

# JAVA FSD - REFERENCES and CHEATSHEETS

## CORE JAVA

**\*\*JAVA CHEATSHEET\*\***

### JAVA BASICS

- [How to create, build and run a Java Hello World program with Eclipse](#)
- [Variables | Primitive Datatypes | Data Types | Conversions and Promotions | Operators](#)
- [if-then-else Statements | for Statement | switch Statement](#)
- [Arrays | Declare an array of arrays](#)

### OOPS

- [Declaring Classes | Defining Methods](#)
- [Controlling Access to Members of a Class](#)
- [Constructor | Initializing Fields | static](#)
- [Enums | Enum Types](#)
- [Inheritance | Polymorphism](#)
- [Class Object](#)
- [Abstract Methods and Classes | Interfaces](#)

### UTILITY CLASSES

- [Autoboxing and Unboxing](#)
- [Java StringBuilder | StringBuffer in Java](#)
- [Date Classes | Instant Class | Period and Duration | Temporal Adjuster](#)
- [Concepts of TDD in detail](#)

### EXCEPTION HANDLING

- [Exceptions](#)
- [Specifying the Exceptions Thrown by a Method](#)
- [How to Throw Exceptions](#)

### COLLECTIONS

- [Introduction to Collections | Collections Framework Overview](#)
- [Generic Types](#)
- [The List Interface](#)
- [The 4 Methods for Iterating Collections in Java](#)
- [Object Ordering](#)
- [The Set Interface](#)
- [Map Interface](#)
- [The Queue Interface](#)

### JAVA 8 FEATURES

- [Functional Programming in Java](#)
- [Functional Interfaces and Lambda](#)
- [Java Streams](#)

### JAVA CHEATSHEETS

- [Cheatsheet-1](#)
- [Cheatsheet-2](#)

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## WEB PROGRAMMING

### HTML

**\*\*HTML CHEATSHEET\*\***

- [HTML Basics](#)
- [HTML Structuring the web](#)

### CSS

**\*\*CSS CHEATSHEET\*\***

- [CSS basics](#)
- [Adding Fonts](#) | [Styling Text - Fundamental text and font styling](#)
- [CSS values and units](#)
- [CSS Specificity](#)
- [Deep understanding on CSS selectors](#)
- [Adding Images to Web Documents](#)
- [CSS Flexbox](#) | [CSS Grid](#)
- [ChromeDev Tools](#)
- [Using Media Queries](#)

### BOOTSTRAP

- [Getting Started with Bootstrap](#)
- [Layout using BootStrap](#)

## JAVASCRIPT

**\*\*JAVASCRIPT CHEATSHEET\*\***

### JAVASCRIPT BASICS

- [What is JavaScript?](#)
- [Variables, Data types and Literals](#)
- [Control Flow, Loops and iterations](#)

### ARRAYS, FUNCTIONS, OBJECTS AND DOM

- [Working with arrays](#)
- [Functions](#) | [Self-invoking Functions](#)
- [Working with Object](#) | [Prototypes and Inheritance](#)
- [Working with JSON](#)
- [Working with String](#) | [Working with Numbers](#)
- [JavaScript Document Object Model \(DOM\) and Events](#)

### ES6

- [Moving Towards ES6](#)
- [Introducing asynchronous JavaScript](#)
- [JavaScript Asynchronous Programming](#)
- [Fetch API](#)
- [Using the Fetch API](#)
- [Fetch API Introduction](#)

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## ANGULAR

**\*\*ANGULAR CHEATSHEET\*\***

### TYPESCRIPT

- [Short read on basics of Typescript](#)
- [Why use Typescript in Angular](#)

### SPA

- [Why people like SPAs](#)
- [Angular Single Page Applications \(SPA\): What are the Benefits?](#)
- [Modern vs Traditional Web Development](#)
- [Single Page Applications vs Multiple Page Applications — Do You Really Need an SPA?](#)

### ANGULAR ARCHITECTURE AND BASICS

- [Introduction to the Angular Docs](#)
- [Angular Architecture Overview](#)
- [Introduction to Angular concepts](#)
- [Create a feature component](#)
- [Introduction to components and templates](#)
- [Angular Architecture - Smart Components vs Presentational Components](#)
- [Interpolation and template expressions](#)
- [Interpolation vs Property Binding`](#)
- [Angular.io](#)

### DIRECTIVES

- [Directives in Angular](#)
- [\\*ngIf Directive in Angular](#)
- [NgSwitch Directive in Angular](#)
- [NgSwitch Directives](#)
- [\\*ngFor Directive in Angular](#)
- [Angular Attribute Directives: A Practical Approach](#)
- [Building Custom Directives in Angular](#)
- [Using @HostBinding and @HostListener in Custom Angular Directives](#)

### COMPONENT INTERACTION

- [Angular: Component interaction with @Input, @Output and EventEmitter](#)
- [Component Interaction with Outputs in Angular](#)
- [Component Interaction with Inputs in Angular](#)
- [Animated Playground for RxJS](#)

### SERVICES

- [Introduction to Services and Dependency Injection](#)
- [Dependency injection in Angular](#)

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### REST CALLS TO API'S

- [Introduction to Angular' s HttpClient](#)
- [Introduction to Observables in Reactive Programming](#)
- [Angular HTTP Client- QuickStart Guide](#)
- [Introduction to RxJs Observables](#)
- [Differences between Observer and Behaviour Subject](#)

### FORM HANDLING

- [Overview of Forms in Angular](#)
- [Quick Introduction to Template-Driven Forms in Angular](#)
- [Reactive Forms with Angular](#)
- [Reactive Forms in Angular: Listening for Changes](#)
- [Reactive Forms in Angular: Dynamically Creating Form Fields with FormArray](#)
- [Reactive Forms in Angular: Creating a Custom Validator](#)

### ROUTING

- [Common Routing Tasks](#)
- [A Complete Guide to Routing In Angular](#)
- [Angular Authentication: Using Route Guards](#)
- [Protecting Routes Using Guards in Angular](#)
- [Using Route Guards](#)

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## SPRING FRAMEWORK

**\*\*SPRING CORE CHEATSHEET\*\***

- [Dependency Injection](#)
- [Spring Java based configuration](#)
- [Annotation-based Container Configuration](#)
- [Integrate Spring with Hibernate Using Class Configuration](#)

## SPRING BOOT

**\*\*BOOT CHEATSHEET\*\***

- [Building an Application with Spring Boot](#)
- [Building REST services with Spring](#)
- [Building a RESTful Web Service](#)
- [Spring Data JPA | Query Methods | Accessing data with MySQL | Accessing Data with JPA](#)
- [MongoDB CRUD Operations | Accessing Data with MongoDB](#)
- [Managing Transactions](#)
- [Securing Spring Boot Microservices Using JWT Token](#)
- [Consuming a RESTful Web Service](#)
- [Testing the Web Layer](#)
- [Spring Security and Angular](#)
- [Metrics and Tracing with Spring](#)
- [Boot Swagger](#)

## MICROSERVICES

- [Introduction to Microservices](#)
- [Building a Gateway](#)
- [Centralized Configuration](#)
- [Service Registration and Discovery](#)

## CONTINUOUS INTEGRATION

- [Continuous Integration](#)
- [7-reasons-why-you-should-be-using-ci](#)
- [Continuous Integration](#)

## DOCKER

**\*\*DOCKER CHEATSHEET\*\***

- [Docker Overview](#)
- [Containerization Samples](#)