Using a micro:bit to Differentiate Learning in Scratch

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What's the plan?

- Who are we?

- Introduction to Scratch

- Introduction to using a micro:bit in Scratch

- Creating micro:bit projects in Scratch

- Sharing and discussing

How to reach the resources

- www.JaredOLeary.com
  - Presentations
  - Using a micro:bit to Differentiate Learning in Scratch

Who are we?

Jared O' Leary
BootUp PD
Director of Education and Research

Katie Henry
Micro:bit Educational Foundation

Introduction to Scratch

Getting started

- Create an interactive collage

  - Follow steps 1, 2, and 3 of the "project sequence"

  - If you finish early, complete some of the "project extensions" or try to solve a "debugging exercise"

Introduction to using a micro:bit in Scratch

Example projects

- Creating a beat with buttons

- Using a glove to control a player

Adding a micro:bit

1. Getting started with micro:bit

2. Add a micro:bit to your interactive collage

   □ Pick one of the quick reference guides and follow the steps to add a micro:bit to your interactive collage

Creating micro:bit projects in Scratch

Create a new micro:bit project

- Create one of the projects on this page
  - Find a project that looks interesting and click on it to access the "coder resources"
    - Note, the projects are in order of complexity, so a lower number is easier than a higher number
  - Follow the steps in the project sequence, then add a micro:bit using an extension or by experimenting with the micro:bit blocks
- More resources
  - Katie's resources
  - micro:bit remix studio
  - micro:bit quick reference guides

Sharing and discussing

Let's share and discuss

- Share your project following the steps in this walkthrough, then paste the URL in the chat
  - Comment on someone else's project in the chat
- What are you excited to bring into your classroom?
  - What are you nervous about?
- How did/n't these resources help with differentiating learning?
- Was anything surprising for you today?

Resources to learn more

- Learn more about Scratch studios

- Learn more about Scratch teacher accounts

- Free Scratch lesson plans that incorporate micro:bits as extensions

- micro:bit debugging examples are at the top of this studio

Let's talk

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Contact us

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