

# Javadoc Tool

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- Comment your source code
  - packages
  - classes and interfaces
  - methods and constructors
  - fields (attributes)
- Generate documentation from commented source code
  - use command javadoc from Java SDK
  - specify package name or classes names

# Package comments

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- Create file package.html
  - in package directory in the source tree
- Describe the package in the body
  - as HTML text between `<body>` and `</body>` tags
  - first sentence is a summary about the package
    - immediately after tag `<body>`
  - tags can be used
    - @author - author names and emails
    - @version - version and date
    - @see - references (optional)

# Class and interface comments

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- ❑ Comments should be placed immediately before class or interface
- ❑ Starts with `/**` and finishes with `*/`
- ❑ Comments are written in HTML
- ❑ Comments are composed of
  - main description
    - ❑ first sentence is a summary
  - tag section
    - @author           - name and email
    - @version           - version and date
    - @exception or @throws - exceptions of the class (optional)
    - @see               - references (optional)

# Example

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```
/**
 * Summary of class/interface description
 * <p>
 * Main description of class/interface
 * as HTML text
 * @author First Student, fstudent@student.it.uu.se
 * @author Second Student, sstud@student.it.uu.se
 * @version 1.0, 09/11/2003
 * @see MyInterface
 */
public class MyClass implements MyInterface
```

# Method and constructor comments

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- Same requirements as for class/interface comments
- Tag section is different
  - **no** @author
  - **no** @version
  - @param - name of argument and description
  - @return - description (only for methods which return value is not *void*)
  - @throws - exception name and description
  - @see - reference (optional)

# Example

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```
/**
 * Method/constructor summary sentence
 * Description of the method
 * as HTML text
 * @param name1      description of name1
 * @param name2      description of name2
 * @return           description of return value
 * @throws Exception1 why it occurs
 * @see      Return Type
 */
public Return Type myMethod(Type1 name1, Type2 name2)
    throws Exception1
```

# Field (attribute) comments

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- Contains

- main description
- tag @see

- Example

```
/**  
 * The X-coordinate of the component.  
 *  
 * @see #getLocation()  
 */  
int x = 1263732;
```

For more information:

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<http://java.sun.com/j2se/javadoc/index.jsp>

- How to Write Doc Comments for the Javadoc™ Tool