

JavaScript for kids Notes -2

Saturday, November 19, 2016 8:28 PM

Function Loops

1. Functions

- a. Use functions in JavaScript build-in library
 - i. Example of string function

```
var dogSentence="I like dogs!";  
dogSentence.replace("dogs","cats");
```

```
> var dogSentence="I like dogs!";  
   dogSentence.replace("dogs","cats");  
< "I like cats!"  
> |
```

- b. Find all the Javascript functions

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects

- Math

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Math

- String

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/String

- Date

https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date

- c. Make new function

- Example a new function

```
function makeMoreExciting(string) {  
  return string + '!!!!'  
}  
makeMoreExciting(dogSentence)
```

```
> var dogSentence="I like dogs!";  
   dogSentence.replace("dogs","cats");  
< "I like cats!"  
  
> function makeMoreExciting(string) {  
   return string + '!!!!'  
}  
< undefined  
  
> makeMoreExciting(dogSentence)  
< "I like dogs!!!!!"  
> |
```

- Another example of function

```
function yellIt(string) {
  string = string.toUpperCase()
  return makeMoreExciting(string)
}
console.log(yellIt("i fear no human"))
```

```
> makeMoreExciting(dogSentence)
< "I like dogs!!!!!"

> function yellIt(string) {
  string = string.toUpperCase()
  return makeMoreExciting(string)
}

console.log(yellIt("i fear no
human"))

I FEAR NO HUMAN!!!! VM10238:6
< undefined
> |
```

2. Loops

a. While loop

```
var lineltemCount= 3;
var currentltem= 0;
while(currentltem< lineltemCount) {
  console.log("item: "+ currentltem);
  currentltem++;
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}
```

b. For loop

```
for(var i = 0; i < 3; i++){
  console.log(i);
}
```

c. For In [array]

```
var numbers=[1,2,3,4,5,6];
for(var number in numbers){
  console.log("number:"+number);
}
```

```
> var numbers=[1,2,3,4,5,6];
< undefined
> numbers
< ► [1, 2, 3, 4, 5, 6]

> for(var number in numbers){
  console.log("number:"+number);
}

number:0
number:1
number:2
```

```
> var numbers=[1,2,3,4,5,6];
< undefined
> numbers
< ► [1, 2, 3, 4, 5, 6]
>     for(var number in numbers){
        console.log("number:"+number);
    }
    number:0
    number:1
    number:2
    number:3
    number:4
    number:5
< undefined
> |
```

Practice and challenge

DOING ARITHMETIC WITH FUNCTIONS

Create two functions, add and multiply. Each should take two arguments. The add function should

sum its arguments and return the result, and multiply should multiply its arguments.

Using only these two functions, solve this simple mathematical problem:

$36325 * 9824 + 777$