

Web Programming with The Laravel Framework

#2 - Front-end Programming

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Core structure of HTML

```
1 <!DOCTYPE html>
2 <html>
3
4 <head>
5   <title>Hello Web Programming!</title>
6 </head>
7
8 <body>
9   <h1>Hello Web Programming!</h1>
10 </body>
11
12 </html>
```

Listing: HTML structure - 2_intro_web.html



Cascading Stylesheets (CSS)

CSS

It allows you to create great-looking web pages.

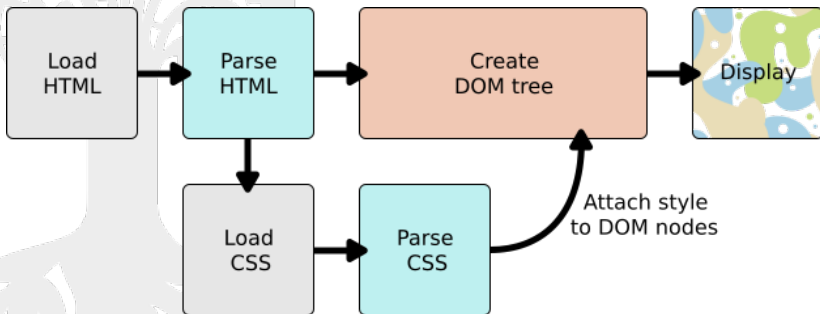


Figure: https://developer.mozilla.org/en-US/docs/Learn/CSS/First_steps/How_CSS_works

Adding CSS Into HTML

Adding CSS into HTML:

- External
- Internal
- Inline



External

```
7 <link rel="stylesheet" href="2-front-css.css">
```

Listing: Link it to external (2-front-w-css.html)

```
1 h1{  
2   color : red;  
3 }
```

Listing: External css file (2-front-css.css)

```
18 <!-- style took from external css file -->  
19 <h1>H1: Hello CSS!</h1>
```

Listing: Header tag <h1> (2-front-w-css.html)



Internal

```
10 <style>
11   h2 {
12     color: blue;
13   }
14 </style>
```

Listing: Internal (2-front-w-css.html)

```
21 <!-- style took from internal declaration -->
22 <h2>You promise to help us create a great-looking web page
   .</h2>
```

Listing: Header tag <h2> (2-front-w-css.html)



Inline

25 `<h3 style="color: green;">Is it true?</h3>`

[Listing: Header tag <h3> \(2-front-w-css.html\)](#)

Javascript

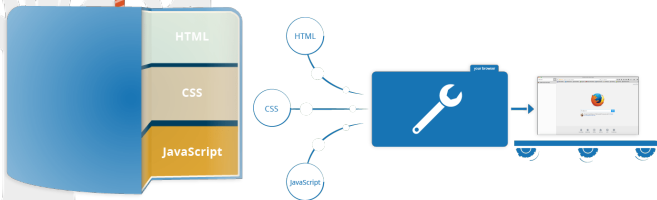


Figure: html+css+javascript [1]

Adding Javascript

External

```
5 <script src="2-hello.js"></script>
```

Listing: External (2-html-js.html)

```
1 // Notify function
2 function notifyMe() {
3     alert("Hello");
4 }
```

Listing: External-JS (2-hello.js)

Internal

```
14 <script>
15     const pSelect = document.getElementById("pSelector");
16     pSelect.addEventListener('click', clickSelector);
17     function clickSelector() {
18         alert("Hello World!");
19     }
20 </script>
```

Listing: Internal (2-html-js.html)

Adding Javascript

```
1 <html>
2
3 <head>
4   <!-- External Javascript -->
5   <script src="2-hello.js"></script>
6 </head>
7
8 <body>
9   <p style="color: rebeccapurple;">Javascript</p>
10  <p id="pSelector" style="cursor: pointer;">Hello World!</p>
11  <button onclick="notifyMe()">Notify!</button>
12
13  <!-- Inline Javascript -->
14  <script>
15    const pSelect = document.getElementById("pSelector");
16    pSelect.addEventListener('click', clickSelector);
17    function clickSelector() {
```

Listing: 2-html-js.html



Adding Javascript

```
18     alert("Hello World!");
19   }
20 </script>
21 <!-- External Javascript -->
22 <!-- Optional location to put external link for javascript
    -->
23 <!-- <script src="2-hello.js"></script> -->
24 </body>
25
26 </html>
```

Listing: 2-html-js.html



Web Form

```
1 <!-- <form action="handler" method="{post | get}" enctype="
  "multipart/form-data" target="{_self | _blank}"> -->
```

Listing: Web form format

```
9 <h2>Login</h2>
10 <form action="2-handler-web-form.php" method="post" target
   = "_self">
11 <label for="uNameId">Username:</label>
12 <input type="text" id="uNameId" name="uName"><br>
13 <label for="uPasswordId">Password:</label>
14 <input type="password" id="uPasswordId" name="uPassword"
   ><br>
15 <input type="submit" value="submit">
```

Listing: Login form



Form Tag Property

method

- **get**, send information to handler by binding it with target address.
- **post**, send information to handler but hide it from user
- **put**, create a new resource (can not be use in standard form)
- **delete**, remove a resource (can not be use in standard form)

target

- **_self**, open in current web page
- **_blank**, open in new web page
- **_parent**, open in parent frame
- **_top**, open in top frame
- **framename**, open in *framename*

enctype="multipart/form-data", this property is needed when you need to upload file using form.



Form Elements

- **input**, type="button | checkbox | color | date | datetime-local | email | file | hidden | image | month | number | password | radio | range | reset | submit | text". ex. `<input type="submit">`
- **textarea**
- **button**
- **select**
- **option**
- **optgroup**
- **fieldset**
- **label**
- **output**

see example in file: 2-web-form-elements.html



Uploading file

Don't forget to set **read**, **write** to target folder

```
1 <?php
2     if(isset($_FILES['uploadFile'])){
3         move_uploaded_file($_FILES['uploadFile']['tmp_name'], "
4         upload/". $_FILES['uploadFile']['name']);
5         echo "Success";
6     }else{
7         echo "Choose file!";
8     }
9 ?>
10 <html>
11     <body>
12         <form action="" method="POST" enctype="multipart/form-
13         data">
14             <label for="uploadFileId">Choose your file</label>
15             <input type="file" name="uploadFile" id="
16             uploadFileId">
17             <input type="submit" value="upload">
18         </form>
19     </body>
20 </html>
```

Listing: Upload file



Reference

- [1] **What is JavaScript?** Apr. 2022. URL: https://developer.mozilla.org/en-US/docs/Learn/JavaScript/First_steps/What_is_JavaScript.

