CompSci 94
Making Procedures Flexible
September 7, 2021

Prof. Susan Rodger

Announcements

- Assignment 2 due Sept 14 (one week)
- Next time – Camera Controls
- QZ05 due Thursday by the start of class

Top 10 list for surviving in CompSci 94

10. Watch the videos
9. Eat lots of pizza
8. Learn how to spell Rodger
7. Ask Questions
6. Visit your prof in her office hours on My Digital Hand

Top 10 list (cont)

5. Check Ed every day
4. Learn how to debug your programs
3. Understand what you turn in
2. Seek help (One Hour Rule!)
1. Start programming assignments early

Q1 Parameters

- What is the difference between a parameter and an argument?

- Can you send different arguments when you call a procedure a second time?

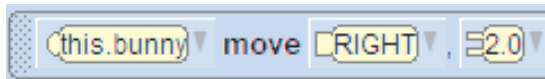- Does the type of the argument matter?

Q1 Parameters

- What is the difference between a parameter and an argument?
  - A parameter is a placeholder for a value
  - An argument is a value that can be used in place of a parameter
- Can you send different arguments when you call a procedure a second time?
  - Yes!
- Does the type of the argument matter?
  - Yes, it must be the same type as the parameter
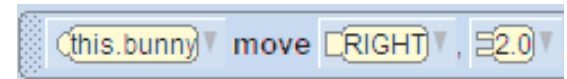
Q2. Parameters/Arguments

- Consider: `this.bunny move RIGHT, 2.0`
  `this.bunny move direction: ??? , amount: ???`

- What are the parameters in it?

- What are the arguments in it?

Q2. Parameters/Arguments

- Consider: `this.bunny move RIGHT, 2.0`
  `this.bunny move direction: ??? , amount: ???`

- What are the parameters in it?
  - Direction and amount

- What are the arguments in it?
  - Right, 2.0

Q3. Parameters/arguments

`this.bunny` **mystery** *phrase:* ♪"Welcome" , *animal:* this.hare , *movement:* FORWARD

– Which objects can use the Mystery procedure?

– What type of parameter is phrase?

– What type of parameter is animal?

– What type of parameter is forward?

– What are the arguments?

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Q3. Parameters/arguments

`this.bunny` **mystery** *phrase:* ♪"Welcome" , *animal:* this.hare , *movement:* FORWARD

– Which objects can use the Mystery procedure?
  - Mystery is a bunny procedure, only a bunny
– What type of parameter is phrase?
  - Phrase is a textString parameter
– What type of parameter is animal?
  - Animal is an object parameter
– What type of parameter is forward?
  - Forward is a direction parameter
– What are the arguments?
  - "Welcome", hare, and FORWARD

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STOP HERE

Class Today

• Writing procedures with parameters