



integrascope

## **Guava**

Google Core Libraries for Java 1.6

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# Ever done this?

```
File file = new File(getClass().getResource("/test.txt").getFile());
BufferedReader reader;
String text = "";
try {
    reader = new BufferedReader(new FileReader(file));
    String line = null;
    while (true) {
        line = reader.readLine();
        if (line == null) {
            break;
        }
        text += line.trim() + "\n";
    }
    reader.close();
    reader = null;
} catch (FileNotFoundException e1) {
    e1.printStackTrace();
} catch (IOException e) {
    e.printStackTrace();
}
System.out.println(text);
```

# How about this one?

```
try {  
    bytes = text.getBytes("UTF-8");  
} catch (UnsupportedEncodingException e) {  
    // How can this happen??  
    throw new AssertionError(e);  
}
```

## ... Or this?

```
int[] array = { 1, 2, 3, 4, 5..... };  
int a = 4;  
boolean hasA = false;  
for (int i : array) {  
    if (i == a) {  
        hasA = true;  
    }  
}
```

## ... Or something like this?

```
int[] array = { 1, 2, 3, 4, 5..... };  
int max = -1;  
for (int i : array) {  
    if (i > max) {  
        max = i;  
    }  
}
```

# Guava

## - Google Core Libraries for Java 1.6

- Contains several of Google's core Java libraries -> **com.google.common**
- Maintained by kevinb9n, jared.l.levy, crazyboblee, limpbizkit and more...
- Rather new library to the public
  - initial code dump 2 weeks ago! (September 15<sup>th</sup>)
- Depends on Google Collections
  - Will be part of Guava once Collections hits 1.0
- Currently lacks “polish”
- No binaries yet, only source

svn checkout <http://guava-libraries.googlecode.com/svn/trunk/guava-libraries-read-only>



# Guava

## - Google Core Libraries for Java 1.6

- **com.google.common.primitives**
  - Working with primitives
- **com.google.common.io**
  - Working with streams, buffers, files etc.
- **com.google.common.util.concurrent**
  - Concurrent utilities (Futures, Callables, Executors etc.)
- **com.google.common.base** and **collect** (some additions to Collections)
  - CharMatcher, Splitter, Joiner, Charsets, Defaults, Throwables ++
- Future additions:
  - Testing infrastructure
  - Networking support
  - Reflection utilities
- <http://code.google.com/p/guava-libraries/>
- Next time: Google Collections!



# Primitives

Method	longs	ints	shorts	chars	doubles	bytes	s.bytes	u.bytes	bools
hashCode	X	X	X	X	X	X			X
compare	X	X	X	X	X		X	X	X
checkedCast		X	X	X			X	X	
saturatedCast		X	X	X			X	X	
contains	X	X	X	X	X	X			
indexOf	X	X	X	X	X	X			X
lastIndexOf	X	X	X	X	X	X			X
min	X	X	X	X	X		X	X	
max	X	X	X	X	X		X	X	
concat	X	X	X	X	X	X			X
join	X	X	X	X	X		X	X	X
toArray	X	X	X	X	X	X			X
asList	X	X	X	X	X	X			X
toByteArray	X	X	X	X					
fromByteArray	X	X	X	X					

# THE END

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