# New – make a Static Class

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Java

#### Review

What is psvm?

```
public class starter{
public static void main(String args[])
        // blah, blah, blah
```

```
public class starter{
     public static void main(String args[])
           // blah, blah, blah
   public class another
         private starter joe;
         joe = new starter();
                             Is this how
         joe.main();
                              psvm is called?
         // blah, blah
```

## JVM calls psvm to start the application.

If we were to call joe.main(), we would have to construct joe first.

How could we construct joe first if the psvm is the method that the JVM calls to start the application?

Wow!

So, psvm is a method of a class, but it has no object!

It is static!!!!

```
public class starter{
    public static void main(String args[])
    {
        // blah, blah, blah
    }
}
```

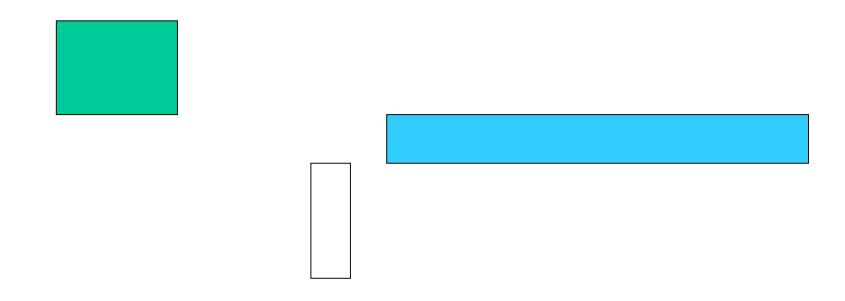
**JVM** 

starter.main()

// sort of what is happening

So far, we have constructed an object of a class to call the class methods:

Rectangle tom; tom = new Rectangle(5,5,5,5); tom.translate(5,5); These objects have data values associated with each one.



What if a class has methods, but no data?

Like, the Math class... min, max, abs, pow,...

What data would describe an object of the Math class?

## Math methods: Math.abs()

Math utilities operate on the values passed into the method's parameters.... no objects are required.

## Math methods: Math.abs()

```
public class Math
      public static int abs(int value)
             int result;
             result = value;
             if(value < 0)
                    result = - value;
                              result is calculated
             return result;
                              directly from the
                              method's formal
                              parameter.
```

```
public class Math
{
    public static int abs(int value)
    {
        int result;
        // blah, blah....
```

```
public class another
{
    int sam;
    Math.abs(sam);
    // blah, blah
}
```

#### Lab

- Make a static class called CVMath
- Put your findMin method into the new class
- Test it. Call findMin from your psvm