

Collage

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java coding

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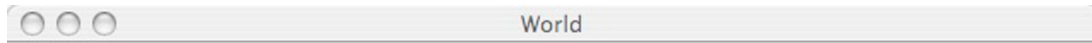
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Java is a language used for programming a computer. This involves specifying at a very precise level of detail each step that is required of the computer. The facilities we provide our students in the creation of their "Turtle Art" include a step to set the color of the virtual "pen," to turn in a particular direction, and to move forward a specified number of pixels, which are simply dots on the screen. When the virtual pen is moved forward, it draws in the chosen color. From these very simple small steps, students can compose programs that take hundreds or even thousands of steps to create a picture. The task at hand is analogous to limiting a writer to only a few hundred words, or an artist to only the primary colors and a single thin brush.

Thomas Bressoud



```
import java.awt.Color;
public class UseTurtles{
  public static void main(String[] args) {
    World canvas = new World();
    System.out.println(canvas);
    Turtle turtle1 = new Turtle(canvas);
    System.out.println(turtle1);
    Turtle turtle2 = new Turtle(130,110, canvas);
    turtle1.penUp();
    turtle1.forward(80);
    turtle2.penUp();
    turtle2.backward(90);
    turtle1.turn(78);
    turtle1.forward(40);
    turtle2.turn(78); // turtle1 and turtle2 finish positioning.
```

Designed and programmed by Eric Nelson