

Friday Sept 30<sup>th</sup> 2016 CE

## CP213 Lecture 10

A static method has no `this`  
If you want to call non static object must create object first

A static variable is a variable that belongs to the class

A static variable should "always" be private unless it's a constant. A constant should be final.  
`public static final int BIRTH_YEAR = 1994;`

`int x = 17;` vs `Integer x = new Integer(17);`  
  
↳ primitive type      ↳ object

Boxing & Unboxing  
going to and from object type w/ primitive type  
Unboxing `i = y.intValue();`  
Boxing `Integer i = new Integer(x);`

Since Java 5 unboxing & boxing are automatically done  
⇒ `Integer integerObject = 42`  
`int i = integerObject`

`double x = Double.parseDouble("123.45");`

Copying an immutable object makes copy  
Copying a mutable object makes reference  
↳ need to make "new" to make copy  
`new Date Birth = date.new Date date(originalDate)`

