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## Variables in Scratch

Now that you know what variables are, let's see how we can use them in Scratch!

## Activity 1—Talk to a Sprite!



Let's learn how to use a variable to talk to our sprites. Abby would love to meet you!

#### STEP 1



Select Abby from your sprite library.

#### STEP 2



Start your new script for Abby by placing a when flag clicked event block and an ask (\_\_) and wait sensing block. There is already a question in the block: "What's your name?" You can stick with that for now. Click the flag to run your program. You will notice that Abby asks you the question, and a box pops up in the bottom of the screen for you to type in your answer. After you type a response, click the checkmark to the right of the



box or just hit return on your keyboard. Whatever you type into that box will be stored in the answer sensing block. This code block is also a variable since it is storing information for us.

## STEP 3



bananas!" Abby will repeat it back to you. be a whole phrase, like "Monkeys love Try typing something else. It can even your answer **variable**. Pretty cool, huh? your name back because you stored it in Abby asks for it. Abby should repeat program and type your own name when allow it to snap into place. Run your the text bubble and then release it to to hover the answer sensing block over may take some practice, but you want sensing block into the text bubble. It you want. In this case, drag your answer over it to make the sprite say anything code block says "Hello," but you can type say (\_\_) for 2 seconds looks block. The To make Abby respond to us, add a

# STEP 4: CODE COMPLETE! when I clicked what's your name? and wait ask what's your name? and wait ask say answer for 2 seconds say is a great name! for 2 seconds

Let's make it more interesting. Add another say (\_\_) for 2 seconds looks block and type "is a great name!" in the text bubble.

Now Abby should tell you that you have a great name! Thanks, Abby!

# YOUR TURN!

changes: Now that you've coded this activity, try challenging yourself to make the following

Program Abby to ask another question.

Add movement and costume changes to make Abby more animated while she talks to you.

 $\qed$  Use the answer sensing block to program Abby to give a funny response.

Variables