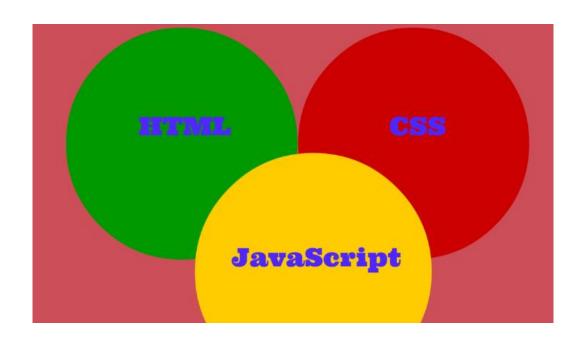
Interactie JavaScript en CSS

Opdracht Static Grid

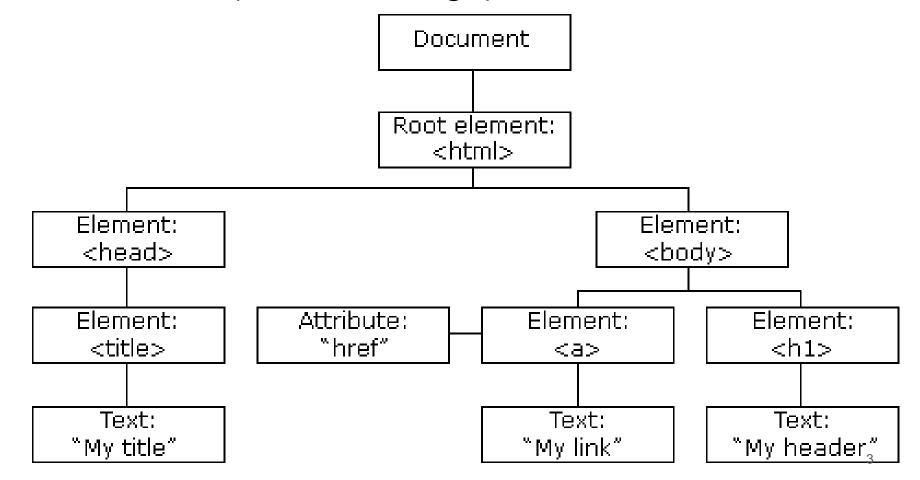


HTML DOM (Document Object Model)

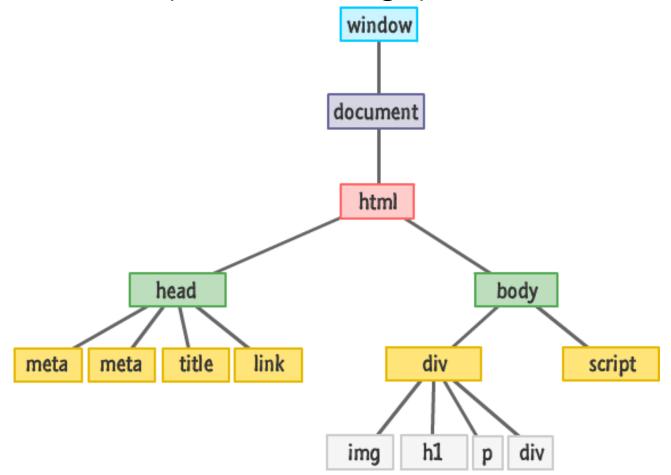




HTML DOM (vereenvoudigd)



HTML DOM (vereenvoudigd)





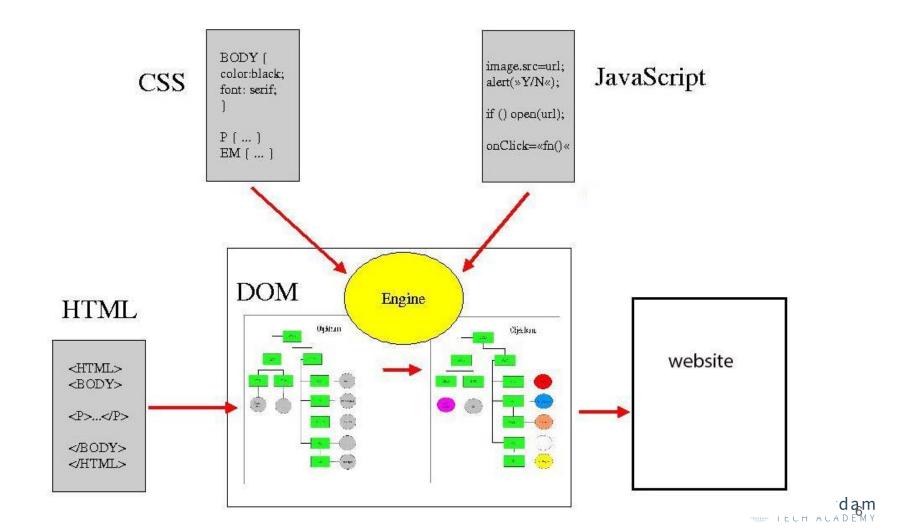
Document Object en Javascript

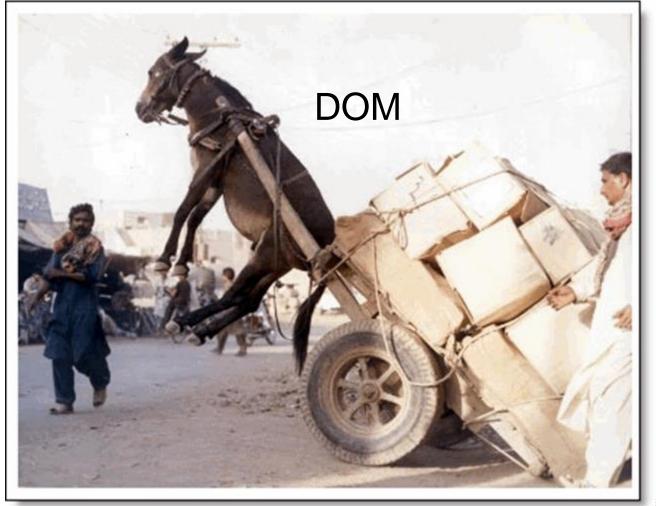
Als een HTML document wordt geladen in een web browser, dan wordt het een document object.

Document Object voorziet properties en methods toegankelijk voor Java Script.

Voorbeeld: document.addEventListerer()

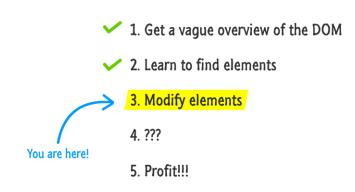


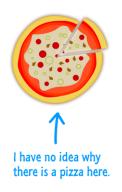




Amsterdam TECH ACADEMY

JavaScript => Style Object







JavaScript => Style Object

JavaScript heeft toegang tot Style Properties van een bestaand element,

voorbeeld

```
document.getElementById("myH1").style.color =
"red";
```

Id vooraf declareren in HTML



Style Object Properties

Doen: Bestudeer Overzicht Style Object Properties

https://www.w3schools.com/jsref/dom_obj_style.asp

container.style.left = xPos + "px";



Demo positioneer een rechthoek op de coördinaat x = 350 px, y = 200 px





Demo positioneer een rechthoek op de coördinaat x = 350, y = 200

```
style cas 🗵 📑 index.html 🖂 😁 script js 🖂 🗎 script js 🖂
                                                                  window.addEventListener("load", function () {
                                                                       var bootje = document.getElementById('bootje');
                                                                       var positionX = 350;
                                                                       function float () {
style.css 🗵 🔚 index.html 🗵 💾 script.js 🗵
                                                                           bootje.style.left = positionX + "px";
      <!DOCTYPE html>
                                                                       setInterval(float,1);
    =<html>
                 <title>title</title>
                 <meta charset="utf-8">
                 <link rel="stylesheet" type="text/css" href="style.css">
                 <script src="script.js"></scrip</pre>
                                                          style.css 🗵 📳 index.html 🗵 📳 script js 🗵
           </head>
                                                            1 = #bootje{
                                                                     position: absolute;
                 <h1 id="title">Title</h1>
10
                                                                    top:200px;
                 <div id="bootje">zie ginds komt
11
                                                                    left: 100px;
13
                                                                    width: 260px;
                                                                    height: 60px;
                                                                    background-color:red;
                                                                    color:white;
                                                                    padding: 20px;
                                                                    margin: 0px;
                                                           10
                                                          11
                                                                                                                          msterdam
```

Demo HTML

```
style css 🗵 🗎 index.html 🗵 💾 script js 🗵
     <!DOCTYPE html>
    =<html>
          <head>
               <title>title</title>
               <meta charset="utf-8">
               <link rel="stylesheet" type="text/css" href="style.css">
 6
               <script src="script.js"></script>
         </head>
          <body>
               <h1 id="title">Title</h1>
10
               <div id="bootje">zie ginds komt de stoomboot</div>
11
12
          </body>
     </html>
13
14
```



Demo JS

```
■ style css 🖾 🗎 index.html 🗵 🗎 script.js 🗵 🛗 script.js 🗵
     window.addEventListener("load", function () {
          var bootje = document.getElementById('bootje');
  2
          var positionX = 350;
  3
  4
  5
           function float () {
               bootje.style.left = positionX + "px";
  6
           setInterval(float,1);
  9
 10
```

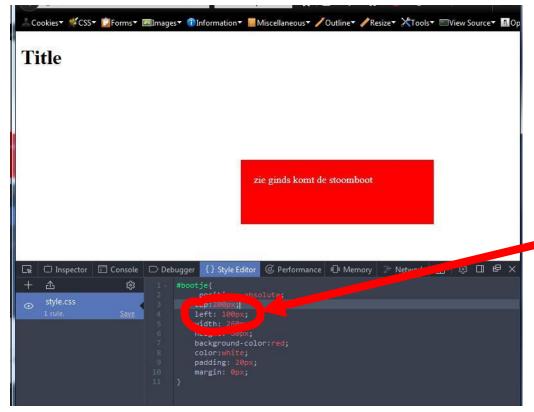


Demo CSS

```
    style.css ☑    index.html ☑    script is ☑

     =#bootje{
            position: absolute;
  3
           top:200px;
           left: 100px;
           width: 260px;
           height: 60px;
  6
           background-color:red;
           color:white;
  8
           padding: 20px;
           margin: 0px;
 10
```

HTML + CSS + JavaScript = resultaat



"overschreven" door Java Script



Plaats Static Grid

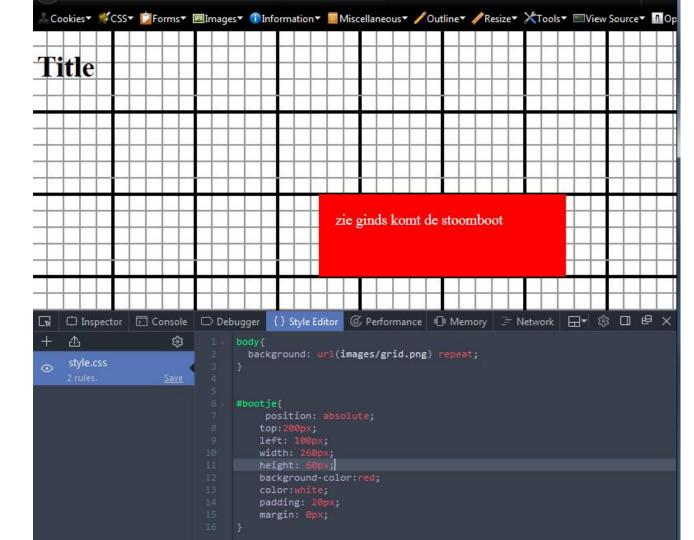
```
. Cookies▼ 🕊 CSS▼ 📋 Forms▼ 📼 Images▼ 🕦 Information▼ 📕 Miscellaneous▼ 🦯 Outline▼ 🥒 Resize▼ 🤾 Tools▼ 📼 View Source▼ 🔟 Op
Title
                                 zie ginds komt de stoomboot
   企
                        background: url(images/grid.png) repeat;
```

```
body{
   background: url(images/grid.png) repeat;
}
```

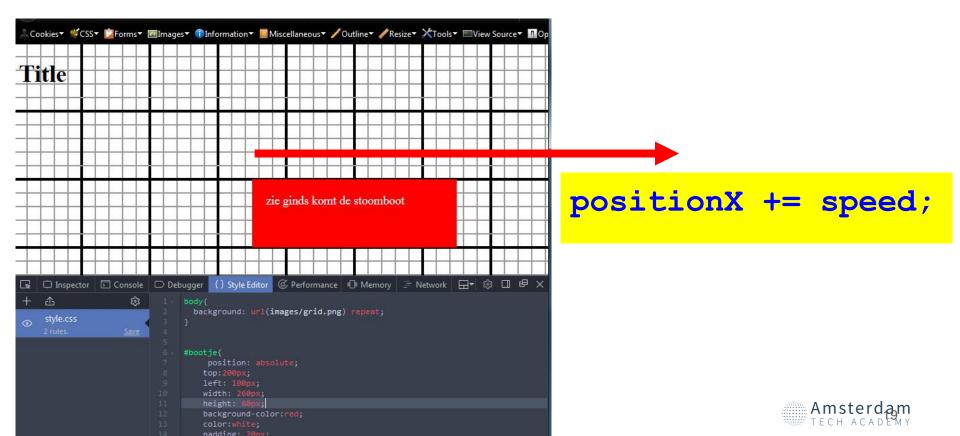
Check de Coördinaten van de Rechthoek

```
X = 350 px

Y = 200 px
```



Geef rechthoek een horizontale snelheid

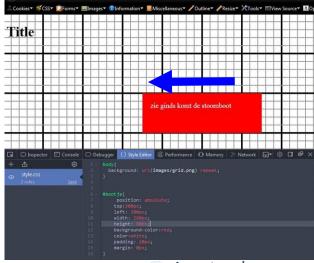


Geef rechthoek een horizontale snelheid

```
style.css 🔀 🔚 index.html 🔀 👑 script.js 🔀 🔡 script js 🔀 🔡 style.css 🔀
      =window.addEventListener("load", function ()
              var bootje = document.getElementById('bootje');
              var positionX = 100;
              var speed = 1;
                                                                                     #CSS▼ Forms▼ Images▼ Information▼ Miscellaneous▼ / Outline▼ / Resize▼ **Tools▼ Images▼
   5
              function float () {
                    bootje.style.left = positionX + "px";
                    positionX += speed;
   8
                                                                                                    zie ginds komt de stoomboot
   9
              setInterval(float,1);
        })
                                                                                              background: url(images/grid.png) repeat;
 12
```

Omkeren horizontale snelheid

```
if(positionX > 1000 || positionX < 100) {
    speed = -speed;
}</pre>
```

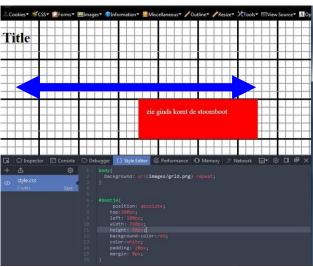




Opdracht:

http://blanken5.home.xs4all.nl/varen.html

In de eerste video zie je de opdracht.







Nuttige links

https://developer.mozilla.org/en-

US/docs/Web/API/Document Object Model/Introduction

