

Topic 9: JavaScript

Lecture Contents

- Function Definition
- Playing with Karel at Stanford

JavaScript Function Definition

- The keyword `function` is used to declare or define a function
- Below we are defining a `function` named `greet`.

```
function greet() {  
    alert("Hello there!");  
    alert("How are you?");  
}
```

- Type this function into a browser snippet, and run it...

JavaScript Function Definition

- The keyword `function` is used to declare or define a function
- Below we are defining a `function` named `greet`.

```
function greet() {  
    alert("Hello there!");  
    alert("How are you?");  
}
```

- Type this function into a browser snippet, and run it... nothing happens.
- So now go to the console and enter: `greet()`;

Play with Karel at Stanford

<https://stanford.edu/~cpiech/karel/learn.html>

JavaScript Function *Parameters*

- We can pass parameters to functions
- Below we are defining a function named `greet` that takes two parameters

```
function greet(name, day) {  
    console.log("Hello, " + name);  
    console.log("Happy " + day);  
}
```

- Type this function into a browser snippet, and run it.
- Then go to the console and enter: `greet("Chris", "Monday");`

JavaScript Function *Return Value*

- We can return a single value from a function
- Below we are defining a function named `calculateBMI` that takes two parameters

```
function calculateBMI(weight, height) {  
    return weight / (height**2);  
}
```

- Type this function into a browser snippet, and run it.
- Then go to the console and enter: `calculateBMI(80,1.8);`

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JavaScript Function *Return Value*

```
function calculateBMI(weight, height) {  
    return weight / (height**2);  
}
```

- We can assign the return value to a variable:

```
var theBMI = calculateBMI(80, 1.8);
```

- Or we can use the return value when we call another method:

```
alert(calculateBMI(80, 1.8));
```




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Functions