# Exceptions and File I/O

Compilation Errors
 errors in Syntax

Runtime Errors
X Logic X

Exceptions are for runtime errors

throw new Array OutOf Bounds Exception

just an object

```java
public void DoSomethingSafe() {

    try {
        // dangerous stuff here
        String result = this.doDangerous();
        System.out.println(result);
    }
    catch (ArithmeticException e) {
        System.out.println("error!");   // only happens on error
    }
}
```