me what you are looking at
- What was it about that resource that made you click on it?
- Why is that...?
- · Ask for elaboration on any vague terms, such as "flashy" or "snaky"
- When participant identifies the container, be sure to prompt for explanation
- Try not to lead by asking too specific of a question

2.	BRING TO SIMULATION
	Gift card
	Receipt verification slip
	Facilitator script
	Research prompt
	Citation management logos
	Tutorial printouts
	Laptop and bag
	Scrap paper for students
	USB flash drive
	Backup audio recorder
	Paper and Pencil
	Water and mints
	PRIOR TO PARTICIPANT ARRIVAL: Open Mediasite
	PRIOR TO PARTICIPANT ARRIVAL: Open Storyline
	PRIOR TO PARTICIPANT ARRIVAL: Open Qualtrics
3.	DURING SIMULATION
o	Click 'Record' on Mediasite on laptop
	Turn on backup audio recorder
	Conduct Pre-Interview
	Begin Simulation and Think Aloud
	Facilitator: note timestamp when any issues or glitches occur
	Conduct Post-interview

Think-Aloud Protocols



Interviews

- Library interaction
- # of research projects
- Last research topic
- Device use
- School social media use

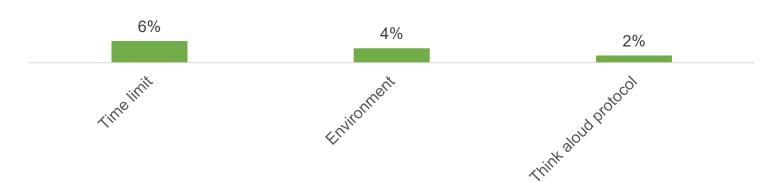
Pre-Simulation

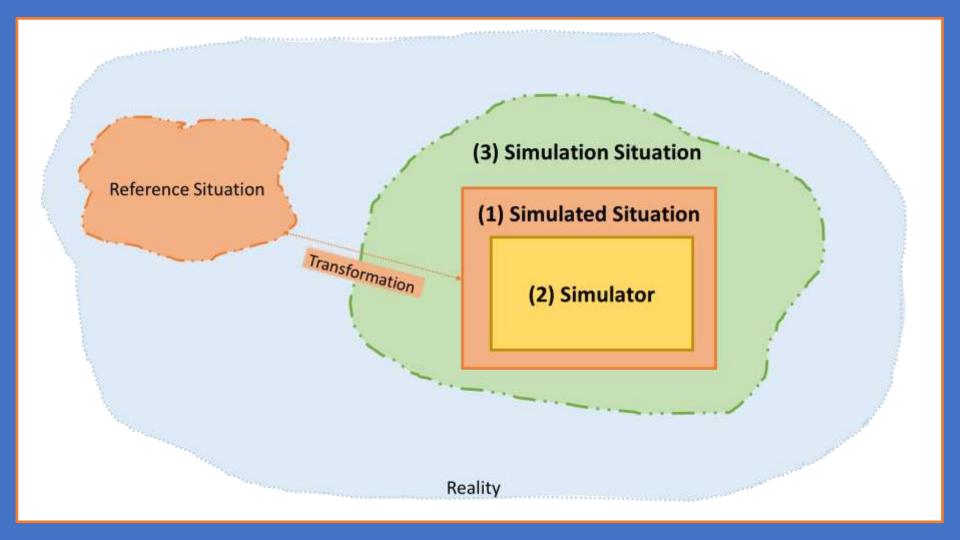


- Confidence
- Care
- Container

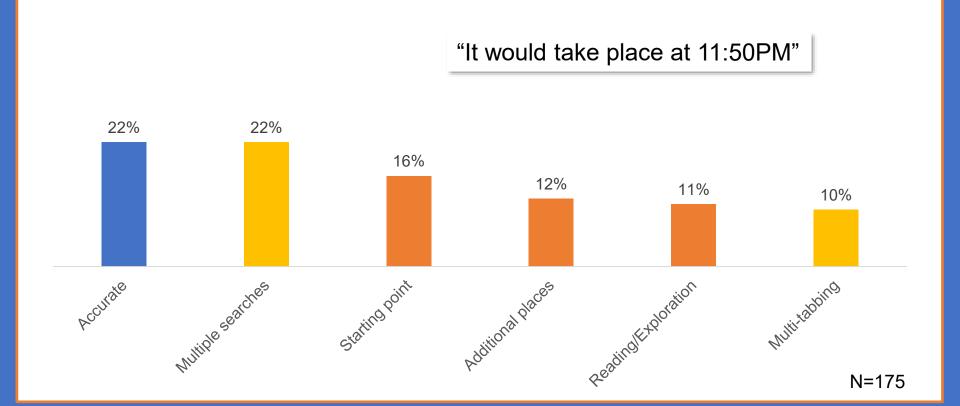
Post-Simulation

Student Feedback on Simulation Situation



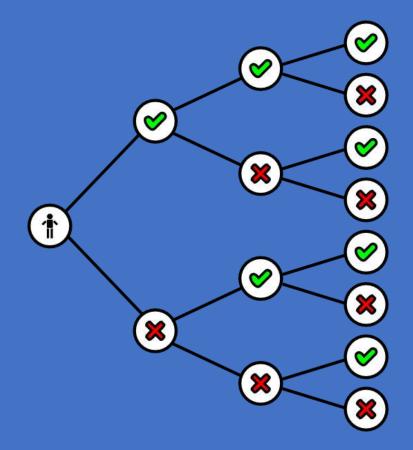


How real is real enough?



So what about the data?

Opportunities for analysis



Diving Deep

Helpful Task

FALSE

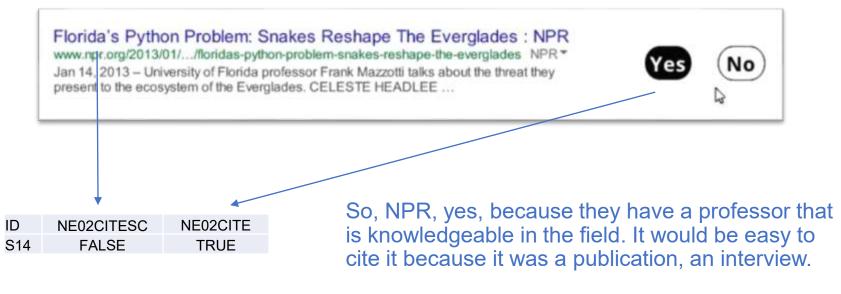
G16

TRUF

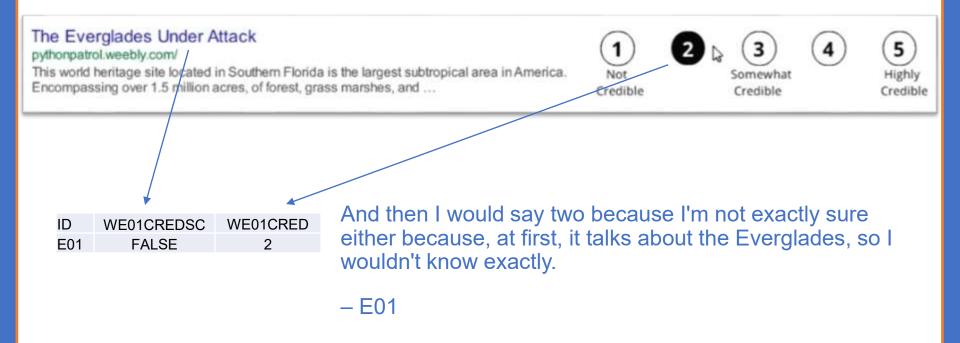


It's a YouTube video [laughter]. Well I guess it's uploaded by the Associated Press, at least, to be fair [laughter]. So [laughter]. Let's see they have the text in here. I think this is actually the video that was in the introduction maybe. I don't remember exactly. Anyway, If it's uploaded by the Associated Press at least that is a real source. This headline though like, the all caps. It's like, "You won't believe what happened next [laughter]." Okay. Well, I'm going to leave that one just unchecked.

Cite Task



Credible Task



Container Task

Predators in training: operant conditioning of novel behavior ... - Springer link.springer.com/article/10.1007/s10071-014-0797-1 by SA Emer - 2015 - Cited by 1 Aug 20, 2014 - Tell us about your experience on SpringerLink and you could win a MacBook Pro. ... Predators in Training: operant conditioning of novel behavior in wild ... Python Journal Invasive Predators: a synthesis of the past, present, and future - Springer link.springer.com/chapter/10.1007/978-3-540-46046-6 12 by WC Pitt - 2007 - Cited by 13 .. Station; , Gary W. Witmer Affiliated with National Wildlife Research Center, USDA/APHIS/WS. Download Book (PDF, 3596 KB) Download Chapter (178 KB) ... Book

ID BK01CNTNRSC BK01CNTNR G27 FALSE 2 Next is another journal article from Springer. I think this one is actually a book. What the heck is this?

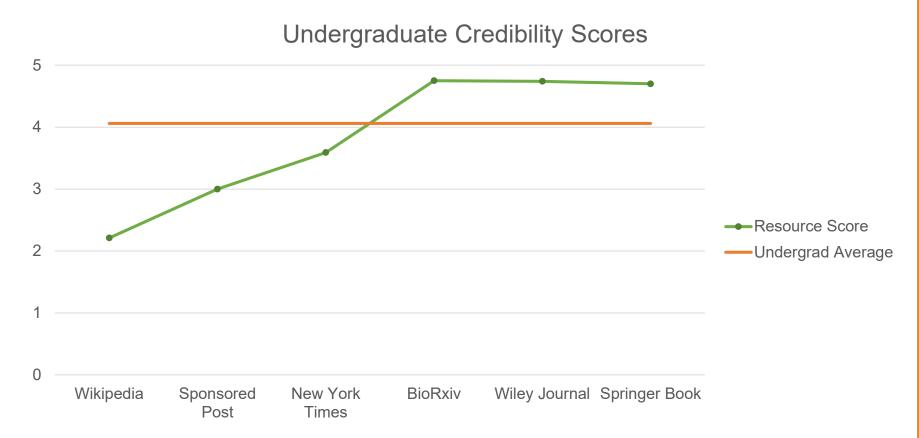
What made you think that?

It has chapters instead of articles, so it's probably a book.

- G27

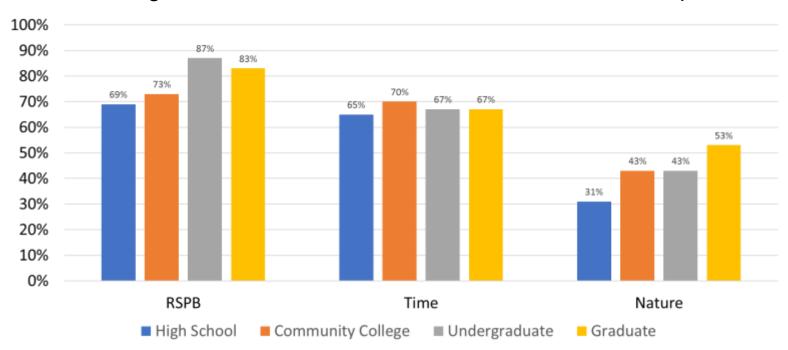
Looking Across

Quantitative - Data Within A Cohort



Quantitative - Data Across Cohorts

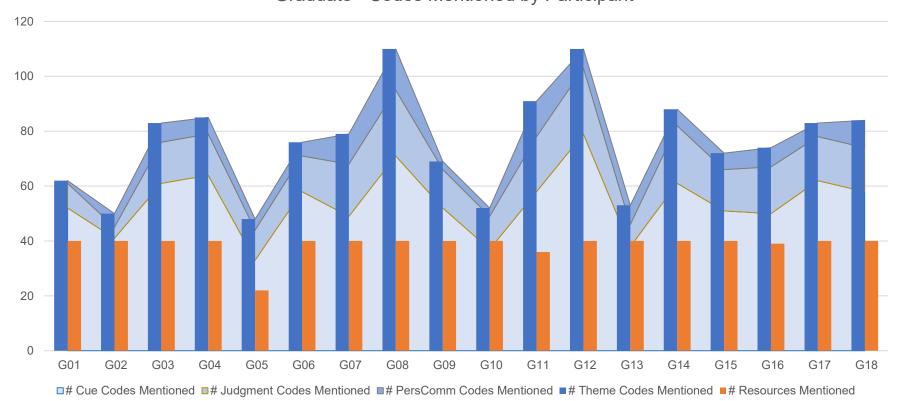
Percentage of Students Who Chose Each Resource as Helpful



(Buhler et al., 2019)

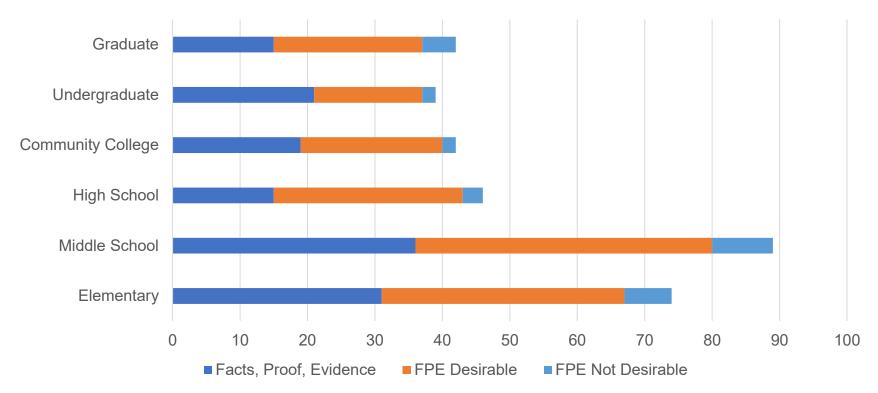
Qualitative - Data Within A Cohort

Graduate - Codes Mentioned by Participant



Qualitative - Data Across Cohorts





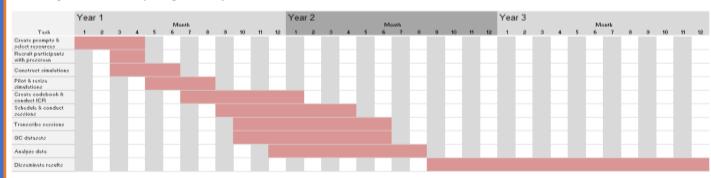
The more you know!

Lessons learned

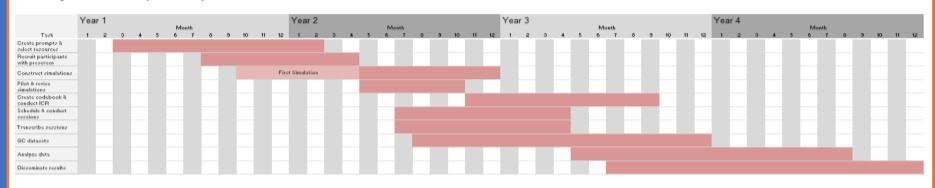


It takes time, effort, & expertise

Study Timeline (Projected)



Study Timeline (Actual)



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Robin Fowler, Program Assistant Amy Buhler, Engineering Librarian

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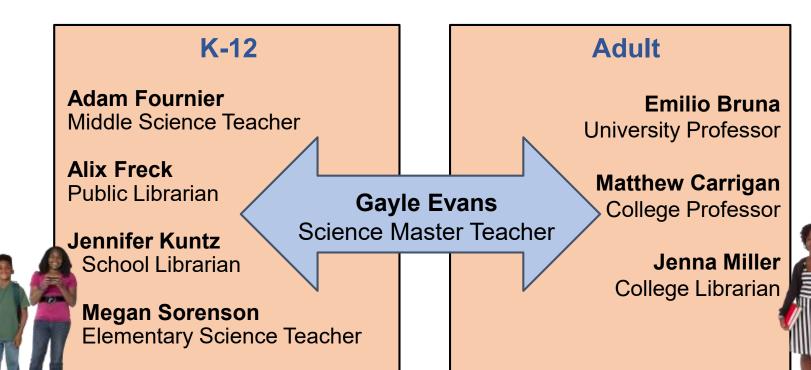
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References & Image Credits

Buhler, A., Faniel, I., Brannon, B., Cyr, C., Cataldo, T., Connaway, L., Valenza, J., Elrod, R., Graff, R., Putnam, S. R., Hood, E. M., & Langer, K. (2019). *Container collapse and the information remix: Students' evaluations of scientific research recast in scholarly vs. popular sources*. Paper presented at the Association of College and Research Libraries (ACRL) Conference, Cleveland, OH. Retrieved from

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Image Credits:

Slide 6

Image 1: https://commons.wikimedia.org/wiki/File:Vehicle-simulator.jpg

Image 2: https://www.flickr.com/photos/kentuckycountrydayschool/4332058135/

Image 3: https://commons.wikimedia.org/wiki/File:KidZania pilots thumbs up while playing in a cockpit simulator.jpg

Slide 12

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Questions?

Keep Up With the Project:

https://guides.uflib.ufl.edu/RSIC

AND

@RSICStudy on Twitter

