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ALABAMA AT BIRMINGHAM.

Danger Ahead?

Avoiding the Pitfalls of Emerging Technologies

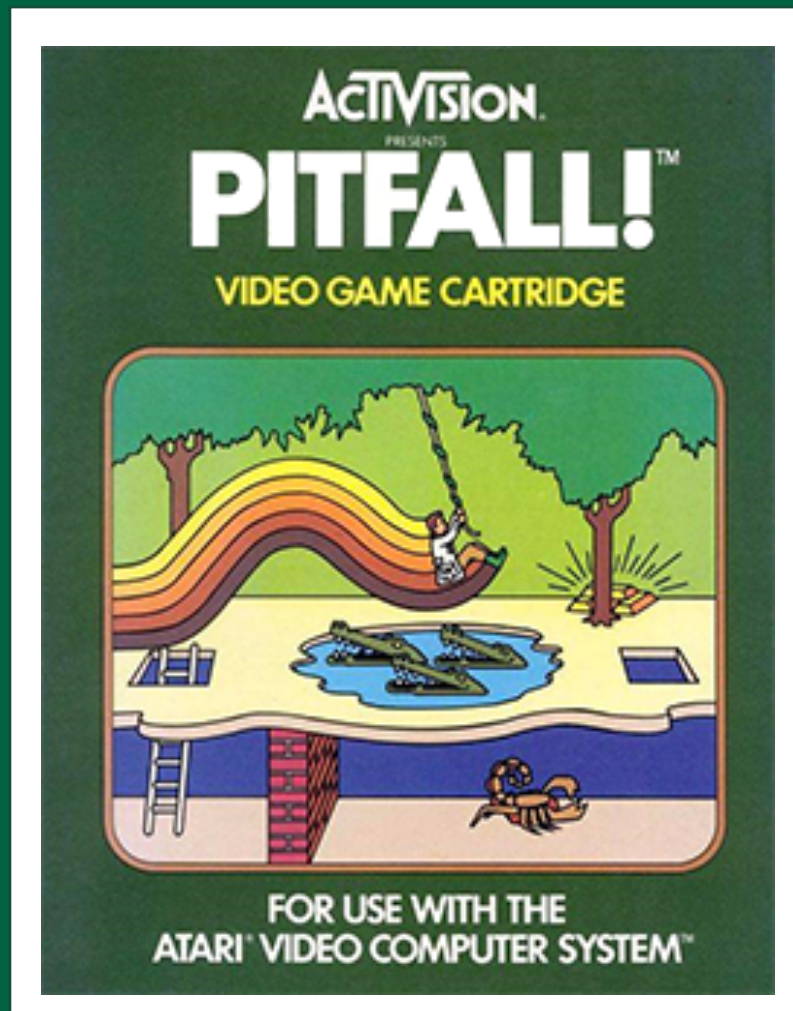


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Libraries



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The Atlantic, May 2019

“When I Tweeted about this under-discussed decline in the use of print books in universities, several respondents wondered if, regardless of circulation statistics, we should keep an ample number of books in the library for their beneficial ambience. Even if books are ignored by undergraduates, maybe just having them around will indirectly contribute to learning. If books are becoming wallpaper, they *are* rather nice wallpaper, surrounding students with deep learning and with some helpful sound-deadening characteristics to boot.”

The Atlantic, October 2019

Many college libraries are reinventing themselves, but perhaps they're trying to fix an institution that isn't, in fact, broken. "I mean, yeah, the degree is cool," one community-college student told the researchers of the aforementioned study when asked what he wanted from his campus services, "but I'm more about the knowledge."

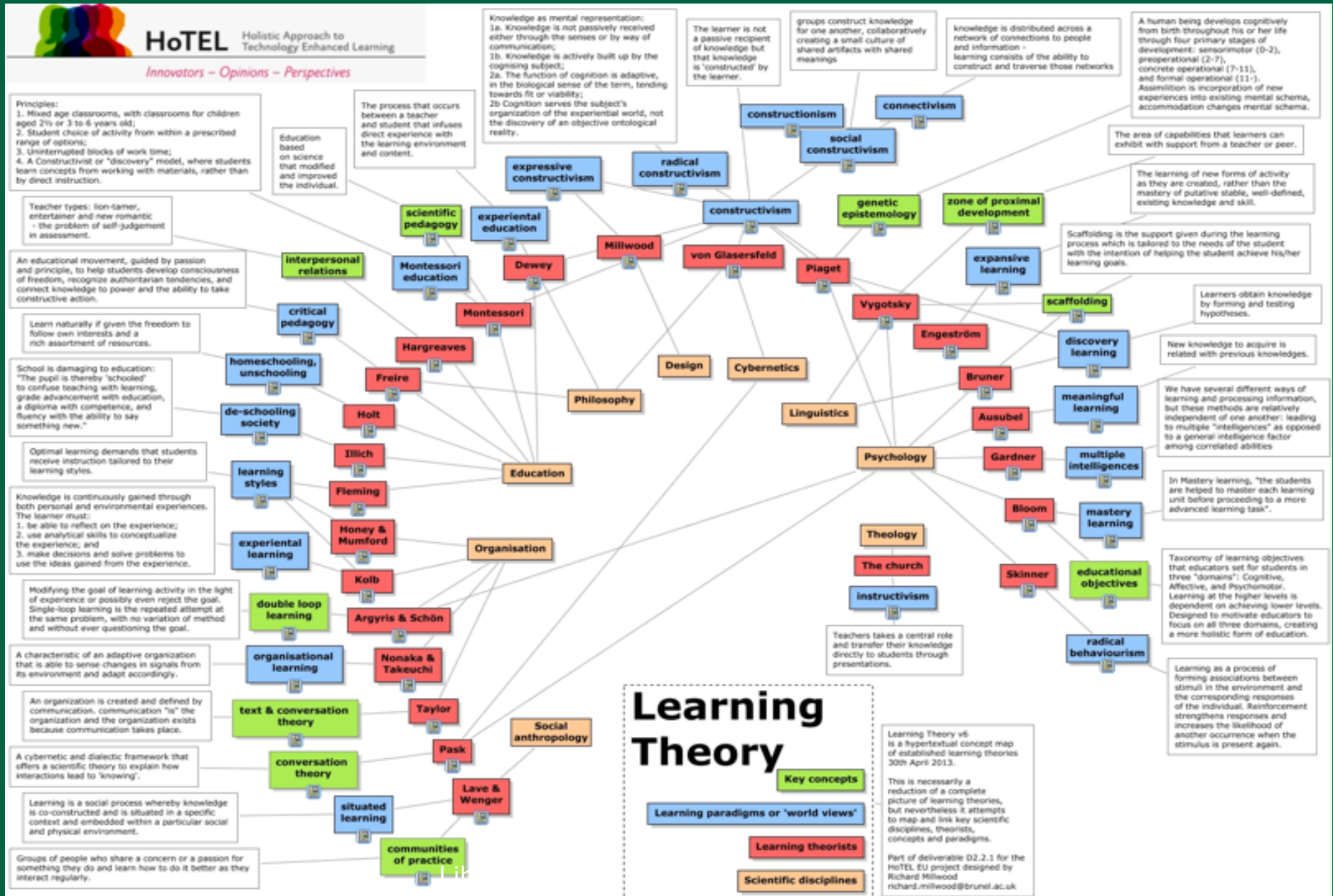
Questions To Ask

- Instructional → Why
- Logistical → Who
- Technical → How?

Instructional - Why?



"It's all fun and games until someone...learns"



Particularly Awesome, Relevant Theories

Constructivist Learning – "...knowledge is constructed through an individual's interaction with the environment and that people learn better when they are actively involved in constructing knowledge in a learning-by-doing situation."

Situated Learning Theory - "...learning is situated in a specific context and embedded within a particular social and physical environment; rather than just an abstract knowledge in a classroom, learning should be embedded within activity, context and culture in which it occurs."

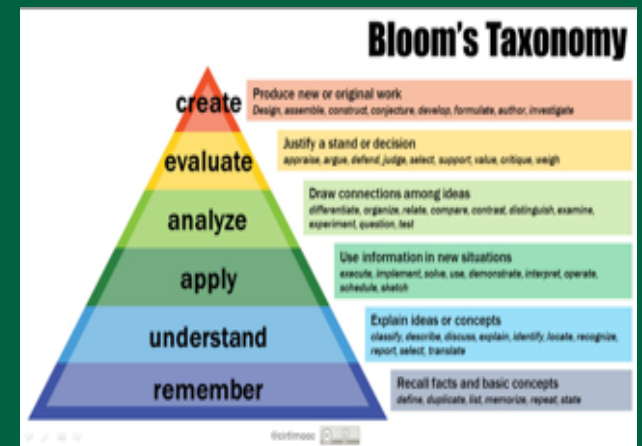
Leung, Tiffany, Zulkernine, Farhana, and Isah, Haruna. "The Use of Virtual Reality in Enhancing Interdisciplinary Research and Education." (2018)

Questions to ask

What purpose does it serve? Does it enhance the learning experience, or is it just cool tech?

What are my learning outcomes for the class/program?

What do I need to know to make it work?



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Don't Reinvent the Wheel

Are there opportunities for collaboration on campus?

If so, who will be responsible for managing the instruction demands?

Do you need a coordinator?

Take Your Time

Make a list of technology and potential functionality

Meet with the department liaisons/subject/teaching librarians

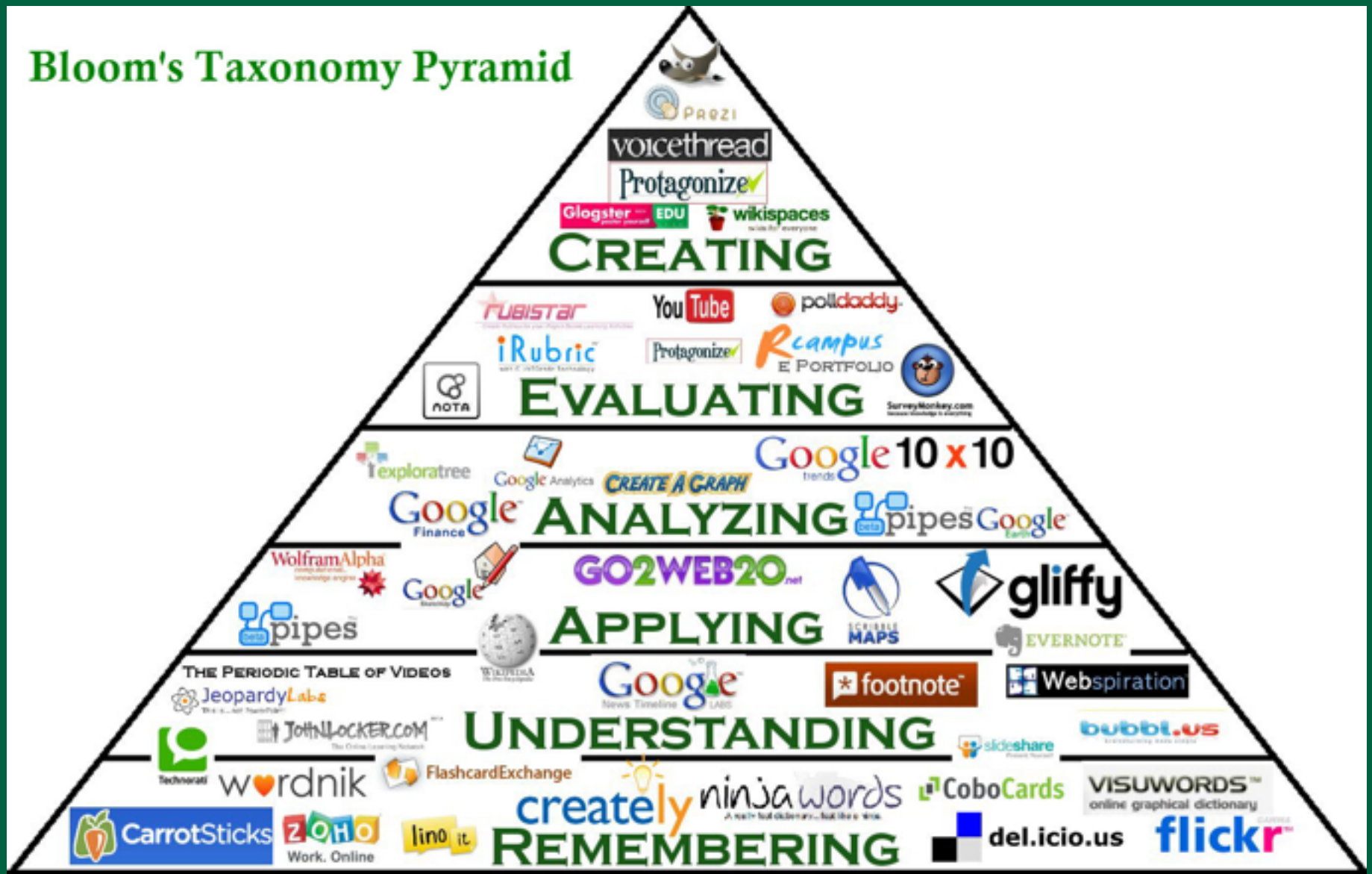
Brainstorm ways the technology could be used in curriculum design for current or proposed classes

Rinse and Repeat – feedback is key for growth

Don't be afraid!!



Bloom's Taxonomy Pyramid



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I can't get your stupid free widget to work you jerk - design me a new one, pronto!

I turned your open source defibrillator into a device to explode bunnies... the bunny torturing community loves it. Thanks!

your project sucks!



booooooring

Dude, someone did that on Youtube in 2002...

Logistics – We'll Use the Internet!

(Expectations)



Created by Gan Khoun Lay
from Noun Project

Logistics – Who?

Who will:

- Be able to access and how long will that access last? Will there be compatibility problems between platforms?
- Will students be able to use the material collaboratively? Do not assume digital objects or videos work well in a webconferencing environment
- Will provide support when issues do arise?
- For original content: will you preserve anything created through the project for long term use and reuse?



Created by Bonegolem
from Noun Project

Technical

- There are many exciting pieces of software to use, and very few are robust and freely available
- Robust tools take time to learn
- “Assume you are not Steve Jobs” ~ Scott Galloway
- “Your default position should be skepticism” ~ Hadley Wickham

Technical - How

How will:

- **The content be developed?**
- **Can you gather and name materials in such a way that digital objects can be used easily on more than one platform?**
- **Accessibility**
 - **Human-wise**
 - **Internet -wise**

Technical - How

- **Be sure to consider:**
 - **Software and hardware tools needed for original projects**
 - **Data management for original assets created**
- **Preservation for original assets created, especially for projects temporarily accessible through the web**

Final Thoughts

Instructional

Define your outcomes

Identify which tool or tools would best accomplish these outcomes?

Build in time for analysis of the experience

Logistics

Understand what information formats your digital preservation team is ready to work with

Have a data management plan and strategy

Understand where the time management hurdles are

Technical

Understand how unique formats may work with common software tools

Define projects first, select tools last

Differentiate the possible from the feasible and the useful

Don't plan to sustain projects on trial or free platforms

Practice Time



Created by Adrien Coquet
from Noun Project

You are the Digital Scholarship Liaison at University Town Library. Dr. Janica Doe, a university faculty member, has just authored a book on the history of underwater basket weaving in University Town and has collected several primary and secondary resources in her research. Underwater basket weaving is of special interest in the region, and several special collections and subscription databases with relevant material are already available through the library. Dr. Doe is applying for a grant to develop digital initiatives related to the book and has contacted you to see how the University Town Library might be able to help with her project.

Discussion



Created by Adrien Coquet
from Noun Project

VISUALIZING THE FUTURE SYMPOSIA



Focused on creating a “a diverse community that will advance data visualization instruction and use beyond hands-on, technology-based tutorials toward a nuanced, critical understanding of visualization as a research product and form of expression.”

An IMLS funded National Forum on Data Visualization in Libraries (RE-73-18-0059-18)

<https://visualizingthefuture.github.io/about/>

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Thank you!

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