

INTRODUCTION OF WEB DEVELOPMENT



ArunKumar.E

Reg:24524U18012

Web development

1. Definition - The process of creating and maintaining websites or web applications.
2. Front-End Development (Client-Side) Focuses on what the user sees and interacts with. Uses HTML, CSS, and JavaScript.
3. Full-Stack Development Combines both front-end and back-end skills.

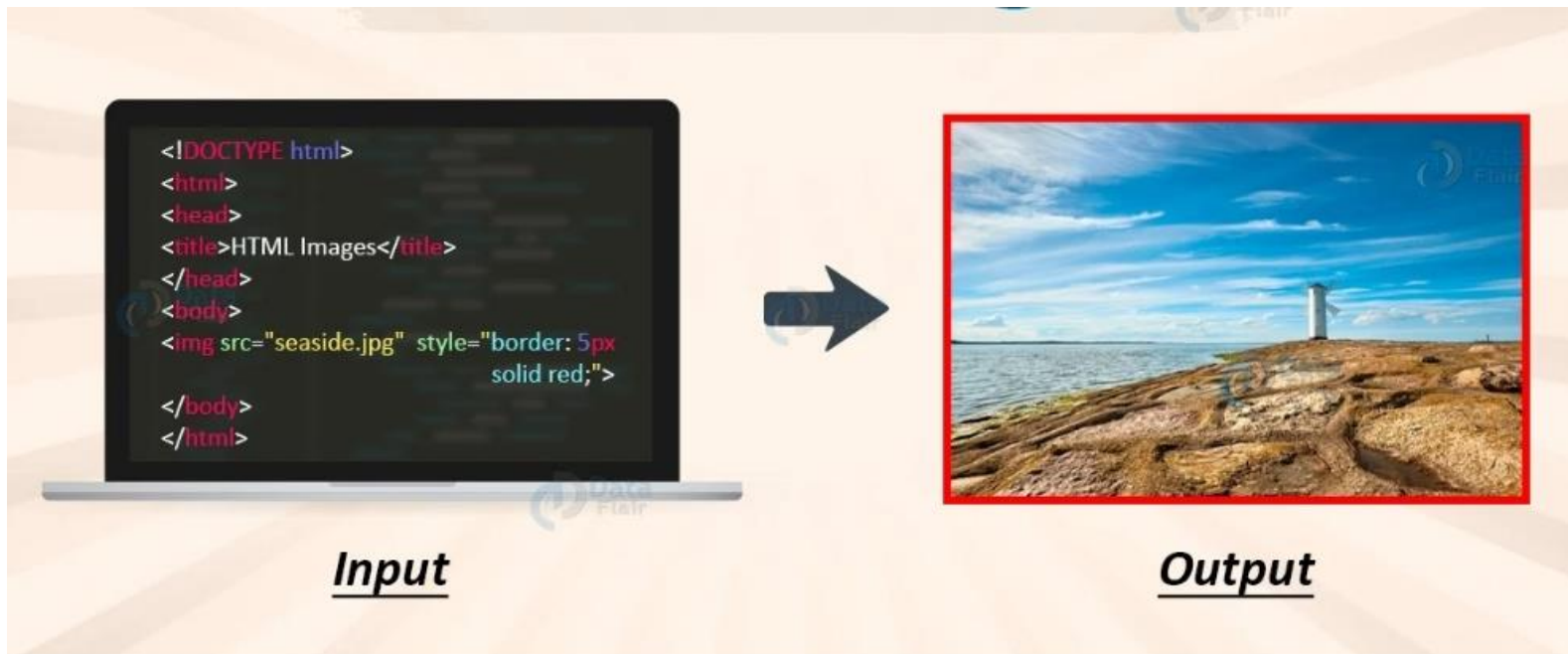


INTRODUCTION OF HTML

- ▶ HTML stands for Hyper Text Markup Language
- ▶ HTML is the standard markup language for creating Web pages
- ▶ HTML describes the structure of a Web page
- ▶ HTML consists of a series of elements



EXAMPLE



INTRODUCTION OF CSS

1. CSS stands for Cascading Style Sheets
2. CSS describes how HTML elements are to be displayed on screen, paper, or in other media
3. CSS saves a lot of work. It can control the layout of multiple web pages all at once

SYNTAX

```
<!DOCTYPE html>
<html>
<head>
  <title>CSS Background Image</title>
  <style type="text/css">
    body{
      background-image: linear-gradient(pink, purple);
      height: 150px;
    }
  </style>
</head>
<body>
  <h1>The background-image property</h1>
  <p>Hello World</p>
</body>
</html>
```

EXAMPLE

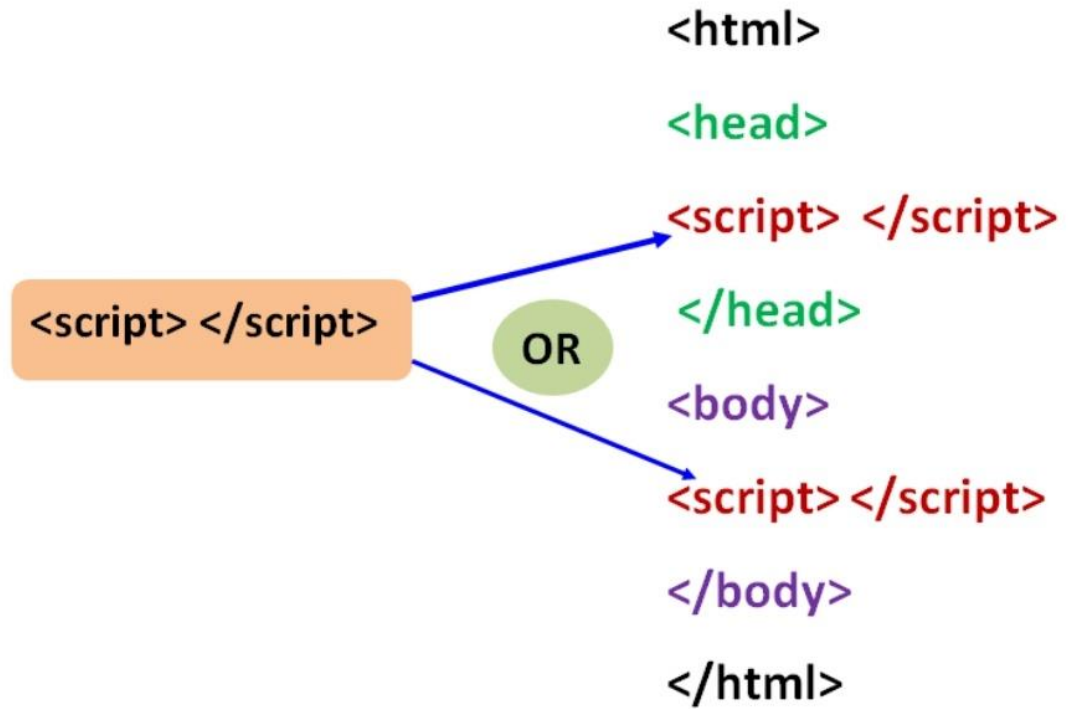
```
<html>  
  <head>  
    <link rel="stylesheet"  
      href="mystyle.css">  
  </head>  
</html>
```

INTRODUCTION OF JAVASCRIPT


- ▶ 1. *Web page manipulation*: JavaScript can manipulate HTML and CSS, allowing for dynamic updates to web page content and layout.
- ▶ 2. *User interaction*: JavaScript can respond to user input, such as form submissions, button clicks, and keyboard input
- ▶ 3. *Animations and effects*: JavaScript can create animations, transitions, and other visual effects to enhance user experience.



SYNTAX



EXAMPLE



```
JS myfirstapp.js X
NodeJsApps > JS myfirstapp.js
1 console.log('Hello, Node.js!');

JS myfirstapp.js JS myserverapp.js X
NodeJsApps > JS myserverapp.js > ...
1 const express = require('express');
2 const app = express();
3 const PORT = 3000;
4
5 app.get('/', (req, res) => {
6   res.send('Hello, Express!');
7 });
8
9 app.listen(PORT, () => {
10   console.log(`Server is running on http://localhost:${PORT}`);
11 });
```

HTML TAGS

- ▶ HTML tags are the building blocks of web pages. They tell the browser how to structure and display content.
- ▶ A tag usually has an opening tag `<tagname>` and a closing tag `</tagname>` with content in between

HTML TAGS EXAMPLE

```
<html ng-app>
<head>
  <script src="angular.js"></script>
  <script src="controllers.js"></script>
</head>
<body>
  <div ng-controller='HelloController'>
    <input ng-model='greeting.text'>
    <p>{{greeting.text}}, World</p>
  </div>
</body>
</html>
```

CONCLUSION

Conclusion

- The **Last Paragraph**
 - concise and clear "take home" message
 - avoiding repetition of concepts already expressed
- Should include
 - interpretation of your results
 - summarize all of the concepts that you introduced in the main body of the text
 - in order of most to least important
- No new concepts are to be introduced in this section



REFERENCES

References

- Cite only those scientific publications on which the work is based and cited in your paper
- Write in order
 - As they appear in the manuscript
- Do not inflate with too many references
- Recent publications should be prioritised <10yrs old
- Avoid
 - Citing articles from predatory journals
 - Self-citations
 - Personal communications



A Very Special
"Thank You!"