

html

to start, download one of these freeware
(free software) for code editing:

Atom: <https://atom.io/>

Brackets: <http://brackets.io/>

Sublime: <https://www.sublimetext.com/>

HTML
(Hyper Text Markup Language)

is HTML tags and plain text

It uses tags around the content
like a set of instructions for the other computer

`<tagname>content</tagname>`

The most common is a tag set. This has an opening tag,
and a closing tag surrounding the content.

The closing tag has a forward slash /

`<tagname>content</tagname>`

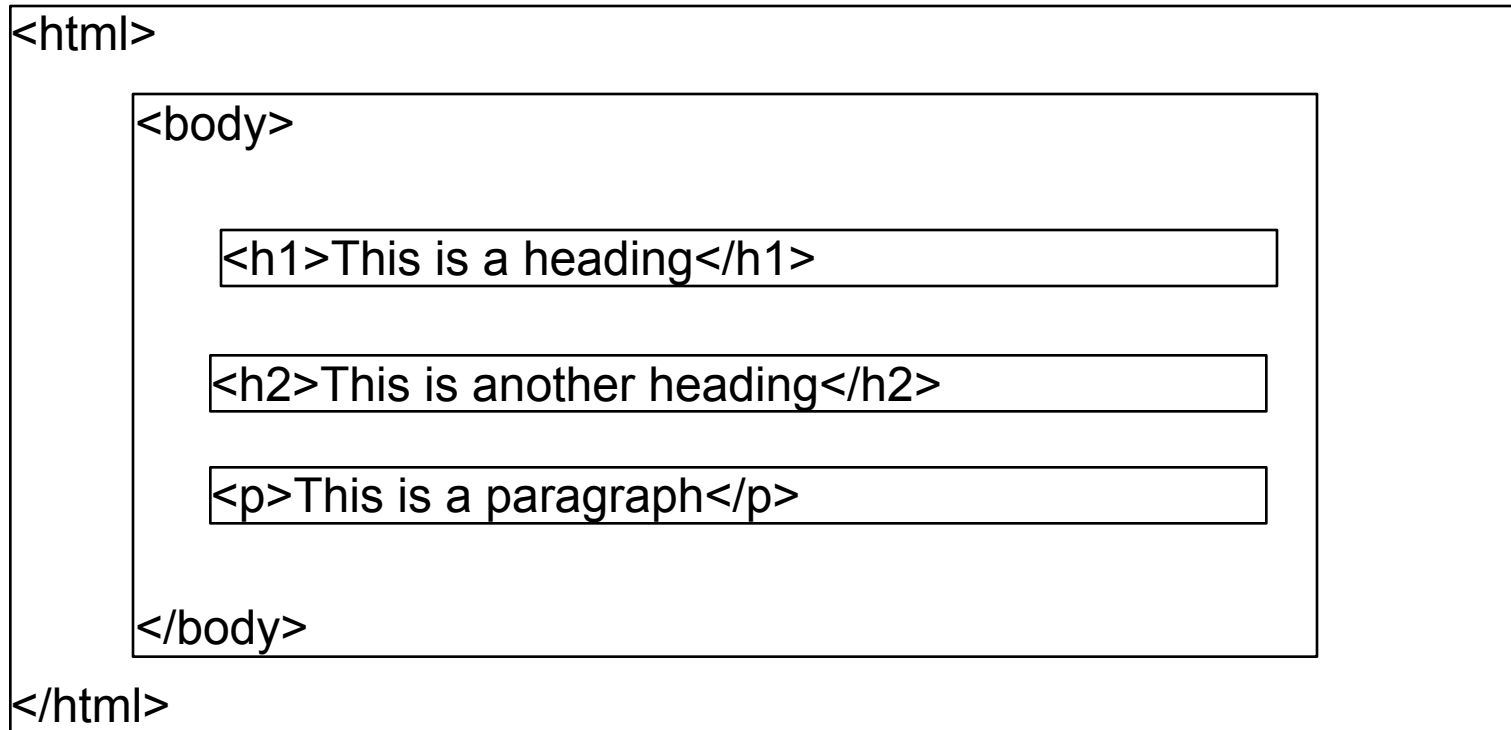
DO NOT CAPITALIZE

HTML is case sensitive

The HTML structure is like a series of boxes

The “invisible box” made by the opening and closing tags can have other “boxes” in them

!Doctype Declaration



Do not copy and paste from this presentation.
The font is different and it will not be recognized
by your computer

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In Atom/Brackets/Sublime, open up a new doc and write the following:

```
<!DOCTYPE html>
```

```
<html>
```

```
<body>
```

```
<h1>My First Heading</h1>
```

```
<p>My First Paragraph</p>
```

```
</body>
```

```
</html>
```

Create a new folder on your desktop
This is your site folder

Save what you just wrote as “index.html” in that site folder

DO NOT CAPITALIZE IT

Open this file up in a web browser

Notice all the tags are invisible, and you only see what is in-between the tags

Also look up top and notice the title of the page is “index.html”
We will now change the title of the page

Do not close the web browser
Go back to Atom/Brackets/Sublime
and edit that existing page with the changes below.
Notice we are adding a new tag “box” called head

```
<!DOCTYPE html>
<html>

<head>
<title>My First Code</title>
</head>

<body>

<h1>My First Heading</h1>

<p>My First Paragraph</p>

</body>
</html>
```

Save the changes in Atom/Brackets/Sublime and
refresh the page in the web browser

In Atom/Brackets/Sublime edit the code by inserting the following formatting tags next to the text. Make sure to use them in pairs, one opening tag and one closing tag with a forward slash /.

| | |
|-----------------------------|---|
| <code></code> | bold text |
| <code></code> | strong text (looks like bold) |
| <code><i></code> | italic |
| <code></code> | emphasized text (looks like italic) |
| <code><sub></code> | subscript text (little and on the bottom) |
| <code><sup></code> | superscript text (little and on the top) |

For example:

`<h1><i>My First Heading</i></h1>`

`<p>My First
Paragraph</p>`

Now play around with the formatting tags, and creating new paragraphs:

<p>blahblahblah</p>

<p>blahblahblah blah blah
 blahblahblah blah</p>

Use your own words!

images

Within your site folder on the desktop, create a new folder in it and title this folder images.

DO NOT CAPITALIZE IT

Place a jpeg in this folder

Edit existing index in Atom/Brackets/Sublime

The image must be in the images folder

The image name must be written exactly like the file name, which includes its extension: png, jpg, jpeg, JPG. The image.jpg example below will be replaced with the file name of the image you have

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

```
<head>  
<title>My First Code/>  
</title>  
</head>
```

```
<body>
```

```
<h1>My First Heading</h1>
```

```

```

```
<p>My First Paragraph</p>
```

```
</body>  
</html>
```

Refresh in browser

Now we change the size of the image
Edit your existing index in Atom/Brackets/Sublime

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

```
<head>  
<title>My First Code/>  
</title>  
</head>
```

```
<body>
```

```
<h1>My First Heading</h1>
```

```

```

```
<p>My First Paragraph</p>
```

```
</body>  
</html>
```

The number is the number of pixels.

Play around with changing the numbers and refreshing the browser to get a feel for size measurement in HTML

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>My First Code/>
```

```
</title>
```

```
</head>
```

```
<body>
```

```
<h1>My First Heading</h1>
```

```
<div>
```

```

```

```
<p>My First Paragraph</p>
```

```
</div>
```

```
</body>
```

To use an image as the background
insert this code right into ***the opening body tag***
using the exact name of your image file (***not*** bgimage.jpg):

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

```
<head>  
<title>My First Code/>  
</title>  
</head>
```

```
<body background="bgimage.jpg">
```

```
<h1>This is a heading</h1>
```

```
<p>This is a paragraph.</p>
```

```
</body>  
</html>
```

To change the color of text or the background...

HTML uses hex numbers to identify colors. These start with a # and have a series of numbers and letters.

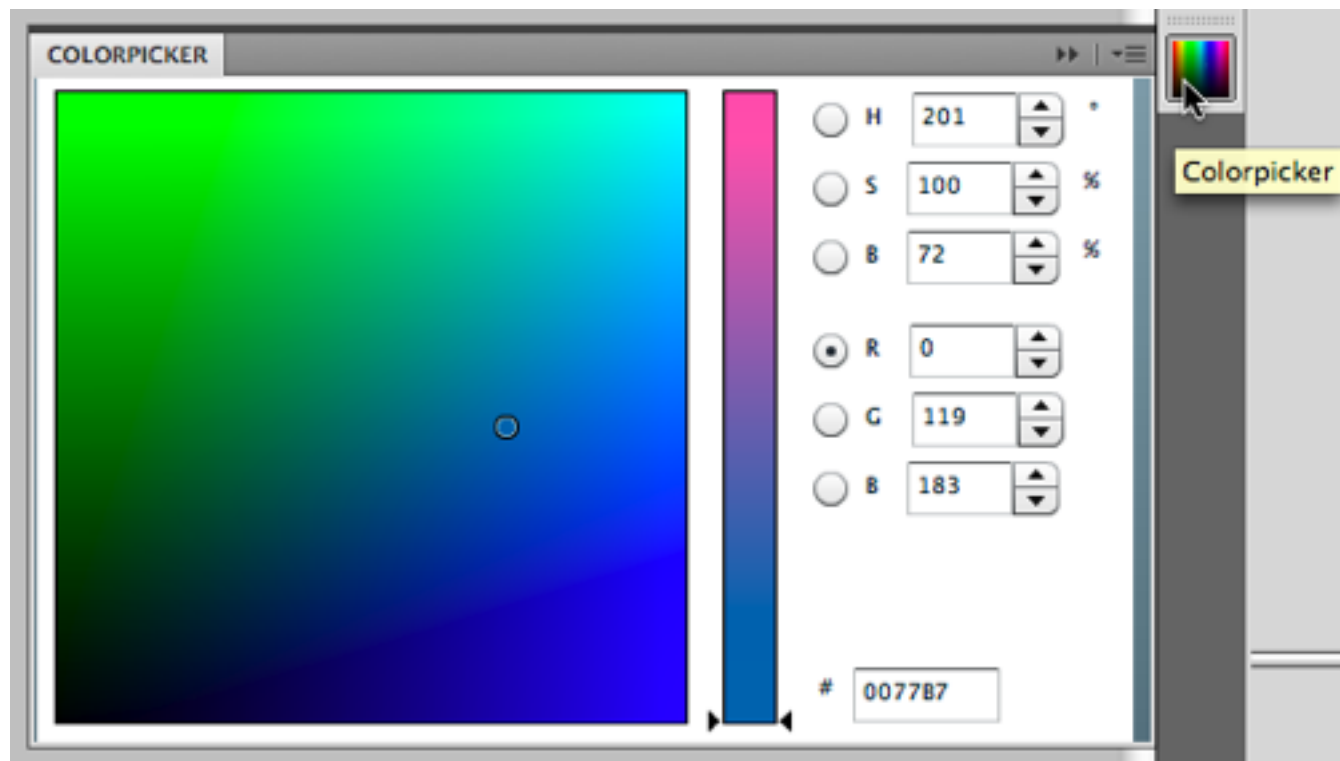
You can use an online color picker such as :

<http://htmlcolorcodes.com/color-picker/>

on the top look for the hex number and copy and paste it

background color

| | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| FFFFFF | 000000 | 333333 | 666666 | 999999 | CCCCCC | CCCC99 | 9999CC | 666699 |
| 660000 | 663300 | 996633 | 003300 | 003333 | 003399 | 000066 | 330066 | 660066 |
| 990000 | 993300 | CC9900 | 006600 | 336666 | 0033FF | 000099 | 660099 | 990066 |
| CC0000 | CC3300 | FFCC00 | 009900 | 006666 | 0066FF | 0000CC | 663399 | CC0099 |
| FF0000 | FF3300 | FFFF00 | 00CC00 | 009999 | 0099FF | 0000FF | 9900CC | FF0099 |
| CC3333 | FF6600 | FFFF33 | 00FF00 | 00CCCC | 00CCFF | 3366FF | 9933FF | FF00FF |
| FF6666 | FF6633 | FFFF66 | 66FF66 | 66CCCC | 00FFFF | 3399FF | 9966FF | FF66FF |
| FF9999 | FF9966 | FFFF99 | 99FF99 | 66FFCC | 99FFFF | 66CCFF | 9999FF | FF99FF |
| FFCCCC | FFCC99 | FFFFCC | CCFFCC | 99FFCC | CCFFFF | 99CCFF | CCCCFF | FFCCFF |



To change the background color, insert this code and the hex number of the color you want into the opening body tag.

```
<!DOCTYPE html>
<html>

<head>
<title>My First Code/>
</title>
</head>

<body bgcolor="#123456">

<h1>My First Heading</h1>

<p>My First Paragraph</p>


</body>
</html>
```

(#123456 is a placeholder number, use your own hex number)

To change the font

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

```
<head>  
<title>My First Code/>  
</title>  
</head>
```

```
<body>
```

```
<h1 style="font-family:verdana">This is a heading</h1>
```

```
<p style="font-size:10pt">This is a paragraph.</p>
```

```
</body>  
</html>
```

positioning
the position is measured by how many
pixels it is from the top, and how many
pixel it is from the left

```
<body>
```

```
<h1>My First Heading</h1>
```

```
<p style="position:absolute; top:100px; left:200px"> First Paragraph</p>
```

```
<p>My Second Paragraph</p>
```

```
</body>
```

```
</html>
```

formatting
a new way to format many things at once.

The property:value uses a colon

All is between the quotations with the style attribute style=" "

Each property is separated by a semi-colon;

```
<body>
```

```
<h1>My First Heading</h1>
```

```
<p style="position:absolute; top:100px; left:200px; width:45px;  
height:100px"> My First Paragraph</p>
```

```
<p>My Second Paragraph</p>
```

```
</body>
```

```
</html>
```

mix it up, combine all formatting together within style=" "

```
<body>
```

```
<h1>My First Heading</h1>
```

```
<p style="position:absolute; top:100px; left:200px; color:#123456;  
font-size:10pt; font-family:Arial"> My First Paragraph</p>
```

```
<p>My Second Paragraph</p>
```

```
</body>
```

```
</html>
```

links

```
<body>
```

```
<h1>My First Heading</h1>
```

```
<p><a href= "theotherpage.html">I like tomato</a><p>
```

```
</body>
```

```
</html>
```

links

```
<body>
```

```
<h1>My First Heading</h1>
```

(A website outside of your website, use the full address)

```
<p><a href= "http://www.baruch.cuny.edu">My First Paragraph</a><p>
```

(An email address link, use mailto: and the email address)

```
<p><a href= "mailto: profrauch@gmail.com">profrauch@gmail.com</a><p>
```

(To navigate between pages in your website,
just use the name of the page and its extension)

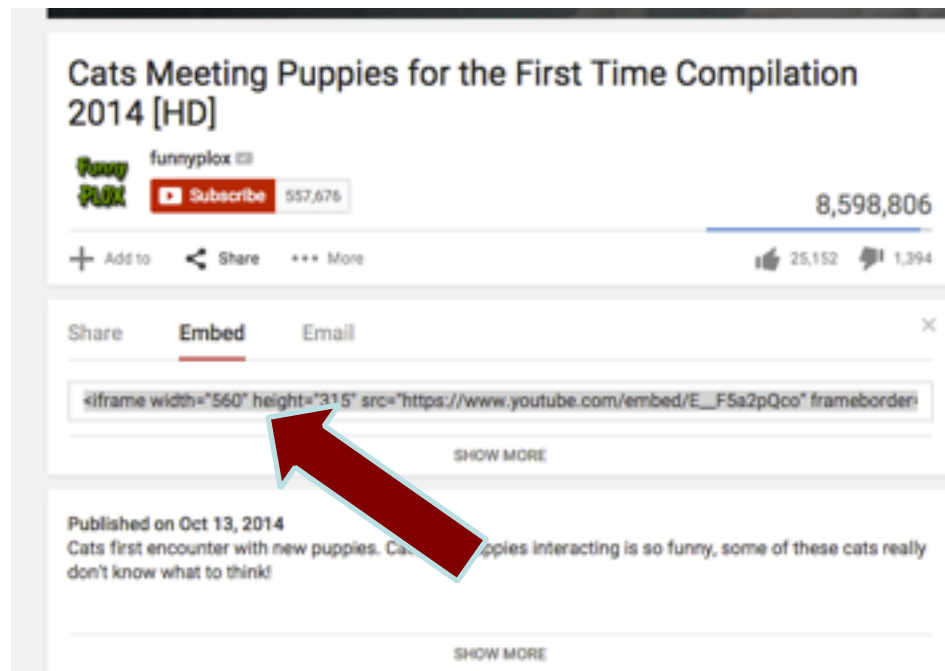
```
<p><a href= "cat.html">Second Page</a><p>
```

```
</body>
```

```
</html>
```

Embed video or google map

Go to youtube or google and click on “share”, choose “embed”, copy the link



youtube embed

Copy the iframe link into a paragraph tag

```
<!DOCTYPE html>
<html>

<head>
<title>My First Code/>
</title>
</head>

<body>

<h1>My First Heading</h1>

<p><iframe width="560" height="315" src="https://www.youtube.com/embed/
E__F5a2pQco" frameborder="0" allowfullscreen></iframe></p>

</body>
</html>
```