

Lesson 18: Java Style and Syntax #2 (W05D4)

Balboa High School

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September 16, 2015

Do Now

- Open up your Lesson17 project from last class and import the `MovingDisk.java` source you worked on for HW.
- Work with classmates to fix any remaining errors!

Students will learn how to use Javadoc to create APIs for their classes, as well as how to read APIs for Java library classes.

Questions so far?

What questions do you have so far about the Java style and syntax reading you've done?

Let's Revisit Box

- Open up the source for the Box class from last class.
- How do *multi-line comments* work?
- Follow along as I add Javadoc-compliant comments. . .

Summary of Javadoc

- Place comments **above** class headers, method headers, or field variables
- Comments must appear within `/** ... */` tags
- Class comments: `@author`, `@version`
- Method comments: `@param`, `@return`
- Run Javadoc: `javadoc <className>.java`¹

¹To show private fields and class info, run this:

```
javadoc -private -author -version ../Box.java
```

Reverse the Process

- We took code we understood and produced an API document
- It's even more useful to be the *consumer* of such a doc — we can read APIs to learn how to use others' classes!

Tour of Online API Collections

On the [APCS Resources page](#) of the course website, you'll find links to:

- The Oracle Java API site
- The AP Subset of the Java APIs

- Start working on §4 of PS #3, which is related to javadoc.
- When you reach §4.3, see examples [here](#) of good and bad Javadoc comments.

Finish §§1—3 of PS #3. If you have time, continue making progress on §4.