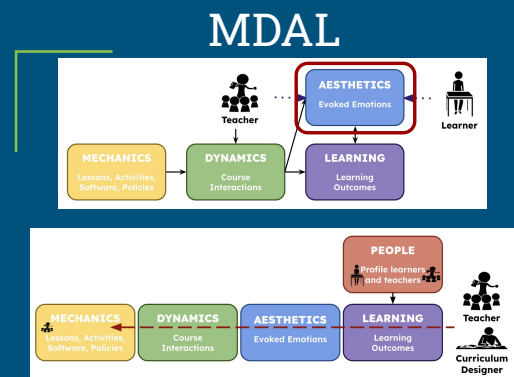


CMSC 33231 - Diana Franklin

Visual vs. Textual Programming Languages in CS0.5: Comparing Student Learning with and Student Perception of RAPTOR and Python

Piloting an Interactive Ethics and Responsible Computing Learning Environment in Undergraduate CS Courses

Move forward with Culturally Relevant Design



A pyramid diagram representing Maslow's hierarchy of needs. The pyramid is divided into five horizontal sections. From top to bottom, the sections are labeled: 'Self-actualization', 'Esteem needs', 'Belonging needs', 'Safety needs', and 'Physiological needs'. The top three sections ('Self-actualization', 'Esteem needs', and 'Belonging needs') are enclosed within a red rectangular border. To the right of this red-bordered section, the text 'Growth Needs' is written in bold black font. The bottom two sections ('Safety needs' and 'Physiological needs') are outside the red border. The entire pyramid is set against a light green background with a blue border.

<https://scratch.mit.edu/projects/322835770/>
<https://scratch.mit.edu/projects/322239494/>

In what ways may students identify? (In what ways can we add in elements for them?)

The overall setting / topic of project (e.g. Holi)

Background, individual items placed in the background

Sprites: Gender, names, clothing, skin color, abilities (e.g. glasses, wheelchair)

Conversations

Common CRT approaches

Cultural background

Representations of people (physical features, names)

Hobbies / interests

Letting students choose their own project (Constructionism / Science Fair)

Involving families (math research)

Next week's talks

Tuesday

G.W.

Diana

Thursday

W.Y.

Diana

Send me papers by Thursday, 5pm

Papers drawn from CHI, SIGCSE, or ICER. If you have another venue, run it by me first.

Presentation: Python vs RAPTOR

Paper Discussion

Discuss papers

What was their idea?

How did they analyze it?

What do you think about it? Do you think it would have worked for you? (why or why not)

In groups, you answer the following question

In what ways did the paper use CS Ed theory?

What are the limitations in the research design?

What are next research steps?

Presentation: PEaRCE

Paper Discussion

Discuss papers

What was their idea?

How did they analyze it?

What do you think about it? Do you think it would have worked for you? (why or why not)

In groups, you answer the following question

In what ways did the paper use CS Ed theory?

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