UNIT 3 Stories



YOU ARE HERE



WHAT'S INCLUDED

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CHARACTERS CONVERSATIONS SCENES DEBUG IT! CREATURE CONSTRUCTION PASS IT ON

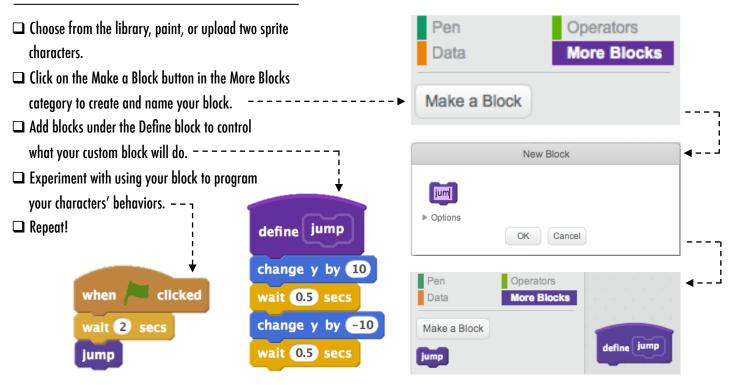
CHARACTERS

DO YOU WANT TO CREATE YOUR OWN SCRATCH BLOCKS?

Experiment with the Make a Block feature in Scratch! In this project, you will create your own blocks that define two behaviors for two different characters.



START HERE



THINGS TO TRY

FINISHED?

- Feeling stuck? That's okay! Check out this video to get started with the Make a Block feature: http://bit.ly/makeablock
- Explore other projects in the Characters Studio to see what new blocks others have created.
- Sometimes there can be more than one way of defining the same behavior. Experiment with different block combinations to try out multiple options and outcomes.

+ Add your project to the Characters Studio: http://scratch.mit.edu/studios/475545

- + Challenge yourself to do more! Experiment with adding different characters and behaviors using the Make a Block feature.
- + Help a neighbor!

CHARACTER'S REFLECTIONS

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UNIT 3 REFLECTION

+ How would you explain Make a Block to someone else?

+ When might you use Make a Block?

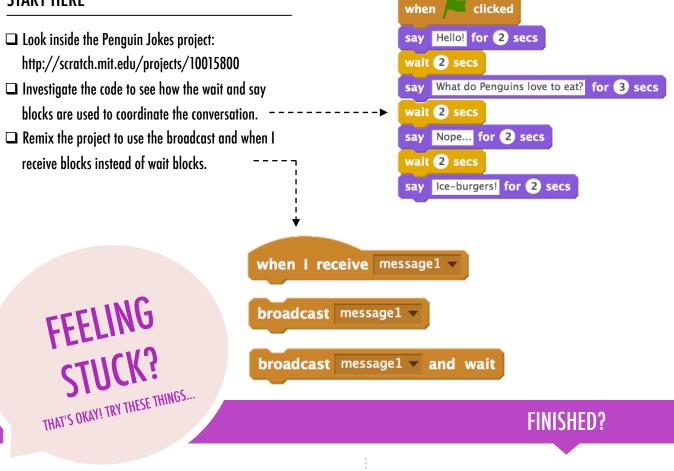
CONVERSATIONS

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!

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CONVERSATIONS REFLECTIONS	►	NAME:	UNIT 3
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+ How would you describe broadcast to someone else?

+ When would you use timing in a project? When would you use broadcasting?

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.

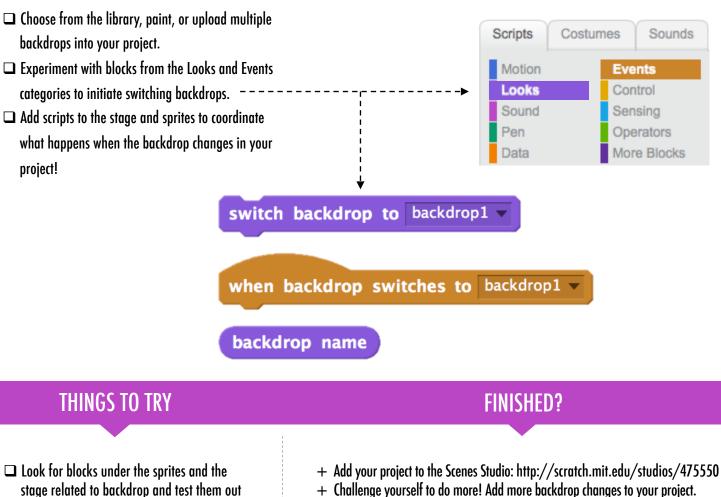


START HERE

to see what they do!

use multiple backdrops.

□ Need more inspiration? Explore the Scratch online community to discover projects that



- + 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.

SCENES REFLECTIONS REFLECTIONS BELOW OR IN YOUR DESIGN JOURNAL.

+ 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?

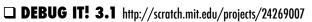
DEBUG IT!

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 3 Debug It! Studio: http://scratch.mit.edu/studios/475554
- Test and debug each of the five debugging challenges in the studio.
- Write down your solution or remix the buggy program with your solution.



In this project, the Scratch Cat teaches Gobo to meow. But when it's Gobo's turn to try – Gobo stays silent. How do we fix the program?

DEBUG IT! 3.2 http://scratch.mit.edu/projects/24269046

In this project, the Scratch Cat is supposed to count from 1 to the number the user provides. But the Scratch Cat always counts to 10. How do we fix the program?

DEBUG IT! 3.3 http://scratch.mit.edu/projects/24269070

In this project, the Scratch Cat is doing roll call with Gobo's friends: Giga, Nano, Pico, and Tera. But everything is happening all at once! How do we fix the program?

DEBUG IT! 3.4 http://scratch.mit.edu/projects/24269097

In this project, the Scratch Cat and Gobo are practicing their jumping routine. When Scratch Cat says "Jump!", Gobo should jump up and down. But Gobo isn't jumping. How do we fix the program?

DEBUG IT! 3.5 http://scratch.mit.edu/projects/24269131

In this project, the scene changes when you press the right arrow key. The star of the project – a dinosaur – should be hidden in every scene except when the scene transitions to the auditorium backdrop. In the auditorium, the dinosaur should appear and do a dance. But the dinosaur is always present and is not dancing at the right time. How do we fix the program?

FINISHED?

- + 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, and make note of the similarities and differences in your strategies.
- + Help a neighbor!

□ Make a list of possible bugs in the program.

THAT'S OKAY! TRY THESE THINGS...

FEELING STUCK?

- 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!

DEBUG IT! REFLECTIONS

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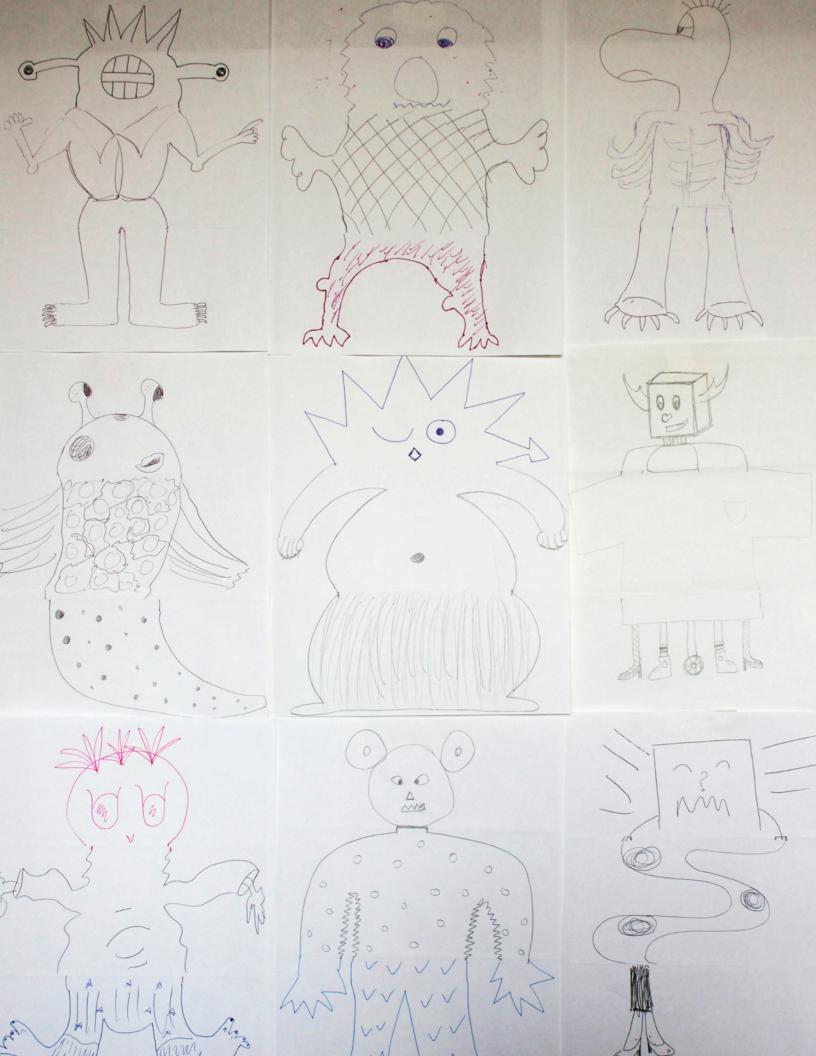
IT 3 REFLECTION

+ What was the problem?

+ How did you identify the problem?

+ How did you fix the problem?

+ Did others have alternative approaches to fixing the problem?



CREATURE CONSTRUCTION REFLECTIONS

+ What is your definition of remixing?

+ Think about the creature you started (drew the "head" for). How did your ideas become extended or enhanced by others' contributions?

+ Considering the creatures you extended (drew the "middle" or "bottom" sections for), how did your contributions extend or enhance others' ideas?

PASS IT ON

WHAT CAN WE CREATE BY BUILDING ON **OTHERS' WORK?**

In this project, you will start developing an animated story project, and then you will pass the story on to others to remix, extend, or reimagine!



START HERE

- □ Work on a story project that focuses on characters, scene, plot, or whatever element excites you. ---- -
- □ After 10 minutes, save and share your project online.
- □ Rotate & extend another story project by remixing it.
- □ Repeat!

THINGS TO TRY

adcast message1 🔻 and wait

Brainstorm different possibilities for remixing, extending, or reimagining a story. Do you want to add a new scene to the end? Could you imagine what happens before the story begins? What if a new character was added? How about inserting a plot twist? What else?

when backdrop switches to Title Screen hide when backdrop switches to metro1 when 🦊 clicked set size to 200 % play sound dog2 show glide 1 secs to x: -102 y: -99 when this sprite clicked glide 1 secs to x: -55 y: -67 broadcast next page 🔻 glide 1 secs to x: 30 y: -102

Adding comments in your code can help others understand different parts of your program. To attach a comment to a script, right click on a block and add a description. -when this sprite clicked add comment here ...

broadcast next page

FINISHED?

when 🖊 clicked define make a block switch costume to costume1 when I receive message1 ask What's your name? and wait switch backdrop to backdrop1 broadcast message1 🔻 say Hello! for 2 secs wait 1 secs answer

next costum

BLOCKS TO PLAY WITH

think Hmm... for 2 secs

+ Add your project to the Pass It On studio: http:// scratch.mit.edu/studios/475543

- + Help a neighbor!
- + Return to all the projects you contributed to and check out how the stories evolved!

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+ How did it feel to remix and build on others' work? How did it feel to be remixed?

+ Where else in your life have you seen or experienced reusing and remixing? Share two examples.

+ How was working with someone else different from your prior experiences of designing your Scratch projects?