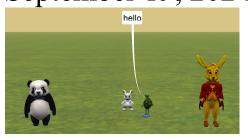
CompSci 94 Writing Class Procedures Built-in Functions, Math, Properties September 19, 2024

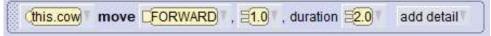


Prof. Susan Rodger

CompSci 94 Fall 2024

Q1. Built-in Functions

• Where can you use the cow getHeight function in this instruction?



Announcements

- Note: Exam 1 is Thursday, Sept 26
 - Old exams are on the course website under resources tab
 - Review materials for you are on the course web site under 9/26 date
 - Note the Exam 1 reference sheet! It will be with the exam
 - If you get accommodations for exams, you should have had your letter sent to Prof. Rodger, and she would have contacted you.

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Q1. Built-in Functions

• Where can you use the cow getHeight function in this instruction?



- Over the 1.0 or the 2.0
- getHeight's value is of type decimal, so you can use it anywhere there is a decimal number
- Functions calculate a value of a certain type
 - Use the value wherever that type is in an instruction

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Q2. getDistanceTo

• What happens when this executes?



Q2. getDistanceTo

• What happens when this executes?



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Lots of built-in functions to use



Q3. Use math to adjust



• How do we stop poodle before the cow?



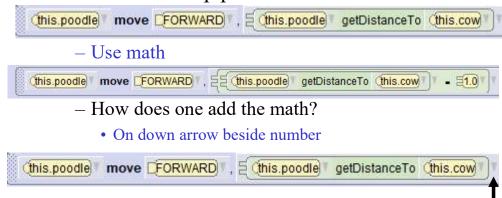
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Q3. Use math to adjust





• How do we stop poodle before the cow?



Q4. How do I get the flamingo to circle around the ostrich?



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Q4. How do I get the flamingo to circle around the ostrich?

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• Use turn with as seen by



- Which direction do you pick to go forward?
 - The ostrich is to the flamingo's left, so turn left

Q5. Properties

- What can you do with the paint property?
- What does painting an object with white paint do?
- What can you do with opacity property?
- What can you do with the vehicle property?

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Q5. Properties

- What can you do with the paint property?
 - Paint an object that color
- What does painting an object with white paint do?
 - Means no color, the original colors show through
- What can you do with opacity property?
 - Make something see through or invisible
- What can you do with the vehicle property?
 - Make an object move when another object moves

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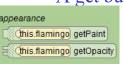
Q6. More on properties

- Where does one change a property instantly when not running code?
- In setup scene under properties

• Which instructions do you get to use with properties?

- A set procedure

A get built-in function







Q7. Vehicle Property

Consider



• What happens if the bluebird moves forward?

Q6. More on properties

• Where does one change a

property instantly when

What instructions do you

get to use with properties?

not running code?

• What happens if the flamingo moves forward?



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Q7. Vehicle Property

Consider



- What happens if the bluebird moves forward?
 - Only the bluebird moves.
- What happens if the flamingo moves forward?
 - The bluebird moves forward with it

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Q8. How does one create their own camera

marker (not use the ones provided in Alice)?

Q8. How does one create their own camera marker (not use the ones provided in Alice)?

- Use any object.
- Change its name to cameraViewSOMETHING
- Have it moveAndOrientTo camera
- Make it invisible

STOP HERE

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What is the best object to use to make your own Camera marker

What is the best object to use to make your own Camera marker

- Use a small quadruped
- It's small and you will see its legs so you know it is on the camera.

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Create Poodle as Camera Marker

• Rename the object to the camera view it



Poodle moveAndOrientTo camera





Then make the poodle invisible

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Class Today

- Using properties, built-in functions and math
- Creating class procedures



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