Static Variables and Methods

Example

```
class Person
{
 public static int numberOfPeople;
  public String name;
  public Person(String name) {
    this name = name;
    numberOfPeople++;
  public static void printPopulation() {
    System.out.println(numberOfPeople);
```

Exceptions

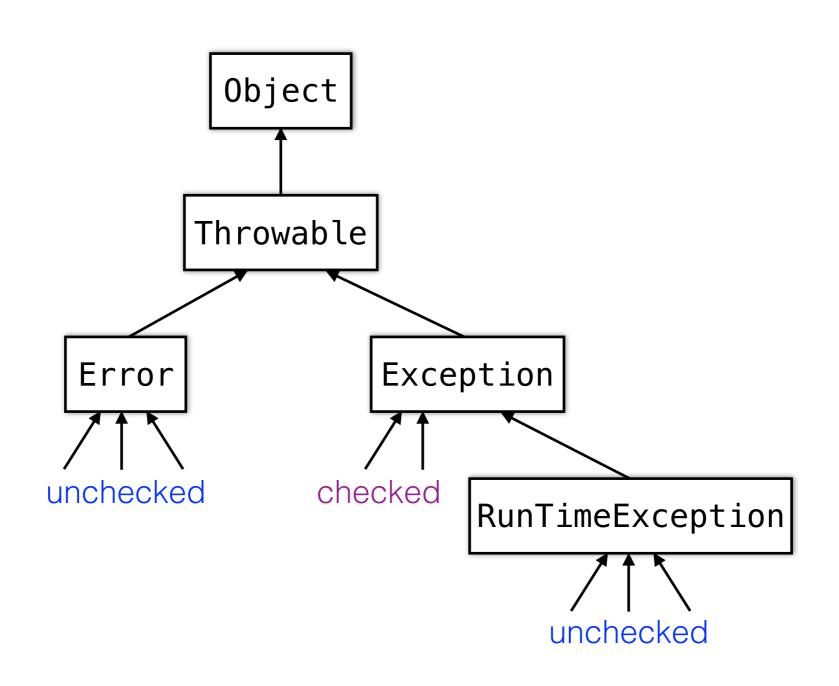
Example

```
public static void main(String[] args)
   InputStream istream;
   File
               inputFile;
   try {
      inputFile = new File(args[0]);
      istream = new InputStream(inputFile);
   catch (FileNotFoundException ex) {
       System.out.println("file " + args[0] + " not found");
```

try/catch Blocks

```
try
{
   // statements that might cause exceptions
catch ( exception-1 id-1 )
{
   // statements to handle this exception
catch ( exception-2 id-2 )
   // statements to handle this exception
}
finally
   // statements to execute every time this try
   // block executes
}
```

The Exception Hierarchy



Defining exceptions

```
class MyException extends Exception
 public MyException()
   super();
 public MyException(String s)
    super(s);
```

Throwing Exceptions

```
public class EmptyStackException extends Exception
{
    ...
}
```

```
public class Stack {
    ...
    public Object pop() throws EmptyStackException
    {
        if (Empty())
            throw new EmptyStackException();
     }
}
```