

Random knowledge and good practices

brace yourselves



Trace / Log

document.write

Should not be used, except for very specific things (like obfuscating email)

For trace / log purpose use "console" :

- display trace only in the console and not in the document
- the usage is similar to document.write
- allow to use "severity"

```
console.log("the variable a is " + a)
```

```
console.error("this should not happen")
```

console

<https://codepen.io/antoine-o/pen/zYxQZYd>

Script execution

The right place of javascript

Inside <head></head> in HTML

```
<html><head>  
<script type="text/javascript">  
//Some code  
</script>  
</head>
```

In a separated file referred inside <head></head> in HTML

```
<script type="text/javascript" src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.4.1/jquery.min.js"></script>
```

Javascript execution

Javascript is executed as html is interpreted.

All HTML Elements may not be interpreted depending where the javascript is.

Execute after the page has loaded

```
<script type="text/javascript">  
  
window.onload = function (){  
  
    // Do the stuff after the load  
  
}  
  
</script>
```

<https://codepen.io/antoine-o/pen/NWPVpGq>

CSS

Very powerful

Use CSS for "mouseover" look changes better than javascript.

Javascript is made for :

- dealing with the structure (modify/add/remove element)
- making data manipulation (separate string into multiple strings, extracting data, verifying input, interaction with user)
- connecting with server (back office)

Furthermore

EcmaScript

- May 1995 : Javascript
- 1996/1997 : ECMAScript Standard for script languages
 - JavaScript is the most well-known implementation of the standard
 - ActionScript (Macromedia)
 - JScript (Microsoft)
- Battle between IT Titans
- Now : 2015 - ECMAScript 6 ([but not fully implemented everywhere](#))

REACT



- library "created by" Facebook
- Single page application
- DOM is fully handled in javascript

Angular



- library "created by" Google
- Single page application
- DOM is fully handled in javascript
- Very similar to programming language like Java

Node.js



- Server using javascript as a language
- Client code and Server use the same language
- Compatibility with React and Angular (and almost anything in fact)

Meteor



- Node.js
- + Database
- + tools to ease reactivity in the UI
 - something changes in the DB and is automatically updated in the UI

Web Components

- Directly used without transformation
- Based on standard
- Each web component is isolated

Thanks!

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