Move/Turn/Roll Instructions
DoTogether, Storyboards
August 31, 2021

Prof. Susan Rodger
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?

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

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• 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?

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

This slide illustrates a sequence of commands and their outcomes. The top part shows the code snippet:

```
do together
  this.panda move FORWARD, 1.0
  this.panda turn LEFT, 0.5
```

The images below demonstrate the initial and final states of a panda and pig pair as these commands are executed. The panda moves forward, and then turns left, resulting in the pig and panda standing close together.
What goes into a Storyboard?
What goes into a Storyboard?

- Sketches
- List of objects
- Brief description of a sketch
- Show motion with arrows
- Number the sketches
Storyboards

- Series of sketches
- Simple sketches
- List of objects

Scene: 1

Initial scene

Objects: Amy, spaceship, rock

8/31/21
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 back to original location.

Amy runs to ladder while alien runs behind rock. Amy goes up into spaceship. Then ladder goes up. Alien comes out of hiding and says "Don't you want to play?"
Pixar does Storyboards
Sakai Quizzes

• Last Chance for QZ1-QZ3 beginning of next week
  – QZ1, QZ2 and Q3 – turn off Sept 7 when lecture starts

• Starting Next week, Quizzes turn off when lecture starts on the day they are due
  – QZ4, QZ5, etc – TURNS off when lecture starts!
Announcements

• Assignment 1 due Thursday, Sep 2, 11:59pm
• Consulting hours
  – See help tab on course web page
• Prof. Rodger has zoom hours
  – See info tab on course web page
Class Today

- Storyboard
- Alice programming
- Check off when done or in next class period