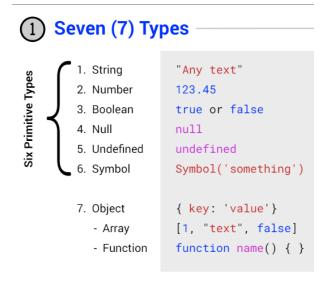
Phase 2nd

- 1. Proper Layout Structure
- 2. Firebase deployment
- 3. Team practice in GitHub
- 4. Responsive UI on every screen.
- 5. Increasing the speed of the website
- 6. Cumulative layout shift and SEO-friendly code.
- 7. Javascript Cheatsheet topics.

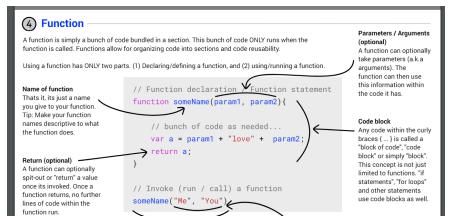
a. Data Types



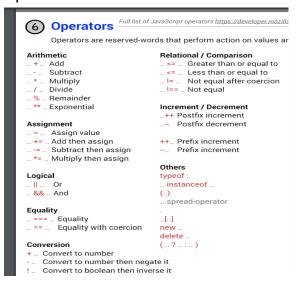
b. Objects



- c. Array
- d. Functions



e. Operators

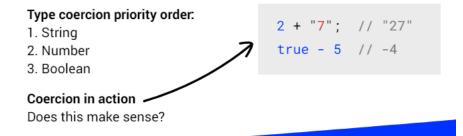


f. Coercion



Coercion

When trying to compare different "types", the JavaScript engine attempts to convert one type into another so it can compare the two values.



g. Conditional Statements.

8 Conditional Statements

Conditional statements allow our program to run specific code only if certain conditions are met. For instance, lets say we have a shopping app. We can tell our program to hide the "checkout" button if the shopping cart is empty.

If -else Statement: Run certain code, "if" a condition is met. If the condition is not met, the code in the "else" block is run (if available.)

```
if (a > 0) {
   // run this code
} else if (a < 0) {
   // run this code
} else {
   // run this code
}</pre>
```

Ternary Operator: A ternary operator returns the first value if the expression is truthy, or else returns the second value.

```
(expression)? ifTrue: ifFalse;
```

Switch Statement: Takes a single expression, and runs the code of the "case" where the expression matches. The "break" keyword is used to end the switch statement.

```
switch (expression) {
  case choice1:
    // run this code
    break;

  case choice1:
    // run this code
    break;

  default:
    // run this code
}
```

h. Loops

For loop

```
for (initial-expression; condition; second-expression){
  // run this code in block
}
```

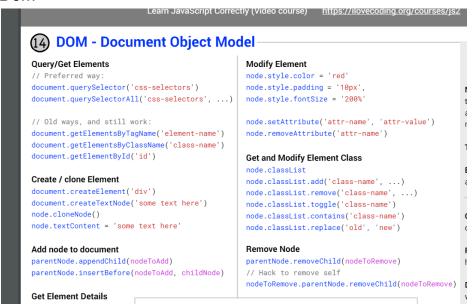
While loop

```
while (i<3){
// run this code in block
i++;
}
```

Do while loop

```
do {
  // run this code in block
  i++;
} while (i<3);</pre>
```

i. Dom



j. Array method

CI LICO

```
Array
  const thing = "some text";
                                       const num = 123.45;
                                                                          Google 'Mozilla Array' to find the docs
                                                                           .filter()
                                                                           .map()
Google 'Mozilla String' to find the docs
                                     Google 'Mozilla Number' to find the docs
                                                                           .find()
.concat()
                                     .toFixed()
                                                                           .every()
.charAt()
                                     .toPrecision()
                                                                          .some()
.indexOf()
                                     .toString()
                                                                           .sort()
.startsWith()
                                                                           .slice()
.endsWith()
                                     Boolean
                                                                          .splice()
.split()
                                     Google 'Mozilla Boolean' to find the docs
                                                                          .reduce()
.slice()
                                                                          .forEach()
                                     .toString()
```

 $Full \ list of huiltin objects in \ lavaScrint \ visit \ httns://developer.mozilla.org/en-US/docs/Weh/\ lavaScrint/Reference/Global.\ Objects$

k. Promise

```
// (A) Create a promise
                                                                     // (B) Using a promise
const p = new Promise((resolve, reject)=>{
                                                                     p.then((res)=>{
  // Do some async task
                                                                       console.log(res)
  setTimeout(()=>{
    if(condition){
                                                                     .catch((err)=>{
       resolve('Successful login');
                                                                       console.log(err)
     } else {
        reject('Login failed');
                                                                 Note: 90% of the time you will be working with pre-existing
                                                                 promises. The step of "Creating a promise" would be done for you either by a library, framework or environment you are using. Examples of promises: fetch
  }, 2000)
})
```

I. Constructor.

```
// Defining a Constructor
function Car(make, model, year) {
    this.make = make;
    this.model = model;
    this.year = year;

    this.setMiles = function(miles) {
        this.miles = miles
        return miles;
    }
}

// Using a constructor
const car1 = new Car('Toyota', 'Prius', 2016);
const car2 = new Car('Hyundai', 'Sonata', 2018);

// Adding method to the constructor prototype
Car.prototype.age = function() {
        return (new Date()).getFullYear() - this.year;
}
```

After the cheat sheet is over they practice the following tasks.

- 1. Todo
- 2. Form validation in HTML and Javascript

React js

- 1. Introduction of React
- 2. React UI
- 3. Using React Bootstrap and Tailwind css
- 4. NPM Library practice(Slick slider, swiper slider)
- 5. Hooks practice.
 - a. UseState

- b. UseEffect
- c. UseRef(email js)
- 6. React Router dom
- 7. Form validation
- 8. Regex in form validation
- 9. Map method
- 10. Props
- 11. Folder structure of react.

