

Entities, Symbols, Charset

Hypertext Markup Language 5 (HTML5)

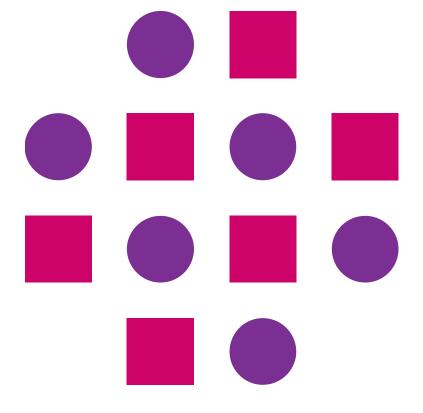
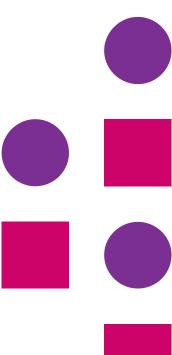


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Entities

- Reserved characters in HTML must be replaced with character entities.
- Characters that are not present in keyboard can also be replaced by entities.
- Some characters are reserved in HTML.

For example less than(<) or greater than(>) signs in the text browser might mix them with tags.



Character Entity

A character entity can be represented as &entity_name;

or

&#entity_number;

so to display a less than sign(<) we must write < or <



Entities

<u>Advantages</u>

An entity name is easy to remember.

<u>Disadvantages</u>

 Browser may not support all entity names but the support for number is good.



Javascript

Javascript makes HTML more dynamic and interactive.

Javascript is lightweight and cross platform.

The <script> tag is used to define a client-side script.

The <script> element either contains scripting statements or it points to an external script file.



JavaScript Example

```
!DOCTYPE html>
<html>
<body>
<h1>JavaScript Example</h1>
JavaScript can change the content of an HTML element:
<button type="button" onclick="myFunction()">Click Me!</button>
Welcome to Javascript Page
<script>
function myFunction() {
  document.getElementById("demo").innerHTML = "Hello Friends!";
</script>
</body>
</html>
```







HTML Symbols

Many Mathematical ,technical and currency symbols ,are not present on a normal keyboard.

To add such symbols to an HTML page you can use an HTML Entity name.

If no entity name exists, we can use an entity number, a decimal, or hexadecimal reference.



HTML Symbols

Example

Output will be : €

Output will be : €

Output

Output will be €

Output will be €







HTML Charset

To display an HTML page correctly, a web browser must know the character set used in the page.



Character Encoding

A character encoding is method of converting bytes into characters.

- ASCII was the first character encoding standard. ASCII defined 127 different alphanumeric characters.
- ANSI was the original Windows character set, with support for 256 different character code.
- ISO-8859-1 was the default character set for HTML 4. ANSI & ISO-8859-1 were so limited so default character encoding was changed to UTF-8 in HTML5.



The Charset Attribute

Charset is specified in the <meta> tag.

<meta charset="UTF-8">







URL(Uniform Resource Locator)

- A Uniform Resource Locator (URL) is used to address a document on the web
- A web address follows these rules
 - Scheme://prefix.domain:port/path/filename



URL

- scheme defines the type of Internet service(http or https)
- prefix defines a domain prefix(www)
- domain defines the Internet domain
- port defines the port number at the host (default for http is 80)
- path defines a path at the server
- filename defines the name of a document or resource



URL Encoding

- URL encoding converts characters into a format that can be transmitted over Internet
- Any attribute with a value that is a URL must be URL-encoded
- Example
 - <a href>
 -
 - <iframe src>



URL Encoding

- URLs can only be sent over the internet using the ASCII character-set
- URL encoding replaces unsafe ASCII characters with a "%" followed by two hexadecimal digits
- URLs cannot contain spaces. URL encoding normally replaces a space with a plus(+) sign or with %20











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