CompSci 94
Move/Turn/Roll Instructions
DoTogether, Storyboards
September 10, 2019

Prof. Susan Rodger
Top 10 List – Surviving CompSci 94

10. Ask Questions
9. Watch the Videos
8. Visit your professor in her office
7. Learn how to spell Rodger
6. Start early and keep working until it is correct
Top 10 List (cont)

5. Read the Compsci 94 bulletin board - Piazza
4. Attend class – Be on time!
3. Disconnect (email, facebook, chat, text) and focus/think about what you are doing
2. Seek help when stuck (1 hour rule)
1. Keep number for Enzo’s Pizza handy
Instructions

- Move – how many directions to move?

- Turn – how many ways?

- Roll – how many ways?
Instructions

• Move – how many directions to move?
  – 6 ways – up, down, left, right, forward, backward

• Turn – how many ways?
  – 4 ways – left, right, forward, backward

• Roll – how many ways?
  – 2 ways – left, right
Object Parts

• Which instructions should you use with object parts? (turn, roll, move?)
Object Parts

- Which instructions should you use with object parts? (turn, roll, move?)
  - Yes to turn and roll
  - No to move
Other instructions

• Move
• Move to
• Move towards
• Point at
• Place
• Turn
• Turn to face
DoInOrder vs DoTogether

- Is the final result of movements from these two code blocks the same?

```
<table>
<thead>
<tr>
<th>do in order</th>
</tr>
</thead>
<tbody>
<tr>
<td>this.pig</td>
</tr>
<tr>
<td>this.panda</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>do together</th>
</tr>
</thead>
<tbody>
<tr>
<td>this.pig</td>
</tr>
<tr>
<td>this.panda</td>
</tr>
</tbody>
</table>
```
DoInOrder vs DoTogether

• Is the final result of movements from these two code blocks the same?

• Pig and Panda end up in the same place with either one
DoInOrder vs DoTogether - 2

• Is the final result of movements from these two code blocks the same?
DoInOrder vs DoTogether - 2

• Is the final result of movements from these two code blocks the same?
  
  ![Diagram showing DoInOrder code block]

  ![Diagram showing DoTogether code block]

• NO – Panda ends up in a different place with each code block
Panda DoInorder block
Panda DoTogether

```
do together
  this.panda move FORWARD, =1.0
  add detail

  this.panda turn LEFT, =0.5
  add detail
```

Before: Two pandas and a pig. After: Two pandas.
Storyboards

- Series of sketches
- Simple sketches
- List of objects

Scene: 1

Initial scene

Objects: Amy, spaceship, rock
Title: A Space Scare

Objects Used: Astronaut (Amy), UFO, Tea Table (hidden), rocky Outcrop, alien

Initial Scene

Noise. An alien appears to the right of the rock. Amy turns toward the rock and zooms in to get a good look at the alien.

Amy runs to the ladder while Alien runs behind the rock.

Amy goes up into the spacecraft. Then ladder goes up. Alien comes out of hiding and says, "Don't you want to play?"

Spaceship takes off.
Pixar does Storyboards
Announcements

• Last Chance for QZ3-QZ5 this week
  – QZ3 – turns off 8:30am Wed.
  – QZ4 – turns off 8:30am Thur.
  – QZ5 – due 8:30am Thur, extension til 8:30am Friday

• Starting Next week, Quizzes turn off 8:30am day they are due

• Assignment 2 due Thursday.
  – Don’t forget Reflect form with each assignment!
Class Today

• Storyboard
• Alice programming