

To Block or Not to Block Part 2

CS Education Week 2

Slides:  To block or not to block

Preparation

Goals and Outcomes: PACE-internal

- Introduce students to block based programming and tools that are available to facilitate learning this way
- Facilitate a productive discussion that allows students to think critically about the benefits of block based programming versus text

Goals and Outcomes: Student-facing


- I will learn block based programming and interact with a fun tool that utilizes it to teach computer science
- I will engage in a discussion that allows me to think critically about what the benefits and drawbacks of block based programming are for all ages

Script

Last week recap (5 minutes)

- Recall last week we discussed:
 - What does code look like?
 - What are some common components of code?
 - What do you think of when you think of code?
 - Block Programming
 - What is nice about block programming?
 - Do you like the colors?

Looking into the Research Discussion (10-15 minutes)

- Facilitate a [discussion around the following question\(s\)](#), pick ones you see fit, feel free to add others:
 - Text vs. block based programming for...
 - English language learners
 - Visually impaired programmers
 - Other uses?
 - Do you have a preference for either? Why or why not?
 - Possible use cases?
-  Abstracts Week 2
 - Have the students skim the abstracts
 - Some sentences have been highlighted
 - Facilitate a [discussion around the following question\(s\)](#), pick ones you see fit, feel free to add others:
 - What are some of the differences when thinking about block based programming for students versus with industry level tools?
 - ~~Other examples that might come up in conversation:~~
 - ~~Product design~~
 - ~~Stock images for websites~~
 - ~~Ads / marketing~~
 - ~~Someone trying to learn new artistic styles~~
 - ~~Someone who can't draw but has a vision for a design and wants to share it with someone else...~~
 - ~~Consider having people try out some of these uses by putting them into DALL-E~~

Activity (10-15 minutes)

- Have students explore some more block based coding tools:
 - <https://developers.google.com/blockly>
 - <https://scratch.mit.edu/>
 - <https://www.codeforlife.education/>
 - <https://www.vexrobotics.com/vexcode/vr>
- Thought questions while exploring:
 - What are some common patterns in block based coding tools?
 - Which of the tools we have explored do you like most?

Post-session

- Check in with the student(s) who you noticed might need more support during session (e.g. Looked overwhelmed/lost etc)
- Fill out the [LINK]
 - What activities did you do
 - How did they go
 - Could ask what their favorite part of the session was
 - Any concerns