Fastcampus

퍼포먼스 마케터를 위한 업무자동화 실전 CAMP

Day3. js for Google Apps Script

Homework Review

https://docs.google.com/spreadsheets/d/10sHOqSxiA3lvnlfJNijUS2XuWVRz8zm9lZyA3RDyskc/edit?usp=sharing

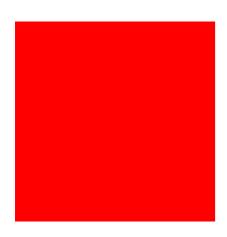
javaScript for Google Apps Script

javaScript from scratch

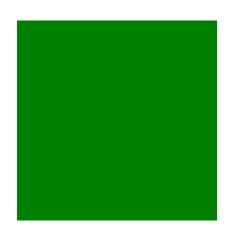
javaScript란?

- 객체 기반의 스크립트 프로그래밍 언어
- 웹페이지의 동적인 제어 목적
- Netscape의 Brendan Eich가 모카(Mocha)를 개발
- LiveScript -> javaScript로 개명

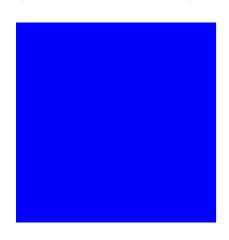
Static Web site - 1



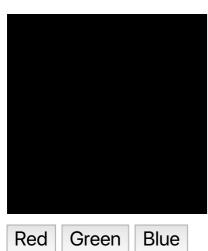
Static Web site - 2



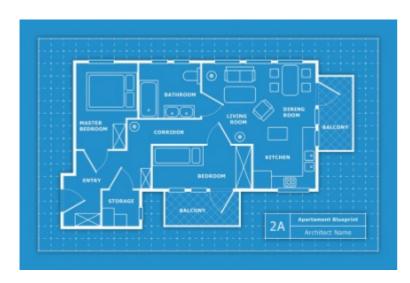
Static Web site - 3



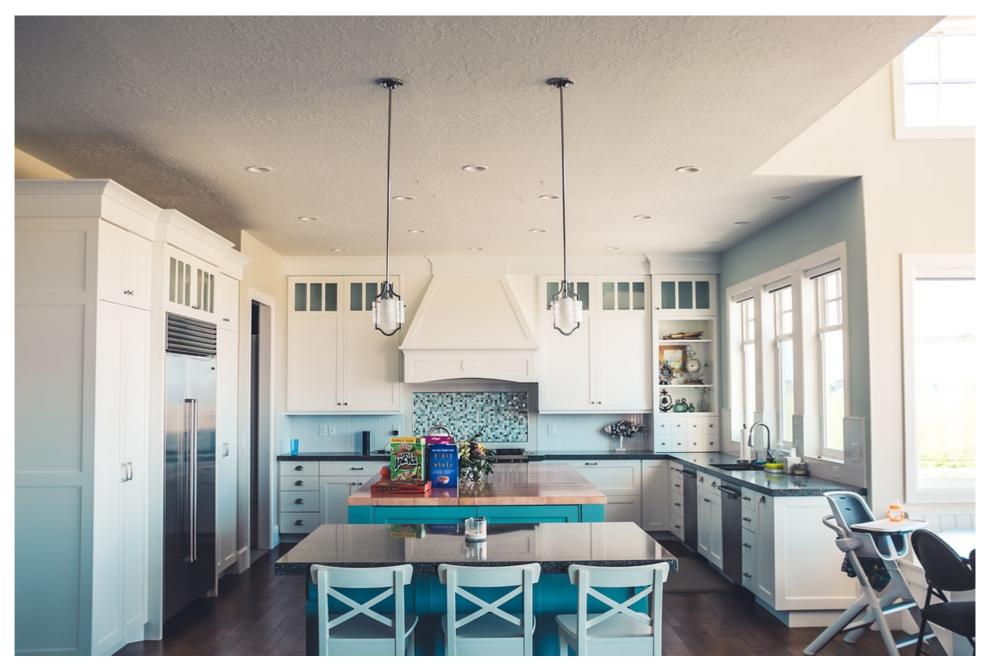
Dynamic Web site



HTML is like ..



And CSS is like ..



And javaScript is like ..



Java != javaScript

Java	VS	javaScript		
Sun	개발	Brendan Eich		
JVM	구동방식	Script Engine(Browser)		
С	영향	С		
인도	Like	인도네시아		

Try "hello world!"

```
print("hello python!")

console.log("hello javaScript!");
alert("hello javaScript!");
```

document.write("hello javaScript!");

variable, statements, operation

```
a=3
b=5
c=a+b
```

```
// declare a,b,c
var a,b,c;
// assign a,b
a = 3;
b = 5;
// assign statements with + operator
c = a + b;
```

functions

```
def name(parameter1, parameter2, ..):
    # code to be executed

function name(parameter1, parameter2, ..) {
    // code to be executed
}
```

functions

```
def print_hello(name):
    print("hello, "+name)

function_printHello(name) {
```

```
function printHello(name) {
   console.log("hello, " + name);
}
```

functions

```
def awesum(num1, num2):
    return num1 + num2

function aweSum(num1, num2) {
    return num1 + num2;
}
```

Conditional statements - if, else

```
a = 10
if a==10:
    print("a is 10")
else:
    print("a is not 10")
```

```
var a = 10;
if (a===10){
    console.log("a is 10");
} else {
    console.log("a is not 10");
}
```

Conditional statements - if in else

```
a = 10
if a==10:
    print("a is 10")
elif a==5:
    print("a is 5")
else:
    print("a is neither 10 nor 5")
```

```
var a = 10;
if (a===10){
    console.log("a is 10");
} else if (a===5){
    console.log("a is 5");
} else {
    console.log("a is neither 10 nor 5");
}
```

Conditional statements - switch

```
Null
```

```
switch (new Date().getDay()){
    case 0:
    case 6:
        console.log("Weekend!!!");
        break;
    case 1:
    case 2:
    case 3:
    case 4:
    case 5:
        console.log("Weekday..");
        break;
```

loop - for

```
for i in range(1,10+1):
    print("hello for " + i + " times")
```

```
for (i = 1; i < 11; i++) {
    console.log("hello for "+i+" times");
}</pre>
```

loop - while

```
while i<10+1:
    print("hello")
    i+=1</pre>
```

```
while (i<11){
    console.log("hello");
    i++;
}</pre>
```

loop - break

```
for i in range(1,10+1):
    if i == 5:
        break
    print("hello for "+i+" times")
```

```
for (i = 1; i < 11; i++) {
    if (i===5) {break;}
    console.log("hello for "+i+" times");
}</pre>
```

loop - continue

```
for i in range(1,10+1):
    if i%2==0:
        continue
    print("hello for "+i+" times")
```

```
for (i = 1; i < 11; i++) {
    if (i%2===0) {continue;}
    console.log("hello for "+i+" times");
}</pre>
```

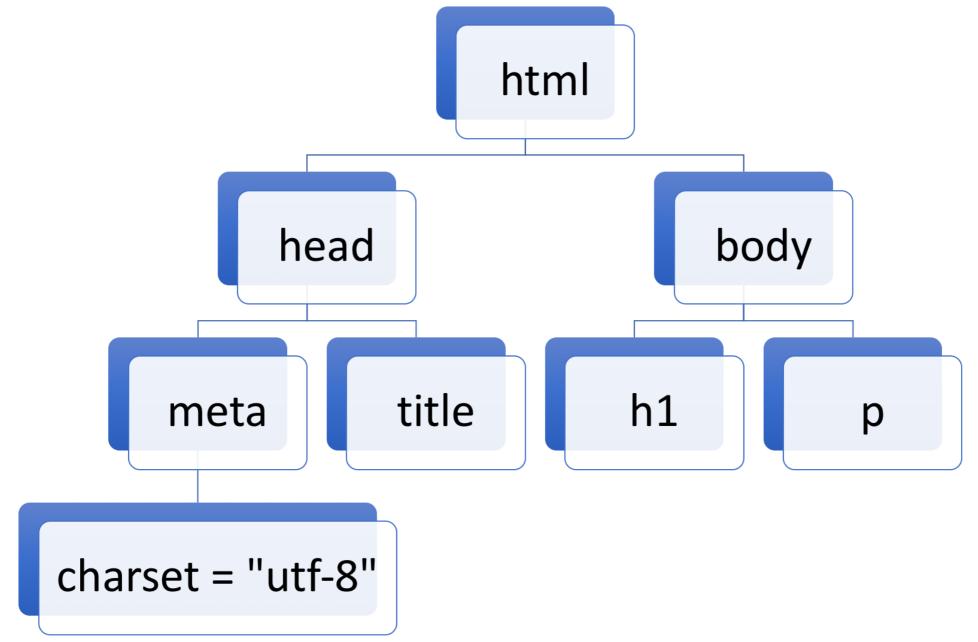
- = : Assignment Operator(a=10)
- == : Equal Operator(1=="1")
- === : Strict Equal Operator(1==="1")

javaScript HTML DOM

DOM

Document Object Model

DOM



with HTML DOM, javaScript can ...

- HTML 요소, 속성 생성, 변경, 삭제
- HTML 이벤트 수행
- CSS 스타일 변경

HTML Document Object

- window는 브라우저의 탭 또는 창을 의미합니다.
- document는 웹페이지의 모든 요소의 소유자입니다.
- element는 document의 하위 요소를 의미합니다.
- attribute는 element의 속성을 의미합니다.

Set document

```
<!doctype html>
<html>
<head>
 <meta charset="utf-8">
 <title>DOM Practice</title>
</head>
<body>
<div id="container">
 <h1 id="article-title"></h1>
 </div>
</body>
</html>
```

Find Element

```
document.getElementById(id)
document.getElementsByTagName(tagname)
document.getElementsByClassName(classname)
```

```
var mainArticle = document.querySelectorAll("div.main-article");
```

Change Element

```
element.innerHTML = 'new content'
element.{{attribute}} = 'new value'
element.setAttribute(attribute, value)
element.style.{{property}} = 'new style'
```

Add Element

```
document.createElement(element)
document.appendChild(element)
document.write(text)
```

Replace and Delete Element

```
document.replaceChild(element)
document.removeChild(element)
```

DOM Event

Mouse Event

onclick

onmouseover onmouseout

onmousedown onmouseup

DOM Event

Keyboard Event

onkeypress		
onkeyup onkeydown		

DOM Event

Form Event

onchange		
oninput		
onselect		
onsubmit		

Add Event Handler

```
element.onclick = function(){alert('hello')}
```

Add Event Listener

```
element.addEventListener("click", function(){alert('hello')});
```