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

How 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