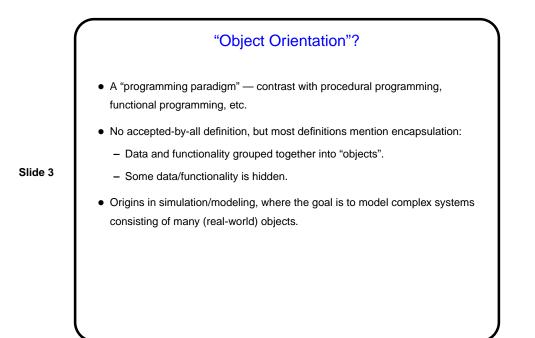
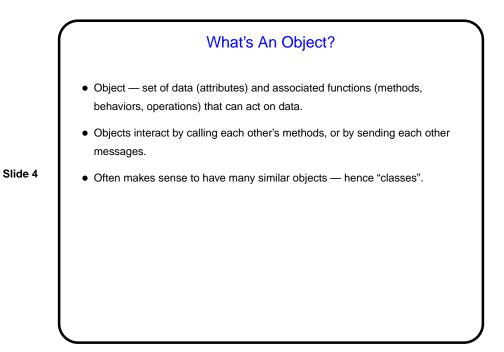


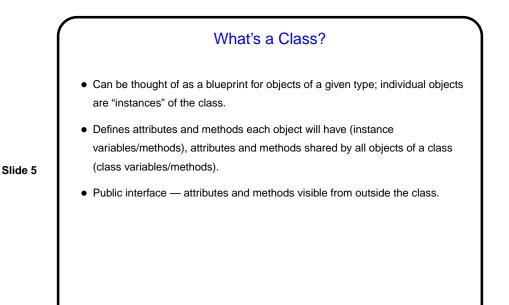
Slide 1

Slide 2

## More Administrivia Please do not reboot the machines in this room (HAS 340); people rely on their being available for background work and remote access. Also be careful not to inadvertently shut them down when trying to log off. If a previous user has left the machine's screen locked, you can use control-alt-backspace to restart the graphical subsystem. If you think a reboot is needed, find a faculty member to decide and take responsibility.



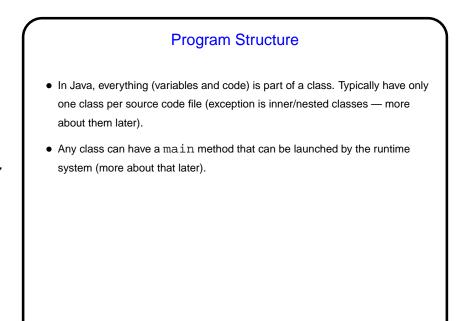




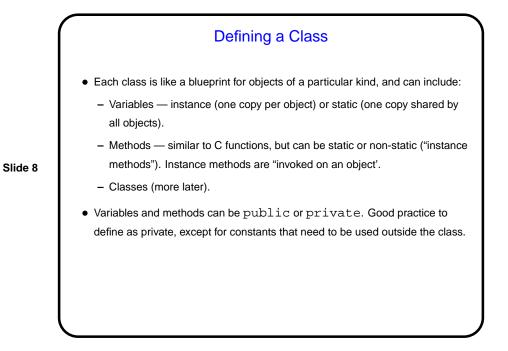
Java and Object Orientation

- Java is not purely object-oriented also includes "primitive types" for efficiency but it's much more strongly object-oriented than a hybrid language such as C++.
- Java programs consist of definitions of classes. (No free-standing functions like the ones in C.)
- Java variables (except primitives) are references to objects, classes define types.
- Classes, attributes, methods have varying "visibilities" (from public to private).



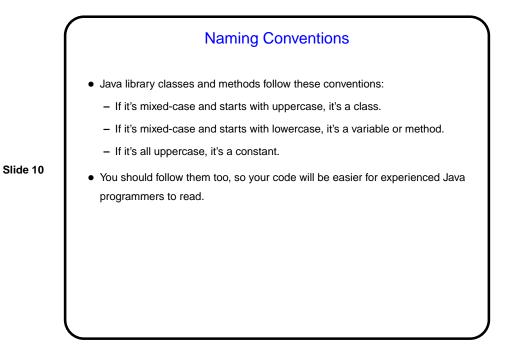


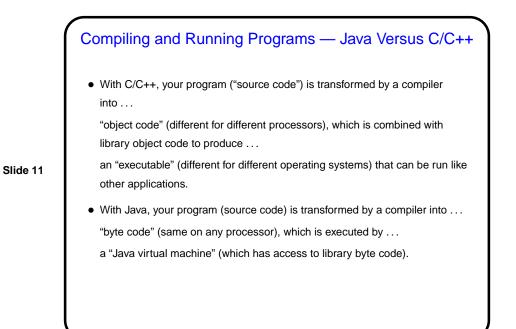
Slide 7

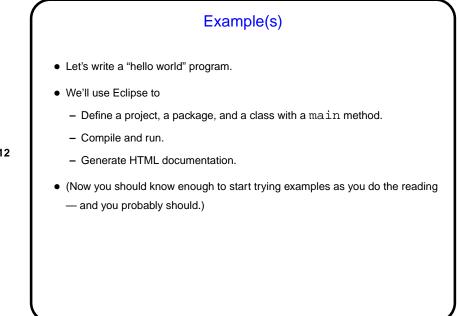


Tools
Java programs are text, so you can write them with a text editor and compile and run them from the command line. (In fact I often do.)
However, many professional programmers use an IDE (Integrated Development Environment), so we will too. We will use Eclipse, which is a free open-source tool written in Java, so you should be able to install a copy on your home machine if you like. (Versions seem to be available for Windows, Linux, and Mac OS X.)

Slide 9







Slide 12

