

CompSci 94

Classwork: Procedures, Movement

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The Story (briefly)

- The panda bows alot 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.

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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

Starting Scene



- Use these camera controls to adjust

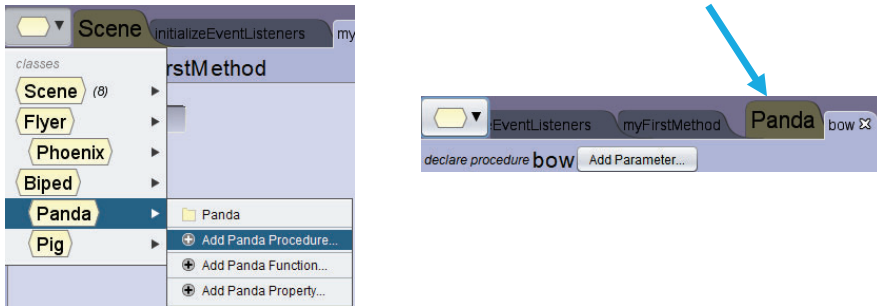


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2) Write the panda **bow** procedure

- 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

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

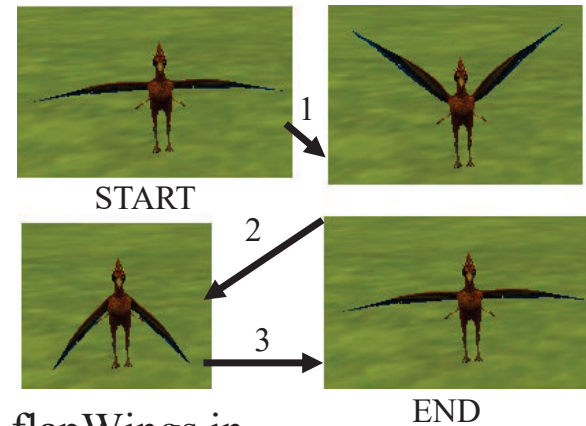
- In myFirstMethod. Test the pig dance procedure

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.
 - *Use part leftWingShoulder and rightWingShoulder*
 - **The total time for the flap is one second**
 - See the pictures of the three movements next.

4) Phoenix flapWings (cont)

3 movements, total time 1 second

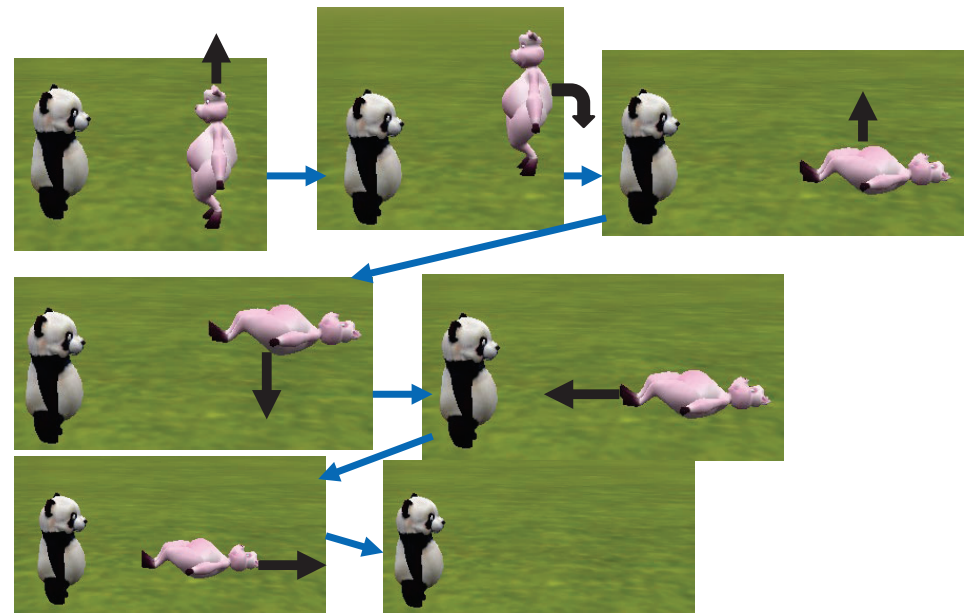


- Test flapWings in myFirstMethod

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 6 movements:

Pig – 6 movements



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”