

# A Anchor tag

The <a> tag defines a hyperlink, which is used to link from one page to another.

The most important attribute of the <a> element is the href attribute, which indicates the link's destination.

By default, links will appear as follows in all browsers:

- An unvisited link is underlined and blue
- A visited link is underlined and purple
- An active link is underlined and red

## Attributes = New in HTML5.

Attribute	Value	Description
<a href="#">charset</a>	<i>char_encoding</i>	<b>Not supported in HTML5.</b> Specifies the character-set of a linked document
<a href="#">coords</a>	<i>coordinates</i>	<b>Not supported in HTML5.</b> Specifies the coordinates of a link
<a href="#">download</a>	<i>filename</i>	Specifies that the target will be downloaded when a user clicks on the hyperlink
<a href="#">href</a>	<i>URL</i>	Specifies the URL of the page the link goes to
<a href="#">hreflang</a>	<i>language_code</i>	Specifies the language of the linked document
<a href="#">media</a>	<i>media_query</i>	Specifies what media/device the linked document is optimized for

<a href="#"><u>name</u></a>	<i>section_name</i>	<p>Not supported in HTML5. Use the global <a href="#"><u>id attribute</u></a> instead.</p> <p>Specifies the name of an anchor</p>
<a href="#"><u>ping</u></a>	<i>list_of_URLs</i>	Specifies a space-separated list of URLs to which, when the link is followed, post requests with the body ping will be sent by the browser (in the background). Typically used for tracking.
<a href="#"><u>rel</u></a>	alternate author bookmark external help license next nofollow noreferrer noopener prev search tag	Specifies the relationship between the current document and the linked document
<a href="#"><u>rev</u></a>	<i>text</i>	<p>Not supported in HTML5.</p> <p>Specifies the relationship between the linked document and the current document</p>
<a href="#"><u>shape</u></a>	default rect circle poly	<p>Not supported in HTML5.</p> <p>Specifies the shape of a link</p>
<a href="#"><u>target</u></a>	_blank _parent _self _top <i>framename</i>	Specifies where to open the linked document
<a href="#"><u>type</u></a>	<i>media_type</i>	Specifies the media type of the linked document

# <a> charset Attribute

`<a charset="UTF-8" href="https://www.flipkart.com">www.flipkart.com</a>`

## Syntax

`<a charset="value">`

## Attribute Values

Value	Description
<i>character_set</i>	<p>The character-set of the linked document.</p> <p>Common character sets:</p> <ul style="list-style-type: none"><li>• UTF-8 - Character encoding for Unicode</li><li>• ISO-8859-1 - Character encoding for the Latin alphabet</li></ul> <p>In theory, any character-set can be used, but no browser understands all of them. The more widely a character-set is used, the better the chance that a browser will understand it.</p>

# <a> coords Attribute

## Definition and Usage

The `<a> coords` attribute is not supported in HTML5.

The `coords` attribute is used together with the [shape](#) attribute to specify the size, shape, and placement of a link in an `<object>` or `<img>` element.

The coordinates of the top-left corner are 0,0.

**Tip:** To create image-maps that works in all browsers, use the [<area>](#) element!

## Syntax

`<a coords="value">`

# Attribute Values

Value	Description
-------	-------------

<i>x1,y1,x2,y2</i>	If the shape attribute is set to "rect", it specifies the coordinates of the top-left corner and the bottom-right corner of the rectangle
--------------------	---

<i>x,y,radius</i>	If the shape attribute is set to "circle", it specifies the coordinates of the circle center and the radius
-------------------	---

<i>x1,y1,x2,y2,..,xn,yn</i>	If the shape attribute is set to "poly", it specifies the coordinates of the edges of the polygon. If the first and last coordinate pairs are not the same, the browser must add the last coordinate pair to close the polygon
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## <a> download Attribute

### Definition and Usage

The download attribute specifies that the target will be downloaded when a user clicks on the hyperlink.

This attribute is only used if the href attribute is set.

The value of the attribute will be the name of the downloaded file. There are no restrictions on allowed values, and the browser will automatically detect the correct file extension and add it to the file (.img, .pdf, .txt, .html, etc.).

If the value is omitted, the original filename is used.

### Syntax

```
<a download="filename">
```

### Attribute Values

Value	Description
<i>filename</i>	Optional. Specifies the new filename for the downloaded file

# <a> href Attribute

## Definition and Usage

The href attribute specifies the URL of the page the link goes to.

If the href attribute is not present, the <a> tag is not a hyperlink

## Syntax

<a href="URL">

## Attribute Values

Value	Description
<i>URL</i>	<p>The URL of the link.</p> <p>Possible values:</p> <ul style="list-style-type: none"> <li>• An absolute URL - points to another web site (like href="http://www.example.com/default.htm")</li> <li>• A relative URL - points to a file within a web site (like href="default.htm")</li> <li>• Link to an element with a specified id within the page (like href="#top")</li> <li>• Other protocols (like https://, ftp://, mailto:, file:, etc..)</li> <li>• A script (like href="javascript:alert('Hello');")</li> </ul>

# <a> hreflang Attribute

## Definition and Usage

The hreflang attribute specifies the language of the linked document.

This attribute is only used if the href attribute is set.

# Syntax

```
<a hreflang="language_code">
```

# Attribute Values

Value	Description
<i>language_code</i>	A two-letter language code that specifies the language of the linked document. To view all available language codes,

# ISO 639-1 Language Codes

ISO 639-1 defines abbreviations for languages.

In HTML and XHTML they can be used in the lang and xml:lang attributes.

See also: next reference for country codes.

Language	ISO Code
Abkhazian	ab
Afar	aa
Afrikaans	af
Akan	ak
Albanian	sq

Amharic	am
Arabic	ar
Aragonese	an
Armenian	hy
Assamese	as
Avaric	av
Avestan	ae
Aymara	ay
Azerbaijani	az
Bambara	bm
Bashkir	ba
Basque	eu
Belarusian	be
Bengali (Bangla)	bn

Bihari	bh
Bislama	bi
Bosnian	bs
Breton	br
Bulgarian	bg
Burmese	my
Catalan	ca
Chamorro	ch
Chechen	ce
Chichewa, Chewa, Nyanja	ny
Chinese	zh
Chinese (Simplified)	zh-Hans
Chinese (Traditional)	zh-Hant
Chuvash	cv



Cornish	kw
Corsican	co
Cree	cr
Croatian	hr
Czech	cs
Danish	da
Divehi, Dhivehi, Maldivian	dv
Dutch	nl
Dzongkha	dz
English	en
Esperanto	eo
Estonian	et
Ewe	ee
Faroese	fo

Fijian	fj
Finnish	fi
French	fr
Fula, Fulah, Pulaar, Pular	ff
Galician	gl
Gaelic (Scottish)	gd
Gaelic (Manx)	gv
Georgian	ka
German	de
Greek	el
Greenlandic	kl
Guarani	gn
Gujarati	gu
Haitian Creole	ht

Hausa	ha
Hebrew	he
Herero	hz
Hindi	hi
Hiri Motu	ho
Hungarian	hu
Icelandic	is
Ido	io
Igbo	ig
Indonesian	id, in
Interlingua	ia
Interlingue	ie
Inuktitut	iu
Inupiak	ik

Irish	ga
Italian	it
Japanese	ja
Javanese	jv
Kalaallisut, Greenlandic	kl
Kannada	kn
Kanuri	kr
Kashmiri	ks
Kazakh	kk
Khmer	km
Kikuyu	ki
Kinyarwanda (Rwanda)	rw
Kirundi	rn
Kyrgyz	ky

Komi	kv
Kongo	kg
Korean	ko
Kurdish	ku
Kwanyama	kj
Lao	lo
Latin	la
Latvian (Lettish)	lv
Limburgish ( Limburger)	li
Lingala	ln
Lithuanian	lt
Luga-Katanga	lu
Luganda, Ganda	lg
Luxembourgish	lb

Manx	gv
Macedonian	mk
Malagasy	mg
Malay	ms
Malayalam	ml
Maltese	mt
Maori	mi
Marathi	mr
Marshallese	mh
Moldavian	mo
Mongolian	mn
Nauru	na
Navajo	nv
Ndonga	ng

Northern Ndebele	nd
Nepali	ne
Norwegian	no
Norwegian bokmål	nb
Norwegian nynorsk	nn
Nuosu	ii
Occitan	oc
Ojibwe	oj
Old Church Slavonic, Old Bulgarian	cu
Oriya	or
Oromo (Afaan Oromo)	om
Ossetian	os
Pāli	pi
Pashto, Pushto	ps

Persian (Farsi)	fa
Polish	pl
Portuguese	pt
Punjabi (Eastern)	pa
Quechua	qu
Romansh	rm
Romanian	ro
Russian	ru
Sami	se
Samoan	sm
Sango	sg
Sanskrit	sa
Serbian	sr
Serbo-Croatian	sh



Sesotho	st
Setswana	tn
Shona	sn
Sichuan Yi	ii
Sindhi	sd
Sinhalese	si
Siswati	ss
Slovak	sk
Slovenian	sl
Somali	so
Southern Ndebele	nr
Spanish	es
Sundanese	su
Swahili (Kiswahili)	sw

Swati	ss
Swedish	sv
Tagalog	tl
Tahitian	ty
Tajik	tg
Tamil	ta
Tatar	tt
Telugu	te
Thai	th
Tibetan	bo
Tigrinya	ti
Tonga	to
Tsonga	ts
Turkish	tr

Turkmen	tk
Twi	tw
Uyghur	ug
Ukrainian	uk
Urdu	ur
Uzbek	uz
Venda	ve
Vietnamese	vi
Volapük	vo
Wallon	wa
Welsh	cy
Wolof	wo
Western Frisian	fy
Xhosa	xh

Yiddish	yi, ji
Yoruba	yo
Zhuang, Chuang	za
Zulu	zu

# <a> media Attribute

## Definition and Usage

The media attribute specifies what media/device the linked document is optimized for.

This attribute is used to specify that the target URL is designed for special devices (like iPhone) , speech or print media.

This attribute can accept several values.

Only used if the href attribute is present.

## Possible Operators

Value	Description
and	Specifies an AND operator
not	Specifies a NOT operator
,	Specifies an OR operator

## Devices

Value	Description
all	Default. Suitable for all devices
aural	Speech synthesizers
braille	Braille feedback devices
handheld	Handheld devices (small screen, limited bandwidth)
projection	Projectors
print	Print preview mode/printed pages
screen	Computer screens
tty	Teletypes and similar media using a fixed-pitch character grid
tv	Television type devices (low resolution, limited scroll ability)

# Values

Value	Description
width	Specifies the width of the targeted display area. "min-" and "max-" prefixes can be used. Example: media="screen and (min-width:500px)"

height	Specifies the height of the targeted display area. "min-" and "max-" prefixes can be used. Example: media="screen and (max-height:700px)"
device-width	Specifies the width of the target display/paper. "min-" and "max-" prefixes can be used. Example: media="screen and (device-width:500px)"
device-height	Specifies the height of the target display/paper. "min-" and "max-" prefixes can be used. Example: media="screen and (device-height:500px)"
orientation	Specifies the orientation of the target display/paper. Possible values: "portrait" or "landscape" Example: media="all and (orientation: landscape)"
aspect-ratio	Specifies the width/height ratio of the targeted display area. "min-" and "max-" prefixes can be used. Example: media="screen and (aspect-ratio:16/9)"
device-aspect-ratio	Specifies the device-width/device-height ratio of the target display/paper. "min-" and "max-" prefixes can be used. Example: media="screen and (aspect-ratio:16/9)"
color	Specifies the bits per color of target display. "min-" and "max-" prefixes can be used. Example: media="screen and (color:3)"
color-index	Specifies the number of colors the target display can handle. "min-" and "max-" prefixes can be used. Example: media="screen and (min-color-index:256)"
monochrome	Specifies the bits per pixel in a monochrome frame buffer. "min-" and "max-" prefixes can be used. Example: media="screen and (monochrome:2)"

resolution	Specifies the pixel density (dpi or dpcm) of the target display/paper. "min-" and "max-" prefixes can be used. Example: media="print and (resolution:300dpi)"
scan	Specifies scanning method of a tv display. Possible values are "progressive" and "interlace". Example: media="tv and (scan:interlace)"
grid	Specifies if the output device is grid or bitmap. Possible values are "1" for grid, and "0" otherwise. Example: media="handheld and (grid:1)"

# <a> name Attribute

## Definition and Usage

The <a> name attribute is not supported in HTML5. Use the [id attribute](#) instead.

The name attribute specifies the name of an anchor.

The name attribute is used to create a bookmark inside a document.

## Syntax

```
<a name="value">
```

## Attribute Values

Value	Description
<i>anchor_name</i>	The name of an anchor

# <a> ping Attribute

## Definition and Usage

The ping attribute specifies a list of URLs to be notified if the user follows the hyperlink.

When the user clicks on the hyperlink, the ping attribute will send a short HTTP POST request to the specified URL.

This attribute is useful for monitoring/tracking.

## Syntax

```
<a ping="URL">
```

## Attribute Values

Value	Description
<i>URL</i>	Specifies the URL to be notified if the user follows the hyperlink. Must be a space separated list of one or more valid URLs

## <a> rel Attribute

## Definition and Usage

The rel attribute specifies the relationship between the current document and the linked document.

Only used if the href attribute is present.

## Syntax

```
<a rel="value">
```

## Attribute Values

Value	Description
alternate	Provides a link to an alternate representation of the document (i.e. page, translated or mirror)



author	Provides a link to the author of the document
bookmark	Permanent URL used for bookmarking
external	Indicates that the referenced document is not part of the same site as the current document
help	Provides a link to a help document
license	Provides a link to copyright information for the document
next	Provides a link to the next document in the series
nofollow	Links to an unendorsed document, like a paid link. ("nofollow" is used by Google, to specify that the Google search spider should not follow that link)
noreferrer	Requires that the browser should not send an HTTP referer header when it follows the hyperlink
noopener	Requires that any browsing context created by following the hyperlink should not have an opener browsing context
prev	The previous document in a selection
search	Links to a search tool for the document
tag	A tag (keyword) for the current document

## Rev and rel are both same

# <a> type Attribute

## Definition and Usage

The type attribute specifies the Internet media type (formerly known as MIME type) of the linked document.

This attribute is only used if the href attribute is set.

## Syntax

```
<a type="media_type">
```

## Attribute Values

Value	Description
<i>media_type</i>	The Internet media type of the linked document. Look at <a href="#">IANA Media Types</a> for a complete list of standard media types.

# <a> Event Attributes

## Window Event Attributes

Events triggered for the window object (applies to the <body> tag):

Attribute	Value	Description
<a href="#">onafterprint</a>	<i>script</i>	Script to be run after the document is printed

<a href="#"><u>onbeforeprint</u></a>	<i>script</i>	Script to be run before the document is printed
<a href="#"><u>onbeforeunload</u></a>	<i>script</i>	Script to be run when the document is about to be unloaded
<a href="#"><u>onerror</u></a>	<i>script</i>	Script to be run when an error occurs
<a href="#"><u>onhashchange</u></a>	<i>script</i>	Script to be run when there has been changes to the anchor part of the a URL
<a href="#"><u>onload</u></a>	<i>script</i>	Fires after the page is finished loading
onmessage	<i>script</i>	Script to be run when the message is triggered
<a href="#"><u>onoffline</u></a>	<i>script</i>	Script to be run when the browser starts to work offline
<a href="#"><u>ononline</u></a>	<i>script</i>	Script to be run when the browser starts to work online
onpagehide	<i>script</i>	Script to be run when a user navigates away from a page
<a href="#"><u>onpageshow</u></a>	<i>script</i>	Script to be run when a user navigates to a page
onpopstate	<i>script</i>	Script to be run when the window's history changes
<a href="#"><u>onresize</u></a>	<i>script</i>	Fires when the browser window is resized
onstorage	<i>script</i>	Script to be run when a Web Storage area is updated

[onunload](#)

*script*

Fires once a page has unloaded (or the browser window has been closed)

# onafterprint Event Attribute

## Definition and Usage

The onafterprint attribute fires when a page has started printing, or if the print dialogue box has been closed.

## Syntax

*<element onafterprint="script">*

## Attribute Values

Value	Description
<i>script</i>	The script to be run on onafterprint

# onbeforeprint Event Attribute

## Definition and Usage

The onbeforeprint attribute fires when a page is about to be printed (before the print dialogue box appears).

## Syntax

*<element onbeforeprint="script">*

## Attribute Values

Value	Description
-------	-------------

*script*

The script to be run on onbeforeprint

# onbeforeunload Event Attribute

## Definition and Usage

The onbeforeunload event fires when the document is about to be unloaded.

This event allows you to display a message in a confirmation dialog box to inform the user whether he/she wants to stay or leave the current page.

The default message that appears in the confirmation box, is different in different browsers. However, the standard message is something like "Are you sure you want to leave this page?". You cannot remove this message.

However, you can write a custom message together with the default message

## Syntax

`<element onbeforeunload="script">`

## Attribute Values

Value	Description
<i>script</i>	The script to be run on onbeforeunload

# onerror Event Attribute

## Definition and Usage

The onerror attribute fires when an error occurs while loading an external file (e.g. a document or an image).

## Syntax

`<element onerror="script">`

## Attribute Values

Value	Description
<i>script</i>	The script to be run on onerror

# onhashchange Event Attribute

## Definition and Usage

The onhashchange attribute fires when there has been changes to the anchor part (begins with a '#' symbol) of the current URL.

An example of what an anchor part actually is: Assume that the current URL is `http://www.example.com/test.htm#part2` - The anchor part of this URL would be `#part2`.

To invoke this event, you can:

- Change the anchor part by setting the [location.hash](#) or [location.href](#) property of the [Location Object](#)
- Navigate to the current page with a different bookmark (Use the "back" or "forward" buttons)
- Click on a link to a bookmark anchor

- **Syntax**
- `<element onhashchange="script">`
- **Attribute Values**

Value	Description
<i>script</i>	The script to be run on onhashchange

# onload Event Attribute

## Definition and Usage

The onload attribute fires when an object has been loaded.

onload is most often used within the `<body>` element to execute a script once a web page has completely loaded all content (including images, script files, CSS files, etc.). However, it can be used on other elements as well (see "Supported HTML tags" below).

The onload attribute can be used to check the visitor's browser type and browser version, and load the proper version of the web page based on the information.

## Syntax

`<element onload="script">`

## Attribute Values

Value	Description
<i>script</i>	The script to be run on onload

## Onoffline and ononline Event Attribute

For both onoffline and ononline are same

## Definition and Usage

The onoffline attribute fires when the browser starts to work offline.

## Syntax

`<element onoffline="script">`

## Attribute Values

Value	Description
<i>script</i>	The script to be run on onoffline

## onpageshow Event Attribute

## Definition and Usage

The onpageshow event occurs when a user navigates to a webpage.

The onpageshow event is similar to the [onload](#) event, except that it occurs after the onload event when the page first loads. Also, the onpageshow event occurs every time the page is loaded, whereas the onload event does not occur when the page is loaded from the cache.

## Syntax

`<element onpageshow="script">`

## Attribute Values

Value	Description
<i>script</i>	The script to be run on onpageshow

## onresize Event Attribute

### Definition and Usage

The onresize attribute fires when the browser window is resized.

## Syntax

`<element onresize="script">`

## Attribute Values

Value	Description
<i>script</i>	The script to be run on onresize

## onunload Event Attribute

### Definition and Usage

The onunload attribute fires once a page has unloaded (or the browser window has been closed).

onunload occurs when the user navigates away from the page (by clicking on a link, submitting a form, closing the browser window, etc.)



# Syntax

`<element onunload="script">`

## Attribute Values

Value	Description
-------	-------------

<code>script</code>	The script to be run on onunload
---------------------	----------------------------------

### Example 1:

```
<html>
  <head>
    <title>Anchor tag</title>
  </head>
  <body>
    <a href="test.html">hyper link reference</a>
  </body>
</html>
```

### Example 2: Image as a link

```
<!DOCTYPE html>
<html>
<body>
  <p>
    An image as a link:
    <a href="https://www.flipkart.com">
      
    </a>
  </p>
</body>
</html>
```

### Example 3: Tag name

```
<!DOCTYPE html>
<html>
<body>
  <p>
    <a name="start">This is starting</a><br>
    <a href="#lenovo">Lenovo</a><br>
    <a href="#dell">Dell</a><br>
  </p>
<br>
```

[illegible]

<br>

[illegible]



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```

        
    </a>
    <a href="a tag.pdf" download>atag file download</a>
</body>
</html>

```

### Example 5: href types

```

<!DOCTYPE html>
<html>
<body>
    <!--opens the other web site-->
    <p>An absolute Or External URL:
        <a href="https://www.redbus.com">redbus</a></p>
    <!--opens the with in the web site-->
    <p>A relative or Internal URL:
        <a href="1.a.html">The a tag</a></p>
</body>
</html>

```

### Example 6: href language

```

<!DOCTYPE html>
<html>
<body>
    <p><a hreflang="en" href="https://www.irctc.co.in">irctc.co.in</a></p>
</body>
</html>

```

### Example 7: name

```

<!DOCTYPE html>
<html>
<body>

<p>
<a href="#C4">See also Chapter 4</a>
<a href="#end">Move to end of web page</a>
</p>

<p>
<h2>Chapter 1</h2>
<p>This chapter explains ba bla bla</p>

<h2>Chapter 2</h2>
<p>This chapter explains ba bla bla</p>

<h2>Chapter 3</h2>
<p>This chapter explains ba bla bla</p>

```



```
<h2><a name="C4">Chapter 4</a></h2>
<p>This chapter explains ba bla bla</p>

<h2>Chapter 5</h2>
<p>This chapter explains ba bla bla</p>

<h2>Chapter 6</h2>
<p>This chapter explains ba bla bla</p>

<h2>Chapter 7</h2>
<p>This chapter explains ba bla bla</p>

<h2>Chapter 8</h2>
<p>This chapter explains ba bla bla</p>

<h2>Chapter 9</h2>
<p>This chapter explains ba bla bla</p>

<h2>Chapter 10</h2>
<p>This chapter explains ba bla bla</p>

<h2>Chapter 11</h2>
<p>This chapter explains ba bla bla</p>

<h2>Chapter 12</h2>
<p>This chapter explains ba bla bla</p>

<h2>Chapter 13</h2>
<p>This chapter explains ba bla bla</p>

<h2>Chapter 14</h2>
<p>This chapter explains ba bla bla</p>

<h2>Chapter 15</h2>
<p>This chapter explains ba bla bla</p>

<h2>Chapter 16</h2>
<p>This chapter explains ba bla bla</p>

<h2>Chapter 17</h2>
<p>This chapter explains ba bla bla</p>
<a name="end"> this is end of the web page</a>
</body>
</html>
```

### Example 8: taget

```
<!DOCTYPE html>
<html>
```

```
<body>
  <p>Open link in a new window or tab:
    <a href="https://www.makemytrip.com" target="_blank">
      Visit Make my Tour</a></p>
</body>
</html>
```

### Example 9: type

```
<!DOCTYPE html>
<html>
<body>
<p>
<a href="https://www.snapdeal.com" type="text/html">snapdeal.com</a>
</p>
</body>
</html>
```