

# **Coding and English Part 1**

## **Coding & STEAM 2019**

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**Week 5: Coding and English Part 1**

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# Coding and English

- What are some ways that you could use Coding to teach English?
- Does anyone use Coding for teaching English/Literacy already?
- We will look at one approach for teaching Coding alongside Literacy today: [Digital Storytelling](#)
- Other examples include Adlib Stories and Chatbots

# Digital Storytelling

- The use of computers to create and share stories
- Could use a variety of software (e.g. Powerpoint and iMovie)
- **Multimodal Texts:** combining images, audio, text and video
- Scratch can do all of that - and you can learn Coding at the same time as making these texts!

# Digital Storytelling with Scratch

- Scratch (and other Coding tools) have been used to create digital stories
- Some resources and related research about Coding and Literacy are on the Week 5 session page
- Can create different Characters (**Sprites**) and create interactions between them
- Can have multiple Scenes by changing Backdrops and hiding/showing **Sprites**

# Creative Computing: Unit 3

- Unit 3 is called **Stories**
- Focus is on "cultivating a culture that supports reusing and remixing" (from the Unit's introduction)
- Activities could be used to address **Literacy** elements in ACARA's General Capabilities
- Could also address outcomes from Stage 3 English syllabus: **Objective A** and **Objective B**

# Creative Computing: Unit 3

- There are a lot of examples of interactive stories in Scratch, e.g. History: Who is Arthur Phillip?
- Also, Unit's activities will include learning about:
  - **Computational Concepts:** Sequences, Events and Parallelism
  - **Computational Practices:** experimenting and iterating, testing and debugging, reusing and remixing

# English Part 1:

- Three activities from the Guide:
  - Conversations
  - Characters
  - Scenes
- Computational Concepts: Sequences, Events and Parallelism

# Conversations

- We will start with the **Conversations** activity from the Stories unit of the Guide (Unit 3)
- We will come back to the **Characters** activity later in the session
- This activity involves using **broadcast** blocks
- **broadcasting** allows **Sprites** to send messages to other **Sprites**



# Conversations: Broadcasting

- Unplugged activity
- Let's pretend that we are all Sprites
- I will broadcast a message
- Some of you will receive this message and reply to it

# Conversations: Penguin Jokes

- I have created a [Class Studio](#) named **STEAM 2019 Penguin Jokes**
- You should [remix](#) the [Penguin Jokes](#) project I added to that studio
- How can you change the project to use [broadcast](#) blocks instead of [wait](#) blocks?

# **Conversations: Reflection Prompts**

- How would you describe broadcast to someone else?
- When would you use timing in a project? When would you use broadcasting?

# Characters: Custom Blocks

- In Scratch, we can **define** our own blocks
- We call these **Custom Blocks** and they are in the **More Blocks** section
- Our aim is to create a **jump** block
- Then change our project to make our Sprite (Pico) jump at different heights

# Characters: Jumps

- I will demonstrate this activity
- You can also remix the [Characters Starter Project](#) in the [Class Studio](#) named **STEAM 2019 Characters**
- We will change the project so that this happens:
  - [S](#) makes Pico do a small jump
  - [B](#) makes Pico do a big jump
  - [A](#) makes Pico do a jump for any height

# Characters: Discussion Points

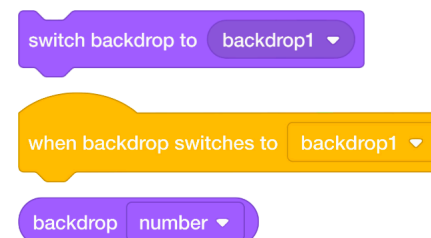
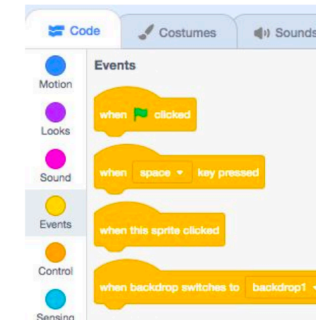
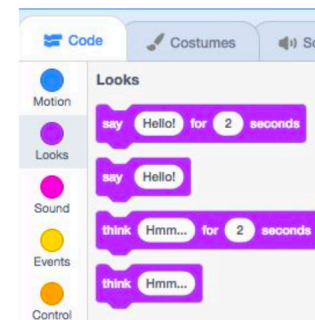
- What are **custom blocks** useful for?
- Where and when might you use them?
- Can you use the same custom block from different Sprites?

# Scenes

- The last activity today is called **Scenes**
- Involves changing **Stage** backdrops to change the scene to different locations

## START HERE

- ❑ Choose from the library, paint, or upload multiple backdrops into your project.
- ❑ Experiment with blocks from the Looks and Events categories to initiate switching backdrops.
- ❑ Add scripts to the stage and sprites to coordinate what happens when the backdrop changes in your project!



# Scenes

- Start by remixing the [Scenes Starter Project](#) in the [Class Studio](#) named **STEAM 2019 Scenes**
- Feel free to change the characters and dialogue in this project to a different story
- Add some new [Scenes](#) to the project - try different backdrops
- I will demonstrate how to download and upload your own backdrops as well



# Scenes: Discussion Points

- What does the **Stage** have in common with **Sprites**?
- How is the **Stage** different from **Sprites**?
- How do you initiate a **Sprite's** actions in a **Scene**?
- What other types of **Projects** (beyond animations) use **Scene** changes?