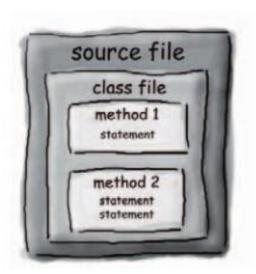


Code Structure



Code structure in Java



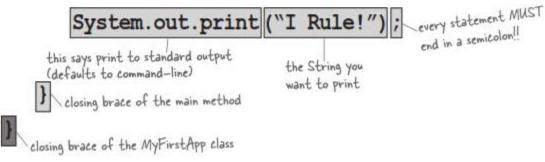


the name of this is a opening curly brace of the class this class public so everyone class (duh) can access it public class MyFirstApp arguments to the method. This method must be given an array of Strings, and the the return type. (we'll cover this the name of array will be called 'args' void means there's this method one later.) no return value. public static void main (String[]

Put a class in a source file.

Put methods in a class.

Put statements in a method.

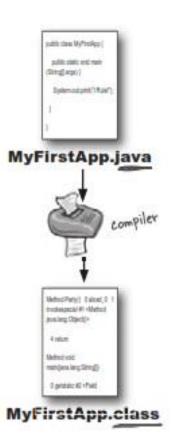




First App







```
public class MyFirstApp {
   public static void main (String[] args) {
      System.out.println("I Rule!");
      System.out.println("The World");
   }
}
```

- Save
 MyFirstApp.java
- @ Compile
 javac MyFirstApp.java
- **8** Run

```
% java MyFirstApp
I Rule!
The World
```

Statements, Looping, Branching



do something

Statements: declarations, assignments, method calls, etc.

```
int x = 3;
String name = "Dirk";
x = x * 17;
System.out.print("x is " + x);
double d = Math.random();
// this is a comment
```

do something again and again

```
Loops: for and while
```

```
while (x > 12) {
    x = x -1;
}

for (int x = 0; x < 10; x = x + 1) {
    System.out.print("x is now " + x);
}</pre>
```



do something under this condition

Branching: if/else tests

```
if (x == 10) {
    System.out.print("x must be 10");
} else {
    System.out.print("x isn't 10");
}
if ((x < 3) & (name.equals("Dirk"))) {
    System.out.println("Gently");
}
System.out.print("this line runs no matter what");

;</pre>
```

