

JavaScript for kids notes -3

Saturday, November 19, 2016 10:33 PM

Arrays Objects

1. Arrays


a. Make an array

```
var myFruits = ["apple", "banana", "orange"];  
var myNumbers = [1, 2, 3, 4, 5];
```

b. Get a item in an array

```
myNumbers[0]  
myFruits[1]
```

```
> var myFruits = ["apple", "banana", "orange"];  
var myNumbers = [1, 2, 3, 4, 5];  
< undefined  
> myNumbers[0]  
< 1  
> myFruits[1]  
< "banana"  
> |
```



c. Check the array's length

```
myNumbers.length
```

d. Add an item into Array

```
myNumbers.push(9);  
  
myNumbers.length;  
  
myNumbers[5];  
  
myNumbers[myNumbers.length-1];
```

```

> myNumbers.length;
< 5
> myNumbers.push(9);
< 6
> myNumbers.length;
< 6
> myNumbers[5];
< 9
> myNumbers[6];
< undefined
> myNumbers[myNumbers.length-1];
< 9
> |

```

- e. Remove an item from Array

myNumbers.pop(5)

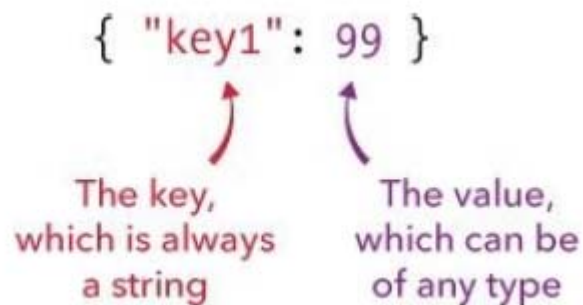
```

> myNumbers.pop(5)
< 9
> myNumbers.length
< 5
> |

```

2. Objects

- a. We need store more stuff than just array, we need use object,
 ▪ What the Object looks like:



- Let's define 3 cat objects:

```

var firstCat = { name: "bill", lastName: "the cat", address: "The Alley" }
var secondCat = { name: "tabby", lastName: "cat", address: "Grandmas House" }
var thirdCat = { name: "ceiling", lastName: "cat", address: "Attic" }

```

```

> var firstCat = { name: "bill", lastName: "the cat",
  address: "The Alley" };
var secondCat = { name: "tabby", lastName: "cat", address:
  "Grandmas House" };
var thirdCat = { name: "ceiling", lastName: "cat", address:
  "Attic" };
< undefined
> firstCat
< ▶ Object {name: "bill", lastName: "the cat", address: "The
  Alley"}
>

```

- We can put the three cat objects in a cats array:

```

var cats=[firstCat,secondCat,thirdCat];
var myCats=[];
myCats.push(firstCat);
myCats.push(secondCat);

> var cats=[firstCat,secondCat,thirdCat];
< undefined
> cats
< ▼ Array[3] ⓘ
  ▼ 0: Object
    address: "The Alley"
    lastName: "the cat"
    name: "bill"
    ▶ __proto__: Object
  ▶ 1: Object
  ▶ 2: Object
    length: 3
    ▶ __proto__: Array[0]
> |

```

Programming Challenges

Try out these challenges to practice the skills you learned in this chapter.

#1: JOINING NUMBERS

How could you turn the array [3, 2, 1] into the string "3 is bigger than 2 is bigger than 1" using the join method?

#2: DIGGING INTO OBJECTS AND ARRAYS

Say you had the following object:

```

var myCrazyObject = {
  "name": "A ridiculous object",
  "some array": [7, 9, { purpose: "confusion", number: 123 }, 3.3],
  "random animal": "Banana Shark"
};

```

How would you get the number 123 out of this object using one line of JavaScript? Try

it out in the
console to see if you're right.