

# ES 2015 Simple Features

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- ES 2015 added several new features to Javascript
- Some features are very basic
- Some of the them are quite advanced.
- Not all feature is supported by all browsers
- Older the browser lesser the features it supports
- Most modern browser (less than 2 years old) support most features from ES2015

## 1. New variable modifier 'let' and 'const'

- 'let' and 'const' are like 'var'. They declare variables
- 'const' means constant
  - You can't modify the value later
- let allows you to create variables like var
- The key difference between let and var
  - Global let doesn't add the name to window object

```
> var x=20;
< undefined
> window.x
< 20
> let y=20;
< undefined
> window.y
< undefined
> |
```

- Local let is block scoped. Local var is function scoped.

```
3 function f1(){
4   for(var i=0;i<10;i++)
5     ;
6   console.log(i); //10
7 }
8
9
10 f1();
11
12 function f2(){
13   for(let i=0;i<10;i++)
14     ;
15   console.log(i); //i is not defined
16 }
17
18
19 f2();
20
```

## 2. Back tick string (`)

- ES 2015 allows us to create a new type string that is quoted back ticks ( ` )
- Back tick string has two special features

### 1. It can expand in multiple lines

```
` This is an example of
Multi-line string
The string preserves tabs and new lines
`
```

## 2. String interpolation

- We can inject javascript variables and expression inside the string
- It eliminates the need of a lot of string concatenation
- We can inject JavaScript variables and expression using `${ javascript-expression }`

```
19 //ES 2016
20 |
21 let description2= `
22 Title: ${title}
23 Author: ${author}
24 Rating: ${rating} /5
25 Price: Rs. ${price}    after 20% discount Rs ${Math.floor((price*0.8))}
26 `;
27
28 console.log(description2);
```

### Note

You can inject

- Simple variable or constants
- Expressions
- new Object()
- methodCalls

You can't inject

- Statements like
  - If
  - For
  - While
  - Creation of function