

# Unit 1 : Advanced HTML Programming

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# Topics

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- Recap Basic HTML
- Div Tag
  - Properties
- Span Tag
- I Frame
- Metadata
  - Title
  - Keywords
  - Description
  - Image alt



# div Tag

- The <div> tag defines a division or a section in an HTML document
- The <div> tag is often used to group block-elements to format them with styles
- ```
<div style="color:#00FF00">  
  <h3>This is a header</h3>  
  <p>This is a paragraph.</p>  
</div>
```
- The <div> tag is supported in all major browsers



# div Tag

The <div> tag supports the following standard attributes:

Attribute	Value	Description
class	<i>classname</i>	Specifies a classname for an element
dir	rtl ltr	Specifies the text direction for the content in an element
id	<i>id</i>	Specifies a unique id for an element
lang	<i>language_code</i>	Specifies a language code for the content in an element
style	<i>style_definition</i>	Specifies an inline style for an element
title	<i>text</i>	Specifies extra information about an element
xml:lang	<i>language_code</i>	Specifies a language code for the content in an element, in XHTML documents



# div Tag

The <div> tag supports the following event attributes:

Attribute	Value	Description
onclick	<i>script</i>	Script to be run on a mouse click
ondblclick	<i>script</i>	Script to be run on a mouse double-click
onmousedown	<i>script</i>	Script to be run when mouse button is pressed
onmousemove	<i>script</i>	Script to be run when mouse pointer moves
onmouseout	<i>script</i>	Script to be run when mouse pointer moves out of an element
onmouseover	<i>script</i>	Script to be run when mouse pointer moves over an element
onmouseup	<i>script</i>	Script to be run when mouse button is released
onkeydown	<i>script</i>	Script to be run when a key is pressed
onkeypress	<i>script</i>	Script to be run when a key is pressed and released
onkeyup	<i>script</i>	Script to be run when a key is released



# span Tag

- The HTML `<span>` tag is used for grouping and applying styles to inline elements
- The `<span>` tag provides no visual change by itself
- The difference between the `<span>` tag and the `<div>` tag is that the `<span>` tag is used with inline elements whilst the `<div>` tag is used with block-level content
- `<p>The <span style="color:green">span tag</span>` and the `<span style="color:purple">div` tag</span> are not the same</p>





# span Tag

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style	<i>style_definition</i>	Specifies an inline style for an element
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onkeydown	<i>script</i>	Script to be run when a key is pressed
onkeypress	<i>script</i>	Script to be run when a key is pressed and released
onkeyup	<i>script</i>	Script to be run when a key is released





# iframe Tag

- The HTML iframe tag is used to specify an inline frame
- An inline frame allows you to embed another document within the current HTML document
- You use the iframe src attribute to specify the source of the other document
- Example:
  - `<iframe src="anotherpage.htm" width="200" height="150" scrolling="auto" frameborder="1">`  
This is information inside the frame  
`</iframe>`



# iframe Tag

## Attributes specific to this tag:

Attribute	Description
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name	Assigns a name to a frame. This is useful for loading contents into one frame from another.
longdesc	A long description - this can elaborate on a shorter description specified with the title attribute.
width	Specifies the width of the inline frame.
height	Specifies the height of the inline frame.

## Other Attributes:

Attribute	Description
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class	Document wide identifier.
id	Document wide identifier
title	Specifies a title to associate with the element. Many browsers will display this when the cursor hovers over the element (similar to a "tool tip").
style	Inline style (CSS)
src	Location of the frame contents (for example, the HTML page to be loaded into the frame).
scrolling	Whether the frame should be scrollable or not (i.e. should scrollbars appear). Possible values: <ul style="list-style-type: none"><li>• <b>auto</b>: This value means that scrollbars should appear on the frame, only if the contents of the framed page are too big to fit inside the frame</li><li>• <b>yes</b>: Scrollbars should always appear on the frame, regardless of the size of its contents</li><li>• <b>no</b>: Scrollbars should not appear, even if the contents are too big for the frame</li></ul>
frameborder	Whether the frame should have a border or not. Possible values: <ul style="list-style-type: none"><li>• <b>1</b>: The frame should have a border</li><li>• <b>0</b>: The frame should not have a border</li></ul>
marginwidth	Specifies the margin, in pixels, between the frame's contents and it's left and right margins.
marginheight	Specifies the margin, in pixels, between the frame's contents and it's top and bottom margins.
align	For alignment. Possible values: <ul style="list-style-type: none"><li>• <b>left</b>: Text is rendered flush left</li><li>• <b>center</b>: Text is centered</li><li>• <b>right</b>: Text is rendered flush right</li><li>• <b>justify</b>: Text is justified to both margins</li></ul>

# Metadata

- Metadata is information about data
- The <meta> tag provides metadata about the HTML document. Metadata will not be displayed on the page, but will be machine parsable
- Meta elements are typically used to specify page description, keywords, author of the document, last modified, and other metadata
- The <meta> tag always goes inside the head element
- The metadata can be used by browsers (how to display content or reload page), search engines (keywords)
- Metadata is always passed as name/value pairs



# Metadata

- `<head>`
  - `<meta name="description" content="Skill Assure Training" />`
  - `<meta name="keywords" content="HTML,CSS, Advanced" />`
  - `<meta name="author" content="Krishna Kumar S" />`
  - `<meta http-equiv="content-type" content="text/html; charset=UTF-8"`
  - `/>`
  - `</head>`
- Sample sites
  - [http://www.metatags.org/meta\\_tags\\_code\\_generator](http://www.metatags.org/meta_tags_code_generator)
  - <http://www.xaviermedia.com/webmasters/metatags/>



# Question time

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Please try to limit the questions to the topics discussed during the session. Thank you.

