CompSci 94
Move/Turn/Roll Instructions
DoTogether, Storyboards
August 31, 2021


```
do together
    this.pig    move  FORWARD  ,  1.0    add detail
    this.panda    turn  RIGHT  ,  0.5    add detail
```
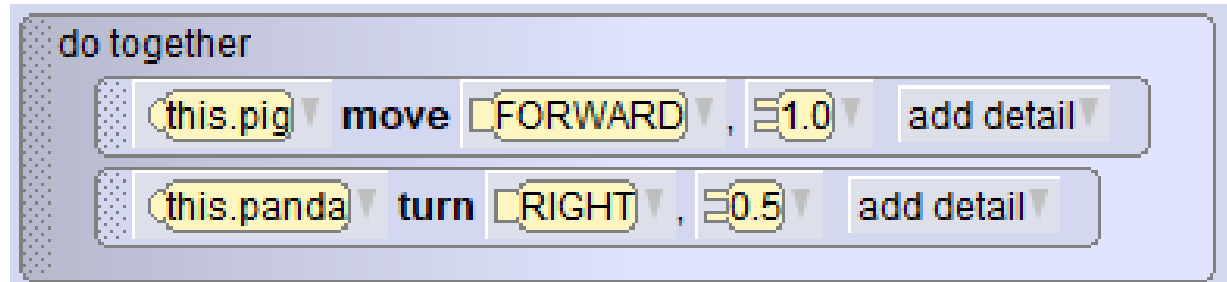
Prof. Susan Rodger

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
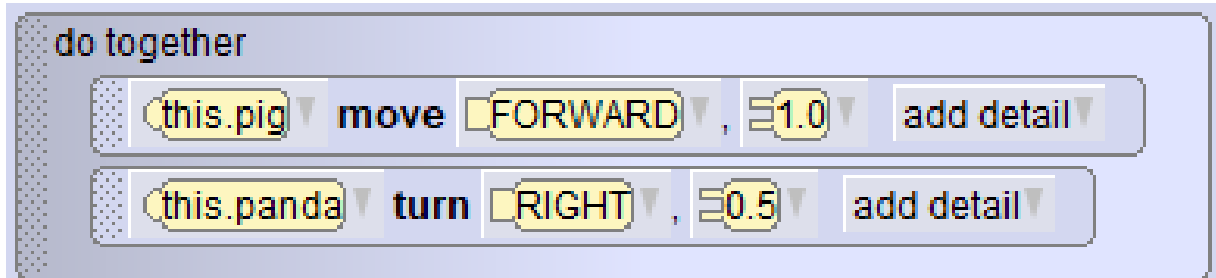- Point at
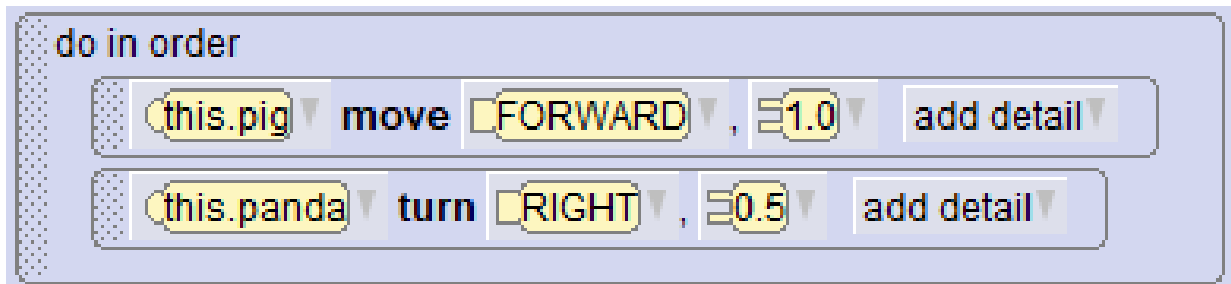- Place
- Turn
- Turn to face

DoInOrder vs DoTogether

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

DoInOrder vs DoTogether

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do in order
   this.pig   move   FORWARD , 1.0   add detail
   this.panda   turn   RIGHT , 0.5   add detail
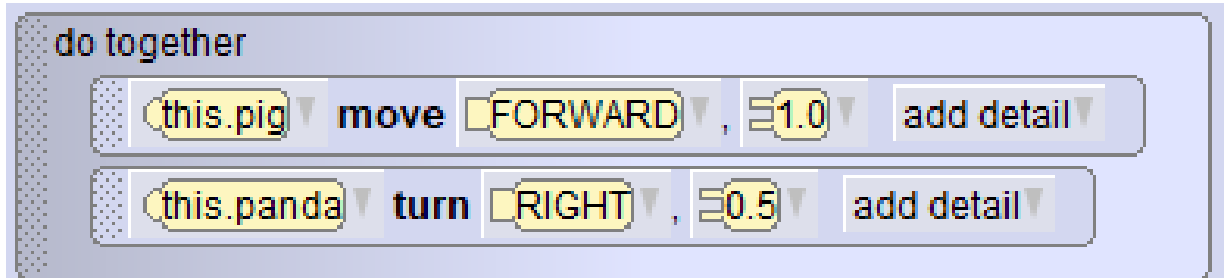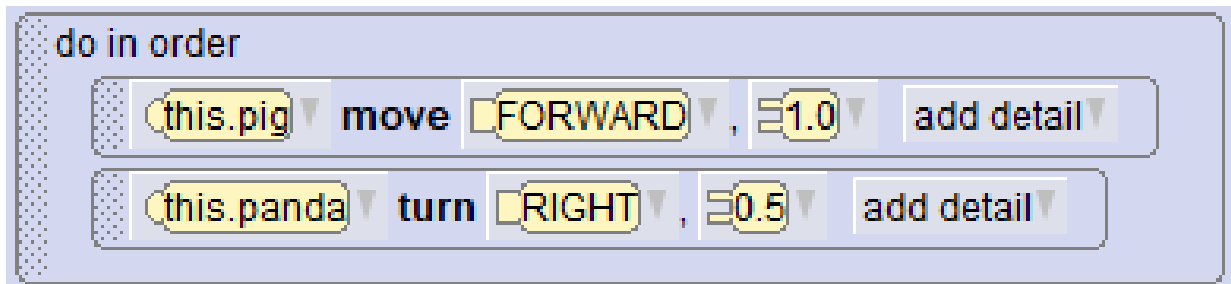
do together
   this.pig   move   FORWARD , 1.0   add detail
   this.panda   turn   RIGHT , 0.5   add detail

- 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?

do in order
  this.panda move FORWARD , 1.0   add detail
  this.panda turn LEFT , 0.5   add detail

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

DoInOrder vs DoTogether - 2

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

```
do in order
    this.panda   move  FORWARD , 1.0   add detail
    this.panda   turn  LEFT , 0.5   add detail
```

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

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

Panda DoInorder block
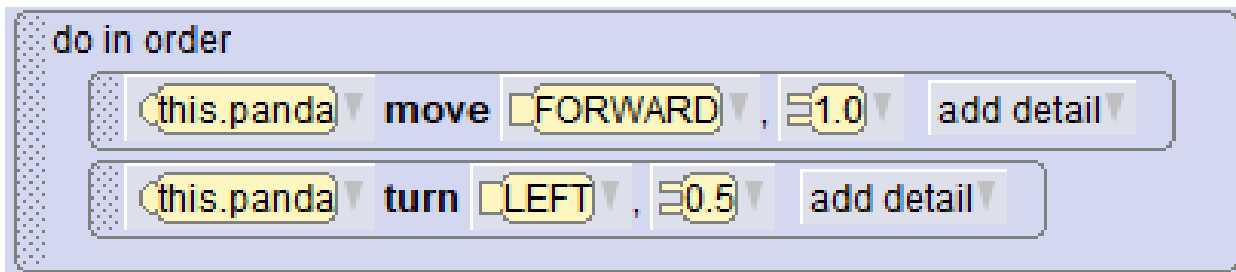
Panda DoTogether

do together
> this.panda **move** FORWARD , 1.0   add detail
>
> this.panda **turn** LEFT , 0.5   add detail
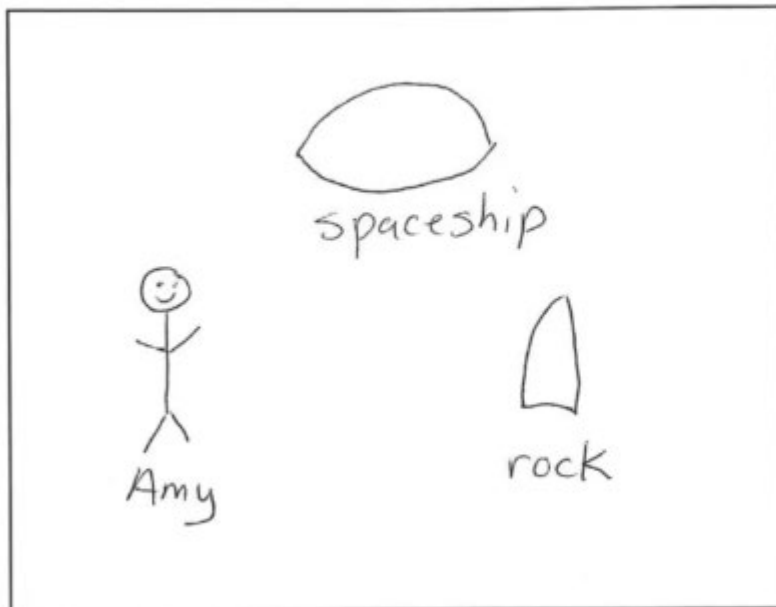
What goes into a Storyboard?

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

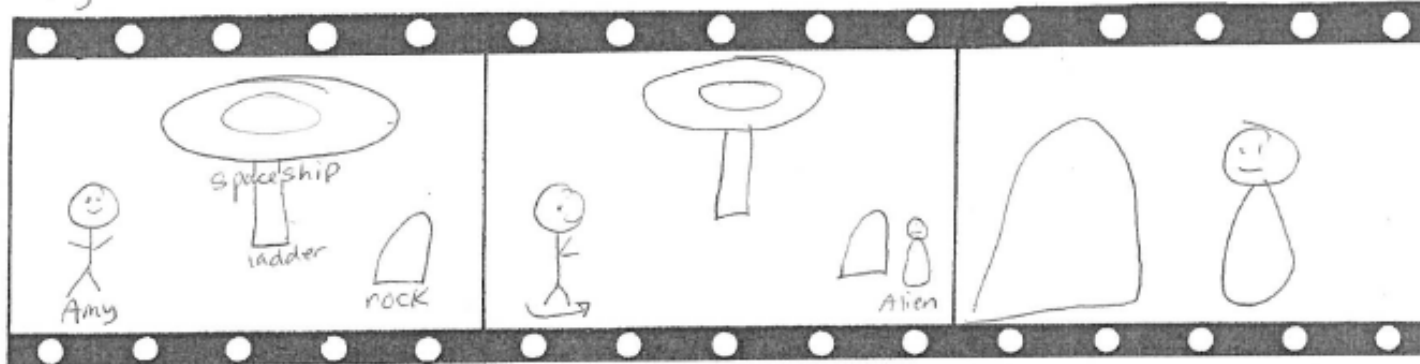- List of objects

Scene: __1__

Initial scene

Objects: Amy, spaceship, rock

spaceship

Amy

rock

Complete Storyboard example

Title: A Space Scare

objects used: Astronaut (Amy), UFO, teaTable (ladder), rockyOutCrop, alien

Storyboard

Name: S. Radger

Initial Scene

Noise! An Alien appears to the right of the rock. Amy turns toward the rock

Camera zooms in to get good look at Alien. Then zooms back to original location

Amy runs to ladder while Alien runs behind rock

Amy goes up into spacecraft. Then ladder goes up. Alien comes out of hiding.

spaceship takes off and Alien says "Don't you want to play?"

8/31/21

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