Scripting Languages

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scripting, languages -> { Bash, Woode JS, Ruly, Python, Perl?

- Scripts and Programs,
- Origin of Scripting,
- Scripting Today,
- Characteristics of Scripting Languages,
- Uses for Scripting Languages,
- Web Scripting,
- the universe of Scripting Languages.

Advantages (of seripting) languages

- (1) Easy harming
- 2 fast editing
- (3) Interactivity
- 4 tunctionality

Scripta and Programs

A script is a type of program that is usually interpreted rather than compiled. This means scripte are reften inecreted by another program, whereas the programs can be executed chrectly by the computers operating system.

Scripte are coften used for automation taske for adding interactivity to used pages. Programs can be used for used range of purposes including standalone applications.

Pragrams can les surittemen différent programming languages and can trange from small stilitue to large applications. Like us word/Adolow photoshop.

Origin of Deripting Languages

(1) Snipting Languages were developed in 1980s as a way to automate taske and simplify frogramming. 1980 - first scripting language -> TCL (Tool Command Language)

2) Perl -> 1987 by Larry wall, designed trainely for text processing but became from for deep development in 1990s

3) Python (1991)
Ruley (1995)
Javaseript (1995) - Natocape "very flexible & adaptable"

PHP - purposed but now compiled often.

separate presentation of when the content won two contents

> CSS

(caseading otyle sheeta)

(5) HTML (Tim Bernera-Lee) in 1993

HTML 2.0 (1995)
HTML 3.2 (1997)
HTML 5 (2008)

Support for graphics, vides, audio

1999 -> W3C -> XHTML (XML+ HTML)

Script and Program

Les can be executed directly by computer a OS

Les type of program that is interpreted rather than compiled

scripts are often executed by another program

- Introduction: Concept of WWW, Internet and WWW,
- HTTP Protocol:
 - Request and Response,
 - Web browser and
 - Web servers,
- HTML Basic –
- Structure of HTML documents, HTML Elements, Linking in HTML, Anchor Attributes, Image Maps, Meta Information, Layouts, Tables, Audio and Video Support with HTML. Interactive Layout with Frames, FORMS, Form Control.

Origin and characteratica of acripting languages (bash, ruly, nodezs, python)

HTML + CSS + Journal " missel yeursel body chent requests for website - client somer sends (Brown) met server langual HTML+CSS+JS -> Backend manttyq < rade 75

HTML (Hypentest Monkup Language)

- standard markup language forguing a alatic skeleton to web application & webester.
- It is a well standardized system.

CSS (Caacadung Style Graits)

- species for nontatriang aft illmort at beau at tott spangeant tout ill ill is a light of the presentation of wellings Containing. HTML o

 Throken was websited beautiful and modern looking.

Jamescript (JS)

- -> high Luel dynamic interpreted programming language.
- allows client-side scripting to create completely dynamic web applications

```
meta tays -> SEO aprimization
<!DOCTYPE html>
<html lang="en">
                                                 Internet Explorer
<!-- head contains all the metatags -->
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-</pre>
scale=1.0">
    <title>Lucky</title>
</head>
<!-- body contains the content of the web page -->
<body>
   Hello Lucky
                                         Structure of HTML doc
</body>
</html>
```

head

mota tags

```
<!-- head contains all the metatags -->
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <meta name="description" content="This is description">
    <meta name="keywords" content="html, python, web development">
    <!-- <meta name="robots" content="NOINDEX, NOFOLLOW"> -->
    <meta name="robots" content="INDEX, FOLLOW">
    <!-- This is how we include external css -->
                                                    Jor Promote
    <link rel="stylesheet" href="temp.css">
    <!-- This is how we include external js -->
    <script src="temp.js"></script>
    <title>Lucky</title>
</head>
```

Emmet > set of plugens for text editors for fast voding El éditing HTML, XML etc

Heading Tag

```
<h1>Hello World</h1>
<h2>Hello World</h2>
<h3>Hello World</h3>
<h4>Hello World</h4>
<h5>Hello World</h5>
<h6>Hello World</h6>
```

Paragraph Tag

This is a paragraph

Hello World

Hello World

Hello World

Hello World

Hello World

Hello World

```
<strong>This is strong.<em>This is emphasized.
```

```
<a href="https://google.com">Go to google</a>
                                                   anchor tag
<a href="https://facebook.com">Go to facebook</a>
<a href="https://twitter.com">Go to twitter</a>
                                                     20> 4/a7
<a href="https://amazon.com">Go to amazon</a>
<a href="https://amazon.com" target="_blank">Go to amazon</a>
         tremusal larrebuis
                                      L> open ûn new tal mage tag
<a href="tut4.html">tut4</a>
<img src="pp.jpg" alt="Error Loading Image">
                                   - if failed to load image, them show this
            → path to ûmeys
(url/uri)
                                           image tag
<amp src = path alt = ""> </amp>
```

Lista Lot E) unordered list

<

< 101 type = 11/> </i> < 111> This is first item

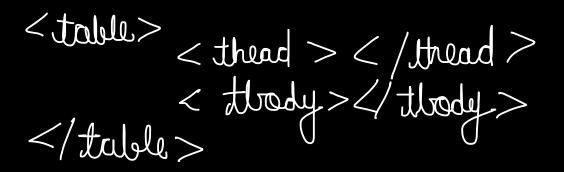
```
Square, disc, circle
This is the first item
     This is the second item
     <l
        This is first item of second-item
        This is second item of second-item list
     This is the third item
  type="i">
     This is the first item
     This is the second item
     This is the third item
```

- This is the first item
- This is the second item

list

- This is first item of second-item list
- This is second item of second-item list
- This is the third item.
- i. This is the first item
- ii. This is the second item
- iii. This is the third item





HTML Table

Student Name	Student ID	University Roll No
Deepankar Sharma	20041299	2092014
Sooraj	20041245	2092045

```
<!-- Tables -->
<h3>HTML Table</h3>
<thead>
    Student Name
      Student ID
      University Roll No
    </thead>
  Deepankar Sharma
      20041299
      2092014
    Sooraj
      20041245
      2092045
```



<h3>Forms</h3>

<div>

</div>

</form>

<form action="backend.php">

Forms
Name:
Role:
Email:
Date: mm/dd/yyyy 🖃
Number:
Write about yourself:
<i>i</i>
Gender: Male O Female O Other O
Education: 10 🗹 12 🗆 Graduation 🗆
submit reset

```
Favourite TV Show: The Witcher
```

<div>

```
Name: <input type="text" name="myName">
                                                                        <label for="show id">Favourite TV Show: </label>
</div><br>
                                                                        <select name="" id="show id">
<div>
                                                                             <option value="1">The Flash</option>
   Role: <input type="text" name="myRole">
                                                                            <option value="2">Arrow</option>
</div><br>
                                                                            <option value="3">Peaky Blinders</option>
                                                                            <option value="4" selected>The Witcher</option>
<div>
                                                                        </select>
   Email: <input type="email" name="myEmail" id="">
                                                                    </div><br>
</div><br>
<div>
   Date: <input type="date" name="myDate" id="">
</div><br>
<div>
   Number: <input type="number" name="" id="">
</div><br>
<div>
   Write about yourself: <br>
   <textarea name="" id="" cols="30" rows="5"></textarea>
</div><br>
<div>
   Gender: Male<input type="radio" name="" id=""> Female<input type="radio" name="" id="">
    Other<input type="radio" name="" id="">
</div><br>
<div>
   Education: 10<input type="checkbox" name="" id="" checked> 12<input type="checkbox" name="" id="">
     Graduation<input type="checkbox" name="" id="">
</div><br>
<div>
    <input type="submit" value="submit">
   <input type="reset" value="reset">
```

Black El Inline Flementa L juilblack content warap

```
This is a paragraph
This is a paragraph
This is a span
```

This is a paragraph

This is a paragraph

This is a span This is a span

ID and classes

```
<div id="mainbox" class="redBg blackBorder">
    <!-- id (identifier) -->
    This is mainbox
</div>
<!-- Emmet -->
<!-- . is for class and # is for id -->
<span class="redBg"></span>
<!-- span#mainId + <Tab> -->
<span id="mainId"></span>
<!-- div.hello.world.class4 + <Tab> -->
<div class="hello world class4"></div>
<!-- Emmet takes div tag as default -->
<!-- .blackBaground + <Tab> -->
<div class="blackBackground"></div>
<!-- Multiple of the tags -->
<!-- .class1.class2*4 + <Tab> -->
<div class="class1 class2">hello</div>
<div class="class1 class2">hello2</div>
<div class="class1 class2">hello3</div>
<div class="class1 class2">hello4</div>
```

HTML Entitles

* Redried **

```
This is a paragraph

This is a paragraph

paragraph tag is 
pound is written like this £

copyright is written like this ©

this is written like this →

this is written like this ¼

Empty character is written like this
```

```
<div class="container">
      This is a paragraph
  </div>
  <div class="container">
      This is a        paragraph
      <!-- <> -->
      >paragraph tag is <p&gt; 
      >pound is written like this £ 
      copyright is written like this © 
      this is written like this → 
      this is written like this ¼ 
      Empty character is written like this ​ 
   </div>
```

<h3>Semantic tags</h3>
<details>

Sementic Tags

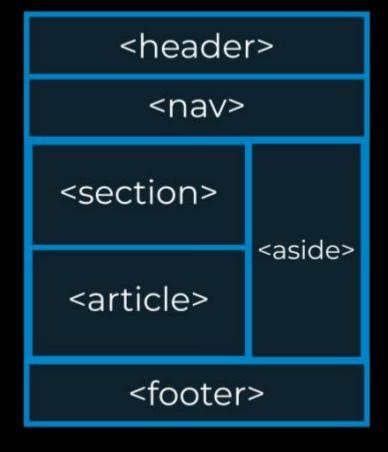
<summary>Details</summary>

Lorem ipsum dolor sit amet consectetur adipisicing elit. Reprehenderit, ipsum esse enim tempore dignissimos vero maiores deleniti a obcaecati neque maxime adipisci est nostrum, magnam, sed consequatur quibusdam quasi mollitia. Aut nobis reiciendis porro consequuntur exercitationem tempore quod corporis assumenda numquam. Nesciunt explicabo accusantium sequi, minima laborum saepe illo accusamus est. Beatae mollitia, alias maxime voluptate provident dicta quod quae.

</details>

Semantic tags

▶ Details



Semantic tags

▼ Details

Lorem ipsum dolor sit amet consectetur adipisicing elit. Reprehenderit, ipsum esse enim tempore dignissimos vero maiores deleniti a obcaecati neque maxime adipisci est nostrum, magnam, sed consequatur quibusdam quasi mollitia. Aut nobis reiciendis porro consequantur exercitationem tempore quod corporis assumenda numquam. Nesciunt explicabo accusantium sequi, minima laborum saepe illo accusamus est. Beatae mollitia, alias maxime voluptate provident dicta quod quae.

Mid Term

Lista in HTML

```
<body>
  <!-- unordered list -->
  Coffee
     Tea
     Milk
  <!-- ordered list -->
  <01>
     Coffee
     Tea
     Milk
  <!-- description list -->
  <d1>
     <dt>Coffee</dt>
     <dd>- black hot drink</dd>
     <dt>Milk</dt>
     <dd>- white cold drink</dd>
  </dl>
</body>
```

table in HTML

Hyper Link

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body bgcolor="lightblue">
    <a href="https://github.com/ideepankarsharma2003">This is my github
profile</a>
</body>
</html>
```

```
<body>
       <form action="" method="post">
        <label for="username">Username:</label>
        <input type="text" id="username" name="username" required><br><br>
        <label for="email">Email:</label>
        <input type="email" id="email" name="email" required><br><br>>
        <label for="password">Password:</label>
        <input type="password" id="password" name="password" required><br><br>
        <label for="confirm_password">Confirm Password:</label>
        <input type="password" id="confirm password" name="confirm password" required><br><br>
        <label for="gender">Gender:</label>
        <input type="radio" id="male" name="gender" value="male" required>
        <label for="male">Male</label>
        <input type="radio" id="female" name="gender" value="female" required>
        <label for="female">Female</label>
        <input type="radio" id="other" name="gender" value="other" required>
        <label for="other">Other</label><br>
            <input type="submit" value="Register">
   </form>
</body>
```

- CSS:
- Introduction,
- Benefits of CSS,
- types of CSS,
- Selector and types,
- text formatting properties,
- Box Model concept,
- CSS Border,
- margin properties, Positioning, color properties, Classes in CSS, concept of Ids pseudo classes.

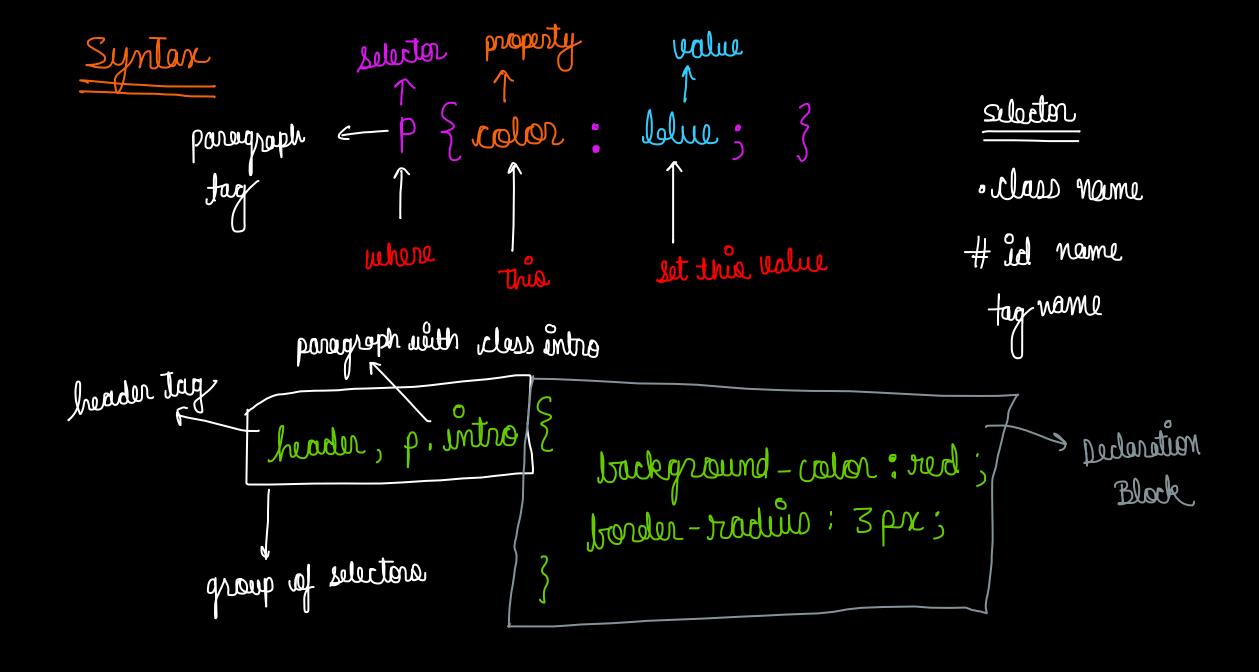
What is CSS? — makes our restaites beautiful & mordern Looking.

diaktop

Same uelooite

> Mobile

- 1 CSS gues style to row HTML
- 2) CSS standa for Cascading Style Sheets
- 3) CSS is noed to give style to our web pages
- (4) CSS la male male melesites responsible.
- HTML is used to structure a website (6) CSS takes responsibility of design



3 ways to add CSS to the MARKUP

2p style="7"> ---
HTML code

1 Inline CSS css is added to the elements directly using style athibute.

2 Internal CSS CSS is kept inside the head tags in 2 in 2 style > tags

```
3) External CSS CSS is kept separately invoide a CSS style sheet.
```

aly 220. atenque a superate .CSS file

2 unclude that in the markup

```
color: aqua;
background: blue;
```

<link rel="stylesheet" href="tut13.css">

Adding CSS to HTML: Inline & Internal

```
<!DOCTYPE html>
<html lang="en">
<head>
   <meta charset="UTF-8">
   <meta http-equiv="X-UA-Compatible" content="IE=edge">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>CSS Tutorial</title>
   <style>
                         1 Internal CSS
                                                             CSS Tutorial
       p{
          color: purple;
                                                             This is a great CSS Tutorial.
                                       > Inline CSS
                                                             This is another paragraph
   </style>
</head>
<body>
   <h3>CSS Tutorial</h3>
   This is a great CSS Tutorial.
   This is another paragraph
</body>
</html>
```

Adding CSS to HTML:External

```
tut 13. CSS
```

p{

```
color: aqua;
<!DOCTYPE html>
                                                                               background: blue;
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>CSS Tutorial</title>
    <!-- <style>
        p{
            color: purple !important;
            /* !important-> wants to take precedence otherwise the inline CSS will take precedence */
           background-color: black;
    </style> -->
    <link rel="stylesheet" href="tut13.css">
</head>
<body>
    <h3>CSS Tutorial</h3>
    <!-- <p style="color:red;background-color: yellow;">This is a great CSS Tutorial. -->
    This is another paragraph
</body>
</html>
```