



## CHAP 13: First Class functions pt. Anonymous functions

- Function statement also known as Function Declaration.

```
function a() {  
  console.log("a called");  
}
```

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- Function expression

~~function~~

```
var b = function() {  
  console.log("b called");  
}
```

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- Difference b/w function statement and function expression:

→ The main difference between both of them is hoisting.

→ In function expression, it is treated like any other variable 'therefore' it throws the 'type error' b is not a function. It is assigned undefined initially.



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### • Anonymous function:

=> A function without a name is anonymous function.

=> Anonymous functions can be used in a place where functions are used as values.

Ex: 

```
var c = function () {  
    console.log("Hello");  
}
```

 → Anonymous function

### • Named function Expression:

=> It's same as function expression but we provide name to the anonymous function, hence it becomes Named function expression.

```
var d = function xyz () {  
    console.log("Named function expression");  
}
```

=> Common case of Named function expression:

We can access the above expression by invoking `d()`, but we can't do `xyz()`, because `xyz()` is locally created not globally created.





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- locally created names we can access 'xyz' inside the function

```
=> var d = function xyz() {  
    console.log(xyz); [This will work]  
}
```

- But we can't do it outside the function globally i.e. `xyz()` [Throws error]

※ We can also pass functions as argument while invoking the function ※

※ The ability of functions to be used as values is known as first-class functions, therefore due to this ability we can call functions as first-class citizens. ※