우리회사 웹으로 이해하는 프로그래밍 맛보기

javaScript

Review

- Computational Thinking
- HTML
- CSS
- BootStrap

Recap Project

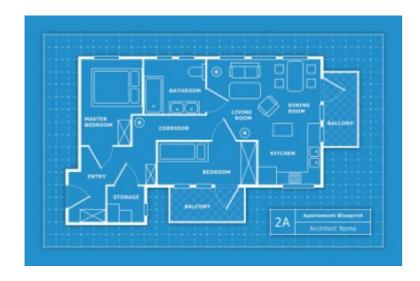
- HTML, CSS, Bootstrap을 활용해 카드 상세페이지 만들어보기
- Layout, Style, Grid는 모두 자유!
- 똑같이 만들어도 좋아요^^

javaScript

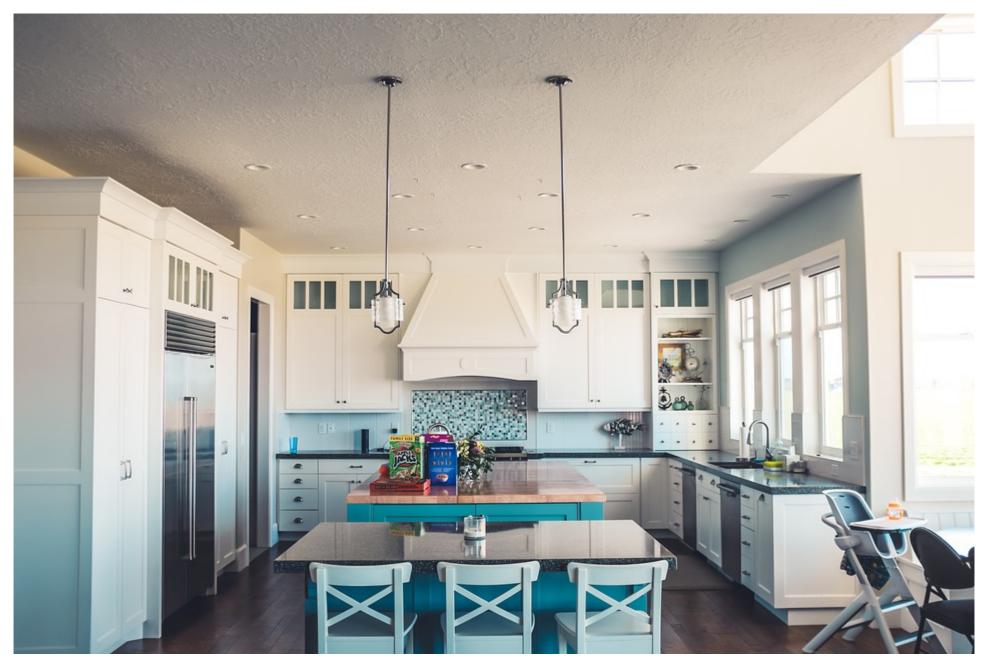
javaScript란?

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

HTML was like ..



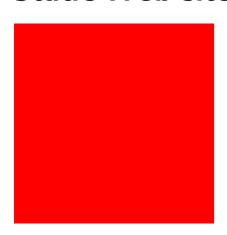
And CSS was like ..



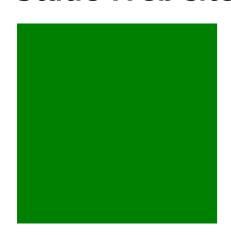
And javaScript is like ..



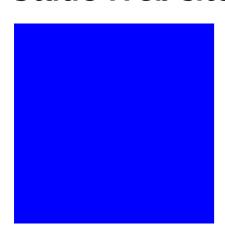
Static Web site - 1



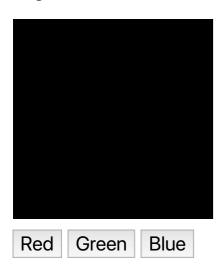
Static Web site - 2



Static Web site - 3



Dynamic Web site



Java != javaScript

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

Try "hello world!"

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

variable, statements, operation

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

functions

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

functions

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

functions

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

Conditional statements - if, else

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

Conditional statements - if in else

```
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");
}
```

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

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

loop - while

```
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>
```

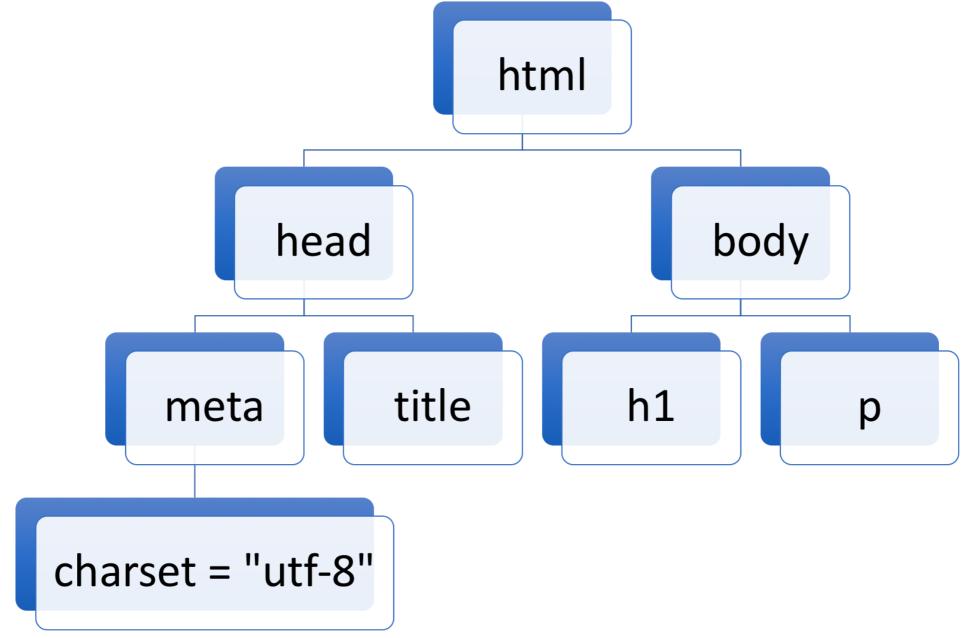
우리회사 javaScript 알아보기

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

oninput onselect
onselect
onsubmit

Add Event Handler

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

Add Event Listener

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

Countdown with javaScript

29일 21시간 54분 53초

add countdown feature

add countdown feature

```
var now = new Date().getTime();
  var distance = countDownDate - now;
  var days = Math.floor(distance / (1000 * 60 * 60 * 24));
  var hours = Math.floor((distance % (1000 * 60 * 60 * 24))
  / (1000 * 60 * 60));
  var minutes = Math.floor((distance % (1000 * 60 * 60))
  / (1000 * 60));
  var seconds = Math.floor((distance % (1000 * 60)) / 1000);
  document.getElementById("demo").innerHTML =
  days + "일 "
  + hours + "시간 "
  + minutes + "분 "
  + + seconds + "초 ";
if (distance < 0) {</pre>
    clearInterval(x);
    document.getElementById("demo").innerHTML = "EXPIRED";
```

사용자 입력정보 표출

```
<script>
  document.getElementById('submit').onclick = function(){
    var inputName = document.getElementById('name').value
    var inputEmail = document.getElementById('email').value
    alert('신청해주셔서 감사합니다 ' + inputName + ' 님. \n 제출해주신 ' -
  }
</script>
```

실무에서의 활용방안?!

앞서 만든 프로젝트에 javaScript 한 스푼 첨가하기

Thank you!