

Generating Javadoc HTML Files

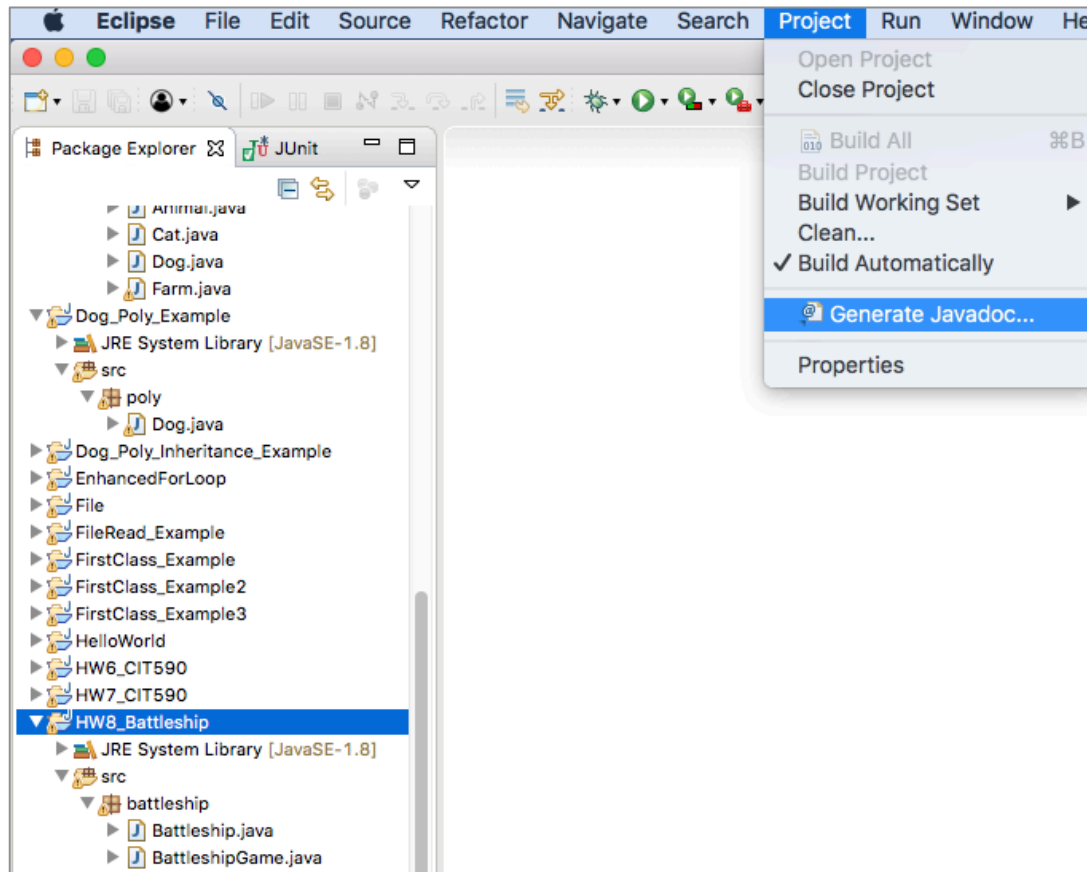
Generating Javadocs

You can easily create API (Application Programming Interface) documentation for an entire program

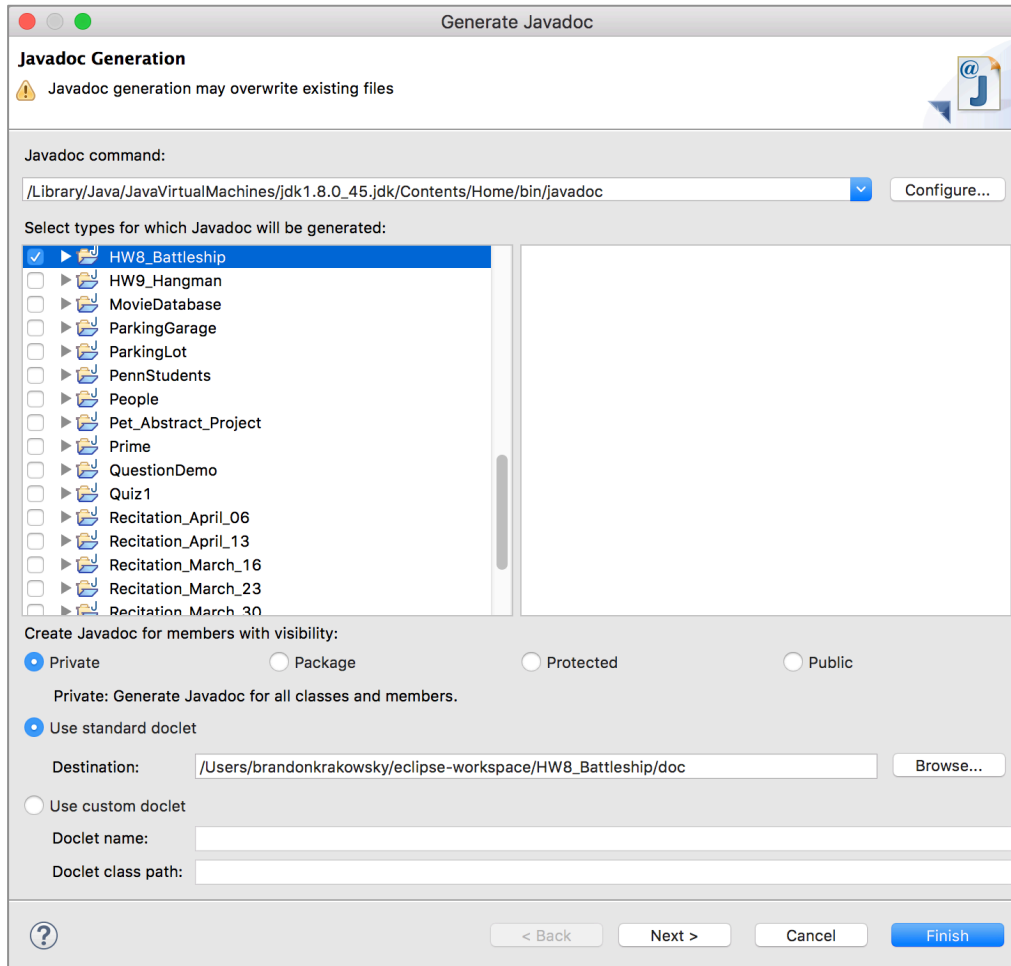
- **This can be extremely helpful for other programmers reading/running your code**
- **Eclipse makes it very easy to generate HTML files directly from the Javadocs in your code**

Generating Javadocs

Select your Java project in the Package Explorer, and go to “Project” → “Generate Javadoc ...”



Generating Javadocs



Javadoc for members with visibility should be set to “Private”

- This will generate Javadoc for all classes and members

Use standard doclet

- Confirm the destination is in a folder *within your Java project*

Generating Javadocs

Generate Javadoc

Configure Javadoc arguments for standard doclet.

☐ Document title:

Basic Options

- ☒ Generate use page
- ☒ Generate hierarchy tree
- ☒ Generate navigator bar
- ☒ Generate index
- ☒ Separate index per letter

Document these tags

- ☒ @author
- ☒ @version
- ☒ @deprecated
- ☒ deprecated list

Select referenced archives and projects to which links should be generated:

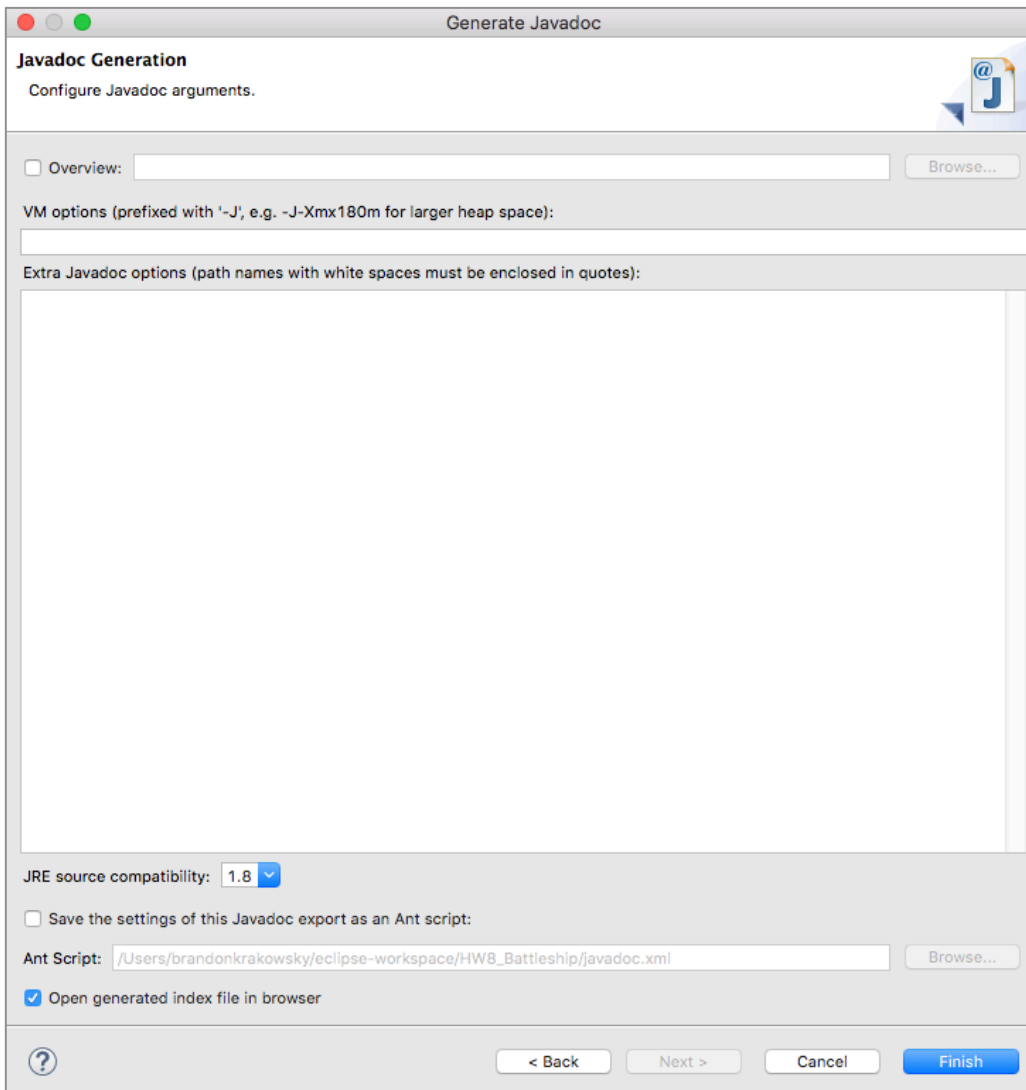
- ☐ charsets.jar - <https://docs.oracle.com/javase/8/docs/api/>
- ☐ cldrdata.jar - not configured
- ☐ dnsns.jar - not configured
- ☐ HW8_Battleship - file:/Users/brandonkrakowsky/eclipse-workspace/HW8_Battleship/doc/
- ☐ jce.jar - <https://docs.oracle.com/javase/8/docs/api/>
- ☐ jfr.jar - <https://docs.oracle.com/javase/8/docs/api/>
- ☐ jfxrt.jar - <http://docs.oracle.com/javase/8/javafx/api/>
- ☐ jsse.jar - <https://docs.oracle.com/javase/8/docs/api/>
- ☐ junit.jar - <http://junit.org/junit4/javadoc/latest/>
- ☐ localedata.jar - not configured
- ☐ MRJToolkit.jar - not configured
- ☐ nashorn.jar - not configured
- ☐ org.apiguardian_1.0.0.v20170910-2246.jar - <https://apiguardian-team.github.io/apiguardian/docs/curr>

☐ Style sheet:

Configure Javadoc arguments for standard doclet

- These should all be default

Generating Javadocs




The screenshot shows the 'Generate Javadoc' dialog box with the following fields and options:

- Javadoc Generation**: Configure Javadoc arguments.
- ☐ Overview: [text field] Browse...
- VM options (prefixed with '-J', e.g. -J-Xmx180m for larger heap space): [text field]
- Extra Javadoc options (path names with white spaces must be enclosed in quotes): [large text area]
- JRE source compatibility: 1.8 [dropdown]
- ☐ Save the settings of this Javadoc export as an Ant script:
- Ant Script: [/Users/brandonkrakowsky/eclipse-workspace/HW8_Battleship/javadoc.xml] Browse...
- ☒ Open generated index file in browser
- Buttons: ? < Back Next > Cancel Finish

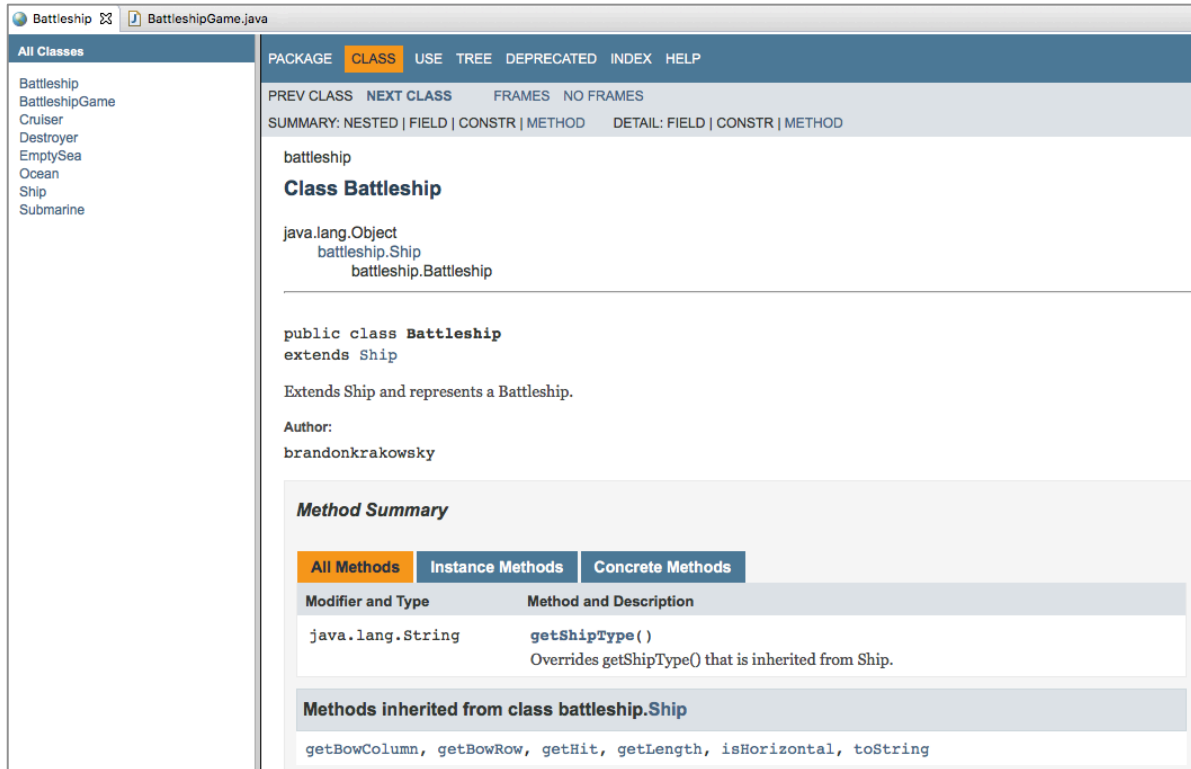
Check “Open generated index file in browser”

Generating Javadocs

```
Console 
<terminated> Javadoc Generation
Generating /Users/brandonkrakowsky/eclipse-workspace/HW8_Battleship/doc/index-files/index-8.html...
Generating /Users/brandonkrakowsky/eclipse-workspace/HW8_Battleship/doc/index-files/index-9.html...
Generating /Users/brandonkrakowsky/eclipse-workspace/HW8_Battleship/doc/index-files/index-10.html...
Generating /Users/brandonkrakowsky/eclipse-workspace/HW8_Battleship/doc/deprecated-list.html...
Building index for all classes...
Generating /Users/brandonkrakowsky/eclipse-workspace/HW8_Battleship/doc/allclasses-frame.html...
Generating /Users/brandonkrakowsky/eclipse-workspace/HW8_Battleship/doc/allclasses-noframe.html...
Generating /Users/brandonkrakowsky/eclipse-workspace/HW8_Battleship/doc/index.html...
Generating /Users/brandonkrakowsky/eclipse-workspace/HW8_Battleship/doc/help-doc.html...
```

You'll see it working in the console ...

Generating Javadocs



The screenshot shows a web browser window displaying the Javadoc for the `Battleship` class. The browser's address bar shows the file path `BattleshipGame.java`. The page layout includes a sidebar on the left with a list of classes: `Battleship`, `BattleshipGame`, `Cruiser`, `Destroyer`, `EmptySea`, `Ocean`, `Ship`, and `Submarine`. The main content area has a top navigation bar with tabs: `PACKAGE`, `CLASS` (selected), `USE`, `TREE`, `DEPRECATED`, `INDEX`, and `HELP`. Below this, there are links for `PREV CLASS`, `NEXT CLASS`, `FRAMES`, and `NO FRAMES`. The main content area displays the class hierarchy: `java.lang.Object`, `battleship.Ship`, and `battleship.Battleship`. The source code for the `Battleship` class is shown, including the `public class Battleship` declaration, the `extends Ship` statement, and a comment: "Extends Ship and represents a Battleship." The author is listed as `brandonkrakowsky`. Below the source code, there is a **Method Summary** section with three tabs: `All Methods` (selected), `Instance Methods`, and `Concrete Methods`. A table lists the methods, showing the `getShipType()` method, which overrides the one in `Ship`. The table also lists methods inherited from the `Ship` class: `getBowColumn`, `getBowRow`, `getHit`, `getLength`, `isHorizontal`, and `toString`.

```
public class Battleship
extends Ship

Extends Ship and represents a Battleship.

Author:
brandonkrakowsky
```

Modifier and Type	Method and Description
<code>java.lang.String</code>	<code>getShipType()</code> Overrides <code>getShipType()</code> that is inherited from <code>Ship</code> .

Methods inherited from class `battleship.Ship`

`getBowColumn`, `getBowRow`, `getHit`, `getLength`, `isHorizontal`, `toString`

The generated Javadoc HTML pages will open in your browser, allowing you to easily navigate the documentation