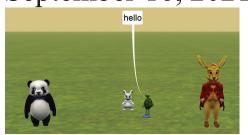
CompSci 94 Writing Class Procedures Built-in Functions, Math, Properties September 16, 2021



Prof. Susan Rodger

9/16/21 CompSci 94 Fall 2021

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Announcements

- Assignment 3 due Sept. 23.
- Note: Exam 1 is Tuesday, Sept 28
 - Old exams are on the course website under resources tab
 - We will review for the exam on Sept 23
 - If you get accommodations for exams, you should have had your letter sent to Prof. Rodger, and she would have contacted you.

Q1. Built-in Functions

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



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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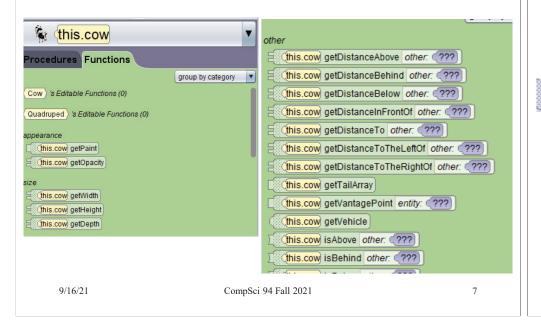
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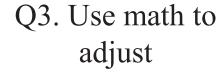
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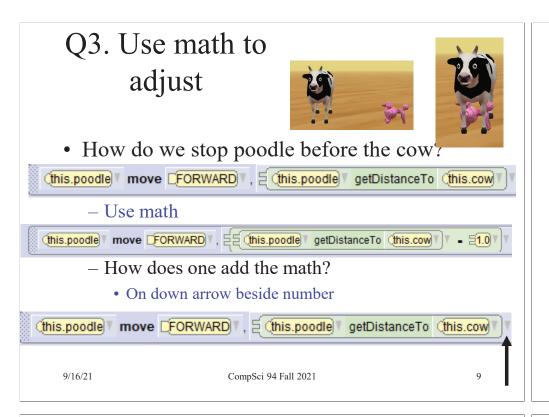


• How do we stop poodle before the cow?

this.poodle move FORWARD, this.poodle getDistanceTo this.cow

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

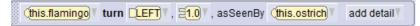


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Q4. How do I get the flamingo to circle around the ostrich?



• 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

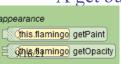
 Where does one change a property instantly when not running code?

• What instructions do you get to use with properties?

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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



vehicle (this.fl



🏅 this.bunny2 🔻

Q7. Vehicle Property

Consider



- What happens if the bluebird moves forward?
- 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)?

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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 will be

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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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