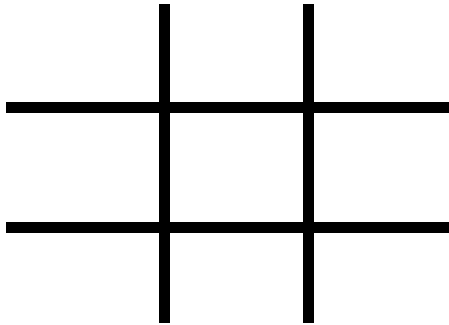


Applets and Graphics

1. Make an applet that draws a circle at a preset location. Hint: draw solid circles with the `fillOval` method. So, your class will look like this (plus the two import statements):

```
public class DrawCircle extends Applet {
    public void paint(Graphics g) {
        g.fillOval(...);
    }
}
```

Note that you need no instance variables or init method in this simple example (assume that you know the applet's width and height). Use Eclipse or the online API to figure out what arguments `fillOval` needs. You can start testing by right-clicking in the code in Eclipse and doing "Run As --> Java Applet". Once this works, then copy one of the HTML files from my applets project and changing the CLASS attribute to be `DrawCircle.class` and the WIDTH and HEIGHT to be whatever you want. Then, drag the HTML file onto Firefox or Internet Explorer to try the applet in a real browser.



2. Make an applet that draws an empty tic-tac-toe board. I.e. something that draws four lines and looks like the picture on the left. You can save yourself some time by copying/pasting the applet and HTML file from #1, and using them as a basis for this problem. Also, start simple by assuming you know the width and height of the applet, but if you feel inspired, you can upgrade your applet later to calculate the dimensions.

3. Grab [http://www.bisonium.com/blog/images/Gates-](http://www.bisonium.com/blog/images/Gates-Jugend.jpg)

[Jugend.jpg](http://www.bisonium.com/blog/images/Gates-Jugend.jpg) or go to <http://images.google.com/> and search for "Bill Gates". Grab one of the images by right-clicking on it and choosing "Save Picture As". Make an applet that draws the image. You almost certainly want to start by copying `JavaMan1.java` and `JavaMan1.html` from my applets project to your new project, then adapting both files as needed. However, if you use the Eclipse trick for running applets, you don't need `JavaMan1.html`. Remember also that you can rename a class by right-clicking on it and doing Refactor --> Rename.

4. Have your Bill Gates applet play some music. See the notes or read the API on `getAudioClip`. Note that you need to change "import java.applet.Applet" to "import java.applet.*" when you use `AudioClip`. Also, Java is pretty limited in the types of sound files it can play with this simple API (it has a fancier one that can play all sorts of stuff), so you might want to go to my solution set and grab `laughter.au` as your first test case. You almost certainly want to start by copying your class from the previous problem (when you Paste it, you can choose a new class name). Also copy the HTML file from the previous problem. Adapt both as necessary.
5. Draw a mustache or some other graffiti on Bill. Again, start by copying/pasting the Java class and HTML file from the previous problem.
6. Read a parameter from the HTML that says whether or not you should draw the graffiti on Bill.