## **SCRATCH STUDIO**

#### LEARN HOW TO ADD YOUR PROJECT TO **AN ONLINE SCRATCH STUDIO!**

Studios are collections of Scratch projects. Follow along with the steps below to add your Scratch Surprise program to the Scratch Surprise studio on the Scratch website. -----



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### START HERE

Create Explore Discuss Help Go to the Scratch Surprise studio using this link: **Scratch Surprise** http://scratch.mit.edu/studios/460431 Projects (2) Comments (0) Add projects Sign into your account. http://scratch.mit.edu/projects/xxxx You can select projects from the bar below or add by □ Click on "Add Projects" at the bottom of the page to show your your projects, favorite projects, and Report this studio recently viewed projects. -----Updated 13 Jun 2014 Create a project that makes something surprising happen to □ Use the arrows to find your Scratch Surprise project Scratch Cat Sure Surprise, Surpri the Scratch Cat! by Scra chEdTe by ce and then click "Add + " to add your project to the studio. ----**Scratch Surprise** Add Projects Projects (1) Comments (0) Add projects ghost boxes

# **DEBUG IT!**

### HELP! CAN YOU DEBUG THESE FIVE SCRATCH PROGRAMS?

In this activity, you will investigate what is going awry and find a solution for each of the five Debug It! challenges.

### **START HERE**

- Go to the Unit 2 Debug It! Studio: http://scratch.mit.edu/studios/475539
- Test and debug each of the five debugging challenges in the studio.
- Write down your solution or remix the buggy program with your solution.



#### DEBUG IT! 2.1 http://scratch.mit.edu/projects/23266426 In this project, Scratch Cat wants to show you a dance. When you click on him, he should do a dance while a drum beat plays along with him. However, as soon as he starts to dance he stops but the drumming continues without him! How do we fix this program? DEBUG IT! 2.2 http://scratch.mit.edu/projects/24268476 In this project, when the green flag is clicked Pico should move towards Nano. When Pico reaches Nano, Pico should say "Tag, you're it!" and Nano says "My turn!" But something is wrong! Pico doesn't say anything to Nano. How do we fix the program? DEBUG IT! 2.3 http://scratch.mit.edu/projects/24268506 This project is programmed to draw a happy face but something is not quite right! The pen continues to draw from one of the eyes to the smile when it should not be doing so. How do we fix the program? DEBUG IT! 2.4 http://scratch.mit.edu/projects/23267140 In this project, when the green flag is clicked an animation of a flower growing begins and stops once it has fully bloomed. But something is not quite right! Instead of stopping when all the petals have bloomed, the animation starts all over. How do we fix this program? DEBUG IT! 2.5 http://scratch.mit.edu/projects/23267245 In this project, the Happy Birthday song starts playing when the green flag is clicked. Once the song finishes, instructions should appear telling us to "click on me to blow out the candles!" But something is not working! The instructions to blow out the candles are shown while the birthday song is playing rather than after it finishes. How do we fix this program?

### **FINISHED?**

- A Make a list of possible bugs in the program.
- Keep track of your work! This can be a useful reminder of what you have already tried and point you toward what to try next.
- Share and compare your problem finding and problem solving approaches with a neighbor until you find something that works for you!
- + Add code commentary by right clicking on blocks in your scripts. This can help others understand different parts of your program!
- Discuss your testing and debugging practices with a partner make notes of the similarities and differences in your strategies.
- + Help a neighbor!

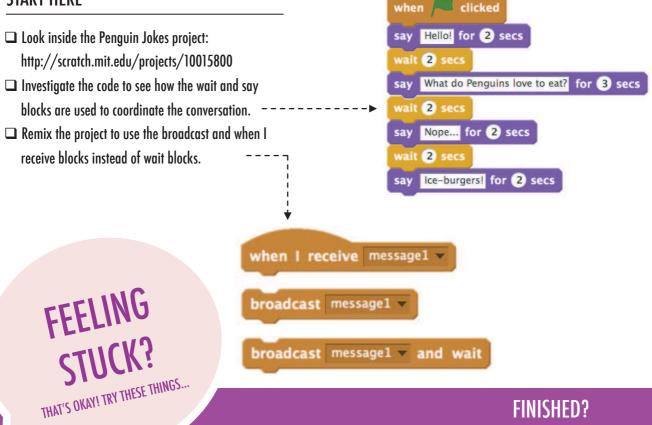
## CONVERSATIONS

### WHAT ARE DIFFERENT WAYS TO COORDINATE INTERACTIONS BETWEEN SPRITES?

In this activity, you'll explore different ways to program sprites to have conversations! Experiment with timing and explore using broadcast by remixing a joke project.



### **START HERE**



- Brainstorm ideas with a neighbor! Generate a list of possible solutions and test them out together.
- Try using the broadcast and when I receive blocks in different parts of your project.
- Explore projects in the Conversations studio to get inspiration for different ways to coordinate conversations between sprites.
- + Add your project to the Conversations studio: http://scratch.mit.edu/studios/475547
- + Challenge yourself to do more! Add other characters and conversations.
- + Share your project with a neighbor and walk them through your process of exploration and design.
- + Help a neighbor!

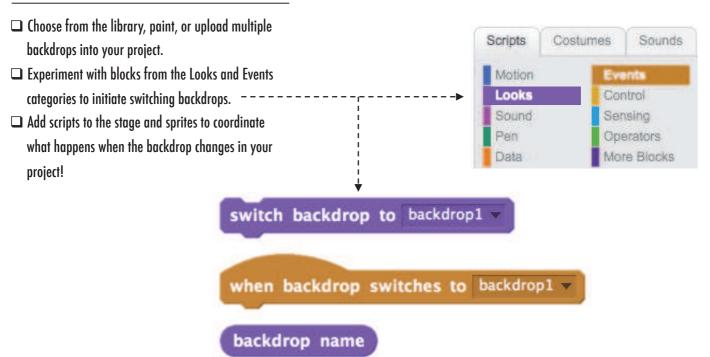
# SCENES

### WHAT IS THE DIFFERENCE BETWEEN THE STAGE AND SPRITES?

In this activity, you will create a project that experiments with backdrops, like a story with multiple scenes or a slideshow.



### **START HERE**



### THINGS TO TRY

FINISHED?

- Look for blocks under the sprites and the stage related to backdrop and test them out to see what they do!
- Need more inspiration? Explore the Scratch online community to discover projects that use multiple backdrops.
- + Add your project to the Scenes Studio: http://scratch.mit.edu/studios/475550
- + Challenge yourself to do more! Add more backdrop changes to your project.
- + Help a neighbor!
- + Return to one of your previous projects or find a project you are inspired by and remix it by adding switching backdrops.