

Java Full Stack

HTML Syllabus

- HTML Basics And History
- HTML Setup and Hello Program
- HTML Heading Tag
- HTML Tags
- HTML Input and Label
- HTML Radio Button and Check Box
- HTML Button
- HTML File, Textarea and Select Tag
- HTML List
- HTML Image
- HTML Table



CSS Syllabus

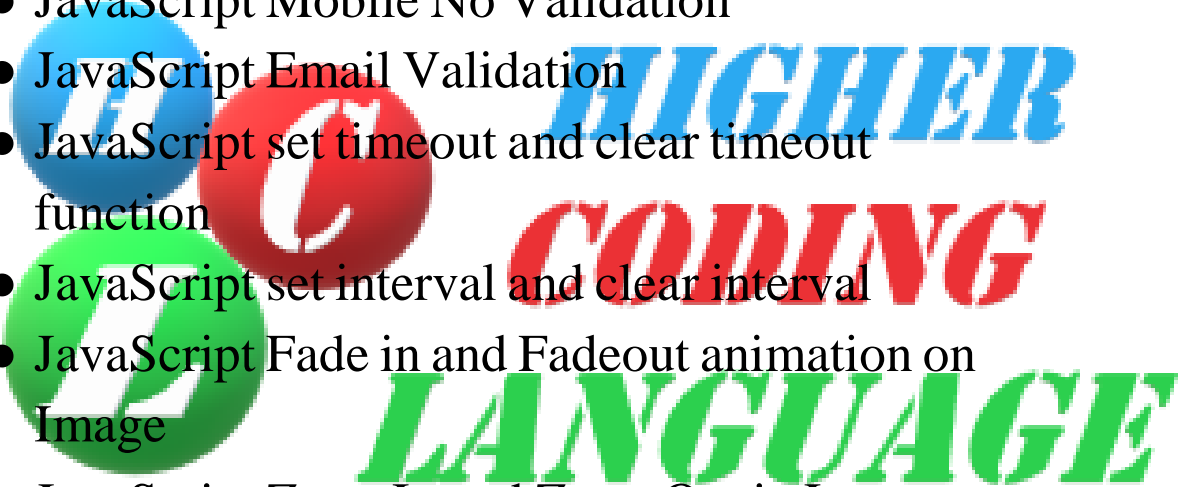
- CSS Basics
- CSS Inline and Internal Online
- CSS External CSS
- CSS Div Example
- CSS Background Properties
- CSS Border Properties
- CSS Font Properties
- CSS List Style Properties
- CSS Margin And padding
- CSS Text Properties
- CSS Sudo Classes
- CSS Outline



JavaScript Syllabus

- JavaScript Introduction
- JavaScript Parts Of Web Development
- JavaScript Setup
- JavaScript Hello Program
- JavaScript Data Types
- JavaScript Operators
- JavaScript Arithmetic Operation
- JavaScript Types of Statement
- JavaScript if-else Statement
- JavaScript Ladder if else Statement
- JavaScript Switch case Statement
- JavaScript do While loop
- JavaScript While loop
- JavaScript for loop
- JavaScript Function Introduction
- JavaScript Function Types
- JavaScript Global and Local Variable
- JavaScript Array
- JavaScript Class Object
- JavaScript Constructor
- JavaScript Dynamic Object

- JavaScript Button Click Event
- JavaScript Textbox
- JavaScript Radio Button
- JavaScript Dropdown List
- JavaScript getElementByTagName
- JavaScript getElementsByClassName
- JavaScript onmouseover & onmouseout Event
- JavaScript Validation
- JavaScript Regular Expression
- JavaScript Mobile No Validation
- JavaScript Email Validation
- JavaScript set timeout and clear timeout function
- JavaScript set interval and clear interval
- JavaScript Fade in and Fadeout animation on Image
- JavaScript ZoomIn and ZoomOut in Image



JQuery Syllabus

jQuery Introduction

jQuery Setup

jQuery Selectors

jQuery With CSS

jQuery Advanced Selectors

jQuery Events

jQuery single Click and Double Click

jQuery Hide and Show Effects

jQuery Keyboard Events

jQuery Mouse Events

jQuery Focus and Blur Events

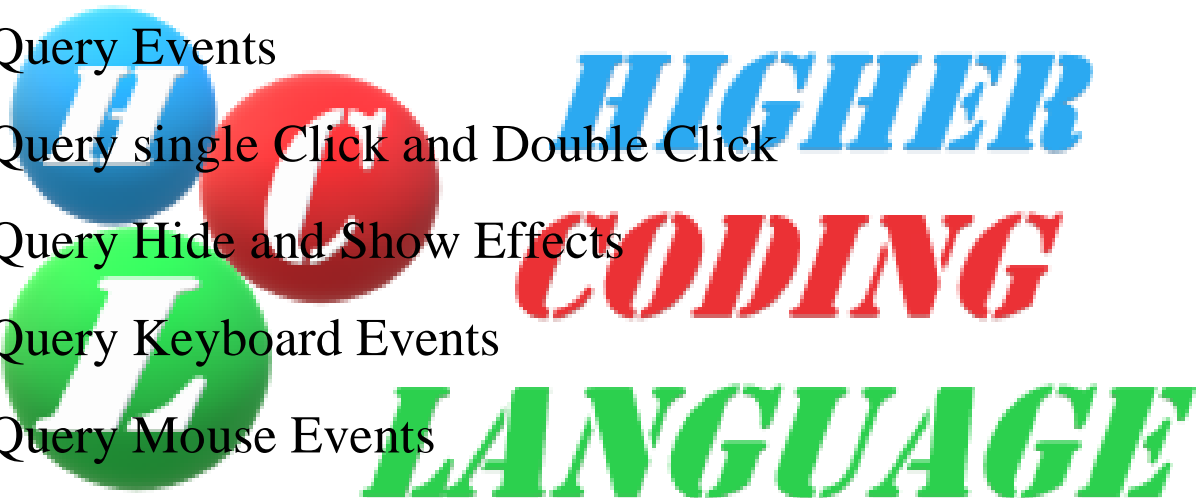
jQuery Toggle Effects

jQuery Slider Effects

jQuery fade-in and Fadeout

jQuery Calendar

jQuery Calendar min and max date



jQuery Animation

jQuery popup

jQuery Validation



Bootstrap Syllabus

bootstrap Introduction

bootstrap Setup Manually

bootstrap Setup with CDN

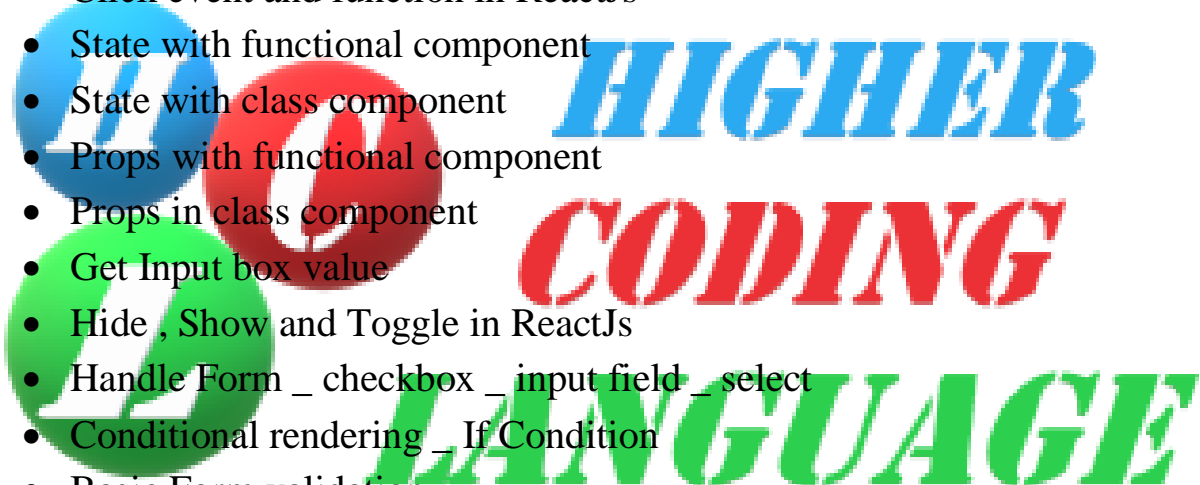
bootstrap lib customization

bootstrap Website



React JS Syllabus

- React Introduction
- Environment up with Windows
- Hello world
- File and folder structure
- Package.json in Details
- functional Component
- Class Component
- JSX with Reactjs
- Click event and function in ReactJs
- State with functional component
- State with class component
- Props with functional component
- Props in class component
- Get Input box value
- Hide , Show and Toggle in ReactJs
- Handle Form _ checkbox _ input field _ select
- Conditional rendering _ If Condition
- Basic Form validation
- What is life cycle method
- Constructor _ First life cycle method
- Render life cycle method
- componentDidMount lifecycle method in ReactJs
- componentDidUpdate life cycle method in ReactJs
- shouldComponentUpdate life cycle method
- componentWillUnmount life cycle method
- Hooks in ReactJs
- useEffect Hook in ReactJs
- useEffect with condition like component did mount
- style in ReactJs



- Install Bootstrap
- Array Listing with Map function
- List with Bootstrap Table
- Reuse component in loop
- fragment in ReactJs
- Send Data Child to Parent Component
- Pure component in ReactJs
- useMemo Hook
- Ref with Example
- useRef Hook example
- forwardRef example
- Controlled Component
- Uncontrolled Component
- Higher order component (HOC)
- Routing Setup
- Routing with Example
- Page Not Found - 404 Page
- Dynamic Routing
- fetch API _ GET method
- What is Postman in Hindi
- POST Method in Rest API
- Delete Method in React API
- Update Data with API _ Put Method

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Core Java Syllabus

1 Java Basics Introduction

- Programming Metrology
- Execution of a program
- C and C++ Program Execution
- Java Program Execution
- Feature Of java
- Difference Between C++ and Java
- Types Of java
- Java History

2 Java Virtual Machine Architecture

- Introduction of JVM
- JVM architecture
- Types of Memory
- Method area
- Heap area
- Java stack
- Java runtime stack
- Pc register
- Native method area

3 Java Identifiers and Keywords

- Introduction of java identifiers
- Introduction of java keyword

4 Java Data Types and literals

- Introduction of java data types
- Char data types
- Int data types
- Long data types
- Float data types

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- Double data types
- Boolean data types

5 Java Basic Programs

- Java Hello Program
- Java Arithmetic Operations

6 Java Coding Standards

- Coding standard for variable
- Coding standard for method
- Coding standard for class
- Coding standard for final variables
- Coding standard for interface

7 Control Flow

- Types of statements
- If else statements
- Switch statements
- Do while loop
- While loop
- For loop
- For each loop
- Differences in loops
- Infinite loop
- Nested loop
- Break and continue statement
- Return statement

8 Java Input output

- BufferedReader class
- InputStreamReader Class

9 Java StringTokenizer and scanner class

- Introduction of StringTokenizer class
- Introduction of Scanner class

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10 Java Arrays

- Array introduction
- One dimensional arrays
- Array length
- Sorting
- Searching
- Two dimensional arrays
- Multidimensional dimensional arrays
- Anonymous Array

11 Java Command line Arguments

- Java command line arguments introduction

12 Java String and its Methods

- String introduction
- String immutability
- String comparison
- equals()
- concat()
- contains()
- startsWith()
- endsWith()
- equalsIgnoreCase()
- isEmpty()
- length()
- replace()
- replaceAll()
- split()
- toString()
- trim()

13 Java StringBuffer and StringBuilder

- String mutability
- append()

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- reverse()
- Difference between String,Stringbuffer and StringBuilder

14 Java Var-arg Method

- Introduction of var arg method

15 Java Class and objects

- Introduction of class and objects
- Create class and objects
- Methods in class
- Initialize var by object
- Initialize var by parameterize method

16 Java Types of Variables

- Instance Variables
- Static variables
- Local variables

17 Java Constructor

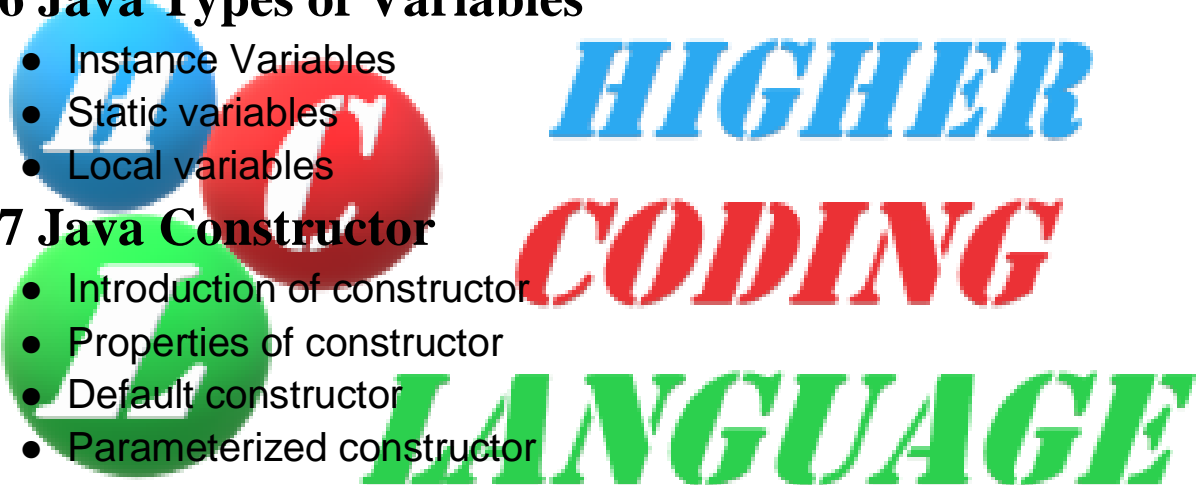
- Introduction of constructor
- Properties of constructor
- Default constructor
- Parameterized constructor

18 Java Method

- Method introductions
- Types of methods
- Types of user defined methods
- Static Method With Instance variable
- Static Method with static variable
- Static method
- Static block
- Factorial Using Recursion

19 Java Encapsulation and abstraction

- Introduction of encapsulation



- Introduction of abstraction

20 Java Inheritance

- Introduction of inheritance
- Types of inheritance
- Ambiguity problem in multiple inheritance
- Super and this keyword
- this() and super() Constructor
- Default Constructor of Super Class
- Parameterized Constructor of Super Class
- constructor chaining
- Singleton classes

21 Java polymorphisms

- Introduction of polymorphisms
- types of polymorphisms
- Compile time polymorphisms
- Runtime polymorphisms
- Method overloading
- Method overriding

22 Type casting

- Implicit type casting
- Explicitly type casting
- Winding In referenced Data type
- Narrowing in Reference data type
- New operator
- newInstance() operator

23 Java Abstract class

- Introduction of abstract class
- Properties of abstract class

24 Java Interface

- Introduction of interface
- Properties of interface

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- Multiple inheritance by interface
- Extends vs implementation
- Interface methods
- Interface variables
- Difference between normal class, abstract class and interface
- Anonymous inner class and lambda function
- Normal interface vs functional interface vs marker interface

25 Java Package

- Introduction of package
- Types of package
- User defined package

26 Java Access Specifiers

- Public access specifier
- Private access specifier
- Protected access specifier
- Default access specifier
- Final keyword

27 Java Exception Handling

- Types of errors
- Introduction of Exception
- Exception handling using try, catch and finally
- Difference between final, finally and finalize()
- Multiple catch block
- Throws keyword
- Checked exceptions
- Throw keyword

28 Java Thread

- Introduction of thread
- Application of thread
- Main thread
- Create thread by Thread class

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- Difference between start() and run()
- Multi threading by Thread class
- Create thread by Runnable Interface
- isAlive()
- Getting and setting thread name
- Thread Priority
- yield()
- join()
- sleep()
- interrupt()
- Thread synchronization block
- Demon Thread
- Thread Group
- Thread pools

29 Java Collection Framework

- Collection framework introduction
- Limitation of array
- Generics
- List interface
- ArrayList Class
- LinkedList Class
- Vector Class
- Stack Class
- Queue Interface
- PriorityQueue Class
- Set interface
- Difference between List and Set
- HashSet Class
- LinkedHashSet Class
- SortedSet Interface
- TreeSet Class
- Iterator

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- Iterator And ListIterator
- Collections Class
- Java map Interface
- HashMap class
- LinkedHashMap class
- SortedMap Interface
- TreeMap class
- Hashtable
- Comparable and Comparator
- Difference between Comparable and Comparator
- difference between hashmap and hashtable
- Properties file

30 Java Files and Wrapper classes

- Introduction of files
- Create file and write data
- Read data from file
- Introduction of wrapper class
- Autoboxing
- unboxing

31 Java Inner classes

- Introduction of Inner class
- Types of inner classes
- Nesting inner classes
- Normal or regular inner class
- Anonymous inner class
- Static nested classes

32 Java Object class

- Object Class Introduction
- Methods of Object class
- toString()
- equals()

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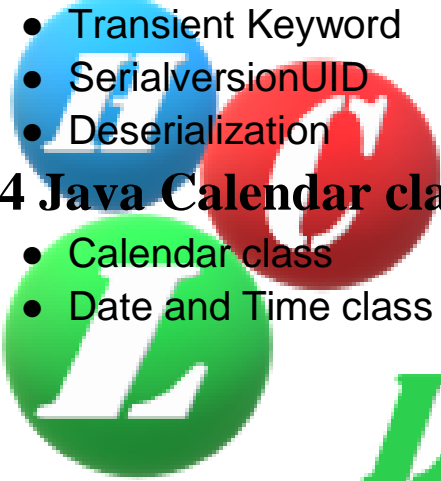
- hashCode()
- clone()
- finalize()
- Garbage collector
- wait()
- Notify and notifyAll()
- SCP pool
- Shallow and deep cloning
- Types of Java Object Creation

33 Java serialization and deserialization

- Introduction of serialization
- Transient Keyword
- Serializable
- Deserialization

34 Java Calendar class

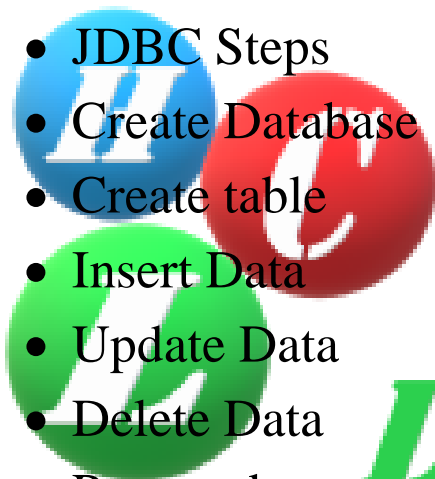
- Calendar class
- Date and Time class



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JSBC Syllabus

- JDBC Introduction
- MVC Architecture
- JDBC Architecture
- Types of Driver
- JDBC ODBC Driver
- Native Driver
- Network Driver
- Pure or Thin Driver
- JDBC Steps
- Create Database
- Create table
- Insert Data
- Update Data
- Delete Data
- Prepared statement



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JSP & Servlet Syllabus

- Client Server Architecture
- Servlet Introduction
- Servlet Directory Structure
- Servlet interface & its Methods
- GenericServlet abstract class & its Methods
- HttpServlet abstract class & its Methods
- Server Setup Create Servlet
- Servlet Life Cycle
- Get,Post,Put and Delete methods
- Calling Servlet by Servlet
- RequestDispatcher and Send Redirect
- Http Session
- Cookies
- ServletContext and ServletConfig
- Servlet Annotation
- JSP Introduction
- JSP Tag
- JSP inbuilt Objects
- Exception handling in JSP
- JDBC in JSP
- JSTL
- JSTL Function
- Servlet Filter
- Login Form Using Servlet & JSP and JDBC
- Servlet,JSP and JDBC with Maven

