Classes and Objects in Java

More details: Overloading methods



By the end of this video you will be able to...

- Give examples of overloading methods in Java
- Explain how to overload methods in Java
- Explain why overloading methods is useful

```
public class SimpleLocation
    public double latitude;
    public double longitude;
    public SimpleLocation(double lat, double lon)
        this.latitude = lat;
        this.longitude = lon;
    public double distance(SimpleLocation other) {
```

Must be in file

SimpleLocation.java



```
public class SimpleLocation
      Member variables not shown
    public SimpleLocation()
                                     Default constructor
        this.latitude = 32.9;
        this.longitude = -117.2;
    public SimpleLocation(double lat, double lon)
        this.latitude = lat;
        this.longitude = lon;
```

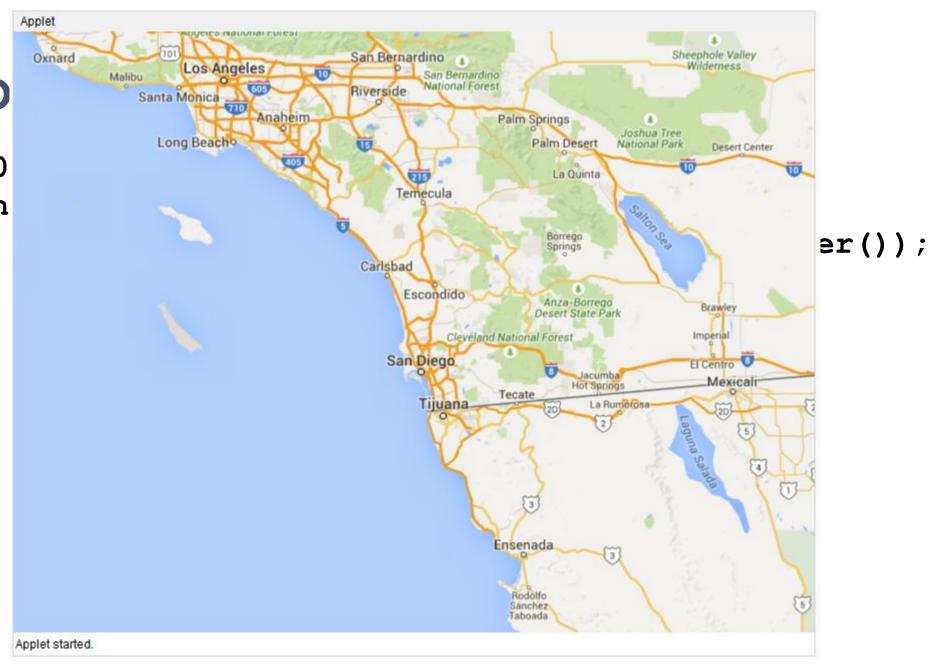


```
public class SimpleLocation
    // Code omitted here
    public double distance(SimpleLocation other)
        // Body not shown
    public double distance (double otherLat,
                            double otherLon)
        // Body not shown
```



Overlo

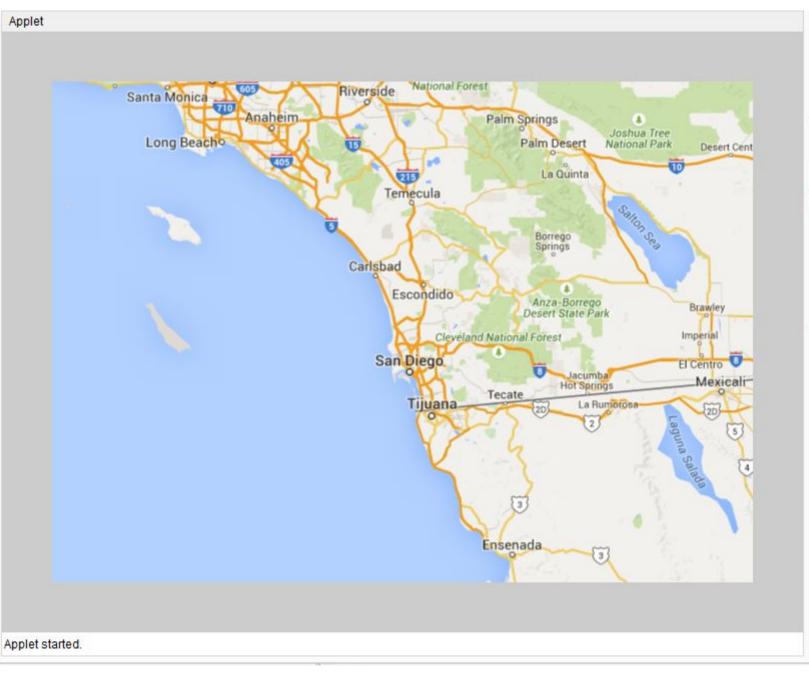
size(80)map = n



Overlo

size(800,
map = new

size(80)map = n



er());

UnfoldingMap

Creates a new full canvas map with tiles from the given provider.

Parameters:

p - The main applet.
provider - The map tiles provider to use.

http://unfoldingmaps.org/javadoc/

UnfoldingMap

Creates a new map with specific position and dimension.

Parameters:

```
p - The main applet.
x - The x position of this map.
y - The y position of this map.
width - The width of this map.
height - The height of this map.
provider - The map tiles provider to use.
```

http://unfoldingmaps.org/javadoc/

```
public class SimpleLocation
    // Code omitted here
    public double distance(SimpleLocation other)
                                     Parameters must be
        // Body not shown
                                     different
    public int distance (SimpleLocation other)
        // Body not snown
```

