**JavaScript**

# DataTypes, Let,Const,Var, freez, JavaScript Template.

## **Number:** toString(),toExponential(),toFixed(),**toPrecision():** *returns a string, with a number written with a specified length,* **valueOf():** returns a number as a number, Number(),

parseFloat(),parseInt().

## **Array:** *Creating an Array,* push(), Pop(), shift(), unshift(), typeof, isArray, join(), delete, splice():to add new items to an array, concat(), slice(): out a piece of an array into a new array, sort(), reverse(), **Math.max()**, Math.max.apply to find the highest number in an array, **Math.min(),**Math.min.apply to find the lowest number in an array, find Min, find Max, forEach(), forIn(), map(), filter(), reduce(), reduceRight(), every(), some(), indexOf(), lastIndexOf(), includes(), find(), findIndex().

Function Statment ,Function Expression.

This,Call,Bind,Apply.

Clouse, Curry

Dynamic, Static, Event,Oops.

Array to Object, Object to Array, Iterate Object.

Shallow, Deep

**HTML**

**Elements:** everything from the start tag to the end tag.

## **Attributes:** provide **additional information** about elements.

Attributes usually come in name/value pairs like: **name="value".**

# Iframes: used to display a web page within a web page.

# <iframe src="*url*" title="description"></iframe>

**Emojis:** Emojis look like images, or icons, but they are not.

Emojis are also characters from the UTF-8 alphabet:

😄 is 128516

😍 is 128525

💗 is 128151

**<article> , <aside> , <figcaption> , <figure>, <header>, <footer>, <main>, <mark>, <nav>, <section>, <details>, summary>, <time>, <bdi>, <wbr>, <keygen>, <output>, <progress>.**

Graphical user interface, application

Description automatically generated

**CSS**

**list-style-type:** circle/ square/ upper-roman / lower-alpha;

**border-style:** dotted/ dashed/ solid/ double/ groove/ ridge/ inset/ outset/ none;

**border-width:** 5px/ medium/ solid;

**border-color:** red;

**border:** 2px solid red;  
**border-radius:** 5px;

**height:** auto/ %/ 100px;

**max-width:**

min-width:

**Box Model:** *box model is essentially a box that wraps around every HTML element. It consists of: margins, borders, padding, and the actual content.*

**Outside:** *is a line that is drawn around elements, OUTSIDE the borders, to make the element "stand out".*

**text-align:** center/ left/ right/ justify;

**text-align-last:** *right/ center/ justify;*

**vertical-align:** *baseline/ text-top/ text-bottom/ sub/ super;*

**text-decoration:** *none/ overline/ line-through/ underline;*

**text-transform:** *uppercase/ lowercase/ capitalize;*

**text-indent:** *50px;*

**letter-spacing:** *5px;*

**line-height:** *0.8;*

**word-spacing:** *10px;*

**white-space:** *nowrap;*

**text-shadow:** *2px 2px;*

**text-shadow:** *2px 2px red;*

**font-family:** *"Times New Roman", Times, serif;*

**font-size:** *60px* ***!important****;*

a:link/ visited/ hover/ active {  
  **color:** red;  
}

**position:** static/ relative/ fixed/ absolute/ sticky;

**z-index:** -1/1/3;

**overflow/ overflow-x/ overflow-y:** visible/ hidden/ scroll/ auto;

**float:** right/ none;

**display:** inline-block/ block/ table;

**opacity:** 0.5;

**counter-reset/ counter-increment:** section;

**Math:** calc(), max(),min().

**border-radius:** 25px;

**word-wrap:** break-word;

**word-break:** keep-all;

(2D) **transform:** translate(50px, 100px)/ rotate(20deg)/ scale(2, 3)/ scaleX(2)/ skewX(20deg)/ skew(20deg, 10deg)/ matrix(1, -0.3, 0, 1, 0, 0);

(3D) **transform:** rotateX(150deg)/ rotateY(150deg);

**transition:** width 2s/ width 2s, height 4s;

**transition-timing-function:** linear/ ease/ ease-in/ ease-out/ ease-in-out;

**transition-delay:** 1s;

**.tooltip** **.tooltiptext** {  
  top: -5px;  
  left: 105%;  
}

**object-fit:** cover/ contain/ fill/ none/ scale-down;

**object-position:** 80% 100%;

**resize:** horizontal/ vertical/ both/ none;

**box-sizing:** border-box;

**@media screen and (min-width: 480px)** {  
  body {  
    background-color: lightgreen;  
  }  
}

**Flexbox:** *Block/ Inline/ Table/ Positioned*

**display:** grid;

**grid-column:**1 / span 3;

**Nodejs**

Stream, Piping the Streams, Chaining the Streams

REPL Terminal

Callback

Event Loop

**Event Emitter:** addListener(event, listener), on(event, listener), once(event, listener), removeListener(event, listener), removeAllListeners([event]), setMaxListeners(n), listeners(event), emit(event, [arg1], [arg2], [...]),listenerCount(emitter, event)

Buffers

Child Processes

**cluster**

**Timers**

**Path**

**Reactjs**

**State,Props,Event,** [Lifecycle](https://reactjs.org/docs/state-and-lifecycle.html), [Conditional Rendering](https://reactjs.org/docs/conditional-rendering.html), [Forms](https://reactjs.org/docs/forms.html).

[Higher-Order Components](https://reactjs.org/docs/higher-order-components.html), [Uncontrolled Components](https://reactjs.org/docs/uncontrolled-components.html), [Controlled Components](https://reactjs.org/docs/uncontrolled-components.html).

**Checkbox, Dropdarn, Emoji, Events, Filter, Fizbuzz, Hover, Like, Loading, Models, Move Button, Pause, Progress, PureComponent, Radio, Random Number, Starts, Step Input, Validation.**

**Hooks, useState, useEffect, useReducer, useCallback, Custom hooks.**

**Redux**

**useState(), useDispatch()**

**Express**

Routes, Curd

**MongoDB**

Curd, find(), dindById(), insertOne(), insertMany(), Or, And,

**SQL**

*CREATE* *DATABASE* , CREATE TABLE , *DROP* *TABLE* , INSERT INTO.

Create Table Using Another Table

Add and Delete a column in a table

**MySQL Constraints:** [*UNIQUE*](https://www.w3schools.com/MySQL/mysql_unique.asp)*,* [*NOT NULL*](https://www.w3schools.com/MySQL/mysql_notnull.asp)*, PRIMARY KEY,* [*FOREIGN KEY*](https://www.w3schools.com/MySQL/mysql_foreignkey.asp)*,* [*CHECK*](https://www.w3schools.com/MySQL/mysql_check.asp)*,* [*DEFAULT*](https://www.w3schools.com/MySQL/mysql_default.asp)*,* [*CREATE INDEX*](https://www.w3schools.com/MySQL/mysql_create_index.asp)*.*

MySQL AUTO INCREMENT Field

MySQL Working With Dates

view create

Joins, Left Join, Right Join.

SELECT DISTINCT

Sorted Data Using ‘Order By’

Like

Between

Union.