WEB TRAINING

WELCOME

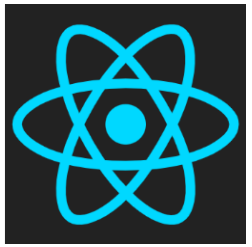
R Santosh Reddy

Course Structure

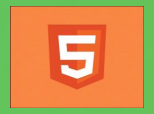
HTML and HTML5

CSS and CSS3

JavaScript



React



HTML and HTML5

Pre-requisites

1. Editor (Note Pad or Visual Studio code)
2. Any Browser

Topics

Introduction

Elements

Doctypes

Title Tag

Attributes (title, src, width, height, ...)

Global Attributes (title, class, id)

Headers (h1, h2, h3, h4, h5, h6)

Bold and Strong

Italic and Emphasis

Underline

Code comment

Links

Internal Links

Relative Links

Images

Block and Inline Elements

Div Elements

List

Table, Row and Cells

DOM

Inline CSS

Style Tag Internal CSS

External CSS (Link Tag)

Hr, Br, Code

Favicon

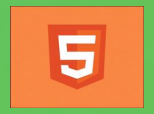
Entities (> ...)

Forms

Input

Textarea

buttons



HTML and HTML5

Topics

- Drop Down Menu
- Semantic elements
- Video
- Audio

CSS and CSS3

Topics

- Inline Styles
- Internal styles
- External Styles

Selectors

- element
- class
- id
- attribute
- **Combinators**
  - space ( )
  - child (>)
  - Sibling immediate(+)
  - general sibling(~)

Color

- name
- Rgb(Red Green Blue)
- rgba
- hexadecimal

Inheritance

Text formatting

- color
- background
- font-size
- text-align
- font-family
- font-style

FONTS

Generic
• Serif
• Sans-Serif
• Cursive
• Monospace
• Fantasy

Font	
Times New Roman	Georgia
Helvetica	Verdana
Brush Script	Mistral
Courier New	Lucida Bright

G I T

Git clone

Git status

Git add

Git commit

Git push

Git branch

Live Server

CSS and CSS3

Box Model

padding

border

Margin

Box-size

CSS and CSS3

Pseudo Class

a:link

a:visited

a:hover

a:active

:first-child

:last-child

:nth-child

Pseudo Elements

::first-letter

::before

::after

CSS and CSS3

Measurement units

- px
- em
- rem
- %
- vh
- vw

Positions

Static

Relative

Absolute

Fixed

Sticky

CSS and CSS3

- Overflow
- Float
- **Background**
  - Background-color
  - Background-image
  - Background-position
  - Background-size
  - Background-origin
  - Background-clip

- **Gradients**
  - Linear-gradient
- **Shadow**
  - Text-shadow
  - Box-shadow
- **Transition**
- **Transform**
- **Animations**
- **Rounded Corners**

CSS and CSS3

Flexbox

Flex Container

- Display
- Flex-direction
- Flex-wrap
- Flex-flow
- Justify-content
- Align-items
- Align-content

Flex Items

- Order
- Flex-grow
- Align-self

BOOT STRAP

WELCOME TO JAVASCRIPT

- Introduction
- Console.log
- var, let, const
- Data types
- Type conversion/coercion
- Math operators & Math Object
- String operations.
- Arrays and Array Methods

- Object literal
- Date and Times
- If else statements
- Switch
- Functions
- Loops
  - For
  - While
  - Do while
- Window Object
- Block Scope with let and const

DATA TYPES

Primitive types	Reference types
String	Objects
Number	Array
Boolean	Date
Null	Math
Undefined	
Symbol (Es6)	

TYPE CONVERSION

To String

- Explicit
  - String()
  - toString()
- Implicit (coercion)
  - 123 + ""

To Boolean

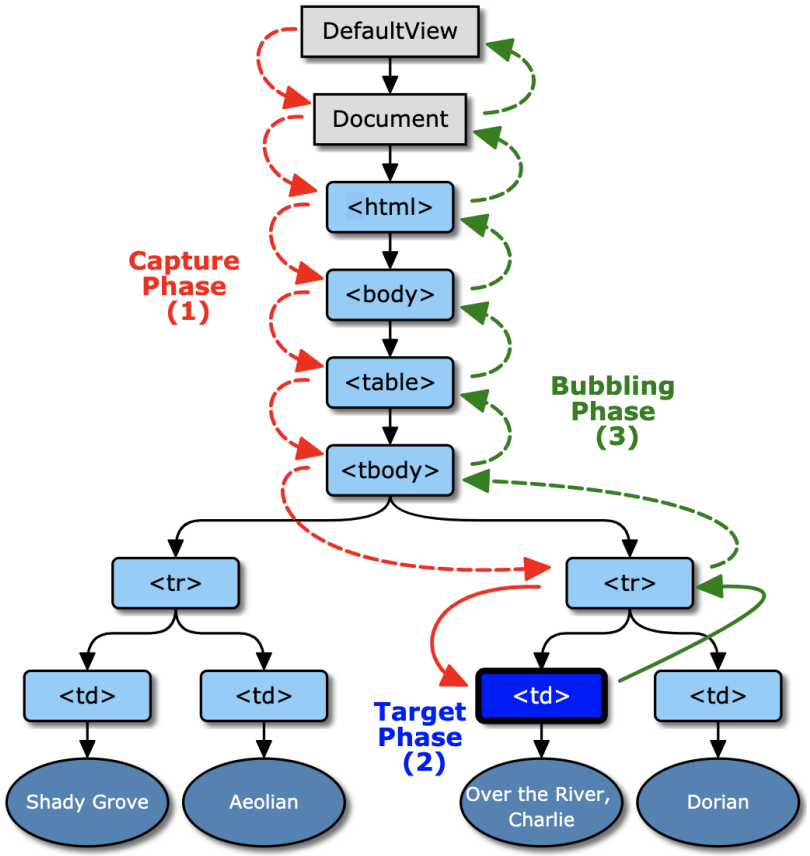
- Explicit
  - Boolean()
- Implicit
  - !!2
  - 2 || "hello"

To Number

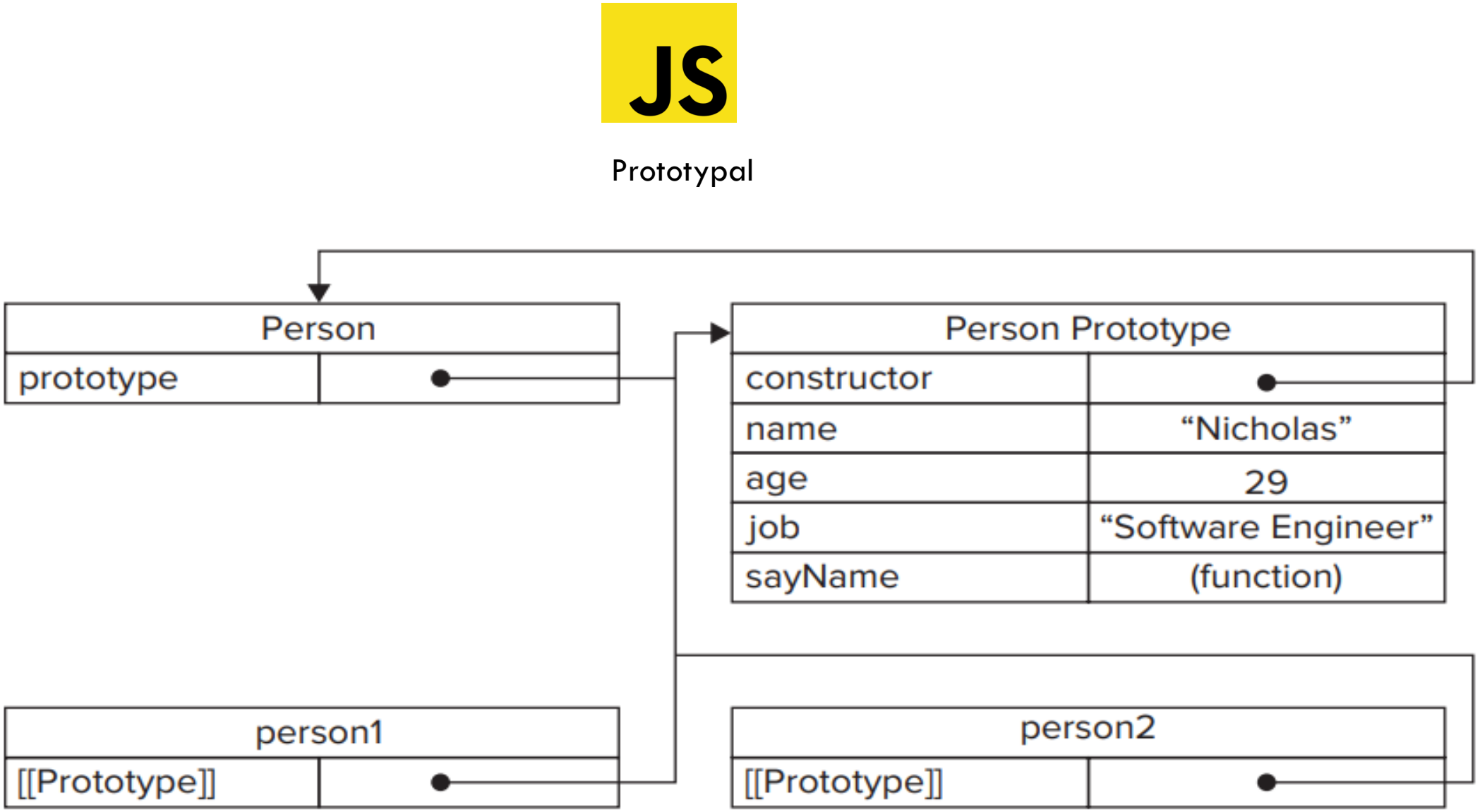
- Explicit
  - Number()
  - parseInt()
    parseFloat()
- Implicit
  - +"123"
  - 123 != '456'

- DOM-Document Object Model
- Traversing DOM
- Creating elements
- Removing elements
- Update Elements
- EventListener and Event Obj.
- Mouse events
- Key Events
- Event Bubbling and Delegation

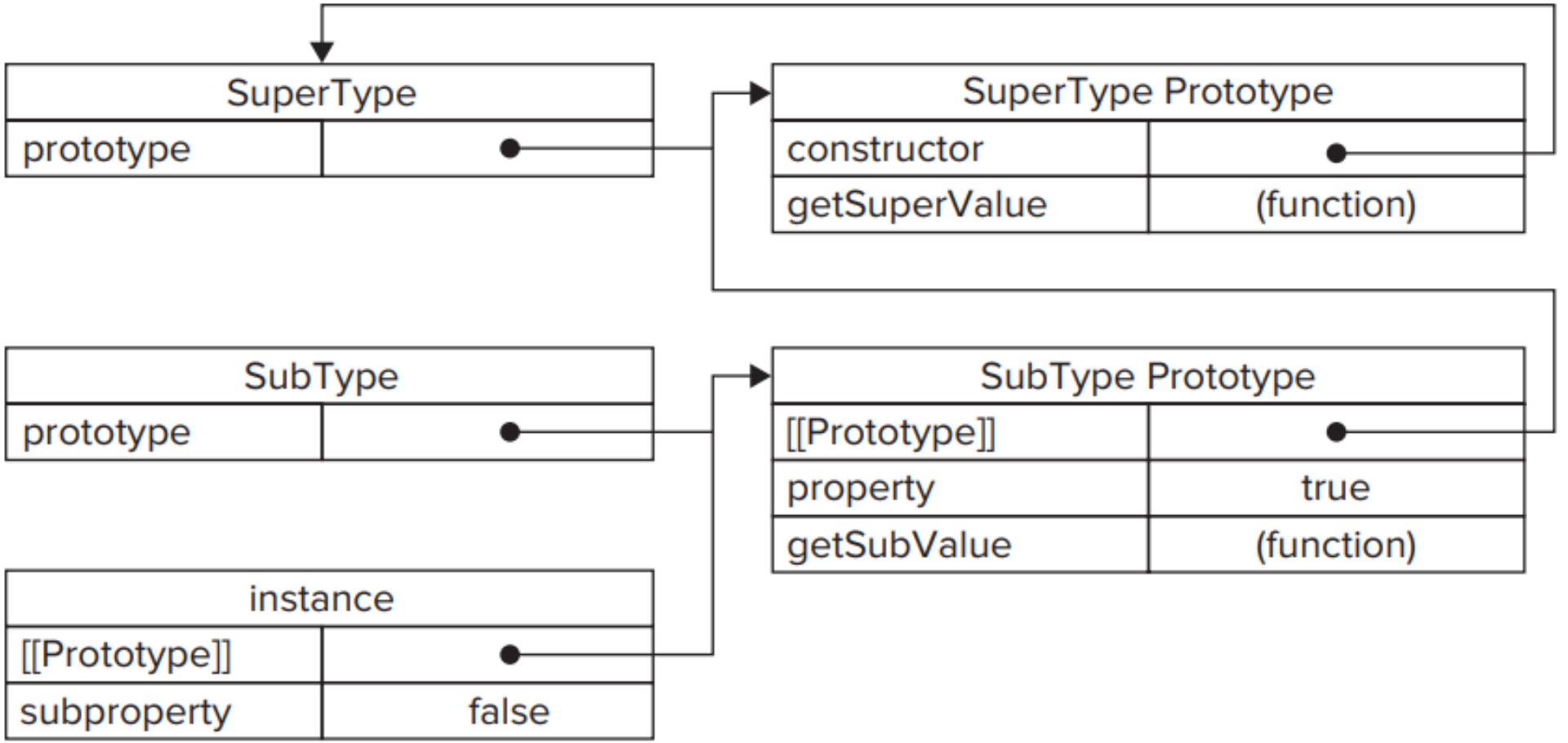
JS


DefaultView
Document
<html>
<body>
<table>
<tbody>
<tr>
<tr>
<td>
<td>
<td>
<td>
Shady Grove
Aeolian
Over the River, Charlie
Dorian
Capture Phase (1)
Bubbling Phase (3)
Target Phase (2)

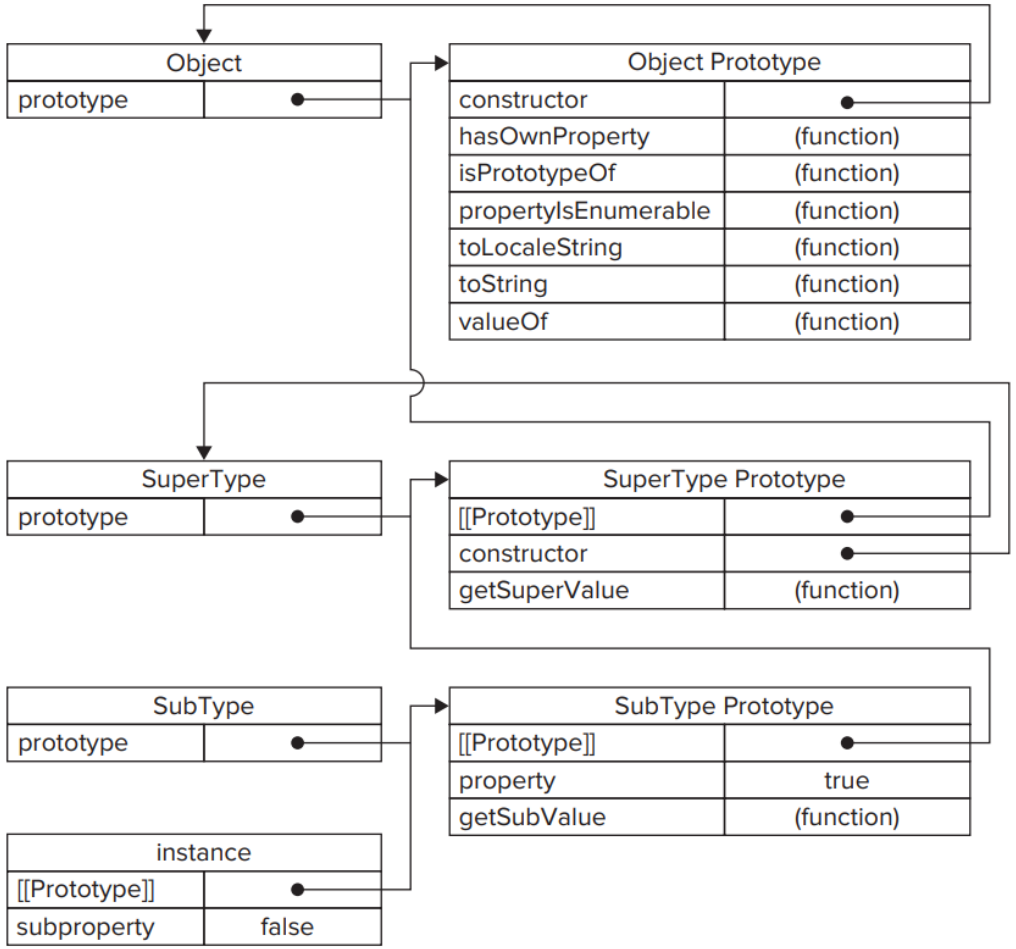
- Local and Session Storage
- OOPs
  - Constructor and This
  - Prototype
  - Inheritance
  - Object.create
- ES6 Classes
  - Arrow function
  - Spread and rest
  - Let const
  - Class
  - Promises
    - Async and await
  - String Literal
- Sub classes
- Ternary operator

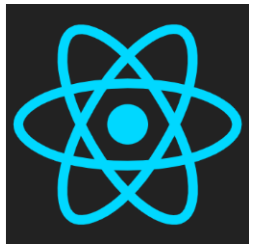

JS
Prototypal
Person
prototype
Person Prototype
constructor
name
“Nicholas”
age
29
job
“Software Engineer”
sayName
(function)
person1
[[Prototype]]
person2
[[Prototype]]

Prototypal Inheritance



Prototypal Inheritance





- What is React
- Alternatives :
  - Angular
  - Vue
- Setting up environment
  - node
- What are components
- JSX
- How React works
- Creating custom component

- Output dynamic data.