

# Eclipse and the Project

1-14-2011

# Opening Discussion

- Any questions about the syllabus or the class?
- I have a link to the assignment chain on the links page.
- Recording terminal sessions.

# Objects

- Scala supports another declaration similar to a class called an object declaration.
- This creates a singleton object in the scope that you declare it.
- Making an object with the same name as a class creates a companion object. The companion object has access to the private members of the class, but can be accessed without instantiating the class.

# Bigger Programs

- The REPL and scripts are good for small programs.
- OO really benefits large programs.
- Typically you put each class/object in its own file with the same name as the class/object.
- In an object you put a main that allows you to run the object with scala.
  - `def main(args:Array[String]) { ... }`

# Command Line

- You can compile the files with scalac. This should be followed by all the .scala files you have in the project.
- After that you can run scala followed by the full name of the object that has the main in it.

# Eclipse/Galileo

- When you start developing larger projects it is helpful to have an IDE that helps you out.
- We will use Eclipse. We are using the older, Galileo, version because the Scala plug-in likes it better. Run it by typing `galileo` in the command prompt.
- Let's take a minute to go to the Scala view, create a project, and put some code in it including an application.

# The Drawing Project

- To help illustrate many of the ideas from this semester, I will use the example of a vector drawing project. This is different from any of the programs you will be doing for your projects so it gives you some breadth in the OO topics.
- We'll spend the rest of class working on code for this. Hopefully we can get a fair bit of the GUI up. That should remind you of many of the things that go into this.

# Minute Essay

- There is no class on Monday.
- The first IcP is on Wednesday.
- What are your first impressions of Eclipse and the way it compares/contrasts with using vi and command-line?