## HTML&CSS

design and build websites

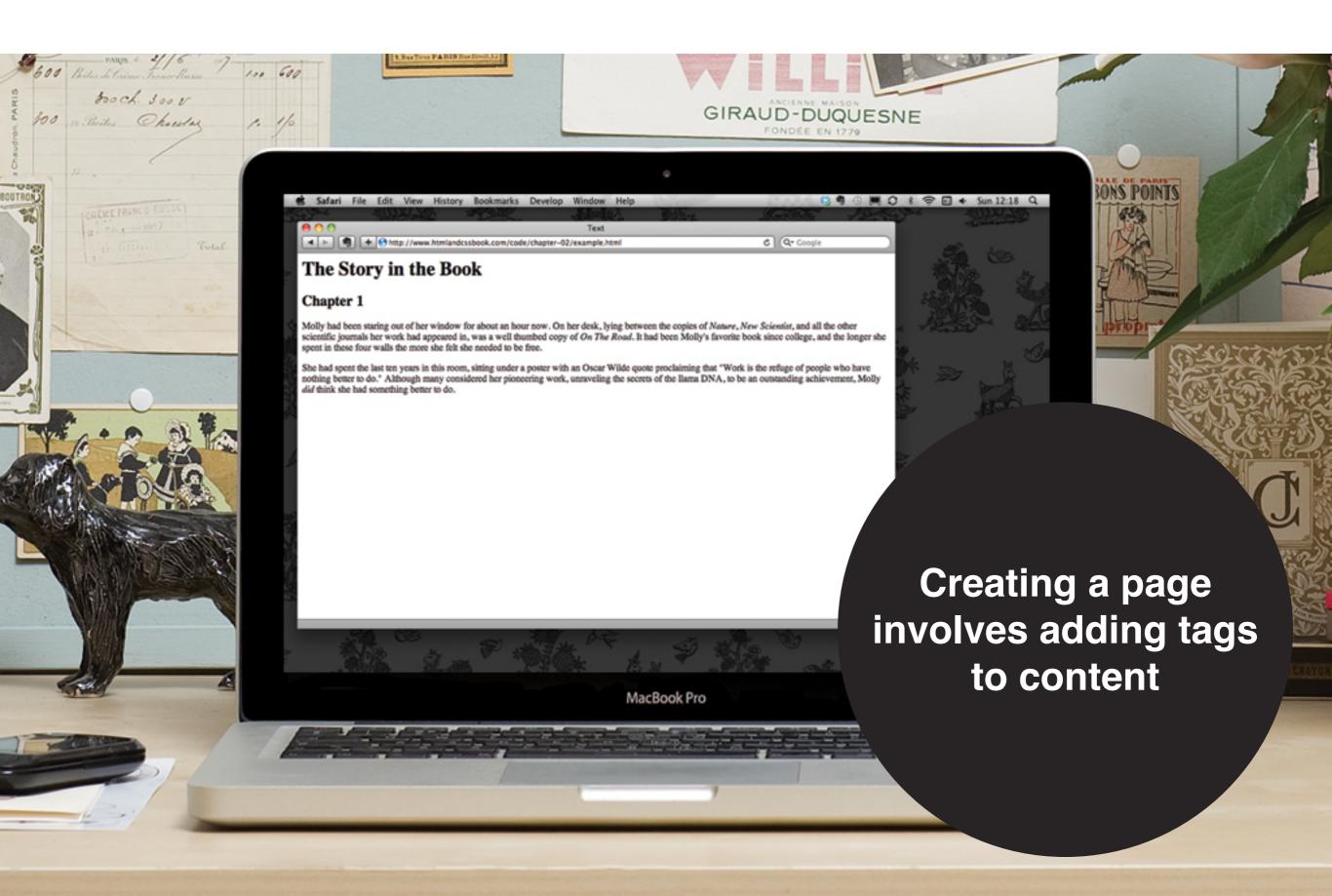


Learning HTML involves...

Learning a list of elements

Learning how these elements are used

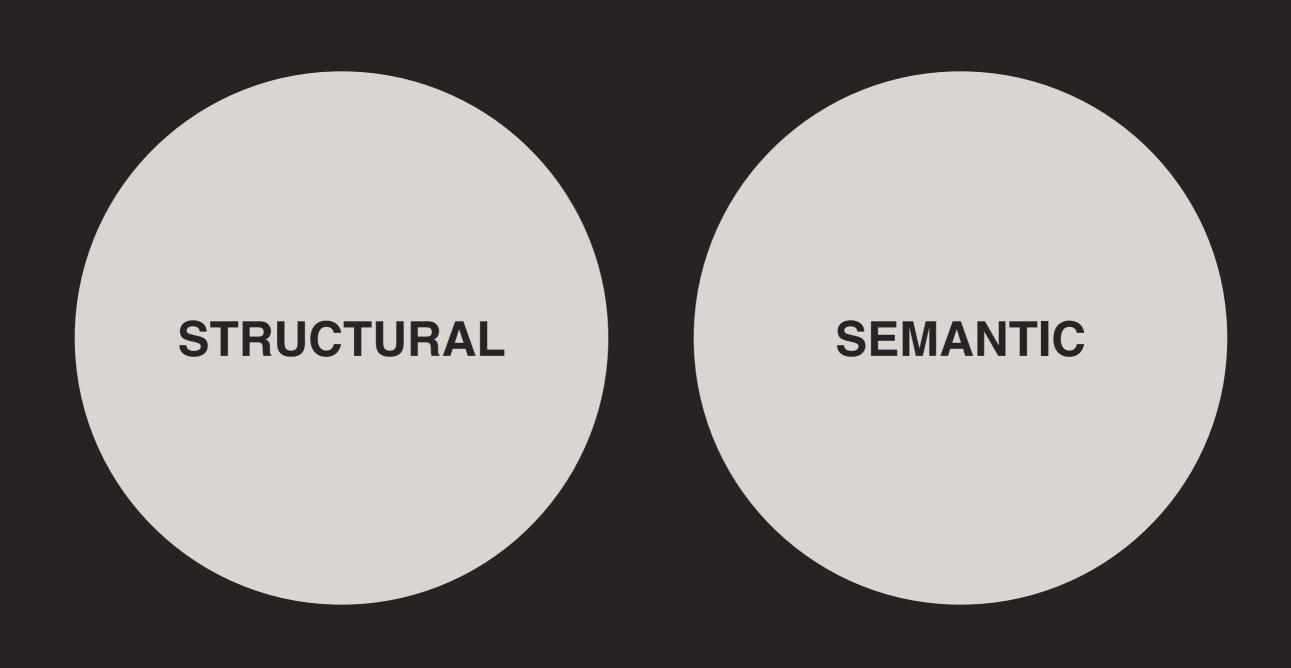
## TAGS DESCRIBE CONTENT



## TAGS DESCRIBE CONTENT



There are two types of markup...



### HEADINGS

```
HTML
```

```
<h1>This is a Main Heading</h1>
<h2>This is a level 2 heading</h2>
<h3>This is a level 3 heading</h3>
<h4>This is a level 4 heading</h4>
<h5>This is a level 5 heading</h5>
<h6>This is a level 6 heading</h6>
```

## This is a Main Heading

This is a Level 2 Heading

This is a Level 3 Heading

This is a Level 4 Heading

This is a Level 5 Heading

This is a Level 6 Heading

### PARAGRAPHS

HTML

A paragraph consists of one or more
sentences that form a self-contained unit
of discourse. The start of a paragraph is
indicated by a new line.

Text is easier to understand when it is
split up into units of text. For example,
a book may have chapters. Chapters can
have subheadings. Under each heading will
be one or more paragraphs.

A paragraph consists of one or more sentences that form a self-contained unit of discourse. The start of a paragraph is indicated by a new line.

Text is easier to understand when it is split up into units of text. For example, a book may have chapters. Chapters can have subheadings. Under each heading there will be one or more paragraphs.

### **BOLD & ITALIC**

HTML

```
This is how we make a word appear
<b>bold</b>.
```

This is how we make a word appear
<i>i>italic</i>.

### **BOLD & ITALIC**

**HTML** 

```
This is how we make a word appear
<b>bold</b>.
```

This is how we make a word appear
<i>i>italic</i>.

### **BOLD & ITALIC**

**HTML** 

```
This is how we make a word appear
<b>bold</b>.
```

This is how we make a word appear<i>i>italic</i>.



This is how we make a word appear **bold**. This is how we make a word appear *italic*.

### SUPERSCRIPT & SUBSCRIPT

```
On the 4<sup>th</sup> September you will learn about E=MC<sup>2</sup>.
```

```
The amount of C0<sub>2</sub> in the
atmosphere grew by 2ppm in
2009<sub>1</sub>.
```

### SUPERSCRIPT & SUBSCRIPT

HTML

```
On the 4<sup>th</sup> September you
will learn about E=MC<sup>2</sup>.
```

The amount of C0<sub>2</sub> in the
atmosphere grew by 2ppm in
2009<sub>1</sub>.

### SUPERSCRIPT & SUBSCRIPT

```
On the 4<sup>th</sup> September you will learn about E=MC<sup>2</sup>.
```

```
The amount of C0<sub>2</sub> in the
atmosphere grew by 2ppm in
2009<sub>1</sub>.
```



On the 4<sup>th</sup> of September you will learn about E=MC<sup>2</sup>.

The amount of  $CO_2$  in the atmosphere grew by 2ppm in  $2009_1$ .

### WHITESPACE IS COLLAPSED

**HTML** 

```
The moon is
```

drifting away from the

earth.



The moon is drifting away from Earth.

### LINE BREAKS

HTML

The Earth<br />gets one hundred tons
heavier every day<br />due to falling
space dust.

### LINE BREAKS

HTML

The Earth<br />gets one hundred tons
heavier every day<br />due to falling
space dust.



The Earth gets one hundred tons heavier every day due to falling space dust.

### HORIZONTAL RULES

HTML

```
Venus is the only plant that rotates clockwise
```

```
<hr />
```

Jupiter is bigger than all the other planets combined.

### HORIZONTAL RULES

HTML

Venus is the only plant that rotates clockwise

<hr />

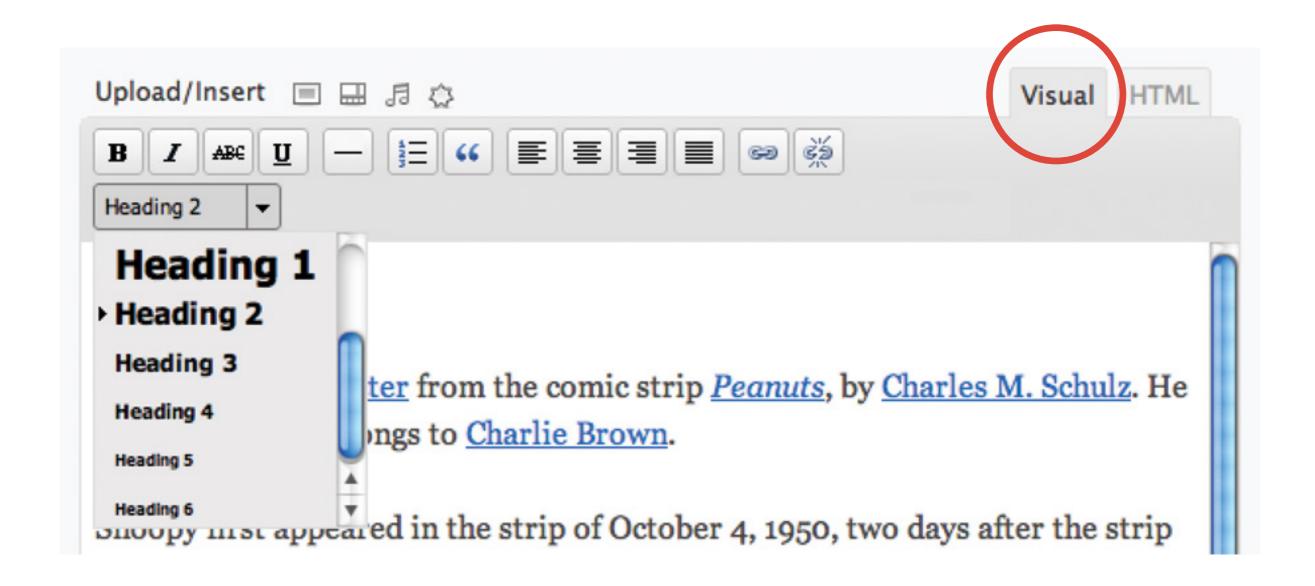
Jupiter is bigger than all the other planets combined.



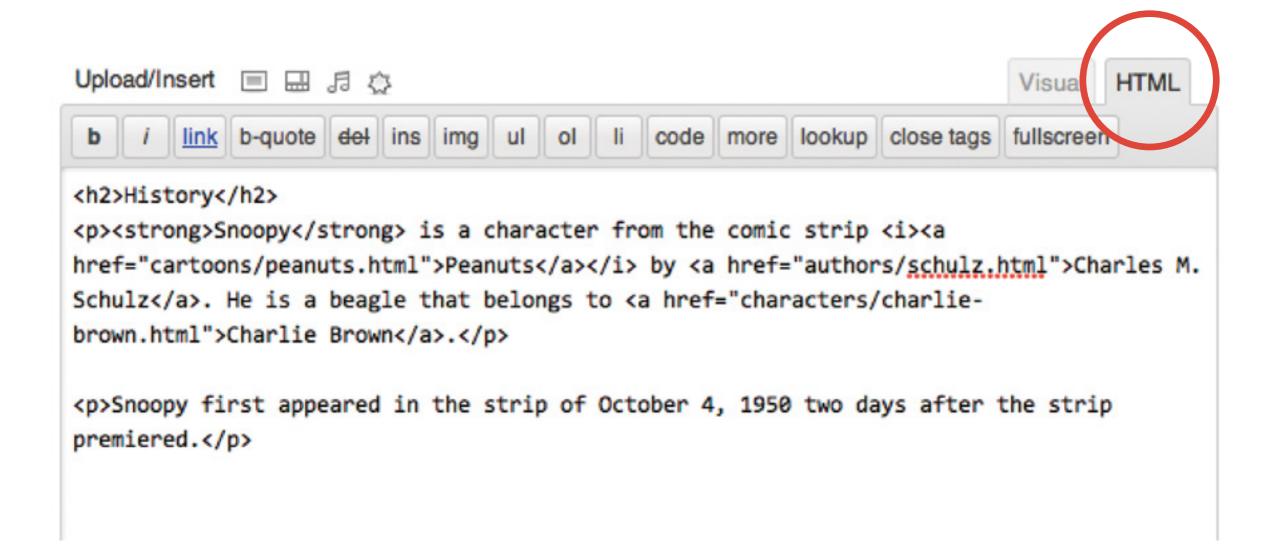
Venus is the only planet that rotates clockwise.

Jupiter is bigger than all the other planets combined.

## VISUAL EDITORS & THEIR CODE VIEWS



# VISUAL EDITORS & THEIR CODE VIEWS



### SEMANTIC MARKUP

### WHAT IS IT?

Set of elements, for example:

The <em> tag adds emphasis

<blockquote>
contains a quote

### WHY USE IT?

Provides extra information about your content

Do NOT use it to alter presentation of those elements

### **APPLICATION**

Screen readers can add emphasis to words in <em>

Search engines can find quotations in <blockquote>

```
<strong>Beware</strong> pickpockets
operate in this area.
I <em>think</em> Ivy was the first.
I think <em>Ivy</em> was the first.
I think Ivy was the <em>first
```

```
<strong>Beware</strong> pickpockets
operate in this area.
I <em>think</em> Ivy was the first.
I think <em>Ivy</em> was the first.
I think Ivy was the <em>first
```

```
<strong>Beware</strong> pickpockets
operate in this area.
I <em>think</em> Ivy was the first.
I think <em>Ivy</em> was the first.
I think Ivy was the <em>first
```

```
<strong>Beware</strong> pickpockets
operate in this area.
I <em>think</em> Ivy was the first.
I think <em>Ivy</em> was the first.
I think Ivy was the <em>first
```

```
<strong>Beware</strong> pickpockets
operate in this area.
I <em>think</em> Ivy was the first.
I think <em>Ivy</em> was the first.
I think Ivy was the <em>first</em>.
```

Beware: Pickpockets operate in this area.

I think Ivy was the first.

I think Ivy was the first.

I think Ivy was the *first*.

```
<blockquote</pre>
 cite="http://en.wikipedia.org/wiki/
 Winnie-the-Pooh">
Did you ever stop to think, and
   forget to start again?
</blockquote>
As A.A. Milne said, <q>Some people talk
   to animals. Not many listen though.
  That's the problem.
```

HTML

```
<blockquote
  cite="http://en.wikipedia.org/wiki/
   Winnie-the-Pooh">
  Did you ever stop to think, and
     forget to start again?
</blockquote>
```

As A.A. Milne said, <q>Some people talk
 to animals. Not many listen though.
 That's the problem.

```
HTML
```

```
<blockquote</pre>
cite="http://en.wikipedia.org/wiki/
 Winnie-the-Pooh">
Did you ever stop to think, and
   forget to start again?
</blockquote>
As A.A. Milne said, <q>Some people talk
  to animals. Not many listen though.
  That's the problem.
```

```
HTML
```

```
<blockquote</pre>
 cite="http://en.wikipedia.org/wiki/
 Winnie-the-Pooh">
Did you ever stop to think, and
   forget to start again?
</blockquote>
As A.A. Milne said, <q>Some people talk
   to animals. Not many listen though.
  That's the problem.</q>
```



Did you ever stop to think, and forget to start again?

As A.A. Milne said, "Some people talk to animals. Not many listen though. That's the problem."

#### ABBREVIATIONS & ACRONYMS

HTML

```
<abbr title="Professor">Prof</abbr>
Stephen Hawking is a theoretical
physicist and cosmologist.
```

<acronym title="National Aeronautics and Space Administration">NASA</acronym> do some crazy space stuff.

#### **ABBREVIATIONS & ACRONYMS**

HTML

```
<abbr title="Professor">Prof</abbr>
Stephen Hawking is a theoretical
physicist and cosmologist.
```

<acronym title="National Aeronautics and Space Administration">NASA</acronym> do some crazy space stuff.

#### **ABBREVIATIONS & ACRONYMS**

HTML

```
<abbr title="Professor">Prof</abbr>
Stephen Hawking is a theoretical
physicist and cosmologist.
```

<acronym title="National Aeronautics
and Space Administration">NASA</acronym>
do some crazy space stuff.



Prof Stephen Hawking is a theoretical physicist and cosmologist.

NASA do some crazy space stuff.

National Aeronautics and Space Administration

#### CITATIONS & DEFINITIONS

HTML

<cite>A Brief History of Time</cite> by Stephen Hawking has sold over ten million copies worldwide.

A <dfn>black hole</dfn> is a region
 of space from which nothing, note even
 light, can escape.

#### CITATIONS & DEFINITIONS

- <cite>A Brief History of Time</cite> by Stephen Hawking has sold over ten million copies worldwide.
- A <dfn>black hole</dfn> is a region
   of space from which nothing, note even
   light, can escape.

#### CITATIONS & DEFINITIONS

HTML

<cite>A Brief History of Time</cite> by Stephen Hawking has sold over ten million copies worldwide.

A <dfn>black hole</dfn> is a region
 of space from which nothing, note even
 light, can escape.



A Brief History of Time by Stephen Hawking has sold over ten million copies worldwide.

A black hole is a region of space from which nothing, not even light, can escape.

#### **AUTHOR DETAILS**

```
<address>
  <a href="homer@example.org">
    homer@example.org</a>
  >742 Evergreen Terrace, Springfield
</address>
```

#### **AUTHOR DETAILS**

</address>

```
<address>
  <a href="homer@example.org">
   homer@example.org</a>
  742 Evergreen Terrace, Springfield
```



# homer@example.org

742 Evergreen Terrace, Springfield

```
It was the <del>worst</del>
  <ins>best</ins> idea she had ever
  had.
Laptop computer:
Was $995
Now only $375
```

```
It was the <del>worst</del>
  <ins>best</ins> idea she had ever
  had.
Laptop computer:
Was $995
Now only $375
```

```
It was the <del>worst</del>
  <ins>best</ins> idea she had ever
  had.
Laptop computer:
Now only $375
```

```
It was the <del>worst</del>
  <ins>best</ins> idea she had ever
  had.
Laptop computer:
Was $995
Now only $375
```



It was the worst best idea she had ever had.

Laptop computer:

Was \$995

Now only \$375

### SUMMARY

HTML elements are used to describe the structure of the page (e.g. headings, subheadings, paragraphs).

## SUMMARY

They also provide semantic information (e.g. where emphasis is placed, definitions of acronyms, when text is a quotation).



