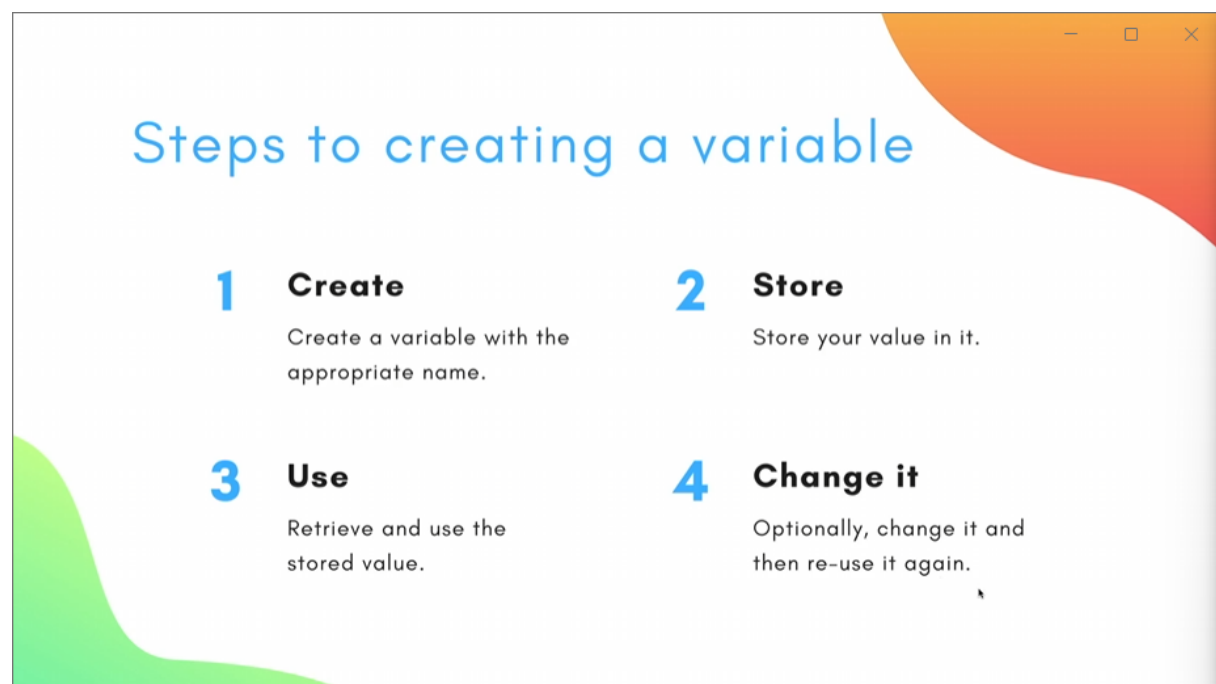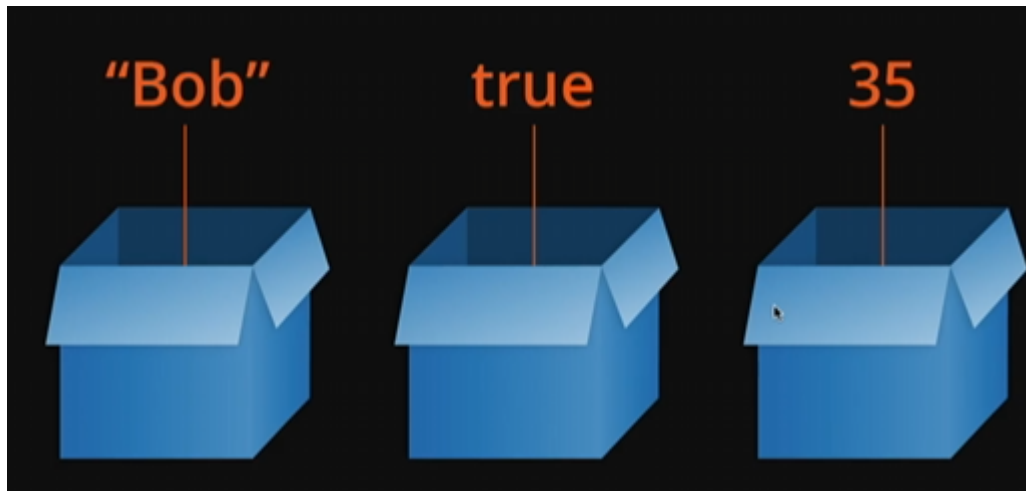# Variables and Data Types

variable - are the container that store some reusable data.

to declare variable use - "var" keyword

```
//syntax
var Variablesname = 18;
```

now there are two different way to define variables after ES6 .

by

- let

```
let varName = "hello Wolrd!";
```

```
Welcome to Variables
hello Wolrd!
```

variable made using let can change value of it.

```
let varName = "hello Wolrd!";
varName   = 19;
```

```
Welcome to Variables
19
```

- const
  you cant change the value of variable using const beacuse it is constant .

```
const varName = "hello Wolrd!";
varName   = 19;
console.log(varName);
```

```
Welcome to Variables
⊗ ▶Uncaught
  TypeError: Assignment to constant variable.
      at script.js:11:10
```

you cant declare variable with same name again

```
const varName = "hello Wolrd!";
const varName = "hello Wolrd!";
```

```
Uncaught                                    script.js:17
  SyntaxError: Identifier 'varName' has already been declared (at
  script.js:17:7)
```

you name variable wiht lexical bound names.

```
let var = "umang";
console.log(var);
```

```
Uncaught
    SyntaxError: Unexpected token 'var'
```

variable start with only - alphabet,

but can start with special char or number

```
//variables
var fname = "Umang";
let mname = "Arvindbhai";
const lname = "Raval";
```

Datatypes

Comments

```
//single line comments
// for shard description of any code
```

```
/*
   mullti line comments
*/
```

String

there are three types of string

you cn declare by

- " " double quotes

- ' ' single quotes

- ``   back tick

```javascript
const exlstring = "hello world";
console.log(exlstring);
```

```javascript
//string
// all the thing between " " double quoute is called string
const singleQuote = 'Hello';
const doubleQuote = 'Hello';

//backtic
const fname = "uamng";
const backticks  = `Hello , ${fname}  , welcome`;
console.log(backticks)

//also to do maths
console.log(`${2+2}`)
```

```
Welcome to DataTypes

Hello , uamng   , welcome

4
```

to check datatype sof any variable use

- " typeof "command to see datatypes

```javascript
const fname = "uamng";
const backticks  = `Hello , ${fname}  , welcome`;
console.log(typeof backticks)
```

```
Welcome to DataTypes

string

4
```

Numbers