

# CSC 243 - Java Programming

Introduction to Javadoc

# Javadoc

- Javadoc is the JDK tool that generates API documentation from comments
- Comments delimited by `/** ... */` are processed by Javadoc
- Javadoc generates output originating from different files:
  - source code (.java) files
  - package comment files
  - overview comment files
  - miscellaneous unprocessed files, e.g. images

<http://www.oracle.com/technetwork/java/javase/documentation/index-137868.html>

# Javadoc Example

```
/**
 * Returns the sum of two integer values
 *
 * @param x the first summand
 * @param y the second summand
 * @return the sum of x and y
 */
public int add(int x, int y) {
    return x + y;
}
```

# Invoking javadoc

- Generate documentation for one file in the current directory:  
`javadoc -d TARGET_DIRECTORY FILE.java`
- Generate documentation for a package in the current directory  
`javadoc -d TARGET_DIRECTORY PACKAGE_NAME`
- Generate documentation for a package not in the current directory:  
`javadoc -d TARGET_DIRECTORY -sourcepath SRC_DIRECTORY PACKAGE_NAME`

# Common Javadoc Tags

- `@author` adds an author entry when `-author` is passed to `javadoc`
- `@param` adds a parameter name and description
- `@return` adds a "Returns" section; only valid for method documentation
- `@see` adds a link that points to documentation defined elsewhere
- `@throws` adds a "Throws" subheading for an exception that is thrown by a method