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 javaslang.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?