Function
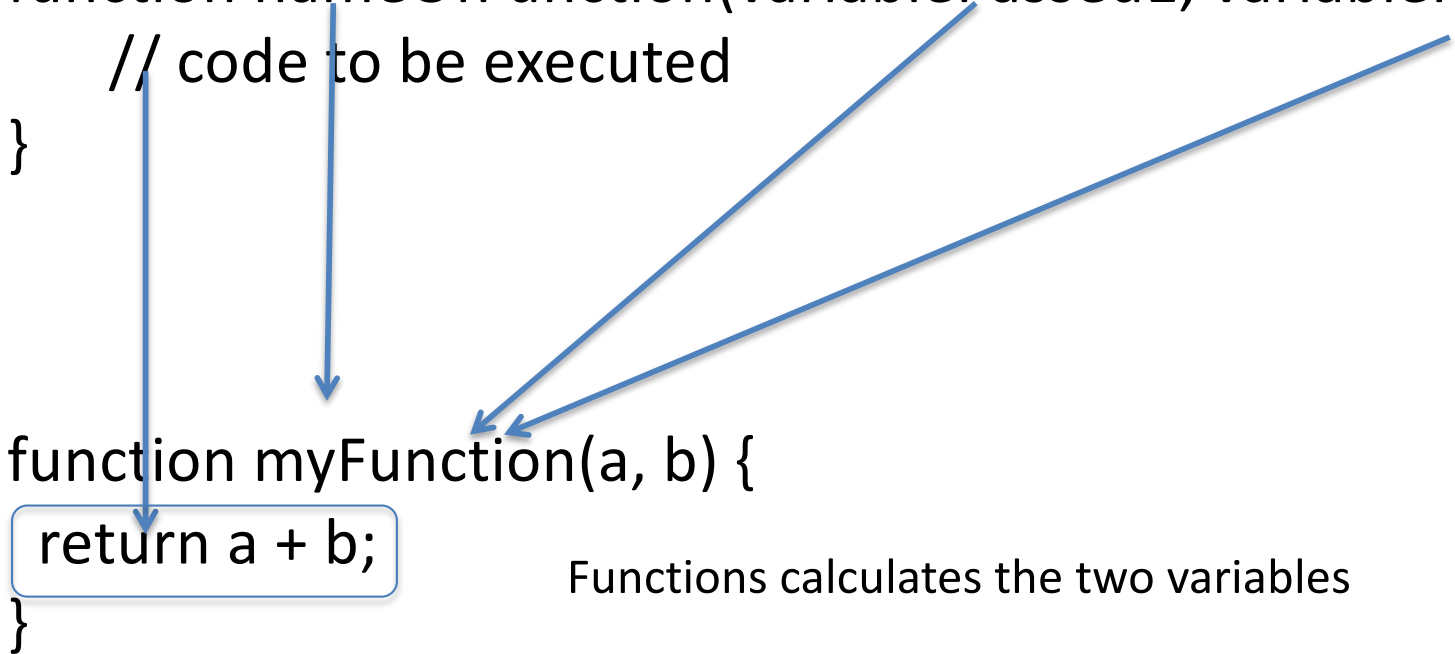
```
function nameOfFunction(variablePassed1, variablePassed2) {
    // code to be executed
}



function myFunction(a, b) {
  return a + b;
}
```

Functions calculates the two variables

```
var globalVar = 5;
function myFunction() {
  return globalVar + 19;
}
```

It doesn't need to have variables passed it can also take declared elsewhere

```
function myFunction() {
  return 5+ 19;
}
```

It doesn't need to have any variables inside

Buttons

Mouse event

.on("click", , "PLACE FOR FUNCTION")

.on("mouseover", "PLACE FOR FUNCTION")

.on("mouseout", "PLACE FOR FUNCTION")

.append("circle")

...

```
.on("click", function(){
        console.log("Just something on the screen");
    })
```

We can add function to attr .on("click"

When circle is clicke some text appeared in the console

```
.append("circle")
...
.on("click", function(d){
    console.log(d);
})
```

This function will return element value when circle is clicked

Homework 4

- Check JS functions https://www.w3schools.com/js/js_functions.asp

- Check d3 array resources and use some functions to replace possible elements in your code https://github.com/d3/d3-array

A scatter plot with the Alcohol data (initial file is uploaded "data_for_homework.html"):

- Should have lines and circles on intersections for each point of the data array

- Draw it with selectAll.data().enter()

- Upload any result by the end of Jan 14th