



**Session: Markup with Metadata** 

## Markup with Metadata



- The metadata means information about data.
- This metadata HTML provides information about HTML Document or in simple words, it provides important information about a document.
- These tags are basically used to add name/value pairs to describe properties of HTML documents, such as expiry date, author name, list of keywords, document author, scripts and links etc.
- You can add metadata to your web pages by placing <meta> tags inside the header of the document which is represented by <head> and </head> tags.



## Markup with Metadata



### **Types of Metadata:**

- 1. Meta Tags
  - a. Author name
  - b. Document Description
  - c. Keywords
  - d. Document Revised date
  - e. Document Refreshing
  - f. Charset and viewports
- 2. Script tag
- 3. Noscript tag
- 4. Links Tag





- The <meta> tag is used to provide such additional information.
- This tag is an empty element and so does not have a closing tag but it carries information within its attributes.
- You can include one or more meta tags in your document based on what information you want to keep in your document.
- In general, meta tags do not impact physical appearance of the document so from appearance point of view, it does not matter if you include them or not.
- You can add metadata to your web pages by placing <meta> tags inside the header of the document which is represented by <head> and </head>
- Metadata will not be displayed on the page, but is machine parsable.
- Metadata is used by browsers (how to display content or reload page), search engines (keywords), and other web services.





Syntax: <meta attribute-name="value">

#### **Attributes:**

Attribute	Value	Description
charset	character_set	Specifies the character encoding for the HTML document
content	text	Specifies the value associated with the http-equiv or name attribute
http-equiv	content-security-policy content-type default-style refresh	Provides an HTTP header for the information/value of the content attribute
name	application-name author description generator keywords viewport	Specifies a name for the metadata





## A) Setting Author Name in Meta Tag:

The name of the author can be set on a web page through an HTML document using a meta tag.





### **B) Document Description with Meta Tag:**

You can use <meta> tag to give a short description about the document. This again can be used by various search engines while indexing your webpage for searching purpose.





## C) Specifying Keywords with Meta Tag:

You can use <meta> tag to specify important keywords related to the document and later these keywords are used by the search engines while indexing your webpage for searching purpose.





## D) Document Revision Date with Meta Tag:

You can use <meta> tag to give information about when last time the document was updated. This information can be used by various web browsers while refreshing your webpage.





## **E)** Document Refreshing with Meta Tag:

A <meta> tag can be used to specify a duration after which your web page will keep refreshing automatically.

**Snippet:** If you want your page keep refreshing after every 5 seconds then use the following syntax









## F) Specify Character Set with Meta Tag:

You can use <meta> tag to specify character set used within the webpage.

**Snippet:** By default, Web servers and Web browsers use ISO-8859-1 (Latin1) encoding to process Web pages. Following is an example to set UTF-8 encoding –





### **G)** Setting the Viewport with Meta Tag:

The viewport is the user's visible area of a web page. It varies with the device - it will be smaller on a mobile phone than on a computer screen.

**Snippet:** You should include the following <meta> element in all your web pages:





## **G)** Setting the Viewport with Meta Tag:

You should include the following <meta> element in all your web pages:

Syntax:<meta name="viewport" content="width=device-width, initial-scale=1.0">

- ➤ This gives the browser instructions on how to control the page's dimensions and scaling.
- ➤ The width=device-width part sets the width of the page to follow the screen-width of the device (which will vary depending on the device).
- ➤ The initial-scale=1.0 part sets the initial zoom level when the page is first loaded by the browser.





### **G)** Setting the Viewport with Meta Tag:

Here is an example of a web page *without* the viewport meta tag, and the same web page *with* the viewport meta tag:







Without the viewport meta tag

With the viewport meta tag



#### **G)** All Meta Tags:

As Mentioned Earlier we can add one or more meta tags in your document

```
<!DOCTYPE html>
<html>
  <head>
    <!-- meta tag starts -->
       <title>Meta Tags Example</title>
       <meta charset="UTF-8">
      <meta name="description" content="Learning about Meta Tags.">
      <meta name="keywords" content="HTML, Meta Tags, Metadata">
      <meta name="author" content="Sai Vardhan">
      <meta name = "revised" content = "Codegnan, 3/7/2019" />
      <meta http-equiv = "refresh" content = "5" />
      <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <!-- meta tag ends -->
  </head>
  <body>
   Hello World! Setting Character set Example
  </body>
</html>
```



