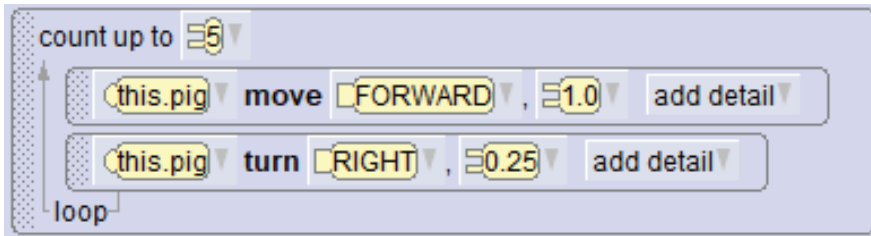


CompSci 94

Introduction to Programming

Animation and Virtual Worlds

October 12, 2021



Prof. Susan Rodger

Announcements

- QZ and Videos due before next class

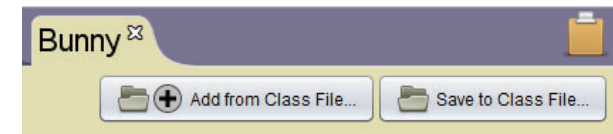
Q1. How do you save an Alice object to read into another project?

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- Start with six-sided shape and select the object



- Select “Save to class file”



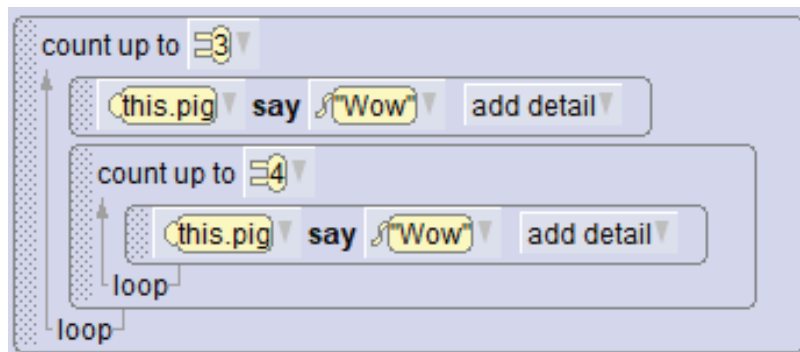
- Give it a different name to distinguish it

Q2. Why would you want to save an object and read it into another Alice program?

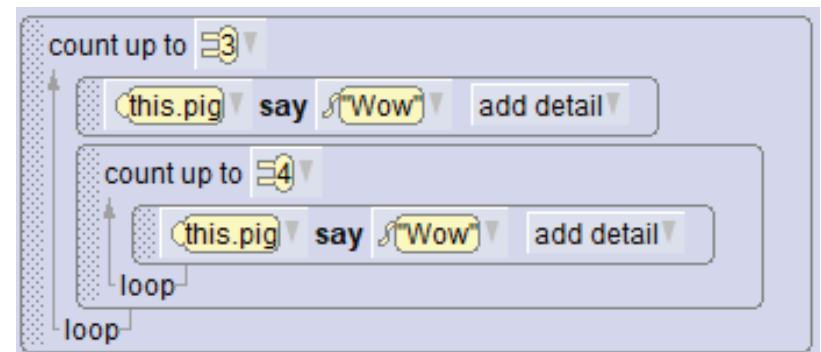
Q2. Why would you want to save an object and read it into another project?

- Re-use code
 - Bunny already knows how to walk/hop etc.
- What do you need to do to take advantage of this?
 - Write lots of object procedures before saving it out.

Q3. How many times does the pig say Wow?



Q3. How many times does the pig say Wow?



- 15 times total
 - 3 for first say, $4*3=12$ for second say

Q4. Count loop

- What **type** of value can you use for the number for the count loop?
- Suppose you want your object to hop repeatedly towards another object until it stops in front of the object. How do you do that with a count loop?

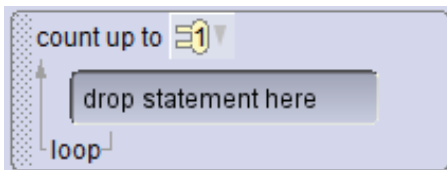
Q4. Count loop

- What **type** of value can you use for the number for the count loop?
 - Only a whole number
- Suppose you want your object to hop repeatedly until it stops in front of an object. How do you do that with a count loop?
 - Convert the decimal distance into an integer and use that integer

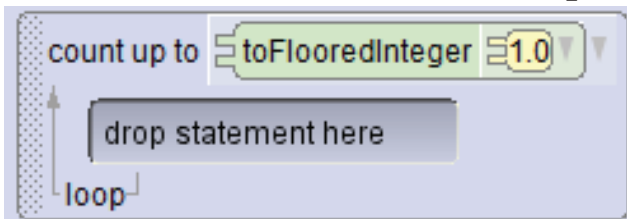


More detail on Count with function

- First: pick any number

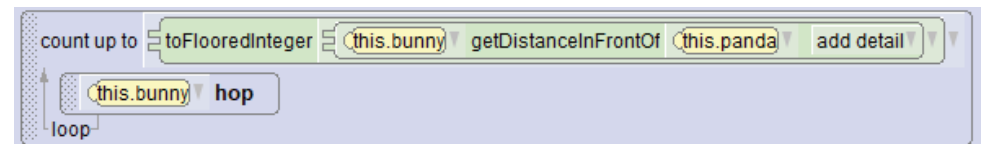


- Second: Decimal to Whole number option



More detail on Count with function (cont)

- Third: Drop built-in function over decimal number



More detail on Count with function (cont2)

- All the code (must make sure bunny and panda facing each other in order to use `getDistanceInFrontOf`)

```
do together
  this.bunny turnToFace this.panda add detail
  this.panda turnToFace this.bunny add detail
// This assumes one hop is one unit in direction towards the panda
count up to toFlooredInteger this.bunny getDistanceInFrontOf this.panda add detail
  this.bunny hop
loop
```

10/12/21

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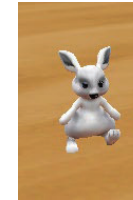
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Class Today

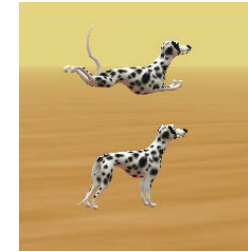
- Create talented bunny – can walk
- Create talented dalmatian – jump with legs stretched
- Save them out and put them in another Alice project



10/12/21



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