

BASICS

jQuery Library

WHAT IS JQUERY?

- free, open JavaScript library
- easy to use
- works across modern browsers
- abstracts away browser-specific features
- allowing you to concentrate on design

INTRODUCTION TO JAVASCRIPT



HTML

markup language
content



CSS

style language
presentation



JavaScript

scripting language
behaviour

SCRIPTING LANGUAGE?

- Can't communicate with OS
- Can't access local files
- Can't directly access database
- Can't access hardware
- Client-side language
- Works on DOM

SCRIPTING LANGUAGE?

Client Computer

Web Browser

Web Page

JavaScript

Web Server

Sql, Python, PHP,
ASP, .Net, Ruby on
Rails, usw...

DOCUMENT OBJECT MODEL

```
<!doctype>
<html>
  <head>
    <link rel="stylesheet" href="css/style.css" />
  </head>
  <body>

    <nav>
      <a href="index.html" >Home</a>
      <a href="gallery.html" >Gallery</a>
      <a href="local.html" >Location</a>
    </nav>

    <div id="page">
      <h1>Hello World</h1>
    </div>

    <script src="js/jquery.min.js" ></script>
    <script src="js/script.js" ></script>
  </body>
</html>
```

DOCUMENT OBJECT MODEL

```
<!doctype>
<html>
  <head>
    <link rel="stylesheet" href="css/style.css" />
  </head>
  <body>

    <nav>
      <a href="index.html" >Home</a>
      <a href="gallery.html" >Gallery</a>
      <a href="local.html" >Location</a>
    </nav>

    <div id="page">
      <h1>Hello World</h1>
    </div>

    <script src="js/jquery.min.js" ></script>
    <script src="js/script.js" ></script>
  </body>
</html>
```

HTML

DOCUMENT OBJECT MODEL

```
<!doctype>
<html>
  <head>
    <link rel="stylesheet" href="css/style.css" />
  </head>
  <body>

    <nav>
      <a href="index.html" >Home</a>
      <a href="gallery.html" >Gallery</a>
      <a href="local.html" >Location</a>
    </nav>

    <div id="page">
      <h1>Hello World</h1>
    </div>

    <script src="js/jquery.min.js" ></script>
    <script src="js/script.js" ></script>
  </body>
</html>
```

HTML

HEAD

BODY

DOCUMENT OBJECT MODEL

```
<!doctype>
<html>
  <head>
    <link rel="stylesheet" href="css/style.css" />
  </head>
  <body>
```

HTML

HEAD

BODY

```
    <nav>
      <a href="index.html" >Home</a>
      <a href="gallery.html" >Gallery</a>
      <a href="local.html" >Location</a>
    </nav>
```

nav

```
  <div id="page">
    <h1>Hello World</h1>
  </div>
```

```
  <script src="js/jquery.min.js" ></script>
  <script src="js/script.js" ></script>
</body>
</html>
```

DOCUMENT OBJECT MODEL

```
<!doctype>
<html>
  <head>
    <link rel="stylesheet" href="css/style.css" />
  </head>
  <body>

    <nav>
      <a href="index.html" >Home</a>
      <a href="gallery.html" >Gallery</a>
      <a href="local.html" >Location</a>
    </nav>

    <div id="page">
      <h1>Hello World</h1>
    </div>

    <script src="js/jquery.min.js" ></script>
    <script src="js/script.js" ></script>
  </body>
</html>
```

HTML

HEAD

BODY

nav

a

a

a

DOCUMENT OBJECT MODEL

```
<!doctype>
<html>
  <head>
    <link rel="stylesheet" href="css/style.css" />
  </head>
  <body>

    <nav>
      <a href="index.html" >Home</a>
      <a href="gallery.html" >Gallery</a>
      <a href="local.html" >Location</a>
    </nav>

    <div id="page">
      <h1>Hello World</h1>
    </div>

    <script src="js/jquery.min.js" ></script>
    <script src="js/script.js" ></script>
  </body>
</html>
```

HTML

HEAD

BODY

nav

a

a

a

div #page

DOCUMENT OBJECT MODEL

```
<!doctype>
<html>
  <head>
    <link rel="stylesheet" href="css/style.css" />
  </head>
  <body>

    <nav>
      <a href="index.html" >Home</a>
      <a href="gallery.html" >Gallery</a>
      <a href="local.html" >Location</a>
    </nav>

    <div id="page">
      <h1>Hello World</h1>
    </div>

    <script src="js/jquery.min.js" ></script>
    <script src="js/script.js" ></script>
  </body>
</html>
```

HTML

HEAD

BODY

nav

a

a

a

div #page

h1

DOCUMENT OBJECT MODEL

```
<!doctype>
<html>
  <head>
    <link rel="stylesheet" href="css/style.css" />
  </head>
  <body>

    <nav>
      <a href="index.html" >Home</a>
      <a href="gallery.html" >Gallery</a>
      <a href="local.html" >Location</a>
    </nav>

    <div id="page">
      <h1>Hello World</h1>
    </div>

    <script src="js/jquery.min.js" ></script>
    <script src="js/script.js" ></script>
  </body>
</html>
```

HTML

HEAD

BODY

nav

a

a

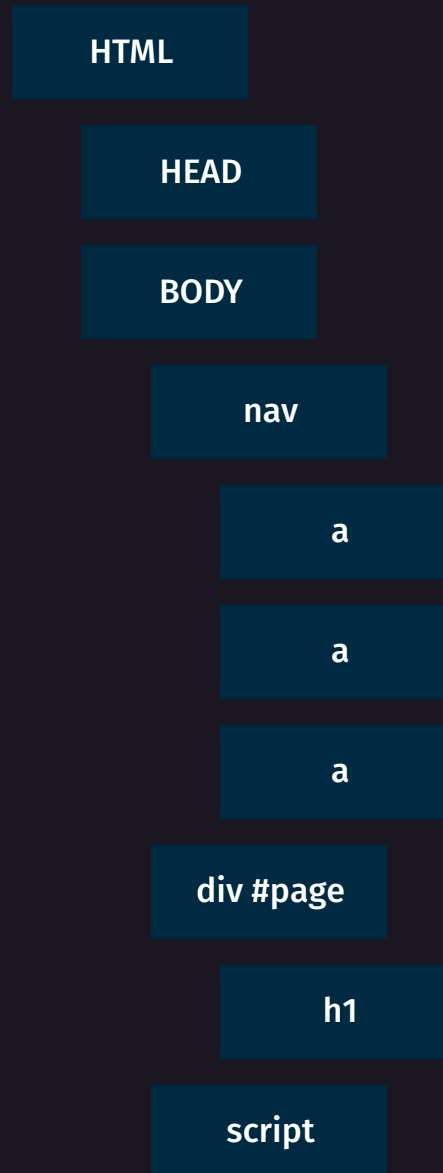
a

div #page

h1

script

DOCUMENT OBJECT MODEL



DOCUMENT OBJECT MODEL

```
<!doctype>
```

```
<html>
```

```
  <head>
```

```
    <link rel="stylesheet" href="style.css">
```

```
  </head>
```

```
  <body>
```

```
    <nav>
```

```
      <a href="#home">Home</a>
```

```
      <a href="#about">About</a>
```

```
      <a href="#contact">Contact</a>
```

```
    </nav>
```

```
    <div id="page">
```

```
      <h1>Home</h1>
```

```
    </div>
```

```
    <script src="script.js"></script>
```

```
    <script>
```

```
  </body>
```

HTML

HEAD

BODY

nav

a

a

a

div #page

h1

script

JAVASCRIPT VS JQUERY

JavaScript

```
document.getElementById("box").style.display = "none";
```

jQuery

```
$("#box").hide();
```


JAVASCRIPT VS JQUERY

JavaScript

```
var h1 = document.createElement("h1");  
h1.innerHTML = "my text";  
document.getElementsByTagName("body")[0].appendChild(h1);
```

jQuery

```
$("box").append( $("<h1/>").text() );
```

JQUERY SYNTAX

Keyword *Functionsname*

|

|

```
$("#box").append( $("#<h1/>").text() );
```



Parameter

ENABLE JQUERY IN YOUR PAGE

embed local

```
<script src="jquery.js"></script>
```

embed remote

```
<script src="https://code.jquery.com/jquery-2.1.4.min.js"></script>
```

ENABLE JQUERY IN YOUR PAGE

ready Event / Startpoint

```
$(document).ready( function(){  
    // Script goes here  
});
```

or

```
$( function(){  
    // Script goes here  
});
```

SHOW / HIDE

```
$("#myId").show();
```

```
$("#myId").hide();
```

SHOW / HIDE

Keyword

Functionsname

```
$( "#myId" ).show();
```

jQuery DOM Object

Parameter

BASIC SELECTORS

TagName

```
$("div").show();
```

```
$("p") $("a") $("nav")
```

ID

```
$("#myId").show();
```

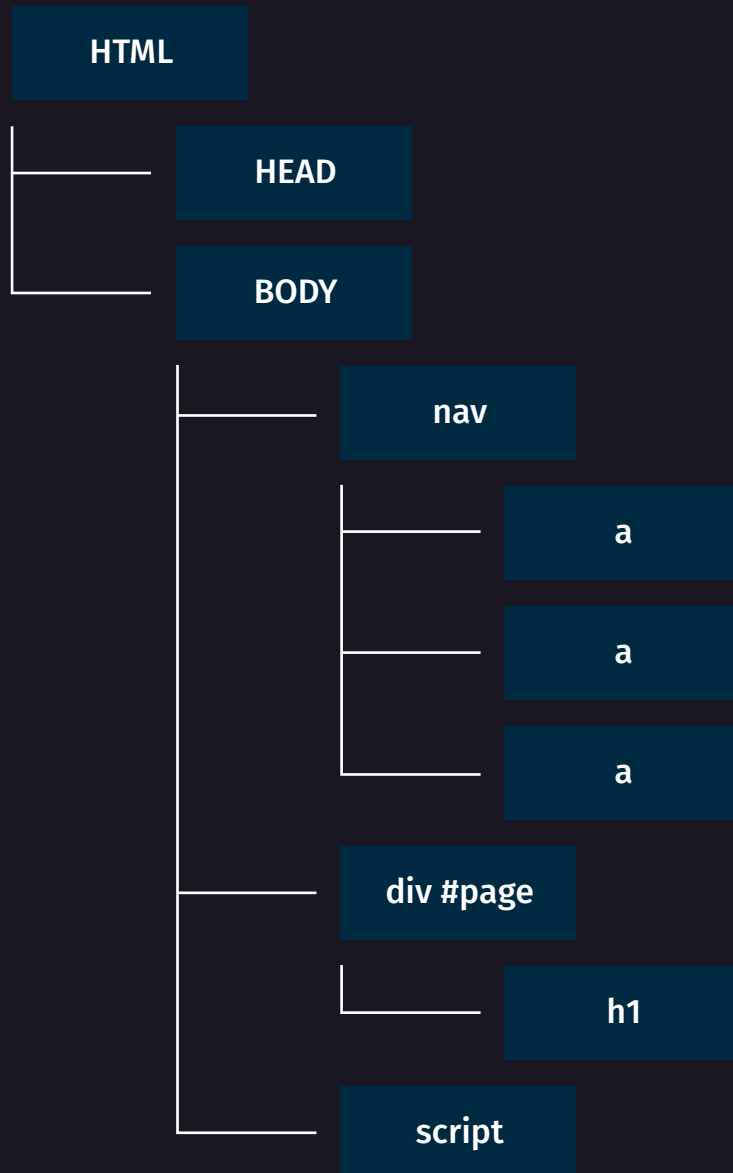
```
$("#myId div")
```

Class

```
$(".myClass").show();
```

```
$(".myClass.open")
```

ZUSAMMENFASSUNG



```
<script src="jquery.js"></script>
```

```
$( function(){  
    // Script goes here  
});
```

```
$("div").show(); // Tag Name
```

```
$("#myId").show(); // ID (fast!)
```

```
$(".myClass").show(); // Class
```