## Lesson13

Javascript Basics

## Functions

## Fundamental building blocks in JavaScript

- A function definition (also called a function declaration, or function statement) consists of the function keyword, followed by name of the function, a list of parameters to the function, enclosed in parentheses and separated by commas, The JavaScript statements that define the function, enclosed in curly brackets, {...}
- For example, the following code defines a simple function named square:

```
1 function square(number) {
2 return number * number;
3 }
```

See on lesson materials for further examples and informations

# Arrays "Lists"

- Arrays are generally described as "list-like objects"; they are basically single objects that contain multiple values stored in a list. Array objects can be stored in variables.
- ['bread', 'milk', 'cheese'] arrays consist of square brackets and elements that are separated by commas.

## Arrays functions

### Javascript creates helper functions for each array behind the scene

- var myArray = [ "one", "two", "three"];
- myArray.length counts items in array and return number of items (3)
- myArray.push("four") put item at the end of the array
- myArray.unshift("zero") put item at the begging of the array
- myArray.pop() remove last item from array
- myArray.shift() remove first (index [0]) element from array
- myArray.indexOf("two") search array for value and return index number of this value, if there is no such value it returns -1

## Events

#### "click" event

- Events are actions or occurrences that happen in the system you are programming, which the system tells you about so you can respond to them in some way if desired.
- To create function that will "listen" your HTML Dom element you need to attach it with special javascript - htmlElement.addEventListener("click", functionToProcessEvent)
- See on lesson materials for examples