

Eclipse/Applets

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Opening Discussion

- Minute Essay comments
 - Do professors use RateMyProfessor? Is it real?
 - API for Eclipse?
 - Can you copy code from Greenfoot to Eclipse?

Eclipse

- We have been working in Greenfoot because it is good for learning. It is simple and doesn'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.

Applications

- You can also make Java programs that run on their own outside of a browser.
- These require the main method.
 - `public static void main(String[] args) { ... }`
- I have posted a class with a main method that will let you run your applet as an application.

Applet Writing

- Let's write an applet in 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?