

# CompSci 94

## Classwork: Procedures, Movement

### August 27, 2020



Prof. Susan Rodger

8/27/2020

CompSci 94 Fall 2020

1

## The Story

- The panda bows a lot and the pig dances a lot. The pig does some movements and then moves off screen. The phoenix flaps its wings and flies away.
- **Follow the steps below.** You will need to write three procedures first. Then see a more detailed description of the story.

8/27/2020

CompSci 94 Fall 2020

2

## 1) Setting up the scene

- Add in any ground cover, I used grassy desert
- Drag in these objects so they are in positions similar to the picture on the next page
  - Biped: Panda, Pig
  - Flyer: Phoenix

8/27/2020

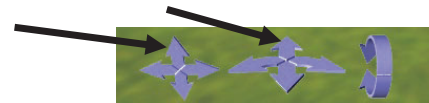
CompSci 94 Fall 2020

3

## Starting Scene



- Use these camera controls to adjust



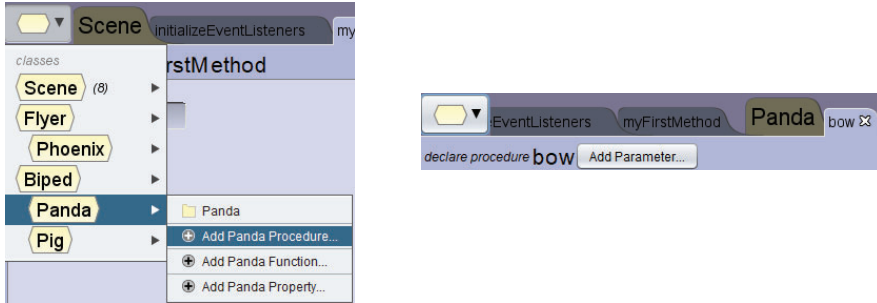
8/27/2020

CompSci 94 Fall 2020

4

## 2) Write the panda **bow** procedure

- Make sure you create the procedure as a **panda** procedure



## 2) the panda **bow** procedure (cont)

- Add in a **do In Order**
- The panda should bow like this once:



- Hint: use the part spineBase
- Test your bow by calling it from **myFirstMethod**

8/27/2020

CompSci 94 Fall 2020

6

## 3) Write the **pig** procedure **dance**

- Here is how the pig dances
- First move:



- Then turns around once



- Last move:



## Test the pig dance procedure

- In myFirstMethod. Test the pig dance procedure

8/27/2020

CompSci 94 Fall 2020

8/27/2020

CompSci 94 Fall 2020

8

## 4) Write the phoenix procedure flapWings

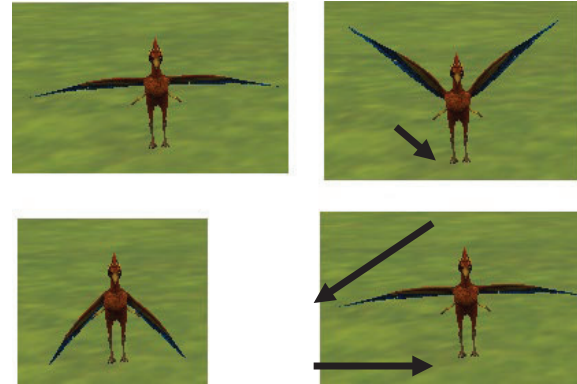
- First in myFirstMethod, have the phoenix spread its wings. The phoenix must have its wings spread before you call flapWings.
- Then create the phoenix procedure flapWings
  - The phoenix flaps its wings once with three movements, both wings at the same time.
  - The total time for the flap is one second
  - See the pictures of the three movements next.

8/27/2020

CompSci 94 Fall 2020

9

## 4) Phoenix flapWings (cont)



- Test flapWings in myFirstMethod

8/27/2020

CompSci 94 Fall 2020

10

## 5) Now write myFirstMethod and the story

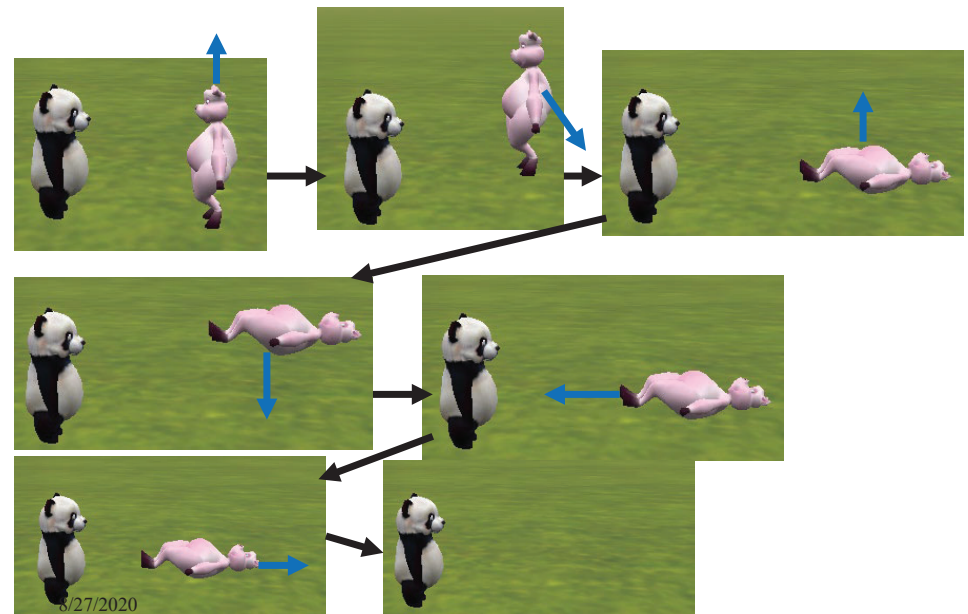
- First delete all the testing code in myFirstMethod, and then drag in a **doInOrder**.
- Here is the story to put in:
  - The panda bows, then faces the pig.
  - The pig dances, then the panda bows again.
  - The pig faces the panda, and the pig dances again.
  - Then the pig does the following movements:

8/27/2020

CompSci 94 Fall 2020

11

## Pig movements



CompSci 94 Fall 2020

## Story continued

- Panda and phoenix turn and face each other at the same time.
- Then the phoenix spreads its wings, and then the panda bows
- The phoenix flaps once, then flaps once while moving up in one second.
- Then the phoenix moves forward and off screen, flapping its wings several times at the same time.
- The panda faces front, bows and says “the end”