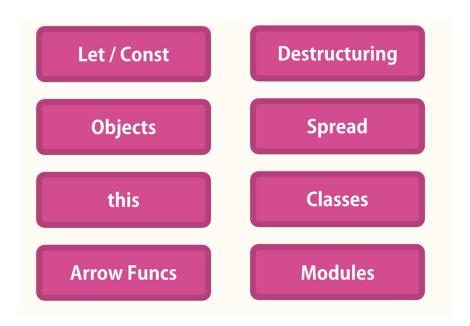
ES6



1. Let vs Var vs Const

```
// var -> function
// let -> block
// const -> block

function sayHello(){
   for(var i=0; i< 5; i++)
   {
      console.log(i);
   }

// i value is access from the loop
   console.log(i);
}</pre>
```

```
// var -> function
// let -> block
// const -> block
```

```
function sayHello(){
   for(var i=0; i< 5; i++)
   {
     console.log(i);
   }

// i value is access from the loop
   console.log(i);
}</pre>
```

```
function sayHello(){
    for(let i=0; i< 5; i++)
    {
        console.log(i);
    }
    console.log(i);
}</pre>
```

```
let x = 2;
x= 3;
Uncaught TypeError: Assignment to constant variable.
```

2. **Object**

```
const person = {
   name : 'Arkar',
   walk:function(){},
   talk(){}
}

const person = {
   name : 'Arkar',
   walk(){},
   talk(){}
}

// access
person.talk();
person['name'] = 'Htet Myint';
person.name = 'Htet Myint';
```

3. This keyword

```
// Return the current object
const person = {
    name : 'Arkar',
    walk(){
        console.log(this);
    }
}
person.walk();
// Show the person object in the console
//The java script alway that way
const walk = person.walk;
console.log(walk);
const walk = person.walk;
walk();
// undefined at console
//*Note
//Object of the object this keywork is call to Global object
// Return Window object
```

4. Binding this

```
// Java Script function are object
const walk = person.walk.bind(person);
walk();
```

5. Arrow Functions

```
// 1
const square = function(number){
   return number*number;
}

// 1.1 single parameter
const square = number => {
   return number*number;
}
```

6. Arrow functions with this

```
const person = {
    talk() {
        console.log('this',this)
    }
}
// output the current object
person.talk();
// out put the window object
// setTimeout function is not the part of person object
const person = {
   talk() {
        setTimeout(function(){
            console.log('this',this)
       },1000)
    }
}
person.talk();
// var self = this
// console = self
```

```
// change to arrow function
const person = {
   talk() {
      setTimeout( () => {
       console.log('this',this)
}
```

```
},1000)
}
person.talk();
```

7. Array.map Method

```
const colors = ['red','green','blue'];
colors.map( function(color){
    console.log(color);
});

// change arrow function
colors.map( color => console.log(color));

//template literals
const items = colors.map( color => `${color});
console.log(items);
```

8. Object Destructuring

```
const address = {
    street : '',
    city : '',
    country : '',
}

// multiple place 'address.'

const street = address.street;

const city = address.city;

const county = address.country;

//equivalent

const {street, city, country} = address;

// different name

const {street : st, city, country} = address;
```

9. **Spread operator**

```
const first = [1,2,3];
const second = [4,5,6];

const combined = first.concat(second);
const combined = [...first]
const combined = [...first,...second]
const combined = [...first,'a',...second,'b']
```

```
const first = {name:'Ar Kar'};
const second = {job:'Instructor'};

const combined = {...first,...second, locaiont:'YGN'};
console.log(combined);

const clone = {...first};
```