What Will We Do in CompSci 4?

• Web pages/html (one week)
• Learn to program with Alice (mostly)
• Research study
• Java (2-3 weeks at the end)
How This Class Will Work

• In Class
  – Lecture/demos
  – Tutorials
  – Classwork (in pairs)

• Outside of class
  – Complete work not finished in class
  – Reading
  – Assignments
What Is Alice?

• A modern programming tool
  – 3-D graphics
  – 3-D models of objects
• Animation
  – Objects can be made to move around virtual world (a simulation or video game)
What does Alice run on?

- Alice is written in Java – should run on many systems
  - supports Mac and PC
Fast Start Up

• Can quickly learn to create
  – A simple animation in a few minutes
  – A non-trivial animation in a few class periods
• Can learn to use the Alice interface after a few more class periods
The Power of Alice

• Automatically keeps track of 3-D objects
  – What objects are in the virtual world
  – Types of objects
  – Positions of objects in the world
Objects in Alice

- Objects already exist
- Objects have parts
Program an Object
Class Today

• Demo of Alice
  – Skater, hair, chicken
  – Projects from last semester

• Go over syllabus, web page

• A simple web page

• Assignment