

# Eclipse/Applets

4/22/2009

# Opening Discussion

- Minute Essay comments
  - Why do we remove classes from the list?
  - Why did we make the recursive method private?
  - How does the Genius feature of iTunes work?
  - Final length and nature. Cumulative?
  - Adding conditions to the schedule builder.

# Eclipse

- We have been working in Greenfoot and BlueJ because they are good for learning. They are simple and don't provide too much help so you learn what you are doing.
- Eclipse is a professional IDE (Integrated Development Environment). This is the type of tool real developers use. It is complex, but helps you program.
- Netbeans is another professional IDE for Java.

# Applets

- One of the reasons Java became so popular to start with was because of Applets. These are Java programs that you can put in web pages.
- To make an applet we make a class that inherits from either `java.applet.Applet` or `javax.swing.JApplet` then add proper logic.

# Main Methods of Applets

- `void paint(Graphics g)` - This method is called every time the applet is redrawn. Draw to the Graphics object much like a `GreenfootImage`.
- `void init()` - Called when page first loaded.
- `void start()` - Called every time you return to page.
- `void stop()` - Called when you leave the page.
- `void destroy()` - Called when the browser exits.

# Applet Writing

- Let's write an applet in both BlueJ and Eclipse.
- If we have time, we can see how we would put that up on a web page in the CS web space.

# Minute Essay

- What do you see as advantages/disadvantages to an environment like Eclipse?
- Remember to send me project ideas by Friday.
- Friday is “Show Your Code” and a quiz.