



Download **a text editor**

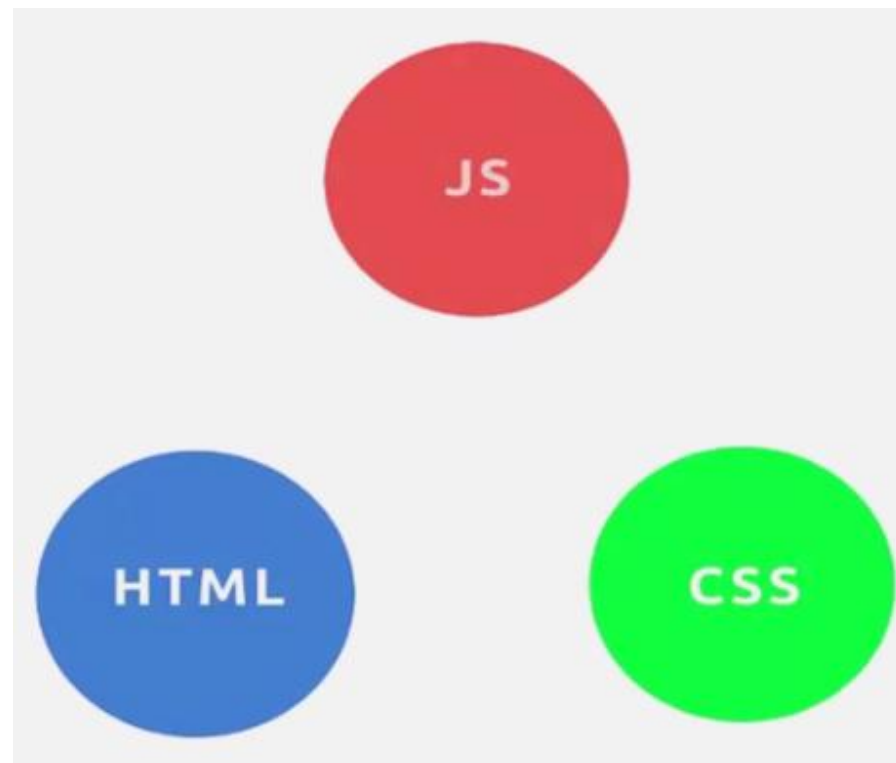
- | | |
|----------------------|----------------------|
| 1 Sublime Text | Windows, OS X, Linux |
| 2 Visual Studio Code | Windows, OS X, Linux |
| 3 Atom | Windows, OS X, Linux |
| 4 Notepad ++ | Windows |
- 

Download: <https://www.sublimetext.com/3>


Have **different browsers** installed



Download: <https://www.google.com/chrome/>



Download: <https://www.google.com/chrome/>



HTML = Hyper Text **Markup** Language

Download: <https://www.google.com/chrome/>

HTML versions:

- HTML 2.0
- HTML 3.2
- HTML 4.0
- HTML 4.0.1
- **HTML 5**



Download: <https://www.google.com/chrome/>

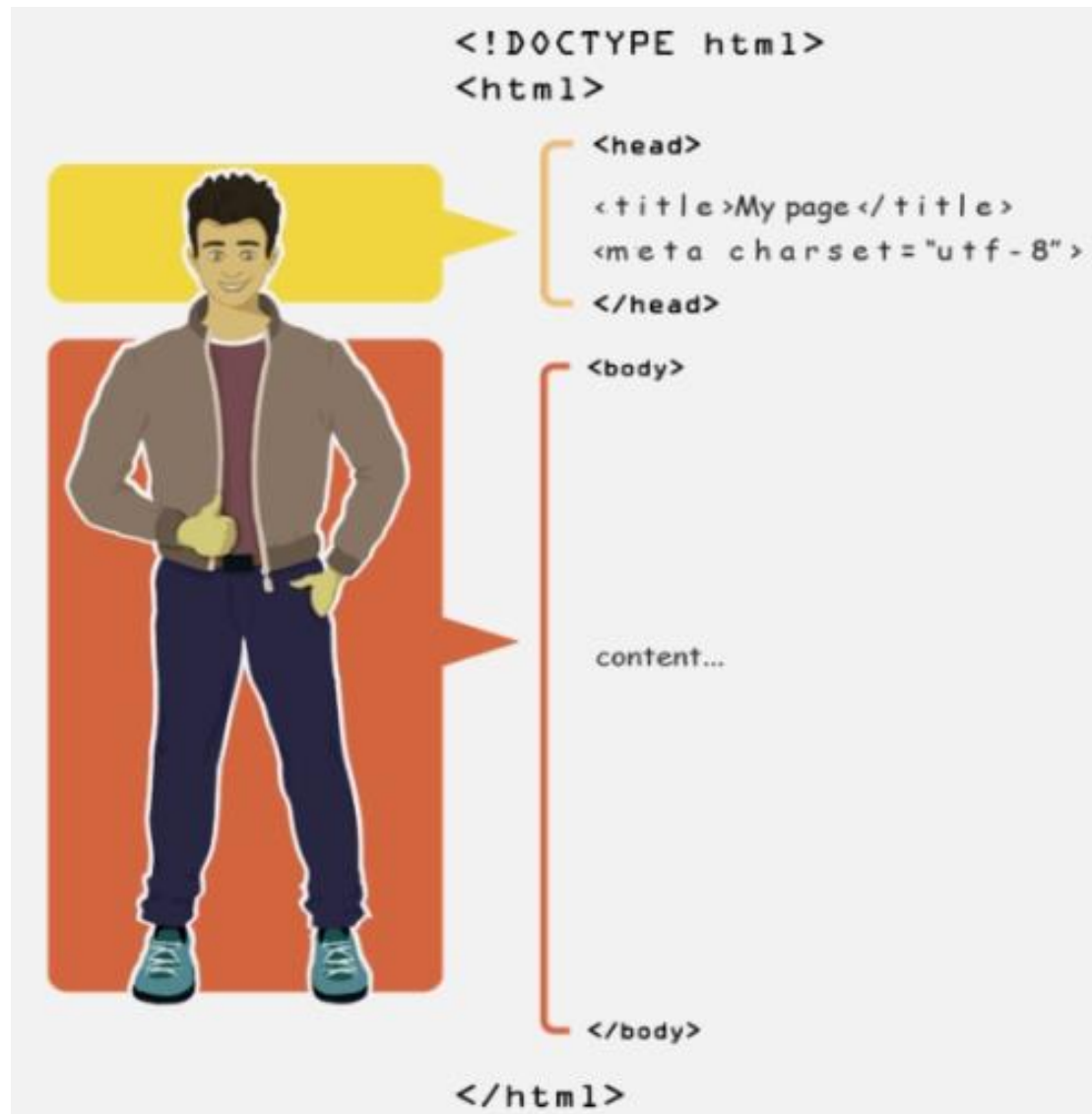


<tag>



```
<html>
<body>
<head>
<h1>
<p>
<em>
<strong>
```

Download: <https://www.google.com/chrome/>



Ref : <https://www.apple.com/>

Ref: <https://www.ebay.com/>

[View Page Source](#)

file.html



nice page.html



nice-page.html



nice_page.html



NicePage.html

Open Sublime Text

File – new file – site >> index.html

File – save



```
<!DOCTYPE html>
<html>
<head>
    <title>My Page</title>
    <meta charset="utf-8">
</head>
<body>

</body>
</html>
```



Open Sublime Text

File – new file – site >> index.html

File – save

Right click – Open in web browser

Double click – index.html



heading

`<h1>Heading</h1>`

`<h2>Heading</h2>`

`<h3>Heading</h3>`

`<h4>Heading</h4>`

`<h5>Heading</h5>`

`<h6>Heading</h6>`




Open Sublime Text

File – new file – site >> index.html


File – save

Right click – Open in web browser

Double click – index.html



```
<!DOCTYPE html>
<html>
<head>
  <title>Headings</title>
  <meta charset="utf-8">
</head>
<body>
  <h1>Coding is fun !</h1>
  <h2>Coding is fun !</h2>
  <h3>Coding is fun !</h3>
  <h4>Coding is fun !</h4>
  <h5>Coding is fun !</h5>
  <h6>Coding is fun !</h6>
</body>
</html>
```



Coding is fun !

Coding is fun !

Coding is fun !

Coding is fun !

Coding is fun !

Coding is fun !

Open Sublime Text

File – new file – site >> index.html

File – save

Right click – Open in web browser

Double click – index.html



```
<p>...</p>
```

paragraph



Open Sublime Text

File – new file – site >> index.html

File – save

Right click – Open in web browser

Double click – index.html



```
<br>
```

line break

Ref: <https://en.wikipedia.org/wiki/Lemonade>

Cannot change html look with add extra empty lines, spaces

Using pre tag – preformatted tag



`<p align = "center">...</p>`

Attribute Value

OUTDATED!

Align

left

Left-aligned

center

Centered

right

Right-aligned

justify

J u s t i f i e d t e x t



```
<strong>...</strong>
```

```
<em>...</em>
```

emphasized


```
<!DOCTYPE html>
<html>
<head>
  <title>Headings</title>
  <meta charset="utf-8">
</head>
<body>
  <h1>Coding is fun !</h1>
  <h2>Coding is fun !</h2>
  <h3>Coding is fun !</h3>
  <h4>Coding is fun !</h4>
  <h5>Coding is fun !</h5>
  <h6>Coding is fun !</h6>

  <p align="center">
    There are varieties of lemonade found throughout the world.
    <br>[1] In North America and South Asia, cloudy lemonade dominates. It is traditionally a homemade drink using lemon juice, water, and a
    sweetener such as cane sugar, simple syrup or honey.
    <br>[2] In the United Kingdom and Australia, clear lemonade, a carbonated drink, is more common.
    <br>[3][self-published source?] Despite the differences between the drinks, each is known simply as "lemonade" in countries where it is
    dominant.[3]
  </p>
  <p align="right">
    The predominant form of lemonade found in the US, Canada, and India, cloudy lemonade, also known as traditional or old fashioned lemonade in
    the UK and Australia, is typically non-carbonated and made with fresh lemon juice; however, commercially produced varieties are also
    available. Generally served cold, cloudy lemonade may also be served hot as a remedy for congestion and sore throats,[9] frozen, or used as a
    mixer.
  </p>
  <p align="justify">
    A popular variation of cloudy lemonade, pink lemonade, is created by adding additional fruit juices, flavors, or food coloring to the recipe.
    Most store-bought pink lemonade is simply colored with concentrated grape juice or dyes
  </p>
</body>
</html>
```

Lemonade Recipe

1. Combine sugar and water in a saucepan.
2. Heat and stir until the sugar dissolves.
3. Add lemon juice and ice.

Lemonade Ingredients

- 2 cups water
- ½ cup sugar
- 3 lemons
- Crushed ice





```
<ol>...</ol>
```

ordered list



```
<li>...</li>
```

list item



```
<ul>...</ul>
```

unordered list



```
<li>...</li>
```

list item

```
<h4>Lemonade Recipe</h4>
<ol>
  <li>Combile sugar and water in a saucepan</li>
  <li>Heat and stir until the sugar dissolves</li>
  <li>Add lemon juice and ice</li>
</ol>

<h4>Lemonade Ingredients</h4>
<ul>
  <li>2 cups water</li>
  <li>1/2 cup sugar</li>
  <li>3 lemons</li>
  <li>Crushed ice</li>
</ul>
```

Lemonade Recipe

1. Combile sugar and water in a saucepan
2. Heat and stir until the sugar dissolves
3. Add lemon juice and ice

Lemonade Ingredients

- 2 cups water
- 1/2 cup sugar
- 3 lemons
- Crushed ice

Use list-style attribute to change bullet

Ref: https://www.w3schools.com/css/css_list.asp

Nested Lists

1. Prepare simple syrup
 - In a small saucepan combine sugar and $\frac{1}{2}$ cup water
 - Heat water and stir occasionally to dissolve sugar
 - Set aside and let it cool
2. Prepare lemon juice
 - Squeeze juice from 5 lemons, approx. 1 cup of lemon juice
 - Slice up 1 lemon
3. Combine ingredients
 - In a pitcher, combine syrup with lemon juice
 - Add lemon slices and remaining water
 - Serve in a tall glass over ice



```

<ol>
  <li> Prepare simple syrup
    <ol type="a">
      <li>In a small saucepen combile sugar and 1/2 cup water</li>
      <li>Hit water and stir occasionally to dissolve sugar</li>
      <li>Add aside and let it cool </li>
    </ol>
  </li>
  <li>Prepare lemon juice</li>
  <ol>
    <li>Index</li>
    <li>HomePage</li>
    <li>Welcome</li>
  </ol>
  <li>Combile ingredients</li>
</ol>

<style type="text/css">
  ol {
    counter-reset: item
  }
  ol li {
    display: block
  }
  ol li:before {
    content: counters(item, ".") " ";
    counter-increment: item
  }
</style>

```

- 1 Prepare simple syrup
 - 1.1 In a small saucepen combile sugar and 1/2 cup water
 - 1.2 Hit water and stir occasionally to dissolve sugar
 - 1.3 Add aside and let it cool
- 2 Prepare lemon juice
 - 2.1 Index
 - 2.2 HomePage
 - 2.3 Welcome
- 2.4 Combile ingredients



``

image





```

```

Attribute

Value

Coding is fun !



Right click – Copy Image Address

Right click – Save Image As



```

```

alternative



Right click – Copy Image Address

Right click – Save Image As

Show alt text in case not found image path

Common Units of Measurement

px

em

%

rem



pixel – a single point on a monitor

vw

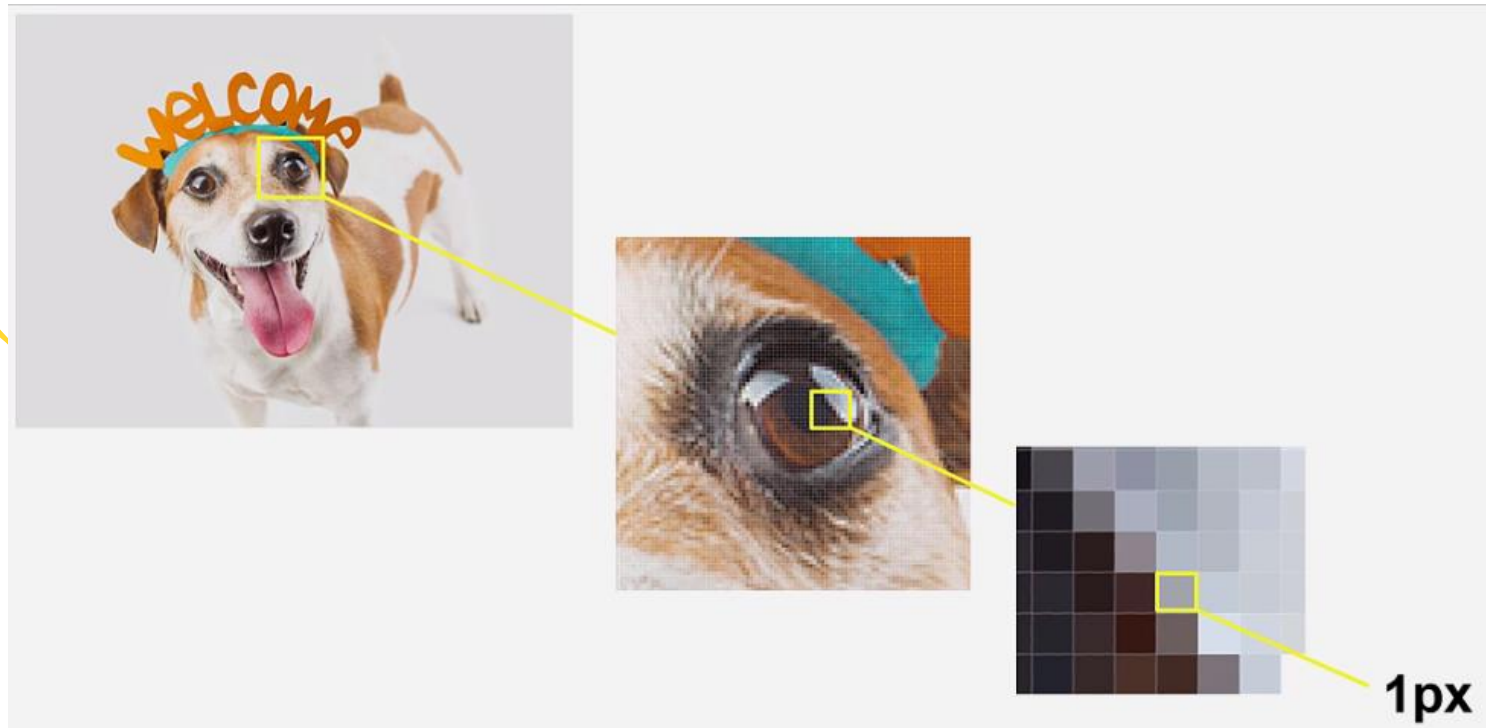
vh

vmin

vmax

Right click – Copy Image Address

Right click – Save Image As



Right click – Copy Image Address

Right click – Save Image As



Right click – Copy Image Address

Right click – Save Image As



```
<img width="500" height="500">
```

Attribute

Value



Attribute

Value

Right click – Copy Image Address



Right click – Save Image As

Default image Unit: px





Name	Age	Eye Color
Peter	18	blue
Kate	25	green
Oliver	35	brown

Create table.html file



Row 1	Name	Age	Eye Color
Row 2	Peter	18	blue
Row 3	Kate	25	green
Row 4	Oliver	35	brown

Create table.html file

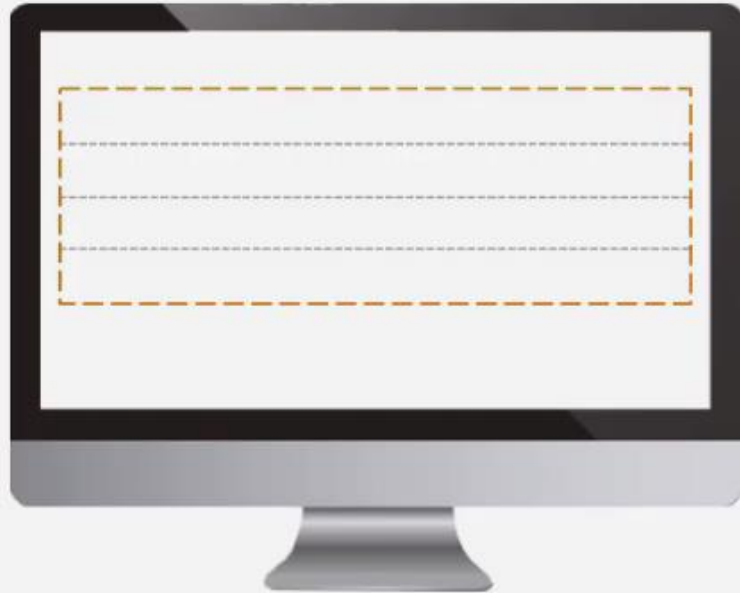


#	Tag name	Stands for
1	<code><table>...</table></code>	
2	<code><caption>...</caption></code>	
3	<code><tr>...</tr></code>	table row
4	<code><th>...</th></code>	table header
5	<code><td>...</td></code>	table data

By default, the text in `<th>` elements are bold and centered.

By default, the text in `<td>` elements are regular and left-aligned

Name	Age	Eye Color
Peter	18	blue
Kate	25	green
Oliver	35	brown

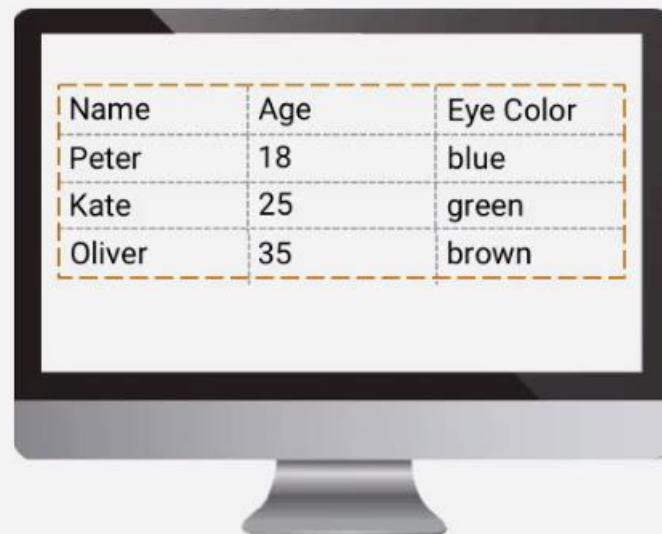


HTML

```
<table >  
  <tr>  
  
  </tr>  
  <tr>  
  
  </tr>  
  <tr>  
  
  </tr>  
  <tr>  
  
  </tr>  
</table>
```

Create table.html file

Name	Age	Eye Color
Peter	18	blue
Kate	25	green
Oliver	35	brown

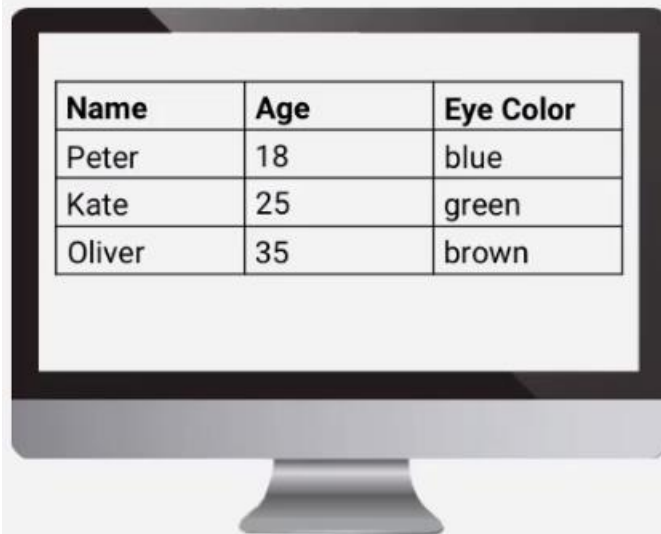


HTML

```
<table>  
  <tr>  
    <td>Name</td>  
    <td>Age</td>  
    <td>Eye Color</td>  
  </tr>  
  <tr>  
    <td>Peter</td>  
    <td>18</td>  
    <td>blue</td>  
  </tr>  
  <tr>  
    <td>Kate</td>  
    <td>25</td>  
    <td>green</td>  
  </tr>  
  <tr>  
    <td>Oliver</td>  
    <td>35</td>  
    <td>brown</td>  
  </tr>  
</table>
```

Create table.html file

Name	Age	Eye Color
Peter	18	blue
Kate	25	green
Oliver	35	brown



HTML

```
<table border = "1" cellspacing="0" >
  <tr>
    <th>Name</th>
    <th>Age</th>
    <th>Eye Color</th>
  </tr>
  <tr>
    <td>Peter</td>
    <td>18</td>
    <td>blue</td>
  </tr>
  <tr>
    <td>Kate</td>
    <td>25</td>
    <td>green</td>
  </tr>
  <tr>
    <td>Oliver</td>
    <td>35</td>
    <td>brown</td>
  </tr>
</table>
```

Add caption in front of first tr

<https://css-tricks.com/useful-nth-child-recipes/>

Table formatted

Border: 1px

Cellspace: 0

Cellpadding: 5



```
<style type="text/css">
  table tr:nth-child(2n + 3) {
    background: #dddddd;
  }
</style>
<table border="1" cellspacing="0" cellpadding="5" width="400">
  <tr>
    <th rowspan="2">Name</th>
    <th rowspan="2">Age</th>
    <th rowspan="2">Eye color</th>
    <th colspan="2">Phone</th>
  </tr>
  <tr>
    <th>Fax 1</th>
    <th>Fax 2</th>
  </tr>
  <tr>
    <td>Peter</td>
    <td>18</td>
    <td>Blue</td>
    <td>12345</td>
    <td>12345</td>
  </tr>
  <tr>
    <td>Kate</td>
    <td>22</td>
    <td>Green</td>
    <td>12346</td>
    <td>12346</td>
  </tr>
  <tr>
    <td>Oliver</td>
    <td>24</td>
    <td>Gray</td>
    <td>12347</td>
    <td>12347</td>
  </tr>
</table>
```



Name	Age	Eye color	Phone	
			Fax 1	Fax 2
Peter	18	Blue	12345	12345
Kate	22	Green	12346	12346
Oliver	24	Gray	12347	12347

Example

Using a formula ($an + b$). Description: a represents a cycle size, n is a counter (starts at 0), and b is an offset value.
Here, we specify a background color for all p elements whose index is a multiple of 3:

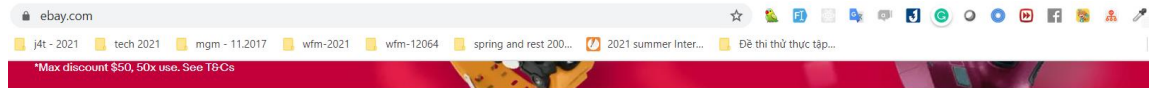
```
p:nth-child(3n+0) {
  background: red;
}
```

<https://css-tricks.com/useful-nth-child-recipes/>

colspan: Allows a single table cell to span the width of more than one cell or column

HTML5: <thead> <tbody> <tfoot>

rowspan: Allows a single table cell to span the height of more than one cell or row



Hyper Link: Can be a text, image, component.
When we click it will jump to another webpage
Ref: <https://www.ebay.com/>

`Click on me`



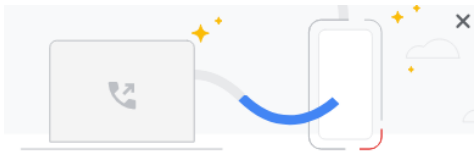
Hyper Link: Can be a text, image, component.

When we click it will jump to another webpage

Ref: <https://www.ebay.com/>

What Value Can href Have?

Link	href="https://vertex-academy.com"	URL
Phone	href="tel:+100000000000"	
Email	href="mailto:example@gmail.com"	
Anchor	href="#block"	



Make a call from



Samsung Phone
Active today

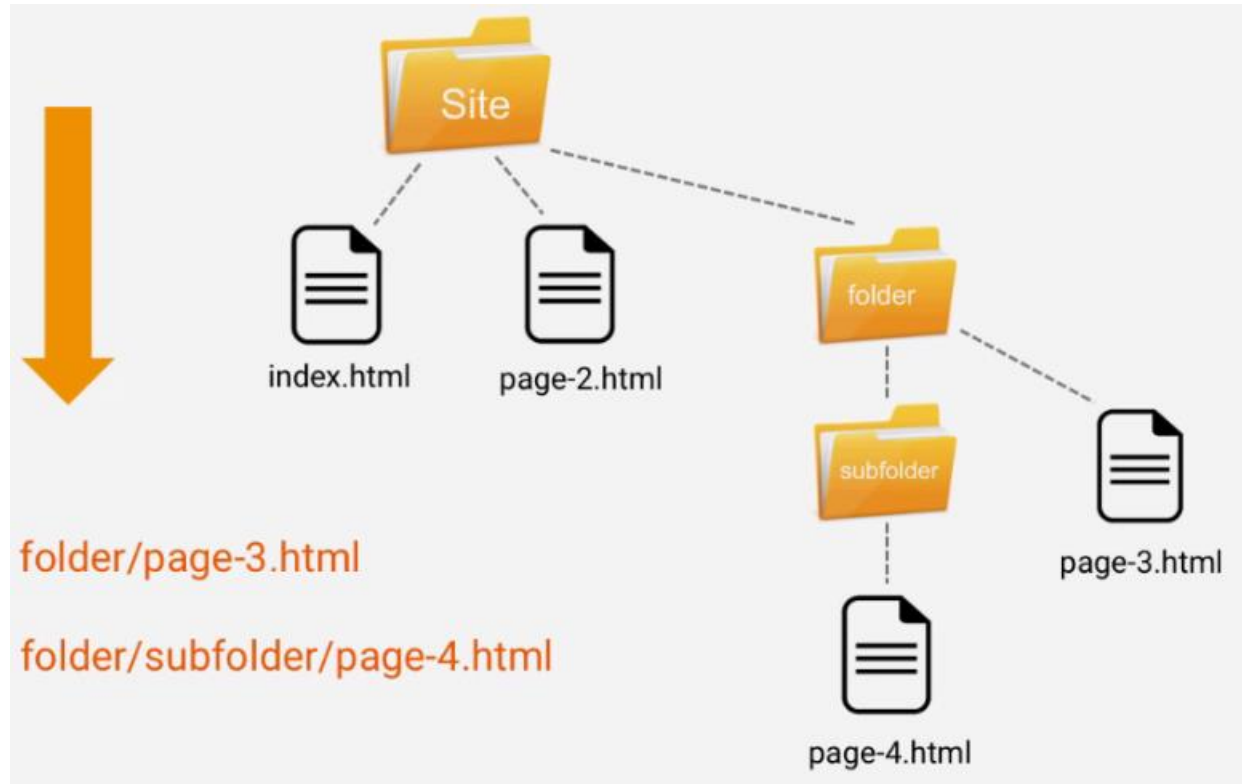


Hyper Link: Can be a text, image, component.

When we click it will jump to another webpage

Ref: <https://www.ebay.com/>

block: id

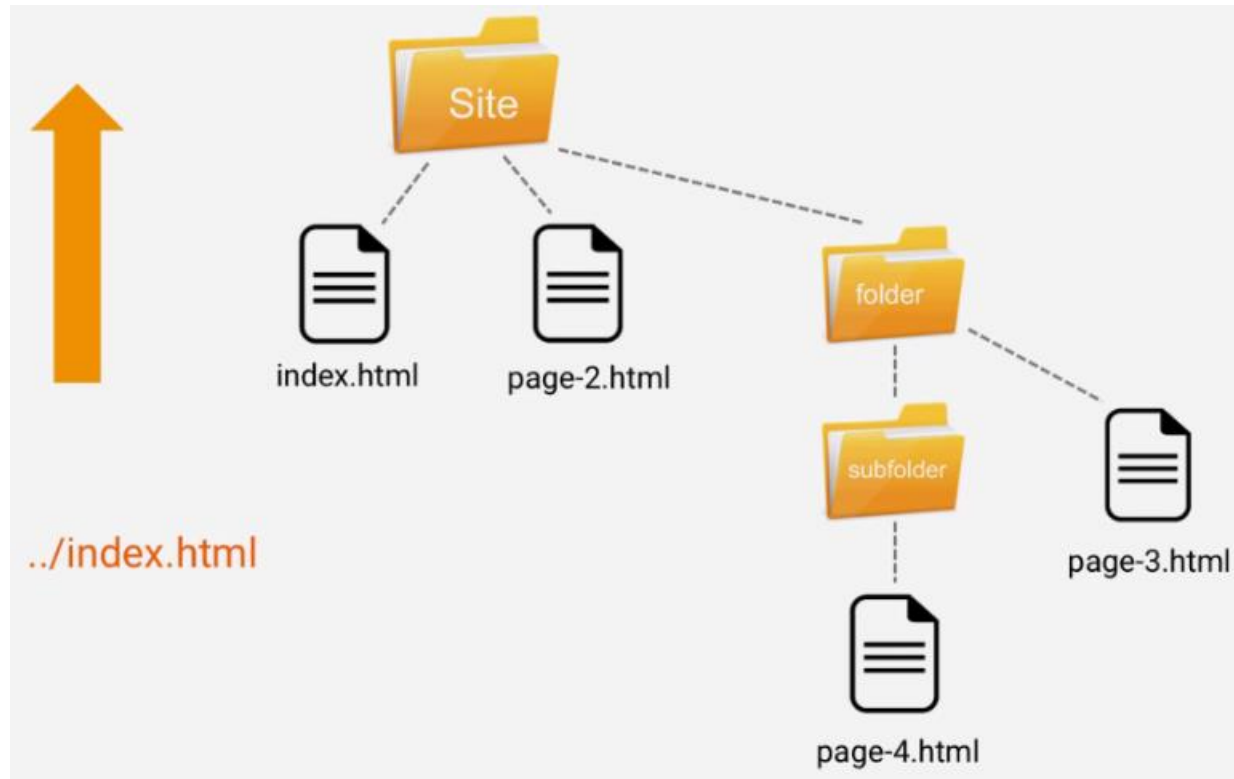


Page down: href="path"

page-2: page-2.html

page-3: folder/page-3.html

page-4: folder/subfolder/page-4.html



Page up: href="path"

page-2: index.html

page-3: ../index.html

page-4: ../../index.html



UTF-8

Unicode Transformation Format

Unicode – a table in which each character is assigned a certain number

Ref: <https://unicode-table.com/>

ASCII is a simple encoding with 128 characters, including Latin alphabet, digits, punctuation marks, and utility characters.

0	[NULL]	10	[DATA LINK ESCAPE]	20	[SPACE]	30	0	40	@	50	P	60	'	70	p
1	[START OF HEADING]	11	[DEVICE CONTROL 1]	21	!	31	1	41	A	51	Q	61	a	71	q
2	[START OF TEXT]	12	[DEVICE CONTROL 2]	22	"	32	2	42	B	52	R	62	b	72	r
3	[END OF TEXT]	13	[DEVICE CONTROL 3]	23	#	33	3	43	C	53	S	63	c	73	s
4	[END OF TRANSMISSION]	14	[DEVICE CONTROL 4]	24	\$	34	4	44	D	54	T	64	d	74	t
5	[ENQUIRY]	15	[NEGATIVE ACKNOWLEDGE]	25	%	35	5	45	E	55	U	65	e	75	u
6	[ACKNOWLEDGE]	16	[SYNCHRONOUS IDLE]	26	&	36	6	46	F	56	V	66	f	76	v
7	[BELL]	17	[END OR TRANS. BLOCK]	27	'	37	7	47	G	57	W	67	g	77	w
8	[BACKSPACE]	18	[CANCEL]	28	(	38	8	48	H	58	X	68	h	78	x
9	[HORIZONTAL TAB]	19	[END OF MEDIUM]	29	)	39	9	49	I	59	Y	69	i	79	y
A	[LINE FEED]	1A	[SUBSTITUTE]	2A	*	3A	:	4A	J	5A	Z	6A	j	7A	z
B	[VERTICAL TAB]	1B	[ESCAPE]	2B	+	3B	;	4B	K	5B	[	6B	k	7B	{
C	[FORM FEED]	1C	[FILE SEPARATOR]	2C	,	3C	>	4C	L	5C	\	6C	l	7C	|
D	[CARRIAGE RETURN]	1D	[GROUP SEPARATOR]	2D	.	3D	=	4D	M	5D	]	6D	m	7D	}
E	[SHIFT OUT]	1E	[RECORD SEPARATOR]	2E	,	3E	>	4E	N	5E	^	6E	n	7E	~
F	[SHIFT IN]	1F	[UNIT SEPARATOR]	2F	/	3F	?	4F	O	5F	_	6F	o	7F	[DEL]

0000	[NUL]	[SOH]	[STX]	[ETX]	[EOT]	[ENQ]	[ACK]	[BEL]	[BS]	[HT]	[LF]	[VT]	[FF]	[CR]	[SO]	[SI]
0010	[DLE]	[DC1]	[DC2]	[DC3]	[DC4]	[NAK]	[SYN]	[ETB]	[CAN]	[EM]	[SUB]	[ESC]	[FS]	[GS]	[RS]	[US]
0020		!	"	#	\$	%	&	'	()	*	+	,	-	.	/
0030	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
0040	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
0050	P	Q	R	S	T	U	V	W	X	Y	Z	[\]	^	_
0060	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
0070	p	q	r	s	t	u	v	w	x	y	z	{	|	}	~	°
0080	[XXX]	[XXX]	[BPH]	[NBH]	[IND]	[NEL]	[SSA]	[ESA]	[HTS]	[HTJ]	[VTS]	[PLD]	[PLU]	[RI]	[SG2]	[SG3]
0090	[DCS]	[PU1]	[PU2]	[STS]	[CCH]	[MW]	[SPA]	[EPA]	[SOS]	[XXX]	[SCI]	[CSI]	[ST]	[OSC]	[PM]	[APC]
00A0	[NBSP]	¡	¢	£	¤	¥	¦	§	¨	©	ª	«	¬		®	¯
00B0	°	±	²	³	´	µ	¶	·	¸	¹	º	»	¼	½	¾	¿
00C0	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
00D0	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß



UTF-8

Unicode Transformation Format

Copyright © 2021 Apple Inc. All rights reserved.



Copyright Sign >

Unicode number:

U+00A9

HTML-code:

©

Copy

Ref: <https://unicode-table.com/en/#00A9>



Popular Symbols

 		non-breaking space
£	£	pound
€	€	euro
§	§	section
©	©	copyright
®	®	registered trademark
™	™	trademark
°	°	degree
÷	÷	divide

Ref: <https://unicode-table.com>

Ref: https://www.w3schools.com/html/html_symbols.asp



<	<	less than
>	>	greater than
&	&	ampersand
"	“	quotation

Ref: <https://unicode-table.com>

Ref: https://www.w3schools.com/html/html_symbols.asp



```
<video>...</video>
```

```
<audio>...</audio>
```




```
<video>  
  <source src="path">  
</video>
```

create mutlmedia.html

<video> attributes

Attribute	Description
autoplay	If specified, the video automatically begins to play back as soon as it can do so without stopping to finish loading the data.
controls	If this attribute is present, the browser will offer controls to allow the user to control video playback, including volume, seeking, and pause/resume playback.
height	The height of the video's display area.
loop	If specified, the browser will automatically seek back to the start upon reaching the end of the video.
poster	A URL for an image to be shown while the video is downloading.
preload	This enumerated attribute is intended to provide a hint to the browser about what the author thinks will lead to the best user experience.
src	The URL of the video to embed.
width	The width of the video's display area.

Ref: <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/video>



```
<audio>  
  <source src="path">  
</audio>
```

Ref: <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/audio>

<audio> attributes

Attribute	Description
autoplay	If specified, the audio will automatically begin playback as soon as it can do so, without waiting for the entire audio file to finish downloading.
controls	If this attribute is present, the browser will offer controls to allow the user to control audio playback, including volume, seeking, and pause/resume playback.
loop	If specified, the audio player will automatically seek back to the start upon reaching the end of the audio.
preload	This enumerated attribute is intended to provide a hint to the browser about what the author thinks will lead to the best user experience.
src	The URL of the audio to embed.

Ref: <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/audio>

```
<div>
  <video controls width="400" height="200">
    <source src="video.mp4">
  </video>
</div>
<div>
  <audio controls height="20">
    <source src="audio.mp3">
  </audio>
</div>
```

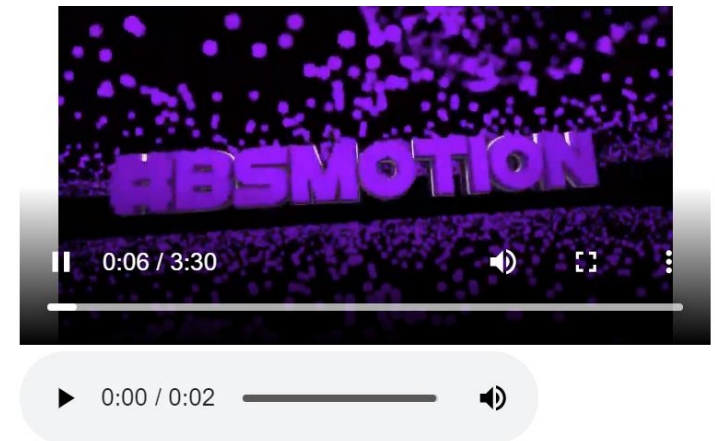
The `<div>` tag defines a division or a section in an HTML document.

The `<div>` tag is used as a container for HTML elements - which is then styled with CSS or manipulated with JavaScript.

The `<div>` tag is easily styled by using the class or id attribute.

Any sort of content can be put inside the `<div>` tag!

Note: By default, browsers always place a line break before and after the `<div>` element.



Ref: <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/audio>

Create an account

☒ Personal account ☐ Business account 

First Name Last Name


Email

Password ☐ Show


By **Creating an account**, you agree to our [User Agreement](#) and acknowledge reading our [User Privacy Notice](#).

Create account


or

 Continue with Google

 Continue with Facebook

 Continue with Apple

Ref: <https://signup.ebay.com/pa/crte>



```
<form>...</form>
```

Ref: <https://signup.ebay.com/pa/crte>



```
<input type="type">
```

Ref: <https://signup.ebay.com/pa/crte>

“type” values

text	Text field.
checkbox	Check box, allowing one or more items to be selected out of multiple choices.
radio	Radio button, allowing only one item to be selected out of multiple choices.
submit	Button that submits the form.
password	Single-line text field for entering a password.
reset	Button that resets the contents of the form to default values.
button	Simple push button with no default behavior.
file	A control that lets the user choose one or more files from their device storage.
hidden	A control that is hidden but whose value is submitted to the server.
image	Graphical submit button.

HTML 5 “type” values

color	A control for specifying a color.
email	A field for entering an e-mail address.
date	A control for entering a date (year, month, and day, with no time).
datetime	A control for entering a date and time
datetime-local	A control for entering a date and time, with no time zone
number	A control for entering a number.
month	A control for entering a month and year, with no time zone.
range	A control for entering a number whose exact value is not important.
search	A single-line text field for entering search strings.
tel	A control for entering a telephone number.
time	A control for entering a time value with no time zone.
url	A field for editing a URL.
week	A control for entering a date consisting of a week-year number.



```
<select>  
  <option>...</option>  
  ⋮  
  <option>...</option>  
</select>
```

https://developer.mozilla.org/en-US/docs/Learn/Forms/HTML5_input_types

<p><input type="text"></p> <p>ewdewfefew</p>	<p><input type="checkbox"></p> <p><input type="checkbox"/> Black <input checked="" type="checkbox"/> White</p>	<p><input type="radio"></p> <p><input type="radio"/> Metal <input type="radio"/> Plastic</p>
<p><input type="file"></p> <p>Choose File No file chosen</p>	<p><input type="password"></p> <p></p>	<p><input type="submit"></p> <p>Submit</p>
<p><input type="color"></p> <p></p>	<p><input type="date"></p> <p>mm / dd / yyyy</p>	<p><input type="number"></p> <p></p>
<p><input type="range"></p> <p></p>	<p><select></p> <p>USA</p>	

Technology

Consulting

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format code: Edit > Line > Reindent
copy line: Ctrl Shift D
delete row: Ctrl X