

Javadocs and UML



Colorado State University

Department of Computer Science

Slides Originally Created by Marcia Moraes (marcia.moraes@colostate.edu)

Announcements

- Reminder – readings are due **before** lecture
- Office Hours/Student Hours and Help Desks
 - Go to them! They make a difference
- **This week – Exam Module**
 - **You need to work to have this module open so you can do your Exams**
 - **Catch up if you are behind!**
 - **Ask for help, if you need! Don't hesitate to reach out!**
 - **TAs and myself are here to help you to succeed in this course!**
 - **Don't procrastinate!**



<https://jefmenguin.com/procrastination/>

Javadoc

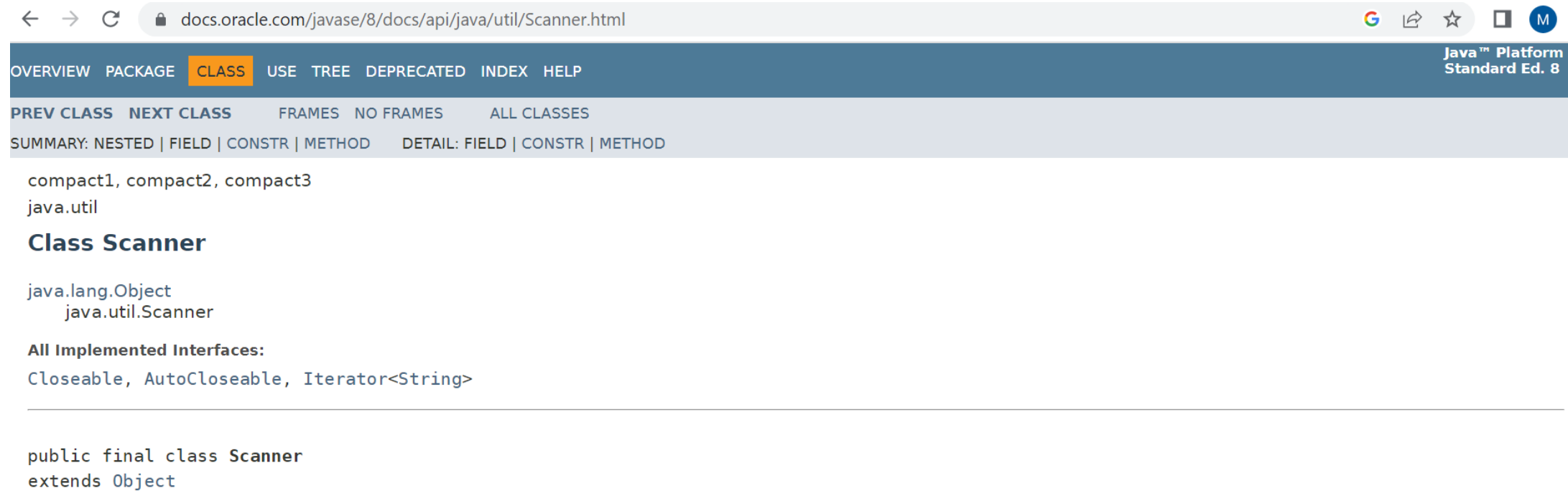
- Parses source code along with specially formatted comments to generate documentation.
- The documentation generated is known as an API (Application Programming Interface).
- Start with `/**` <enter>
- You will have
- `/**`
- `*`
- `*/`

Common block tags used in Javadoc comments.

Block tag	Compatibility	Description
@author	classes	Used to specify an author.
@version	classes	Used to specify a version number.
@param	methods, constructors	Used to describe a parameter.
@return	methods	Used to describe the value or object returned by the method.
@see	all	Used to refer reader to relevant websites or class members.

Javadoc

- <https://docs.oracle.com/javase/8/docs/api/java/util/Scanner.html>

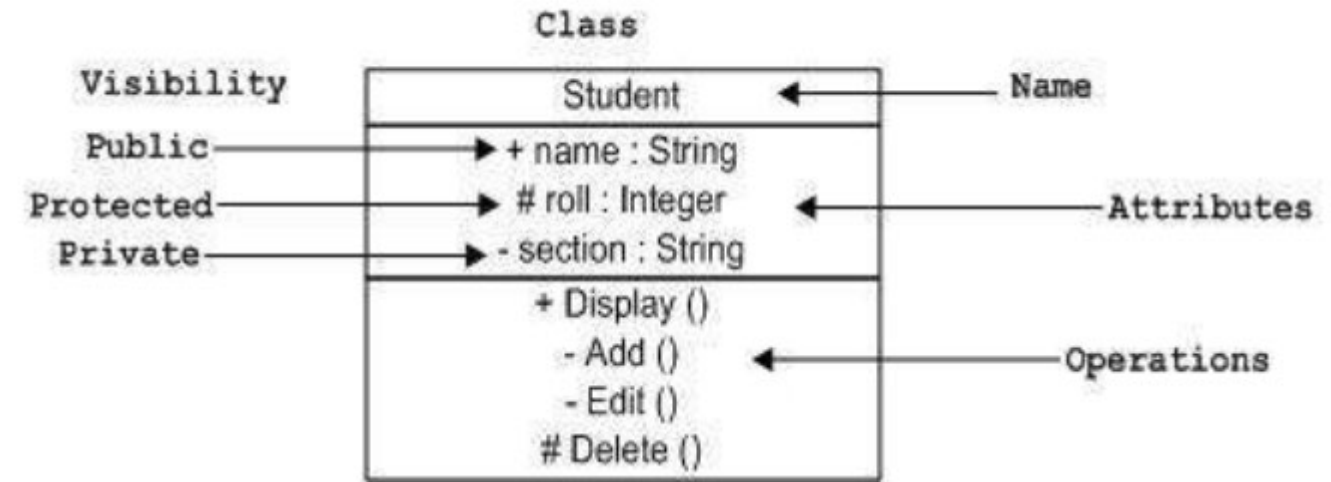


The screenshot shows the Javadoc page for the `java.util.Scanner` class. The browser address bar displays the URL `docs.oracle.com/javase/8/docs/api/java/util/Scanner.html`. The page header includes navigation links: OVERVIEW, PACKAGE, CLASS (highlighted), USE, TREE, DEPRECATED, INDEX, and HELP. The right side of the header indicates the version: Java™ Platform Standard Ed. 8. Below the header, there are links for PREV CLASS, NEXT CLASS, FRAMES, NO FRAMES, and ALL CLASSES. The main content area shows the class hierarchy: `compact1, compact2, compact3` and `java.util`. The class name **Class Scanner** is prominently displayed. Below it, the inheritance path is shown: `java.lang.Object` and `java.util.Scanner`. The section **All Implemented Interfaces:** lists `Closeable, AutoCloseable, Iterator<String>`. At the bottom, the class declaration is shown: `public final class Scanner` and `extends Object`.

UML

- UML (Unified Modeling Language)
 - is a standard language for specifying, visualizing, constructing, and documenting the artifacts of software systems

- Class Notation – Basics
 - Diagram is divided into three parts.
 - The top section is used to name the class.
 - The second one is used to show the attributes of the class.
 - The third section is used to describe the operations/methods performed by the class.



Worksheet

- Attendance for today's class will be a worksheet
- Each table will receive a worksheet
- Remember to write the name of all participants in your table in a legible way 😊