Day 3: Culturally Relevant Design

CMSC 33231 - Diana Franklin

Readings for Today

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

But first!!!! Let’s learn a little theory

Goals for today

Move forward with Culturally Relevant Design

Culturally Relevant Design: Goals

This is related to who I am
People like me do this
I can do this

Analyze CRT Elements

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?)

<table>
<thead>
<tr>
<th>The overall setting / topic of project (e.g. Holi)</th>
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<tbody>
<tr>
<td>Background, individual items placed in the background</td>
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<tr>
<td>Sprites: Gender, names, clothing, skin color, abilities (e.g. glasses, wheelchair)</td>
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Conversations

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Common CRT approaches

<table>
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<tr>
<th>Cultural background</th>
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<tr>
<td>Representations of people (physical features, names)</td>
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<td>Hobbies / interests</td>
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<td>Letting students choose their own project (Constructionism / Science Fair)</td>
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<td>Involving families (math research)</td>
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Next week’s talks

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<td>G.W.</td>
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<td>Diana</td>
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<table>
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<th>Thursday</th>
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<tr>
<td>W.Y.</td>
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<td>Diana</td>
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Send me papers by Thursday, 5pm

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

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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?

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Presentation: Python vs RAPTOR

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Presentation: PEaRCE
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