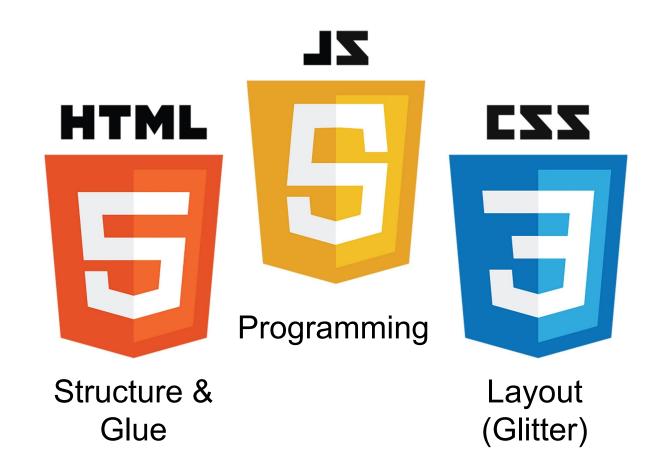
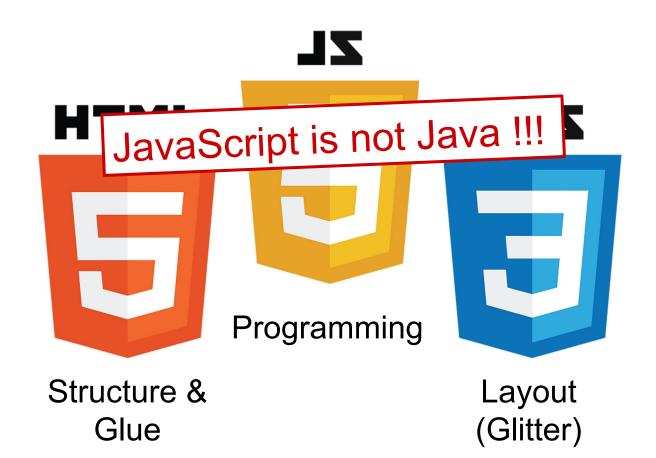
HTML - JavaScript - CSS



HTML - JavaScript - CSS



HTML - JavaScript - CSS



HTML



```
<!DOCTYPE html>
<html>
```





```
<body>
```

```
</hody>
```

HTML



```
<!DOCTYPE html>
<html>
<head>
  <title>M&B Workshop</title>
</head>
<body>
  <h1 id="foo">Hello Mind & Brain!</h1>
</body>
</html>
```

HTML and CSS

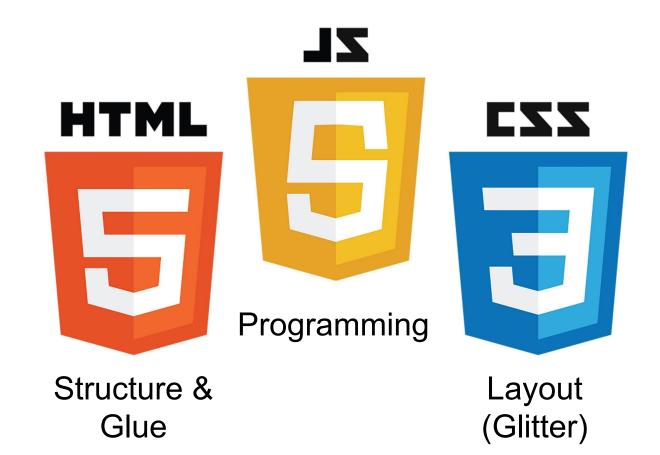


```
<!DOCTYPE html>
<html>
<head>
  <title>M&B Workshop</title>
  <style>
      h1 { color:firebrick; font-family:Sans-Serif; font-size:100px; text-align:center; }
  </style>
</head>
<body>
  <h1 id="foo">Hello Mind & Brain!</h1>
</body>
</html>
```

HTML and CSS and JavaScript



```
<!DOCTYPE html>
<html>
<head>
   <title>M&B Workshop</title>
   <style>
       h1 { color:firebrick; font-family:Sans-Serif; font-size:100px; text-align:center; }
   </style>
</head>
<body>
   <h1 id="foo">Hello Mind & Brain!</h1>
   <script>
       document.addEventListener("click", () => { alert("\( \cup \cup \cup \cup \) });
   </script>
</body>
</html>
```







show stimulus -> wait for response show stimulus -> wait for response show stimulus -> wait for response

. . .

JavaScript

is event-driven





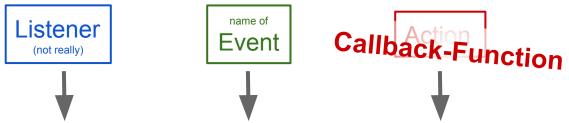
document.addEventListener("click", doSomething);



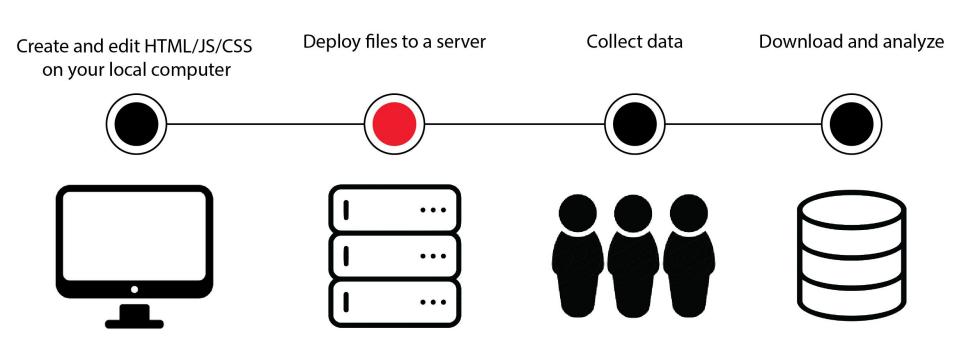


```
document.addEventListener("click", doSomething);
function doSomething() {
   alert(""");
}
```





```
document.addEventListener("click", doSomething);
function doSomething() {
    alert("����");
}
document.addEventListener("click", () => {
    alert("����");
});
```



Deploy to the Internet

Option A:

Qualtrics, SurveyMonkey etc. do it for you, but ... limited

Option B:

DIY, but ... complicated

Option C:

JATOS

Deploy to the Internet

Option A:

Qualtrics, SurveyMonkey etc. do it for you, but ... limited

Option B:

DIY, but ... complicated

Option C: Option C.1:

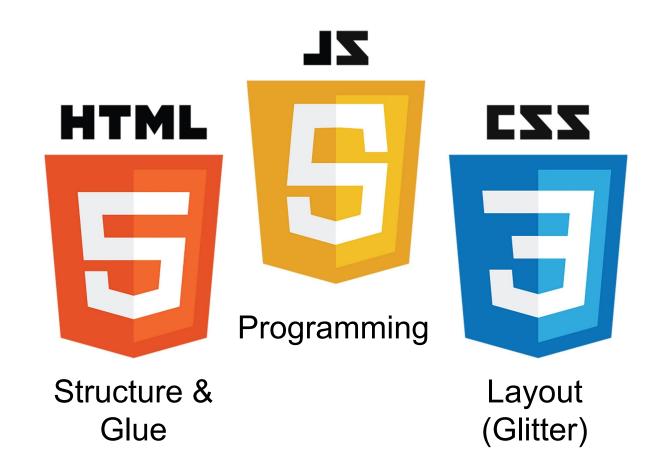
JATOS Convince your IT guys



Option C.2:

Be your own admin







```
"id":"0001",
"type": "cake",
"name": "NY Cheesecake",
"image":{
    "url": "images/0001.jpg",
    "width":200,
    "height":200
},
"ingredients":[
    "milk", "cream cheese", "butter"
```



```
"id":"0001"
key
                                                   value
                "name": "NY Cheesecake",
                "image":{
                    "url": "images/0001.jpg"
                    "width":200,
                    "height":200
                "ingredients":[
                    "milk", "cream cheese", "butter"
                "available":true
```



```
"id":"0001",
"type": "cake",
"name": "NY Cheesecake",
                                          string
"image":{
                                           number
   "url": "images/0001.jpg",
                                           boolean
    "width":200,
    "height":200
                                          array
                                           object
"ingredients":[
    "milk", "cream cheese", "butter"
"available":true
```



JSON.stringify: Object -> JSON JSON.parse: JSON -> Object



[{"rt":934, "key press":32, "trial type": "text", "trial index":0, "time elapsed":93 8, "internal node id": "0.0-0.0"}, { "rt": 5398, "key press": 32, "trial type": "text", " trial index":1,"time elapsed":7340,"internal node id":"0.0-1.0"},{"rt":-1,"stim ulus":"/study assets/workshop go nogo/img/orange.png", "key press":-1, "response" :"no-go", "trial type": "single-stim", "trial index": 2, "time elapsed": 10850, "inter nal node id":"0.0-2.0-0.0", "correct":true}, {"rt":327, "stimulus":"/study assets/ workshop go nogo/img/blue.png", "key press":70, "response": "go", "trial type": "sin gle-stim", "trial index":3, "time elapsed":13130, "internal node id":"0.0-2.0-1.0" ,"correct":true},{"rt":676,"stimulus":"/study assets/workshop go nogo/img/blue. png", "key press":70, "response": "go", "trial type": "single-stim", "trial index":4, "time elapsed":15436, "internal node id":"0.0-2.0-2.0", "correct":true}, {"rt":-1, "stimulus": "/study assets/workshop go nogo/img/orange.png", "key press":-1, "resp onse": "no-go", "trial type": "single-stim", "trial index": 5, "time elapsed": 17838, " internal node id":"0.0-2.0-3.0", "correct":true}, {"rt":322, "stimulus":"/study as sets/workshop go nogo/img/blue.png", "key press":70, "response": "go", "trial type" :"single-stim", "trial index":6, "time elapsed":18952, "internal node id":"0.0-2.0 -4.0", "correct":true}, { "rt":-1, "stimulus": "/study assets/workshop go nogo/img/o range.png", "key press":-1, "response": "no-go", "trial type": "single-stim", "trial index":7,"time_elapsed":21995,"internal node id":"0.0-2.0-5.0","correct":true}, {"rt":-1, "stimulus": "/study assets/workshop go nogo/img/orange.png", "key press"



```
"rt":934,
    "key press":32,
    "trial type": "text",
    "trial_index":0,
    "time elapsed":938,
    "internal node id":"0.0-0.0"
},
    "rt":5398,
    "key press":32,
    "trial type": "text",
    "trial index":1,
    "time elapsed":7340,
    "internal node id":"0.0-1.0"
},
```

Recap

- HTML/JS/CSS
- HTML tags <head> <body> <script> <style>
- JavaScript is event driven
- JSON
- Libraries survey.js and jsPsych
- Deploy JATOS to a server on Digital Ocean
- Create study links in JATOS