Coding using Microbits - Python — Reflections

Module 1: Design & Making with Microbit - Python

This module introduces the microbit as a piece of hardware that has a specific size and weight, and generally must be supported and incorporated as an essential component of a tangible artifact. Focus on making a pet or robot and incorporating the physical microbit as the face of the project.

Module 1: Project MicroRobot

Questions, Interview, and Responses

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Sketches MicroRobot

 C Lyman July 2019

01.2a Name Display Activity

LIst steps to create a microbit program and install it.

01.2b Icons Display Activity

Here are a list of predefined (Image.XXX) icons:

Image.HEART	Image.CLOCK5,	Image.COW
Image.HEART_SMALL	Image.CLOCK4,	Image.MUSIC_CROTCHET
Image.HAPPY	Image.CLOCK3,	Image.MUSIC_QUAVER
Image.SMILE	Image.CLOCK2,	Image.MUSIC_QUAVERS
Image.SAD	Image.CLOCK1	Image.PITCHFORK
Image.CONFUSED	Image.ARROW_N,	Image.XMAS
Image.ANGRY	Image.ARROW_NE,	Image.PACMAN
Image.ASLEEP	Image.ARROW_E,	Image.TARGET
Image.SURPRISED	Image.ARROW_SE,	Image.TSHIRT
Image.SILLY	Image.ARROW_S,	Image.ROLLERSKATE
Image.FABULOUS	Image.ARROW_SW,	Image.DUCK
Image.MEH	Image.ARROW_W,	Image.HOUSE
Image.YES	Image.ARROW_NW	Image.TORTOISE
Image.NO	Image.TRIANGLE	Image.BUTTERFLY
Image.CLOCK12,	Image.TRIANGLE_LEFT	Image.STICKFIGURE
Image.CLOCK11,	Image.CHESSBOARD	Image.GHOST
Image.CLOCK10,	Image.DIAMOND	Image.SWORD
Image.CLOCK9,	Image.DIAMOND_SMALL	Image.GIRAFFE
Image.CLOCK8,	Image.SQUARE	Image.SKULL
Image.CLOCK7,	Image.SQUARE_SMALL	Image.UMBRELLA
Image.CLOCK6,	Image.RABBIT	Image.SNAKE

LIst 2 ways to use the `display._____` command to view the LED display screen.

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0.1.2c Icon Animation Activity

Put at least 4 icons together to tell a story. Write each line of the story below.

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01.2d Creative Design Activity

Program individual LEDs using the (Sketch LED face designs for your project)

01.3 Project

Microbit Project Faces (Sketch LED face designs for your project)

List the steps to create your robot face animation project.

Reflection

Summarize the feedback from your partner. __

How would you revise your design, if you were to go back and create another?

What was it like designing a project?

Was it a project you enjoyed? Why or why not?

What would you do to redesign the project?

What was it like to interview your partner? What was it like to be listened to?

What was something that surprised you about the process of designing a micro:project?

Describe a difficult point in the process of designing a micro:project and how you resolved it?

Rubric

For creative projects such as these, we normally don't use a qualitative rubric to grade the creativity or the match with their partner's needs. We just check to make sure that the micro:project meets the required specifications:

- Program properly downloaded to microbit
- microbit supported so the face is showing
- microbit can be turned on and off without taking critter apart
- Turned in notes on interview process
- Written reflection

Notes