

HTML & CSS

Rupayan Neogy

But first...

My Take on Web Development

There is always some
tool that makes your life
easier.

HTML

Hypertext Markup Language

The language your web browser uses to describe the content and structure on web pages

But first...

My Take on HTML

HTML = Nested Boxes

HTML = Nested Boxes™

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A *WEB*COMIC OF ROMANCE,
SARCASM, MATH, AND LANGUAGE.

THING EXPLAINER IS AVAILABLE AT: [AMAZON](#), [BARNES & NOBLE](#), [INDIE BOUND](#),
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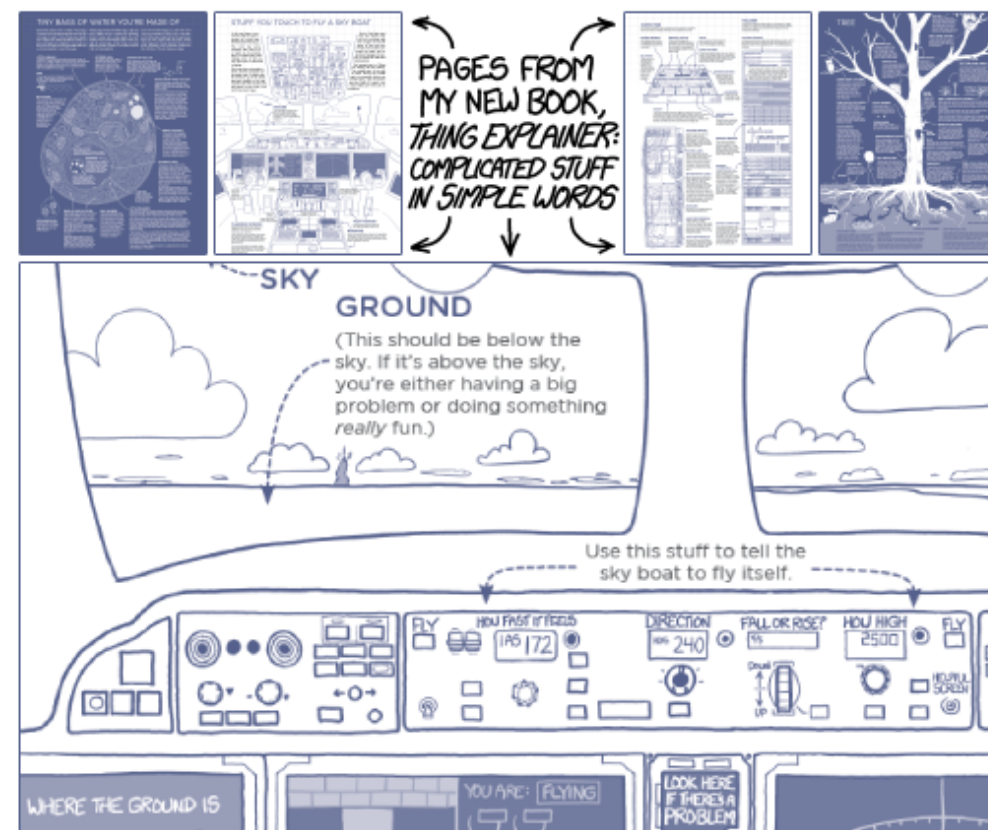
TAGS

|< < PREV RANDOM NEXT > >|

<DIV>Q: HOW DO YOU ANNOY A WEB DEVELOPER?

|< < PREV RANDOM NEXT > >|

PERMANENT LINK TO THIS COMIC: [HTTP://XKCD.COM/1144/](http://xkcd.com/1144/)
IMAGE URL (FOR HOTLINKING/EMBEDDING): [HTTP://IMGS.XKCD.COM/COMICS/TAGS.PNG](http://imgs.xkcd.com/comics/tags.png)



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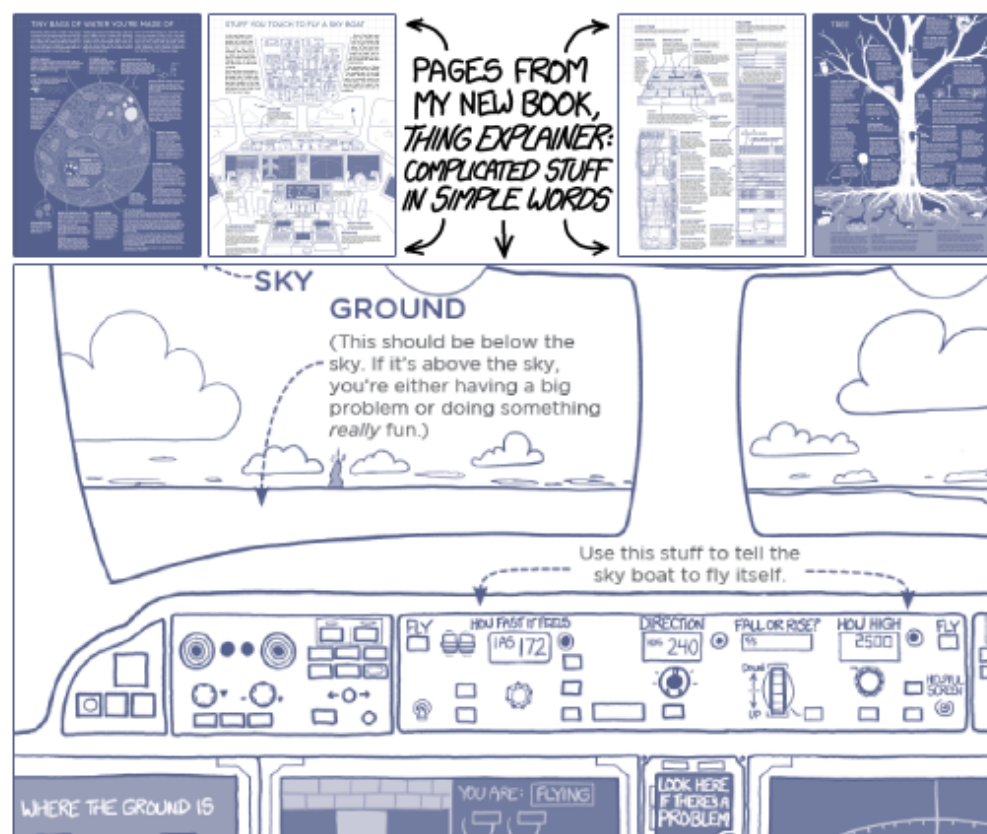
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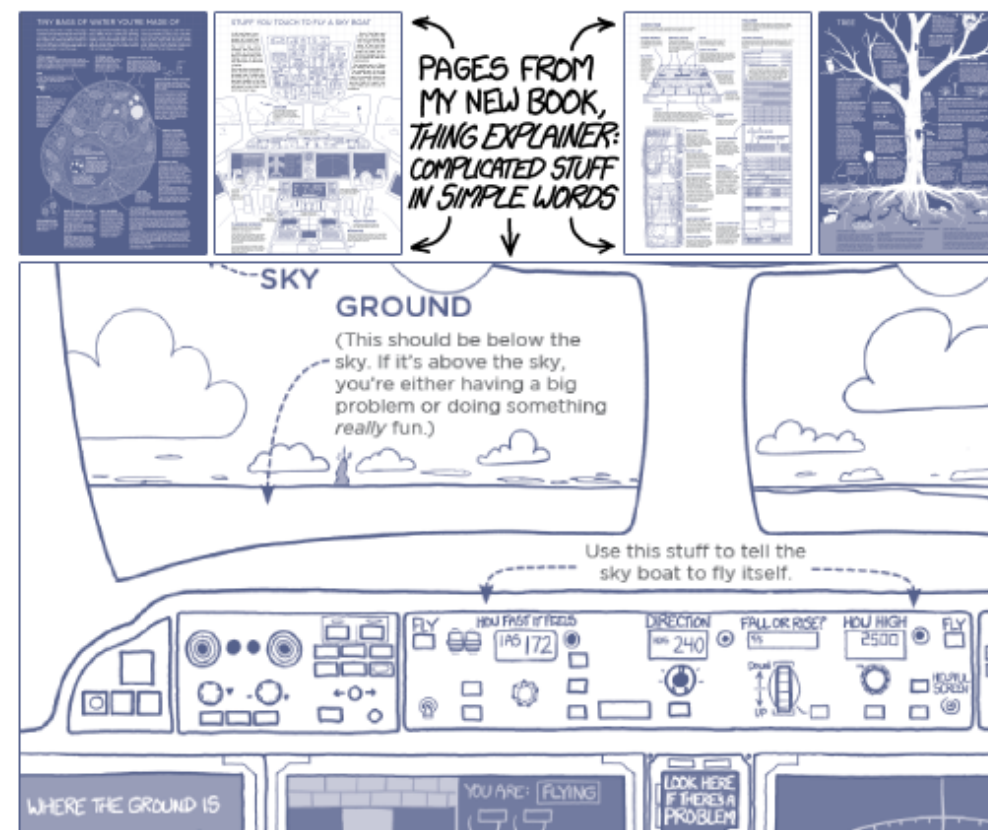
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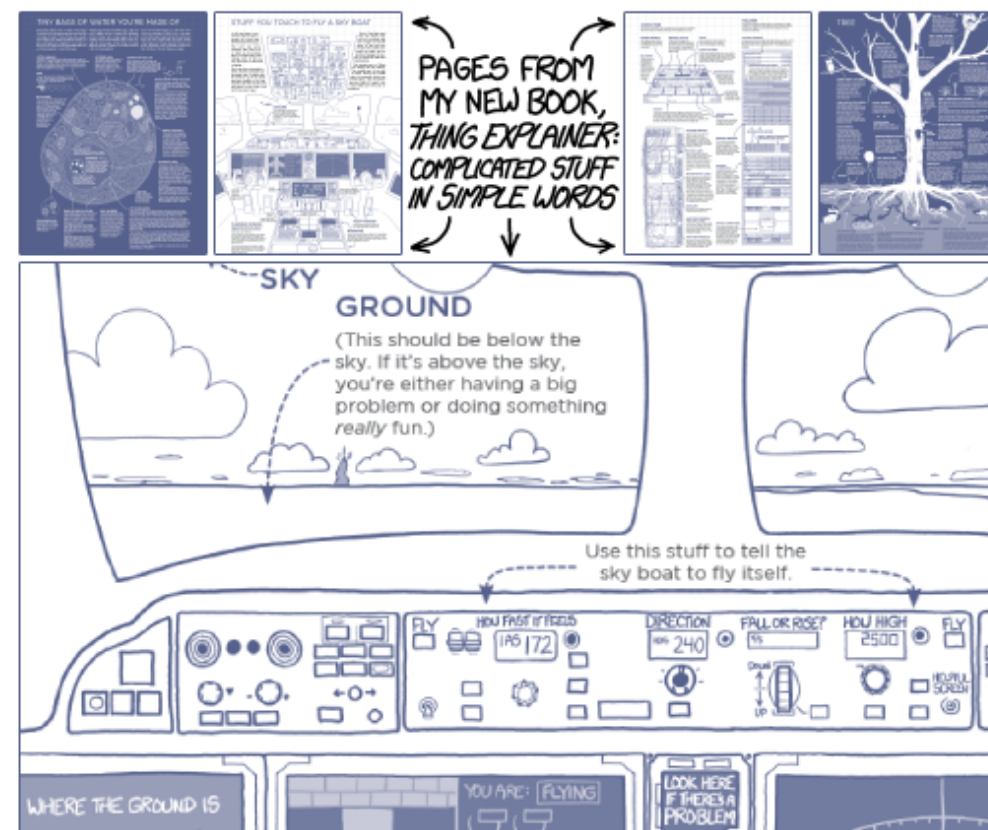
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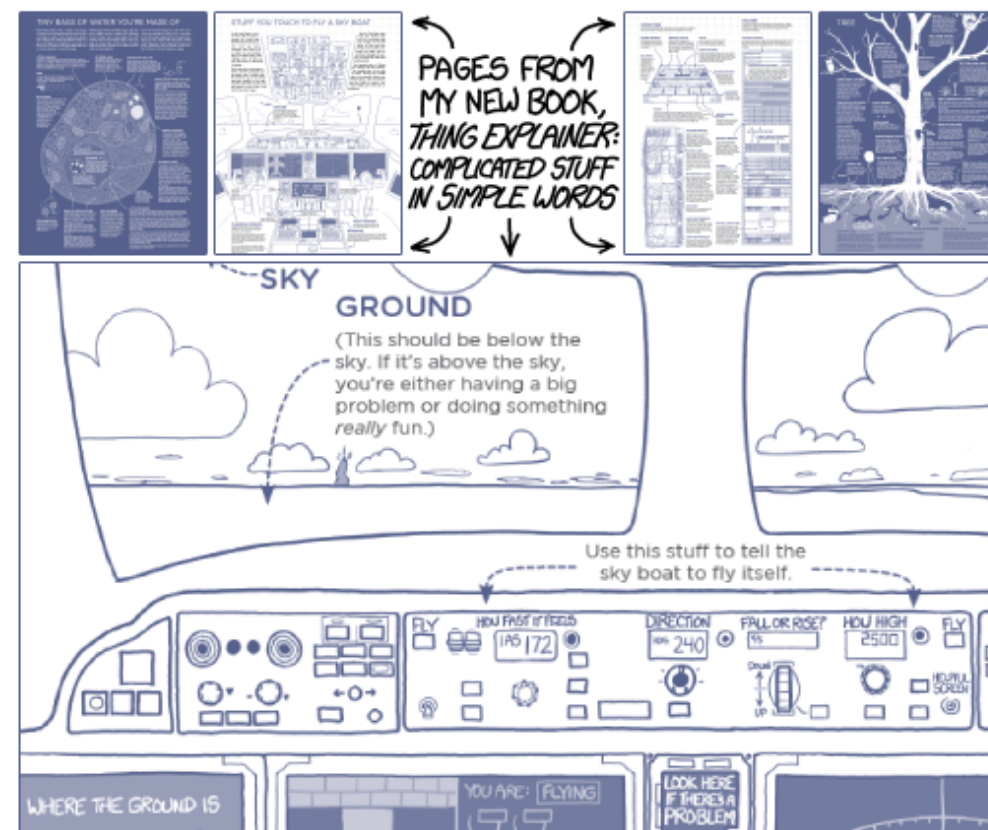
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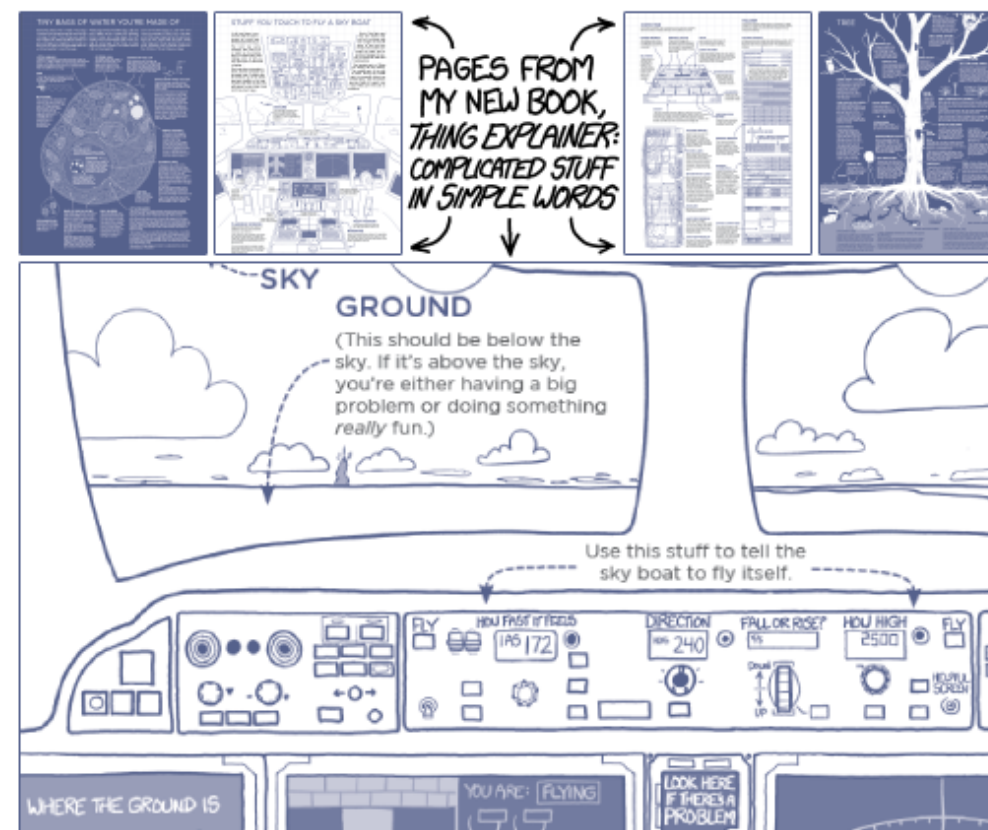
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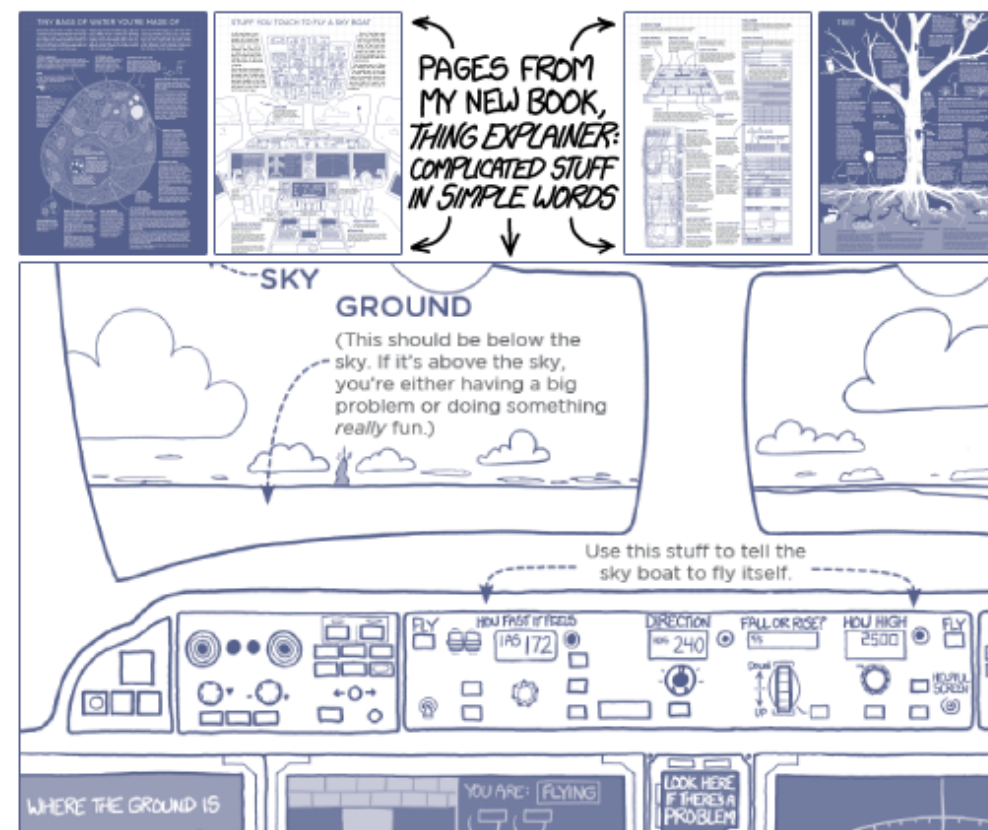
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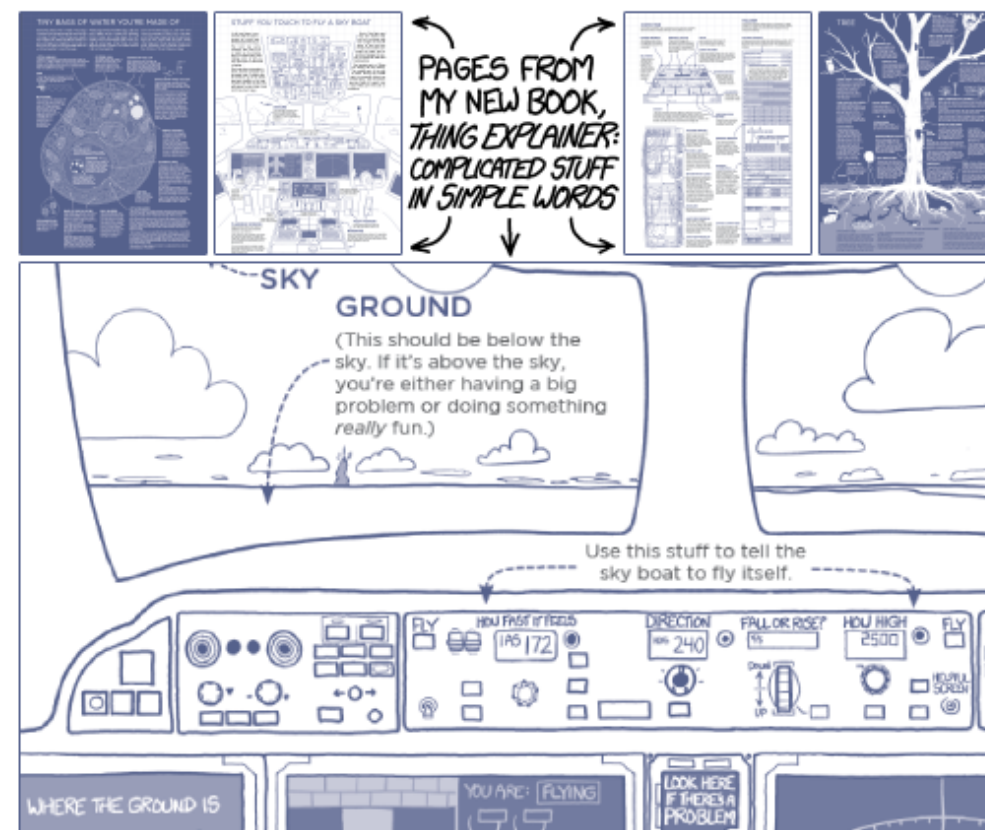
TAGS

[IS](#) [PREV](#) [RANDOM](#) [NEXT](#) [END](#)

`<DIV>Q: HOW DO YOU ANNOY A WEB DEVELOPER?`

[|<](#) [< PREV](#) [RANDOM](#) [NEXT >](#) [>|](#)

PERMANENT LINK TO THIS COMIC: [HTTP://XKCD.COM/1144/](http://xkcd.com/1144/)
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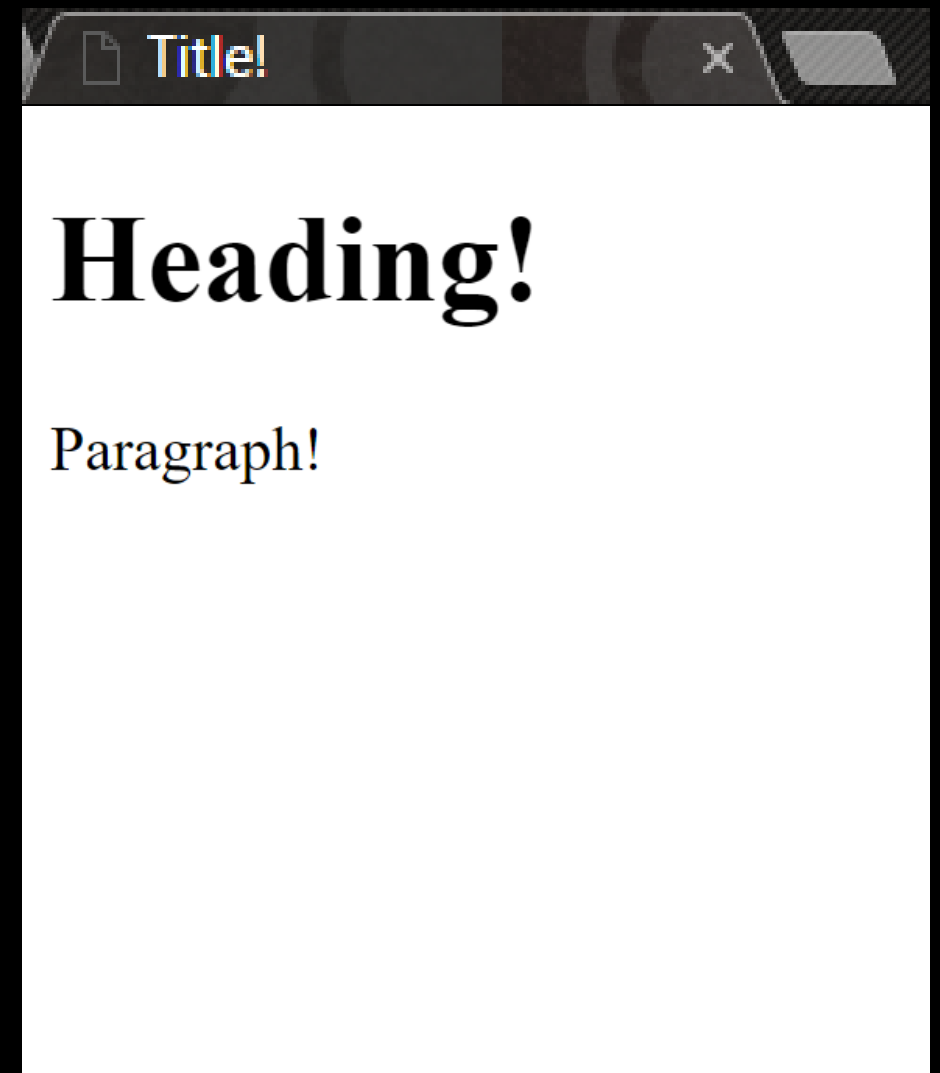


hello.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Title!</title>
  </head>
  <body>
    <h1>Heading!</h1>
    <p>Paragraph!</p>
  </body>
</html>
```

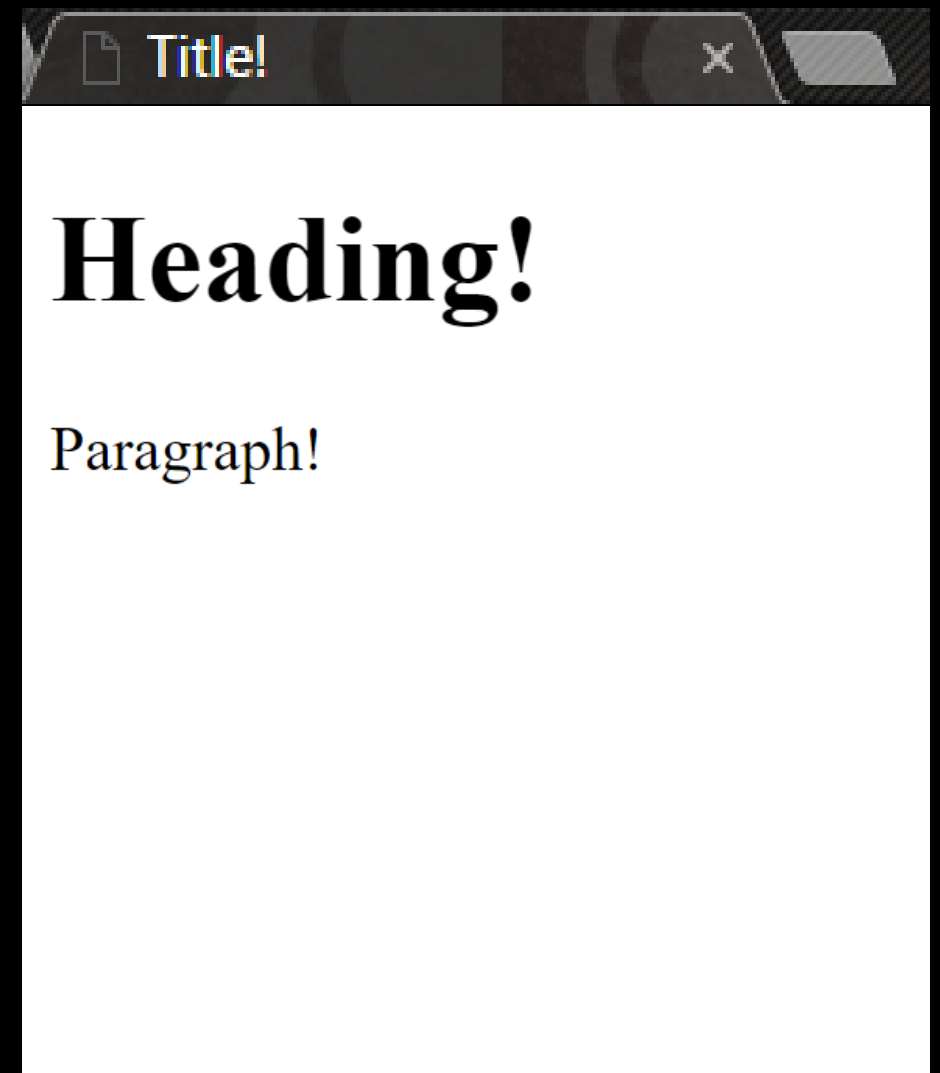

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<html>
  <head>
    <title>Title!</title>
  </head>
  <body>
    <h1>Heading!</h1>
    <p>Paragraph!</p>
  </body>
</html>
```



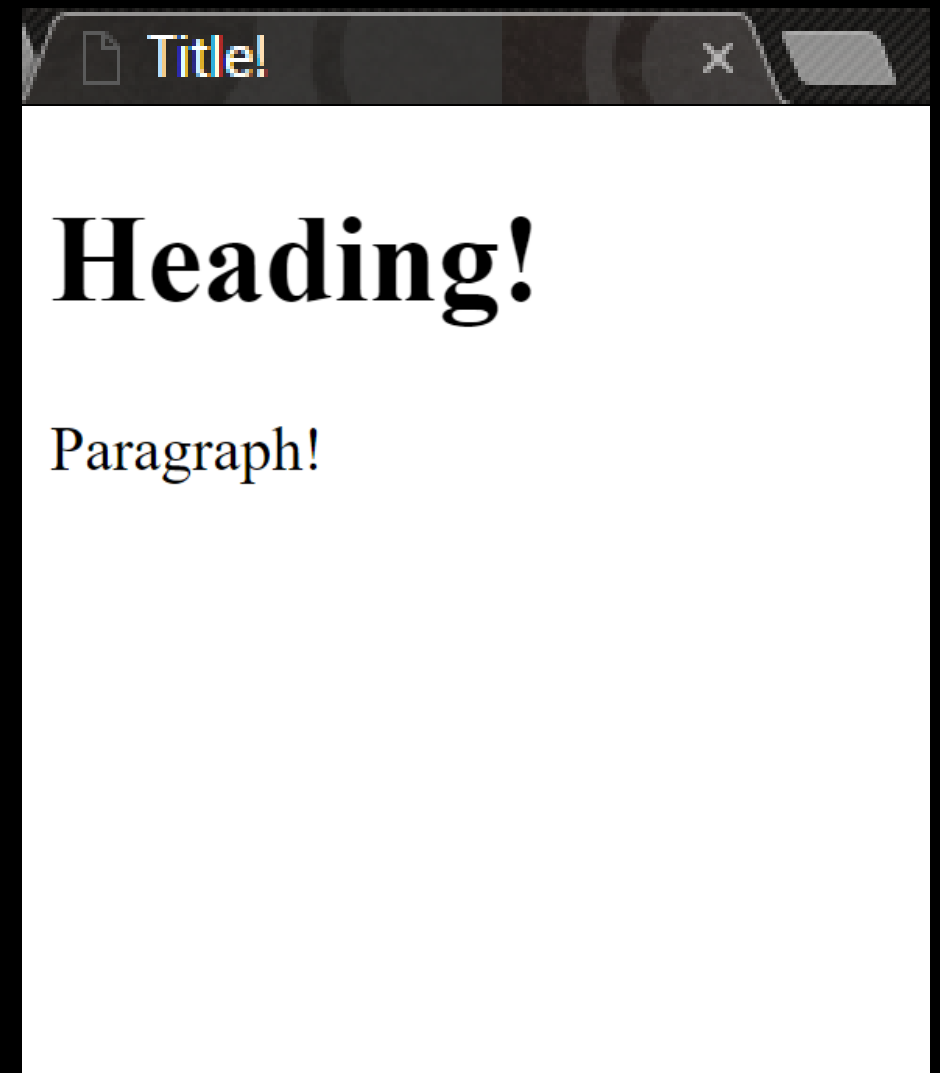
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  </head>
  <body>
    <h1>Heading!</h1>
    <p>Paragraph!</p>
  </body>
</html>
```




hello.html


```
<!DOCTYPE html>
<html>
  <head>
    <title>Title!</title>
  </head>
  <body>
    <h1>Heading!</h1>
    <p>Paragraph!</p>
  </body>
</html>
```



HTML Tags

`<html>`  Opening tag

content goes here

`</html>`  Closing tag

hello.html

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
<title>Title!</title>
```

```
</head>
```

```
<body>
```

```
<h1>Heading!</h1>
```

```
<p>Paragraph!</p>
```

```
</body>
```

```
</html>
```

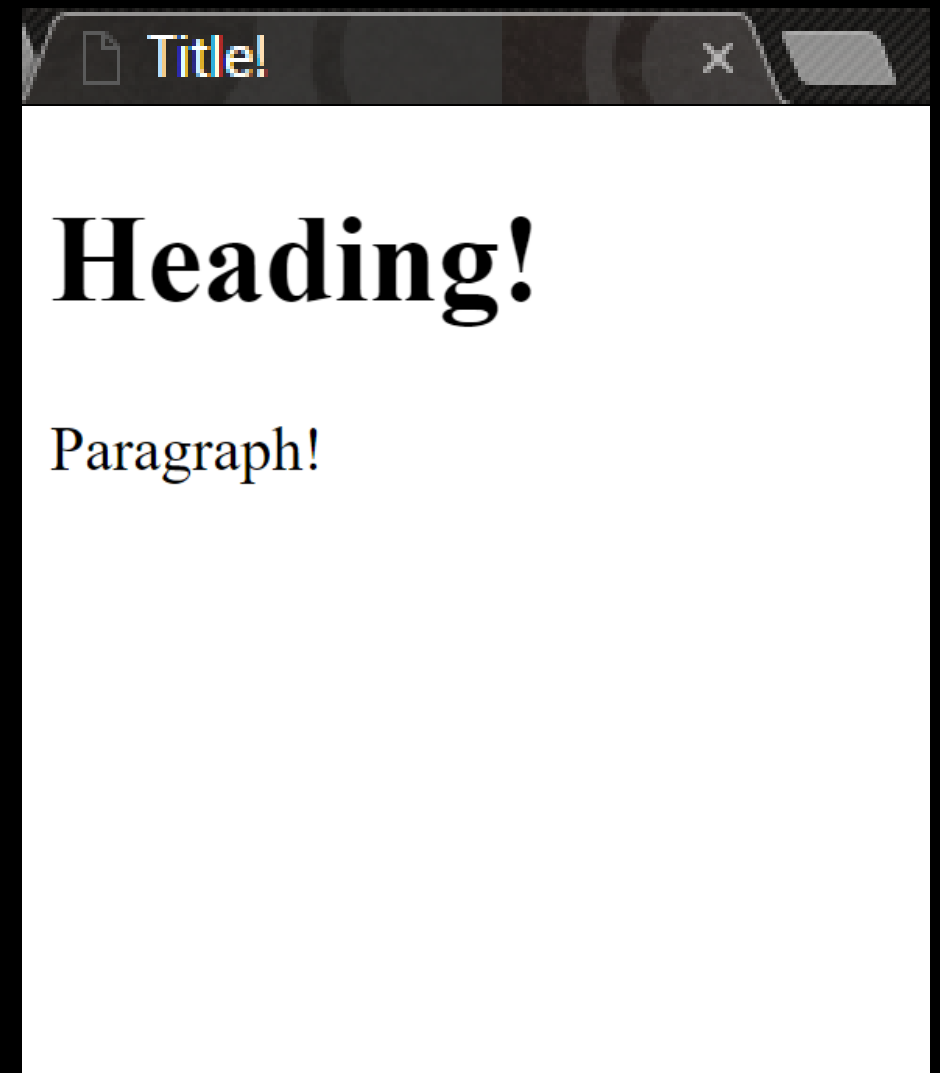
HTML Tags

~~<a>

~~

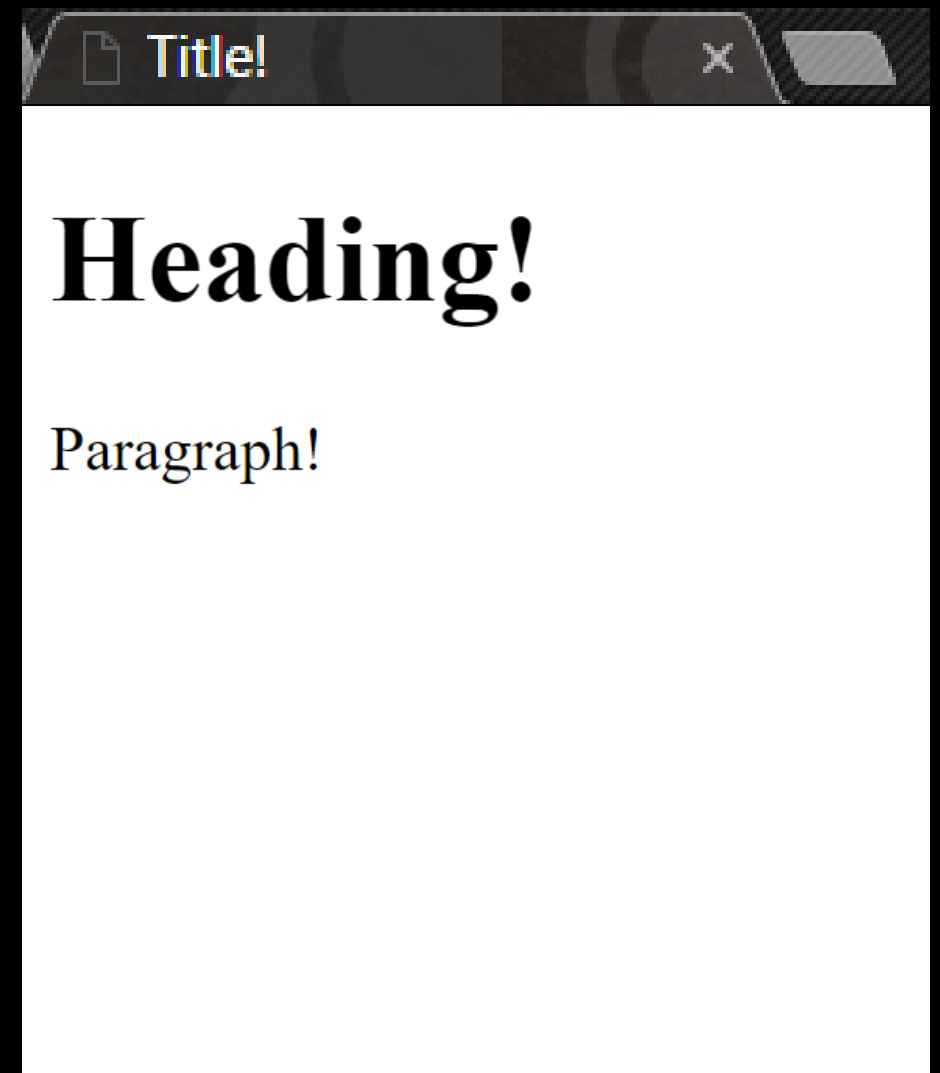
hello.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Title!</title>
  </head>
  <body>
    <h1>Heading!</h1>
    <p>Paragraph!</p>
  </body>
</html>
```



hello.html

```
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<html>
  <head>
    <title>Title!</title>
  </head>
  <body>
    <h1>Heading!</h1>
    <p>Paragraph!</p>
  </body>
</html>
```



hello.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Title!</title>
  </head>
  <body>
    <h1>Heading!</h1>
    <p>Paragraph!</p>
  </body>
</html>
```

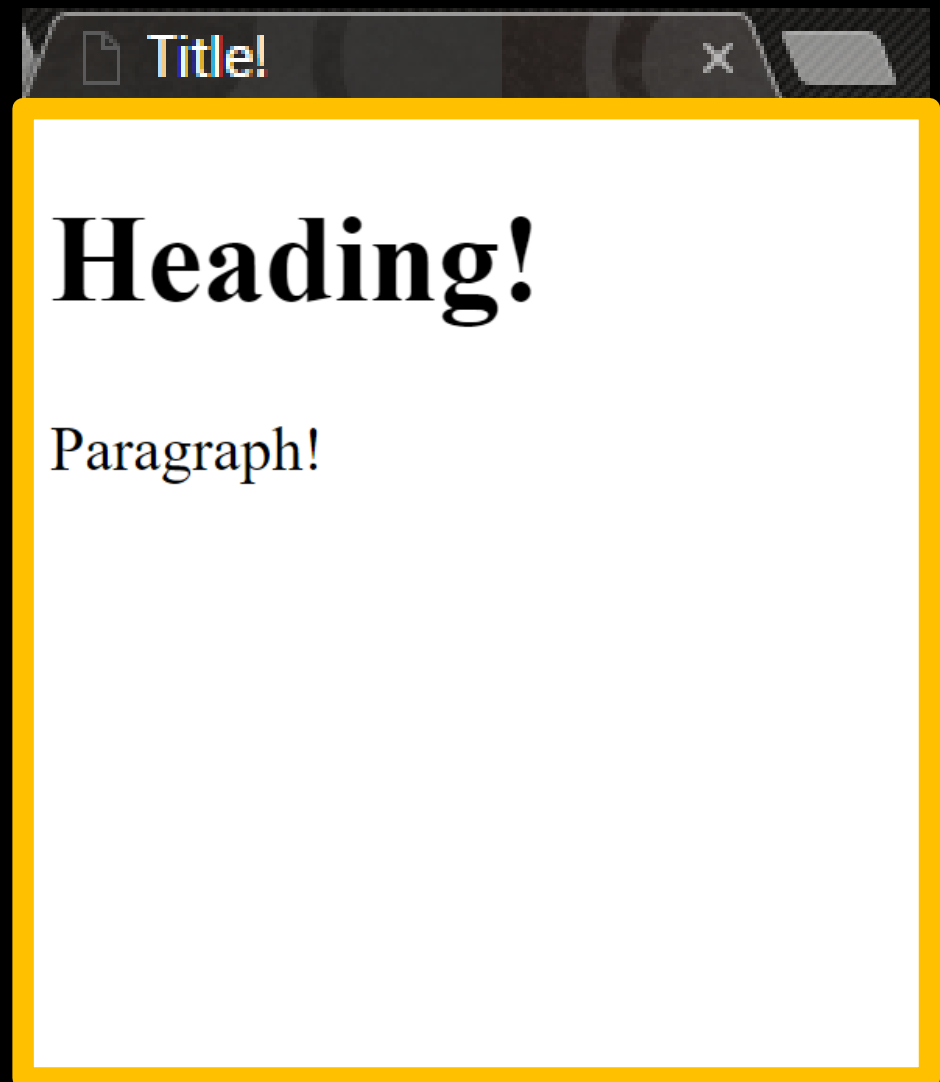
Title!

Heading!

Paragraph!

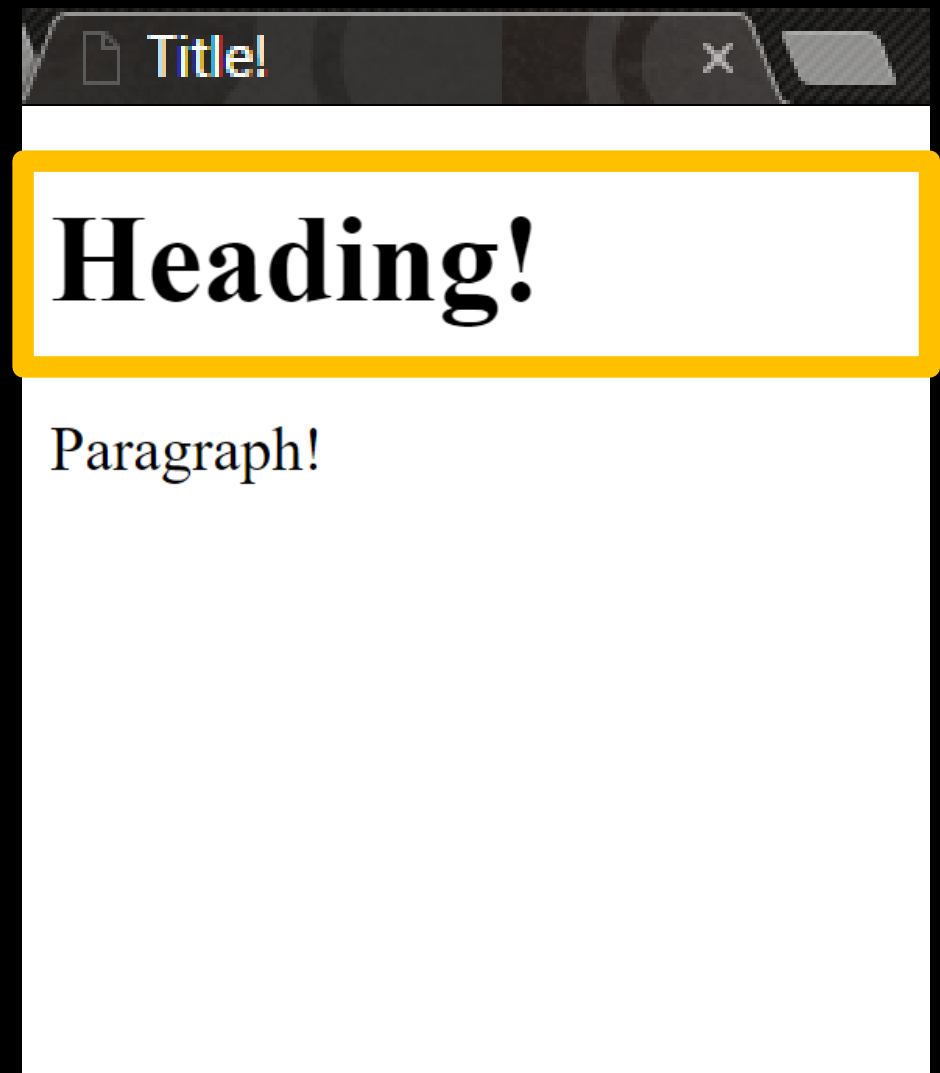
hello.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Title!</title>
  </head>
  <body>
    <h1>Heading!</h1>
    <p>Paragraph!</p>
  </body>
</html>
```



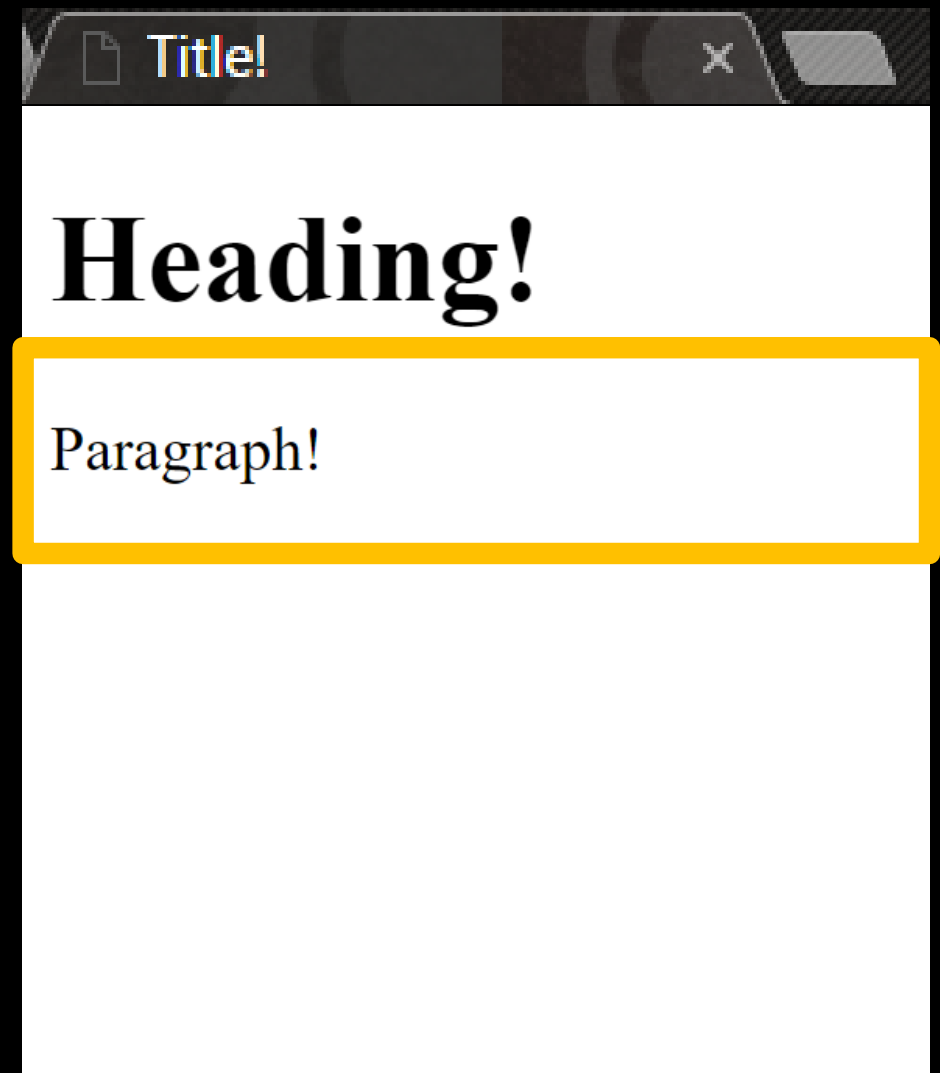
hello.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Title!</title>
  </head>
  <body>
    <h1>Heading!</h1>
    <p>Paragraph!</p>
  </body>
</html>
```



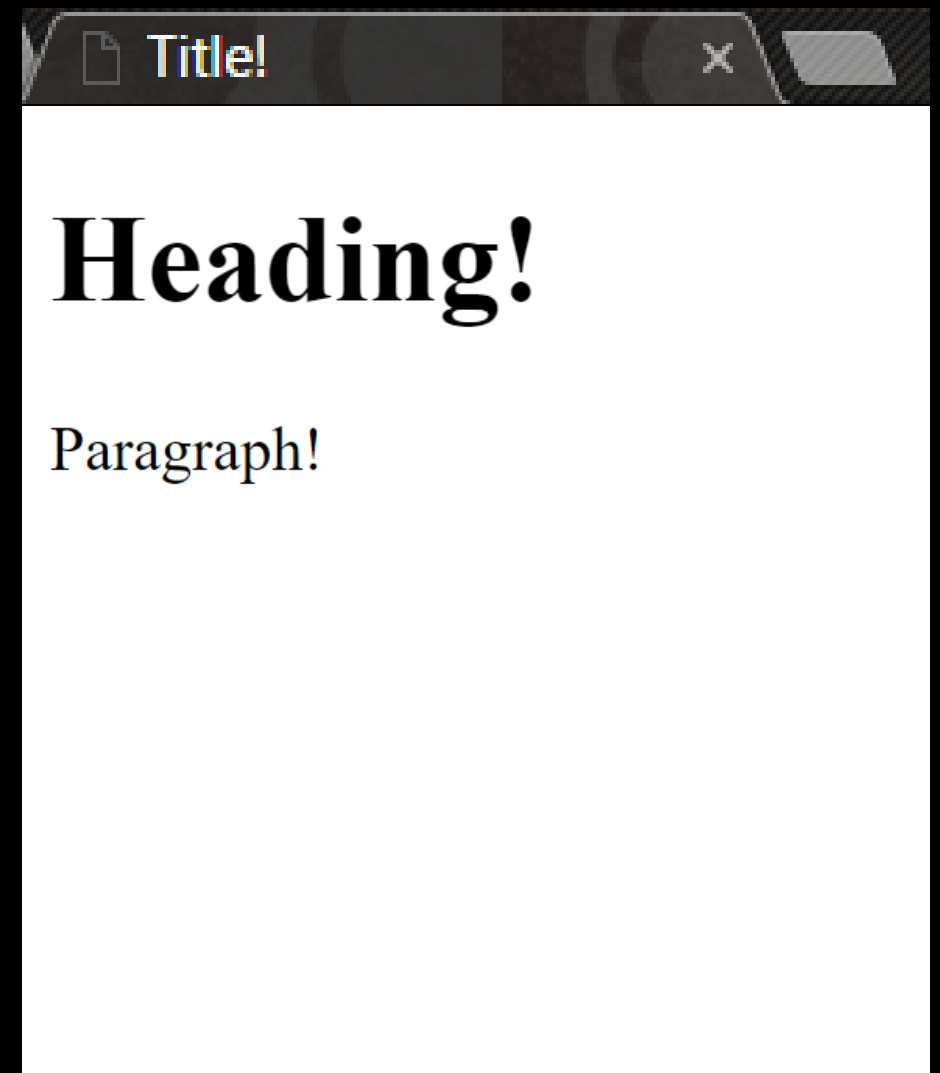
hello.html

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<!DOCTYPE html>
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hello.html

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  </head>
  <body>
    <h1>Heading!</h1>
    <p>Paragraph!</p>
  </body>
</html>
```



Basic HTML Elements

<code><html></code>	Root of HTML Document
<code><head></code>	Info about Document
<code><body></code>	Document Body
<code><h1>, <h2>, <h3>, ...</code>	Header tags
<code><p></code>	Paragraph tags

Basic HTML Elements

<html>

Root of HTML Document

<head>

Info about Document

<body>

Document Body

<h1>, <h2>, <h3>, ...

Header tags

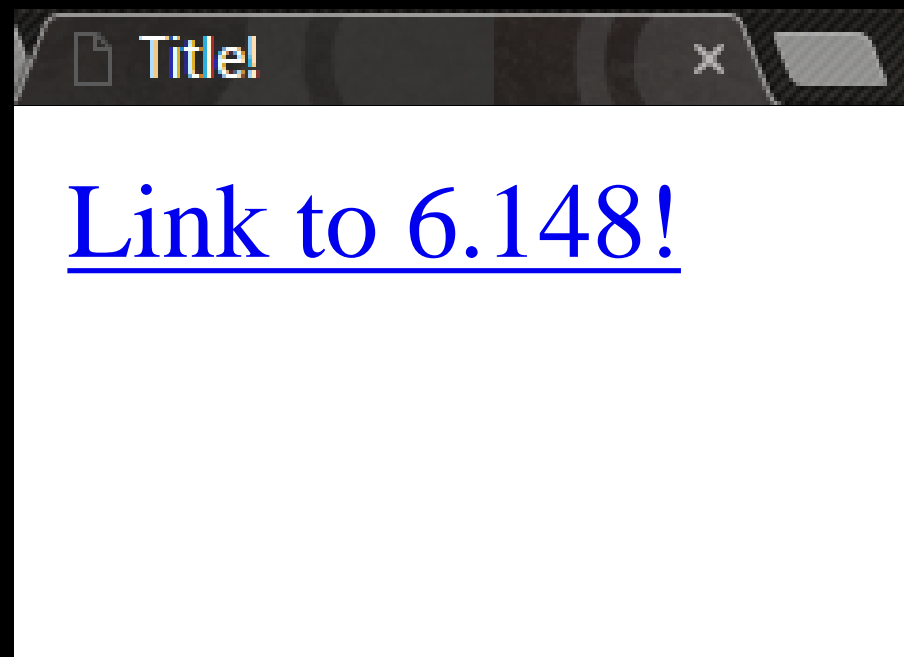
<p>

Paragraph tags

Inserting Links

<a>

Link

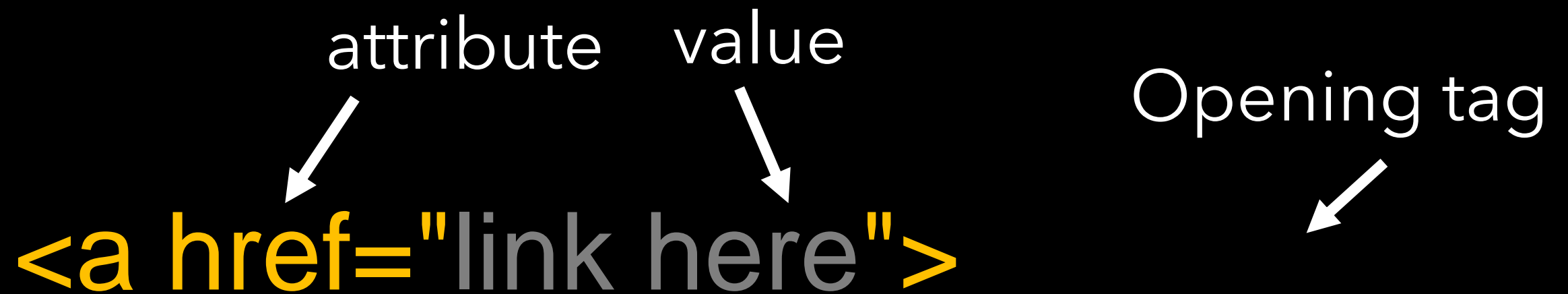


HTML Attributes

attribute value

Opening tag

``

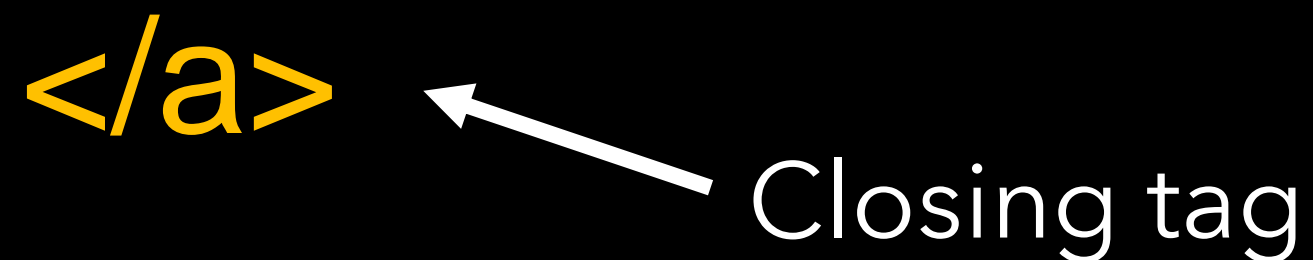


The diagram shows the opening tag ``. The text 'attribute' has an arrow pointing to 'href' in the code. The text 'value' has an arrow pointing to the quoted string 'link here'. The text 'Opening tag' has an arrow pointing to the opening angle bracket '<'.

content goes here

``

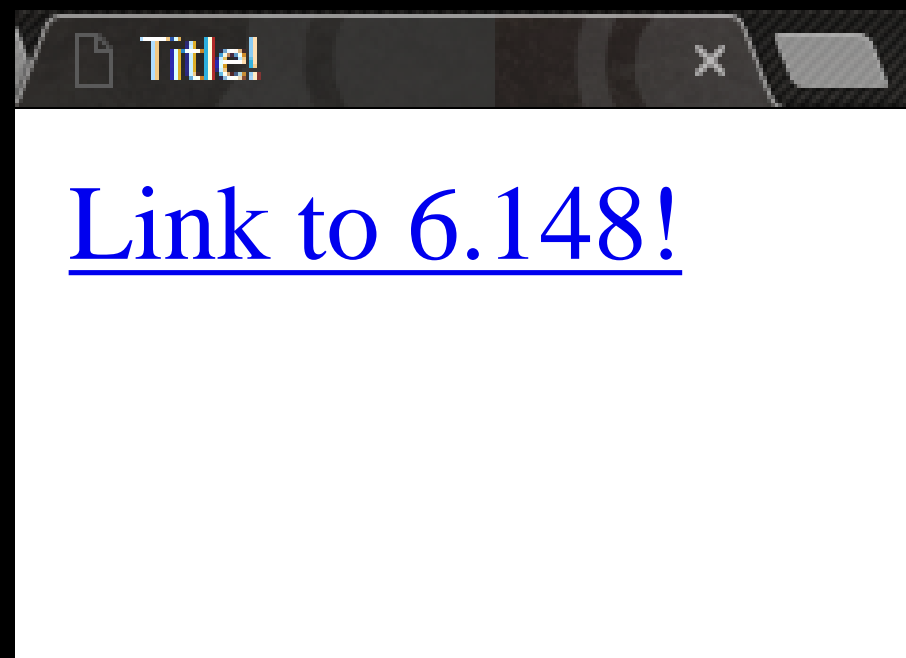
Closing tag



The diagram shows the closing tag ``. The text 'Closing tag' has an arrow pointing to the closing angle bracket '>'.

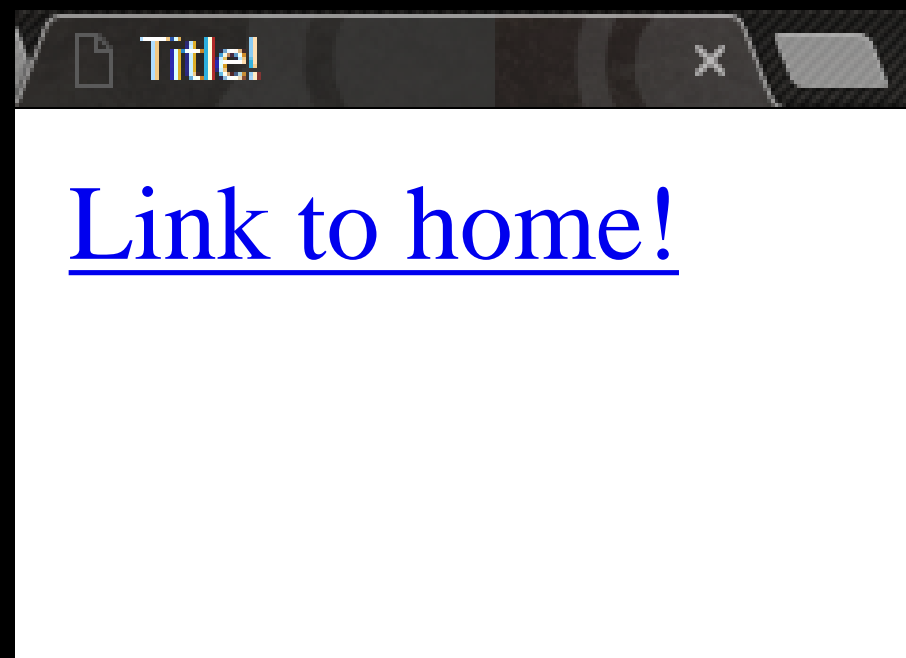
Inserting Links

```
<a href="http://6148.io">Link to 6.148!</a>
```



Inserting Links

```
<a href="home.html">Link to home!</a>
```



Inserting Images

Image

Inserting Images

~~~~

Inserting Images

```

```



Inserting Images

```

```

```
app/  
  hello.html  
  pusheen.gif
```

Inserting Images

~~~~



```
app/  
  hello.html  
  images/  
    pusheen.gif
```

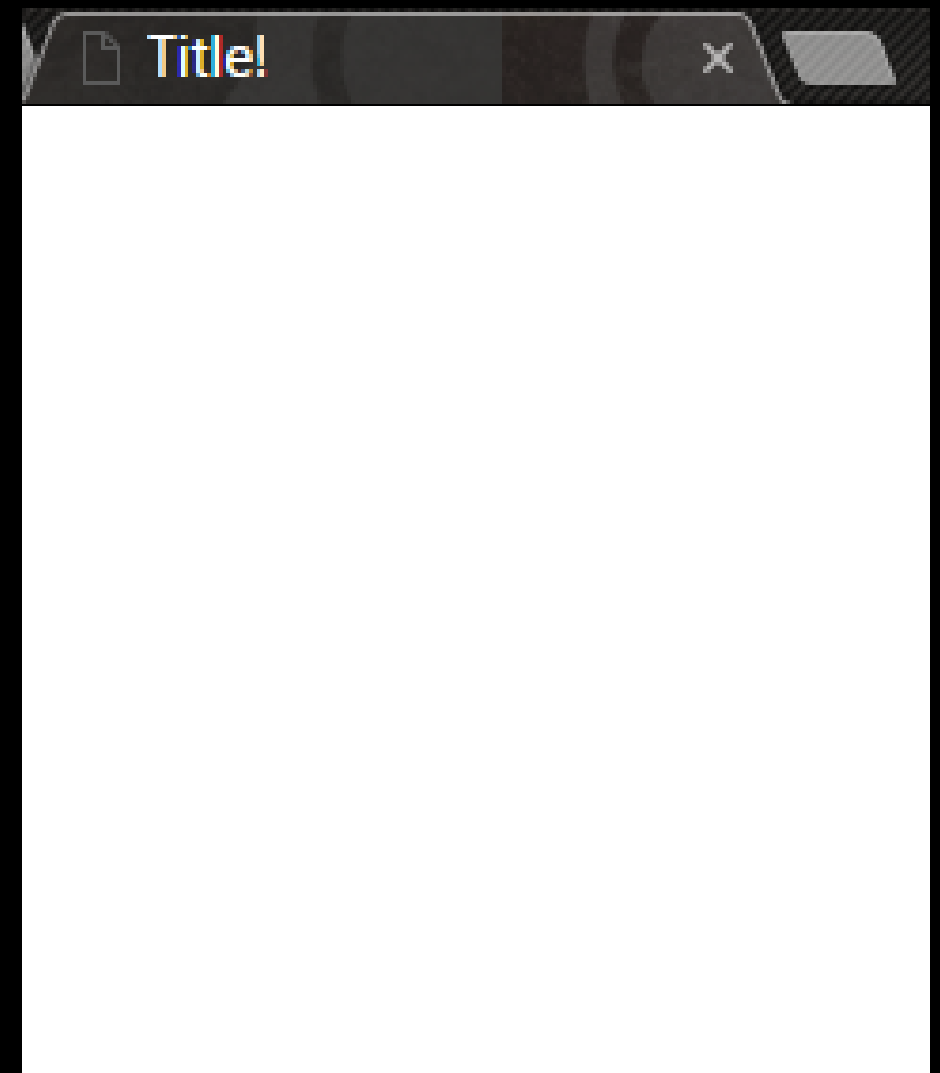


# Lists

- `<ol>` Ordered List (1, 2, 3...)
- `<ul>` Unordered List (bullets)
- `<li>` List Item

hello.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Title!</title>
  </head>
  <body>
    <ul>
    </ul>
  </body>
</html>
```



hello.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Title!</title>
  </head>
  <body>
    <ul>
      <li>Item 1</li>
    </ul>
  </body>
</html>
```

- 
- A browser window with a dark title bar containing a file icon, the text 'Title!', a close button 'x', and a maximize button. The main content area is white and contains a single bullet point.
- Item 1

hello.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Title!</title>
  </head>
  <body>
    <ul>
      <li>Item 1</li>
      <li>Item 2</li>
    </ul>
  </body>
</html>
```

- 
- Item 1
  - Item 2

# div & span

`<div>`

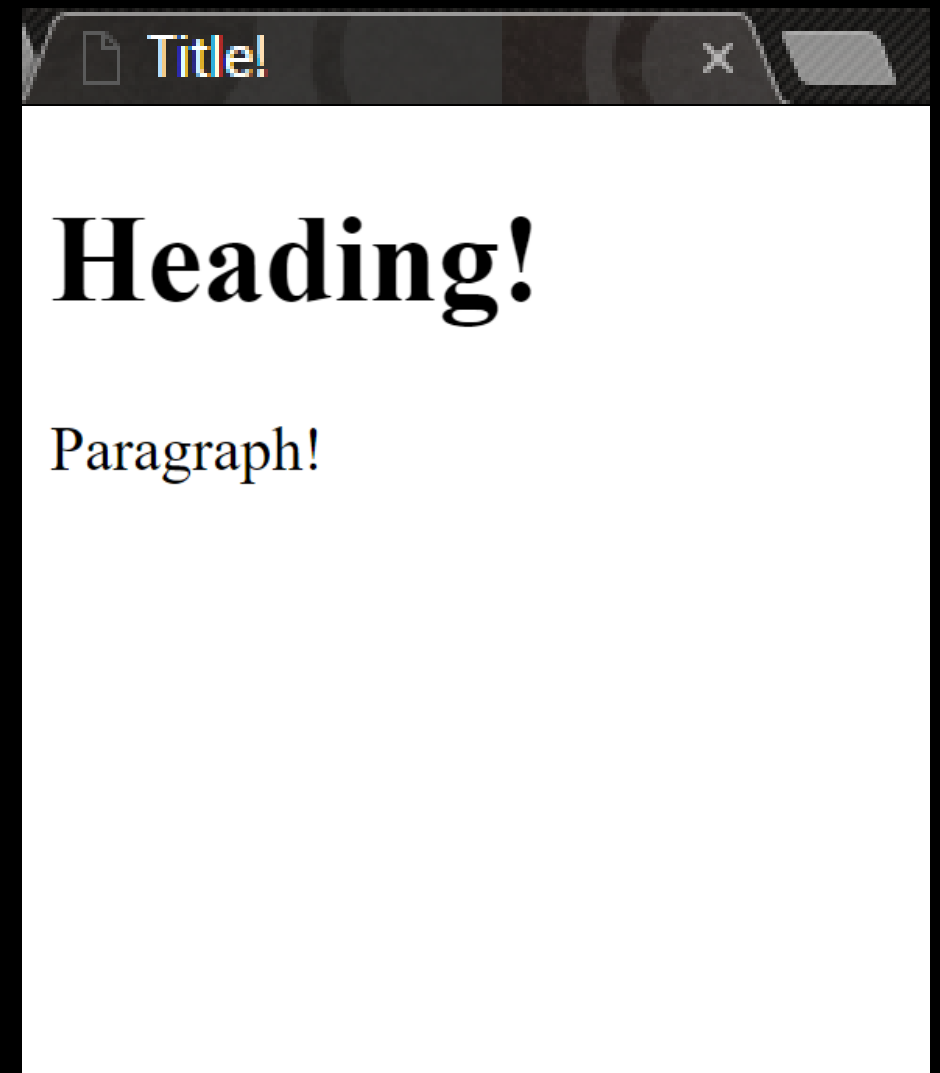
Block Section in Document

`<span>`

Inline Section in Document

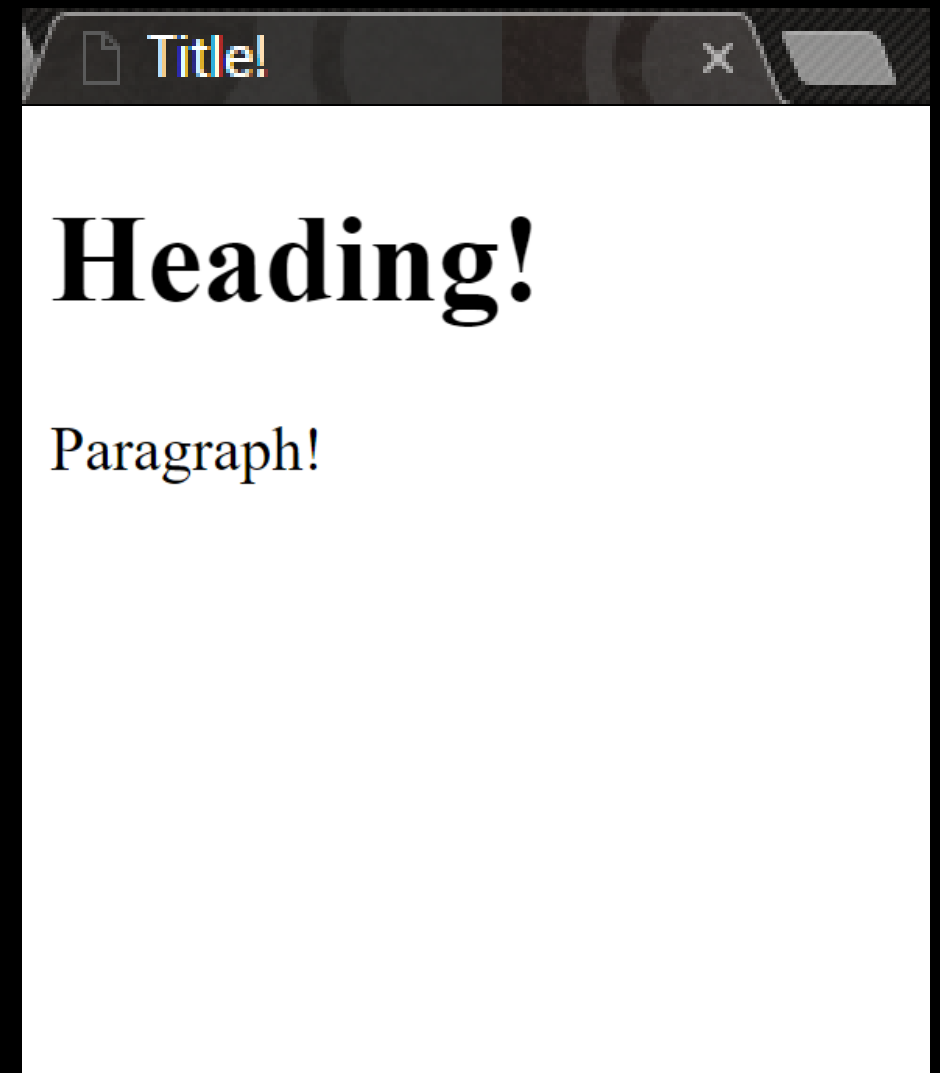
hello.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Title!</title>
  </head>
  <body>
    <h1>Heading!</h1>
    <p>Paragraph!</p>
  </body>
</html>
```



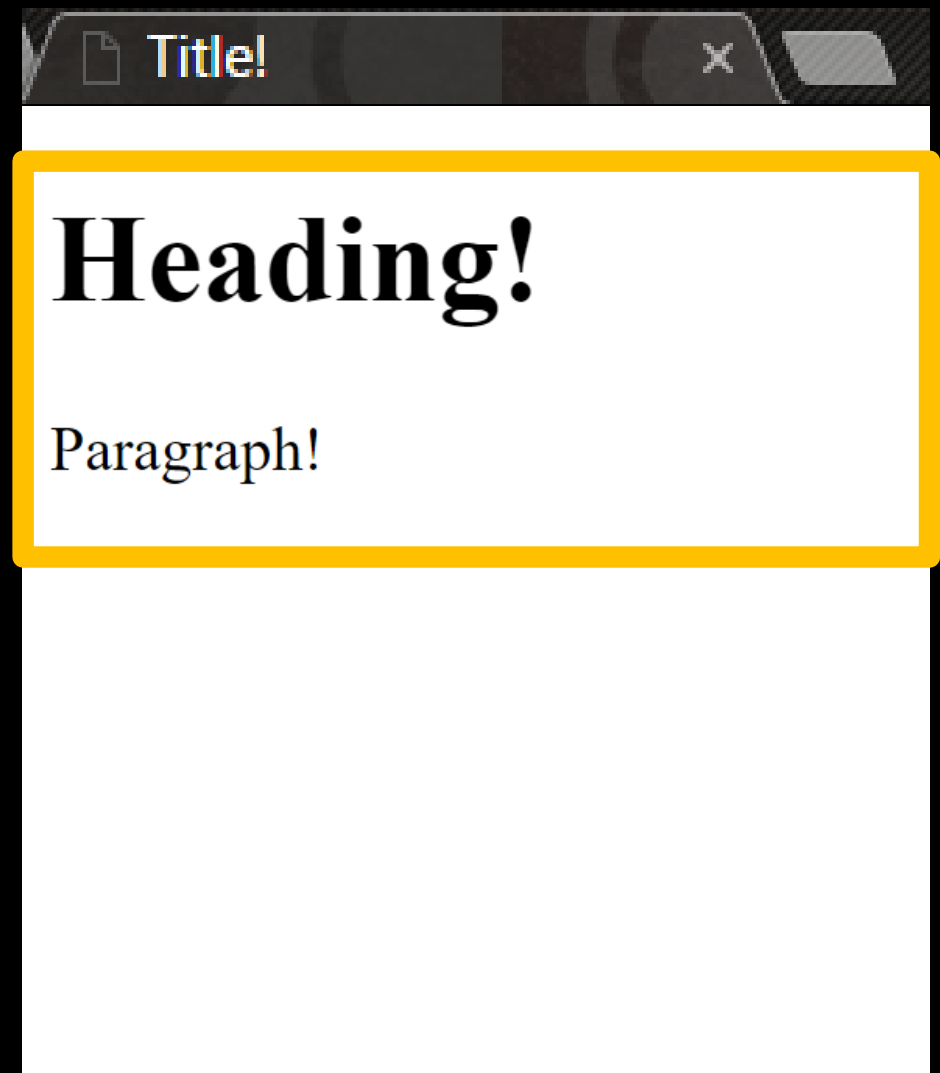
hello.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Title!</title>
  </head>
  <body>
    <div>
      <h1>Heading!</h1>
      <p>Paragraph!</p>
    </div>
  </body>
</html>
```



hello.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Title!</title>
  </head>
  <body>
    <div>
      <h1>Heading!</h1>
      <p>Paragraph!</p>
    </div>
  </body>
</html>
```





<span>?</span>

# the real way to learn Web Dev

## Step 1: Google!

html span

All Videos Images Books Shopping More Settings Tools

About 209,000,000 results (0.66 seconds)

The **span** tag is like the div tag. It has no meaning at all and is mostly used for styling by using an id or class. The difference between the two is that div is a block element, It's on a separate line. **span** however is an inline element, meaning that it can be on a line with other elements. Jan 4, 2013

[What does the span tag do? | Codecademy](https://www.codecademy.com/en/forum_questions/502ad0ea558dfe0002026d69)  
[https://www.codecademy.com/en/forum\\_questions/502ad0ea558dfe0002026d69](https://www.codecademy.com/en/forum_questions/502ad0ea558dfe0002026d69)

About this result Feedback

People also ask

- Why is span used in HTML?
- Why is SPAN tag used in HTML?
- Is a span a block element?
- What is a div tag in HTML?

Feedback

**HTML span tag - W3Schools**  
[https://www.w3schools.com/tags/tag\\_span.asp](https://www.w3schools.com/tags/tag_span.asp) ▼  
Definition and Usage. The `<span>` tag is used to group inline-elements in a document. The `<span>` tag provides no visual change by itself. The `<span>` tag provides a way to add a hook to a part of a text or a part of a document.  
[HTML DOM Span Object](#) · [Try it Yourself](#) · [Strike](#)

**HTML span Attribute - W3Schools**  
[https://www.w3schools.com/tags/att\\_span.asp](https://www.w3schools.com/tags/att_span.asp) ▼  
`<table> <colgroup> <col span="2" style="background-color:red"> <col style="background-color:yellow"> </colgroup> <tr> <th>ISBN</th> <th>Title</th> <th>Price</th> </tr> <tr> <td>3476896</td> <td>My first HTML</td> <td>$53</td> </tr> </table>`. [Try it Yourself](#) » ...

**`<span>` - HTML | MDN**  
[https://developer.mozilla.org/en-US/docs/Web/HTML/HTML\\_elements/reference](https://developer.mozilla.org/en-US/docs/Web/HTML/HTML_elements/reference) ▼  
Sep 19, 2017 - The **HTML `<span>`** element is a generic inline container for phrasing content, which does not inherently represent anything. It can be used to group elements for styling purposes (using the class or id attributes), or because they share attribute values, such as lang .

# the real way to learn Web Dev

## Step 2: Learn.

The **span** tag is like the **div** tag. It has **no meaning at all** and is mostly used for styling by using an id or class. The difference between the two is that **div** is a block element, It's on a seperate line. **span** however is an inline element, meaning that it can be on a line with other elements. Jan 4, 2013

[What does the span tag do? | Codecademy](https://www.codecademy.com/en/forum_questions/502ad0ea558dfe0002026d69)

[https://www.codecademy.com/en/forum\\_questions/502ad0ea558dfe0002026d69](https://www.codecademy.com/en/forum_questions/502ad0ea558dfe0002026d69)

# the real way to learn Web Dev

w3schools.com

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[<mark>](#)  
[<menu>](#)  
[<menuitem>](#)  
[<meta>](#)  
[<meter>](#)  
[<nav>](#)  
[<noframes>](#)  
[<noscript>](#)  
[<object>](#)  
[<ol>](#)  
[<optgroup>](#)  
[<option>](#)  
[<output>](#)  
[<p>](#)  
[<param>](#)  
[<picture>](#)  
[<pre>](#)

## HTML <span> Tag

[< Previous](#)

[Complete HTML Reference](#)

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### Example

A <span> element used to color a part of a text:

```
<p>My mother has <span style="color:blue">blue</span> eyes.</p>
```

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## <span>

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Jump to: [Attributes](#) [Example 1](#) [Example 2](#) [Specifications](#) [Browser compatibility](#) [See also](#)

[Web technology for developers](#) > [HTML](#) >  
[HTML elements reference](#) > <span>

### Related Topics

[<a>](#)

[<abbr>](#)

[<b>](#)

[<bdi>](#)

The HTML **<span>** element is a generic inline container for phrasing content, which does not inherently represent anything. It can be used to group elements for styling purposes (using the `class` or `id` attributes), or because they share attribute values, such as `lang`. It should be used only when no other semantic element is appropriate. `<span>` is very much like a `<div>` element, but `<div>` is a **block-level element** whereas a `<span>` is an inline element.

**Content categories** Flow content, phrasing content.

**Permitted content** Phrasing content

# HTML

Hypertext Markup Language

The language your web browser uses to describe the content and structure on web pages

# CSS

## Cascading Style Sheets

The **rules** that tell your **web browser** how **stuff** looks

But first...

# My Take on CSS

CSS = A list of  
descriptions



facebook

Email or Phone

☐ Keep me logged in

Password

Log In

[Forgot your password?](#)

Connect with friends and the  
world around you on Facebook.



See photos and updates from friends in News Feed.



Share what's new in your life on your Timeline.



Find more of what you're looking for with Facebook Search.

## Sign Up

It's free and always will be.

First name

Last name

Email or mobile number

Re-enter email or mobile number

New password

Birthday

Month

Day

Year

[Why do I need to provide my birthday?](#)

☐ Female

☐ Male

By clicking Sign Up, you agree to our [Terms](#) and that you have read our [Data Policy](#), including our [Cookie Use](#).

Sign Up

[Create a Page](#) for a celebrity, band or business.

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[English \(US\)](#)

## [Facebook logo](#)

|                                            |                                       |                                       |
|--------------------------------------------|---------------------------------------|---------------------------------------|
| Email or Phone                             | Password                              |                                       |
| <input type="text"/>                       | <input type="password"/>              | <input type="button" value="Log In"/> |
| <input type="checkbox"/> Keep me logged in | <a href="#">Forgot your password?</a> |                                       |

**Connect with friends and the world around you on Facebook.**



See photos and updates from friends in News Feed.



Share what's new in your life on your Timeline.



Find more of what you're looking for with Facebook Search.

## Sign Up

It's free and always will be.

First name

Last name

Email or mobile number

Re-enter email or mobile number

New password

Birthday

```
p {
```

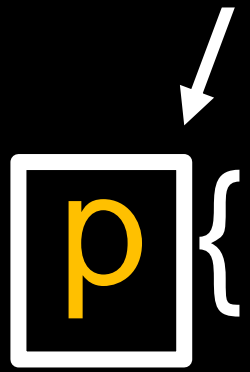
```
    color: red;
```

```
    font-family: Arial;
```

```
    font-size: 24pt;
```

```
}
```

selector



color: red;

font-family: Arial;

font-size: 24pt;

}

selector



p {

property

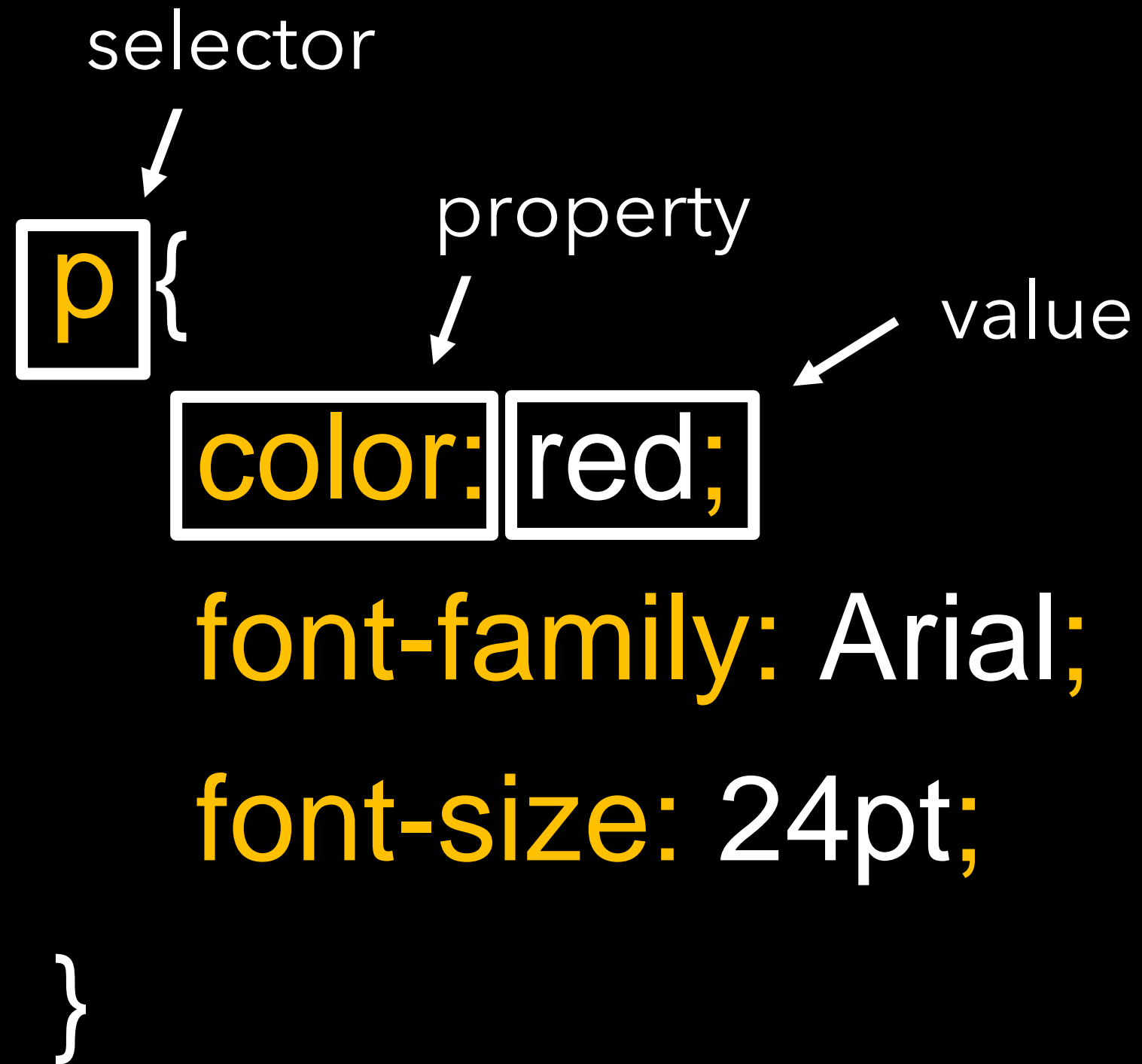


color: red;

font-family: Arial;

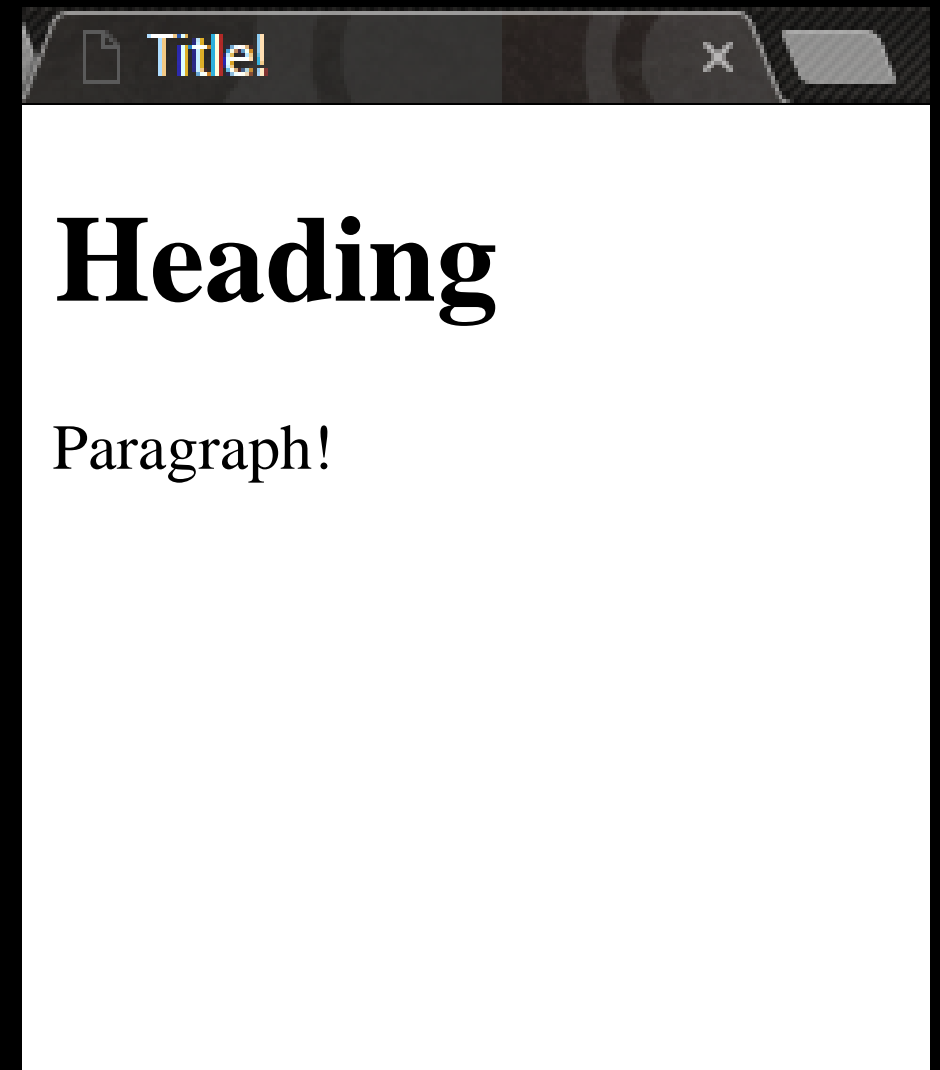
font-size: 24pt;

}



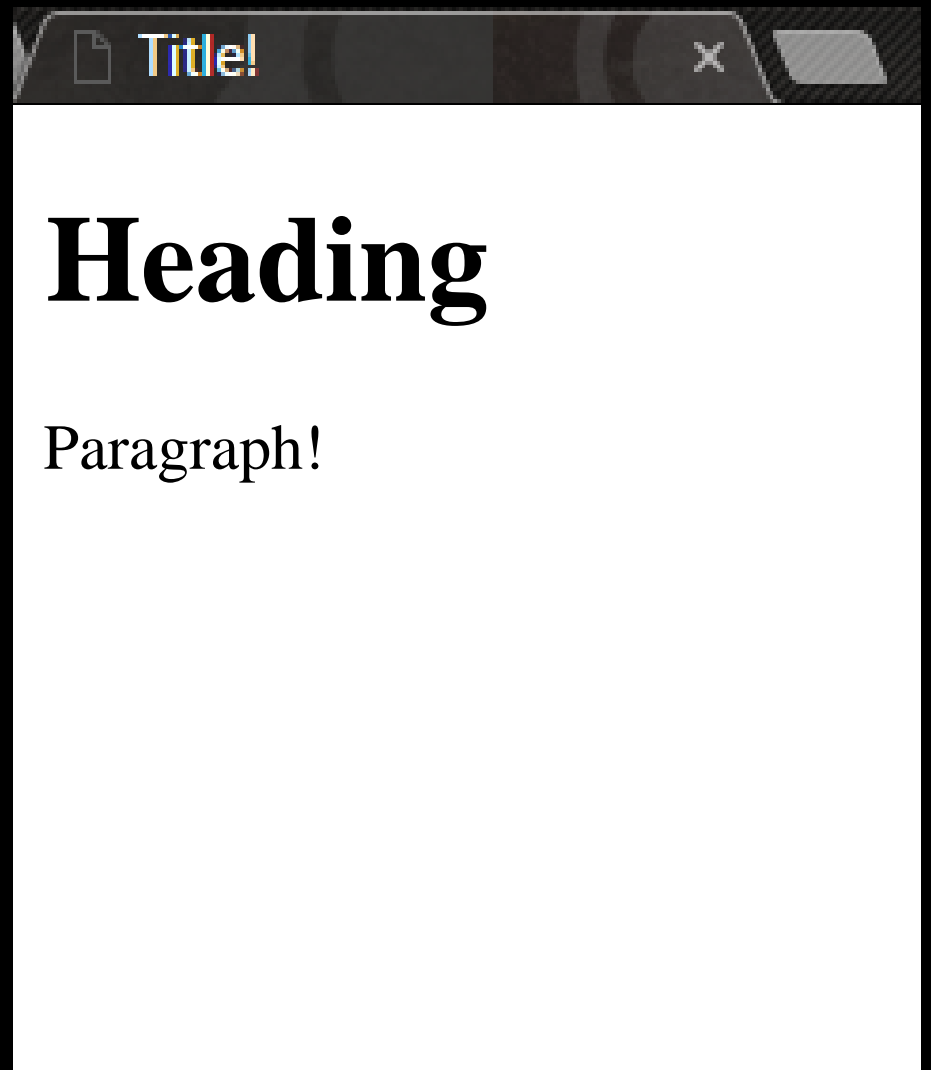
hello.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Title!</title>
  </head>
  <body>
    <h1>Heading!</h1>
    <p>Paragraph!</p>
  </body>
</html>
```



hello.html

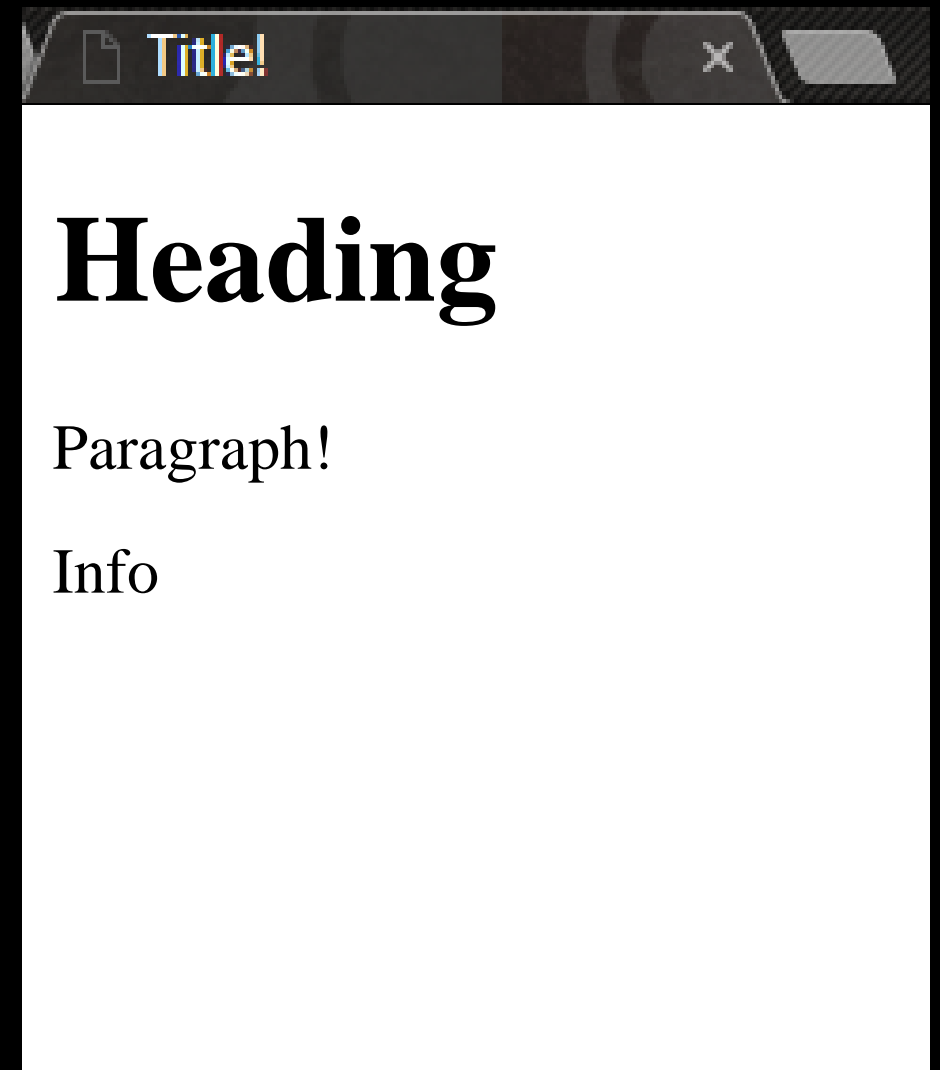
```
<h1>Heading!</h1>  
<p>Paragraph!</p>
```





hello.html

```
<h1>Heading!</h1>  
<p>Paragraph!</p>  
<p>Info</p>
```

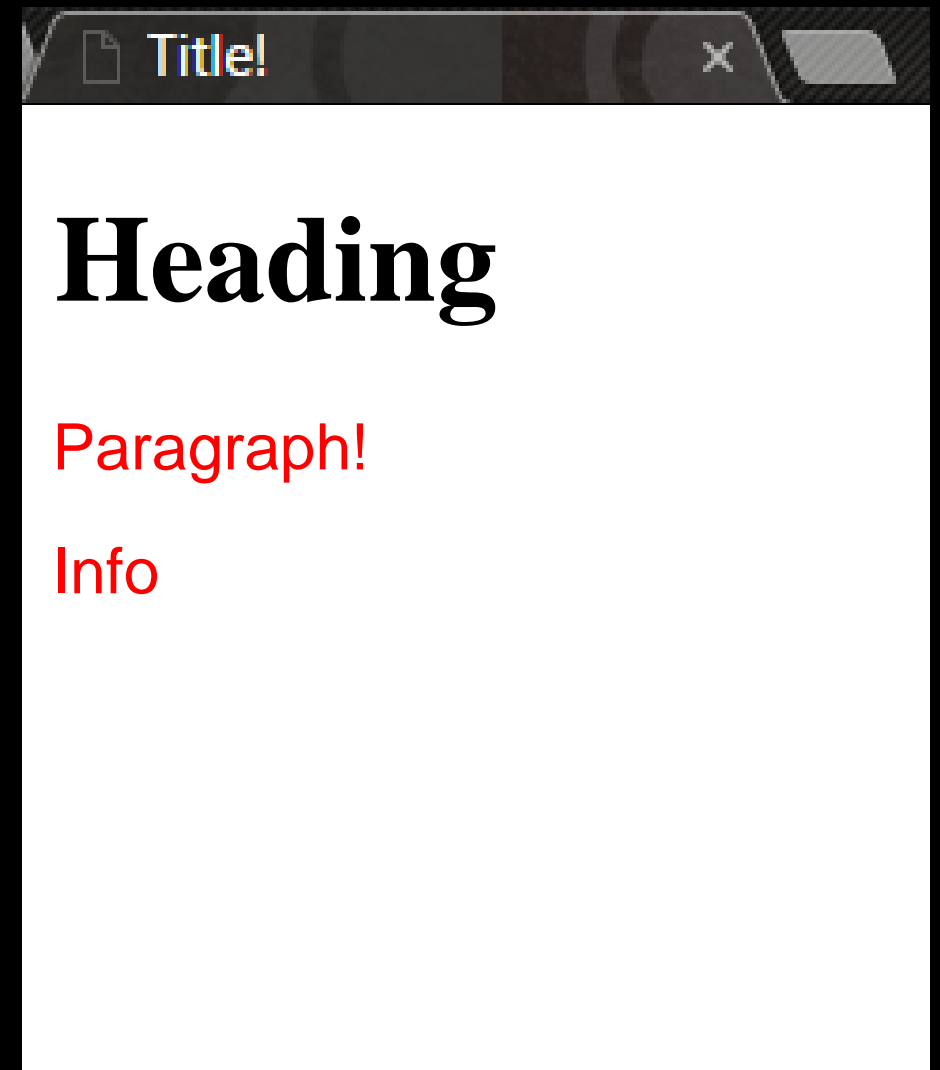


hello.html

```
<h1>Heading!</h1>  
<p>Paragraph!</p>  
<p>Info</p>
```

style.css

```
p {  
  color: red;  
  font-family: Arial;  
  font-size: 24pt;  
}
```

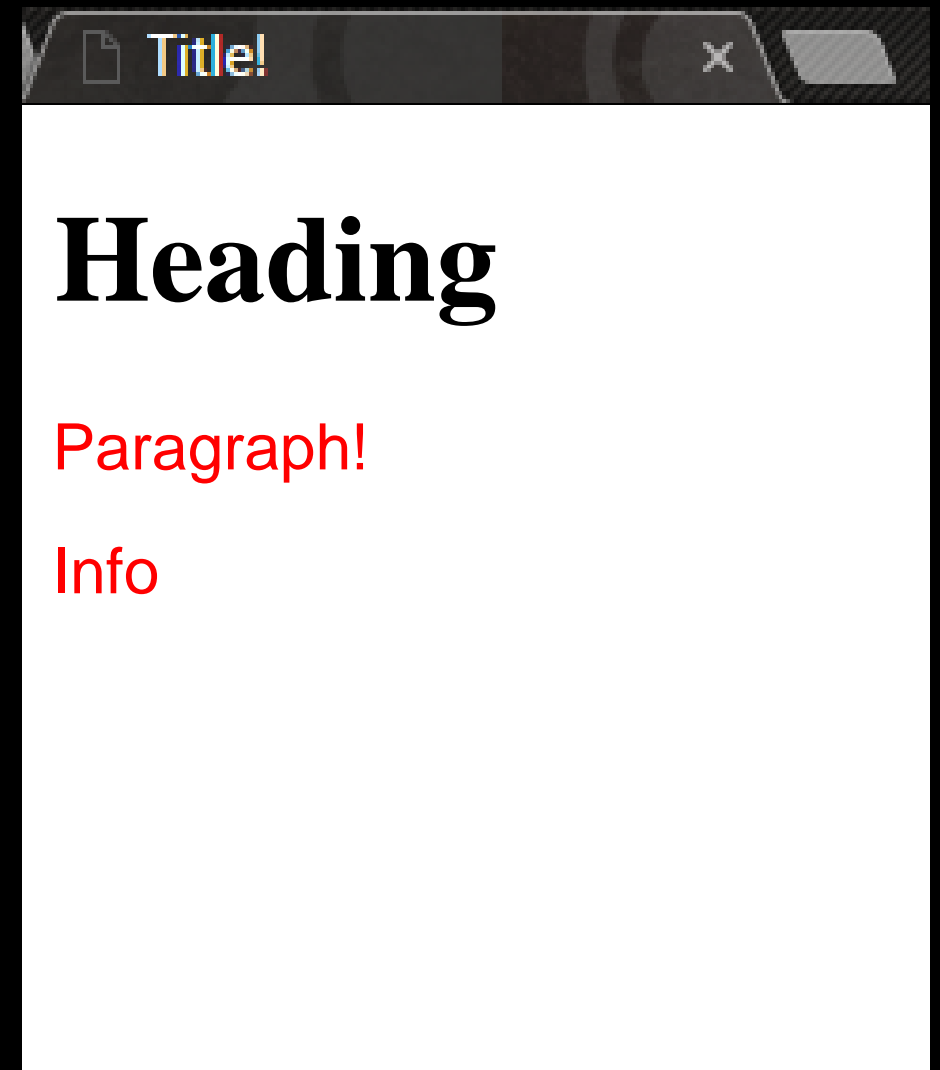


hello.html

```
<h1>Heading!</h1>
<p>Paragraph!</p>
<p class="info">Info</p>
```

style.css

```
p {
  color: red;
  font-family: Arial;
  font-size: 24pt;
}
```

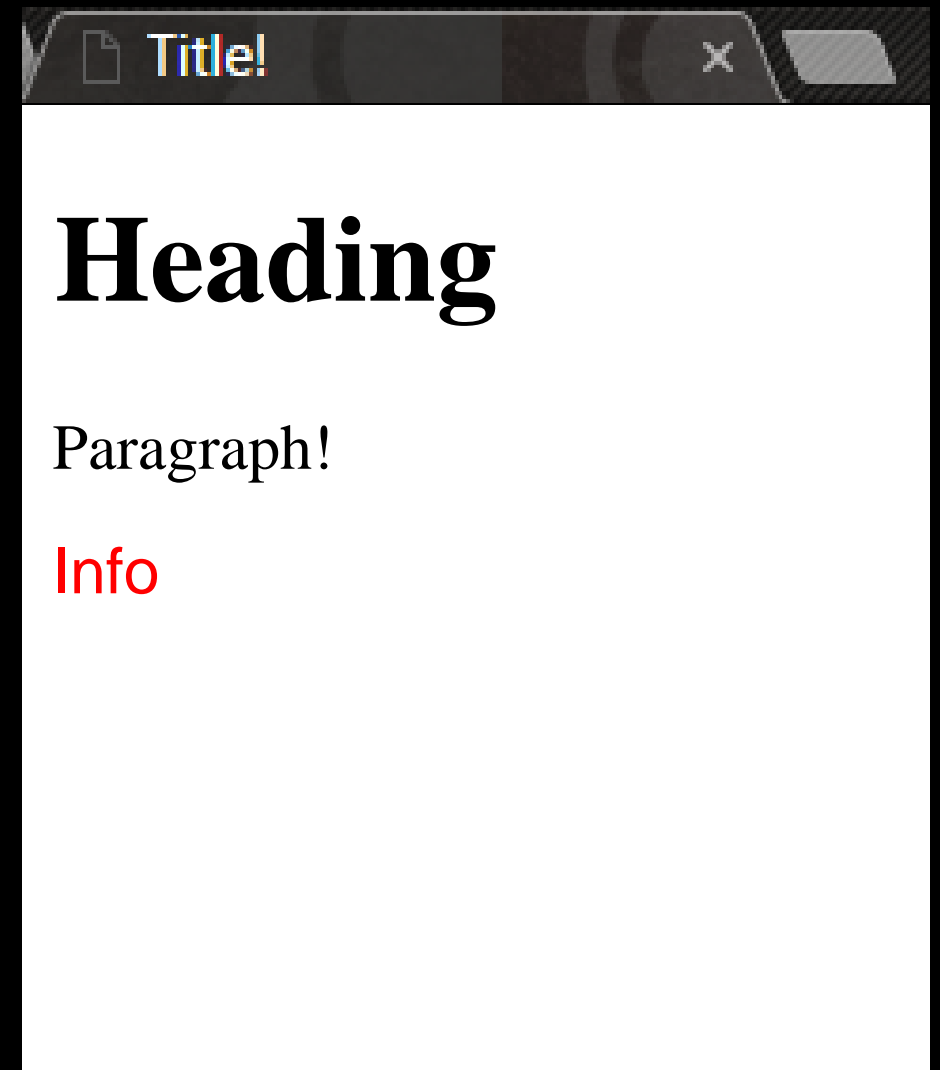


hello.html

```
<h1>Heading!</h1>  
<p>Paragraph!</p>  
<p class="info">Info</p>
```

style.css

```
.info {  
  color: red;  
  font-family: Arial;  
  font-size: 24pt;  
}
```



hello.html

```
<h1>Heading!</h1>  
<p>Paragraph!</p>  
<p id="unique">Info</p>
```

style.css

```
#unique {  
  color: red;  
  font-family: Arial;  
  font-size: 24pt;  
}
```



# Class vs ID

## ***Class***

Can use the same class on multiple elements

Can use multiple classes on the same element

## ***ID***

Each element can have only one ID

Each page can have only one element with that ID

# Class vs ID

## *Class*

Can use the same class on multiple elements

Can use multiple classes on the same element

```
.classname {  
    ...  
}
```

## *ID*

Each element can have only one ID

Each page can have only one element with that ID

```
#id {  
    ...  
}
```

# Combining HTML & CSS



hello.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Title!</title>
  </head>
  <body>
    <h1>Heading!</h1>
    <p>Paragraph!</p>
  </body>
</html>
```

hello.html

```
<!DOCTYPE html>
<html>
  <head>
    <title>Title!</title>
    <link rel="stylesheet"
          type="text/css"
          href="style.css">
  </head>
  <body>
    <h1>Heading!</h1>
    <p>Paragraph!</p>
  </body>
</html>
```

# In Conclusion:

HTML = nested boxes!  
CSS = a list of descriptions

A description in the CSS affects a box in the HTML

# HTML/CSS Workshop

Making your Catbook profile!

# Catbook

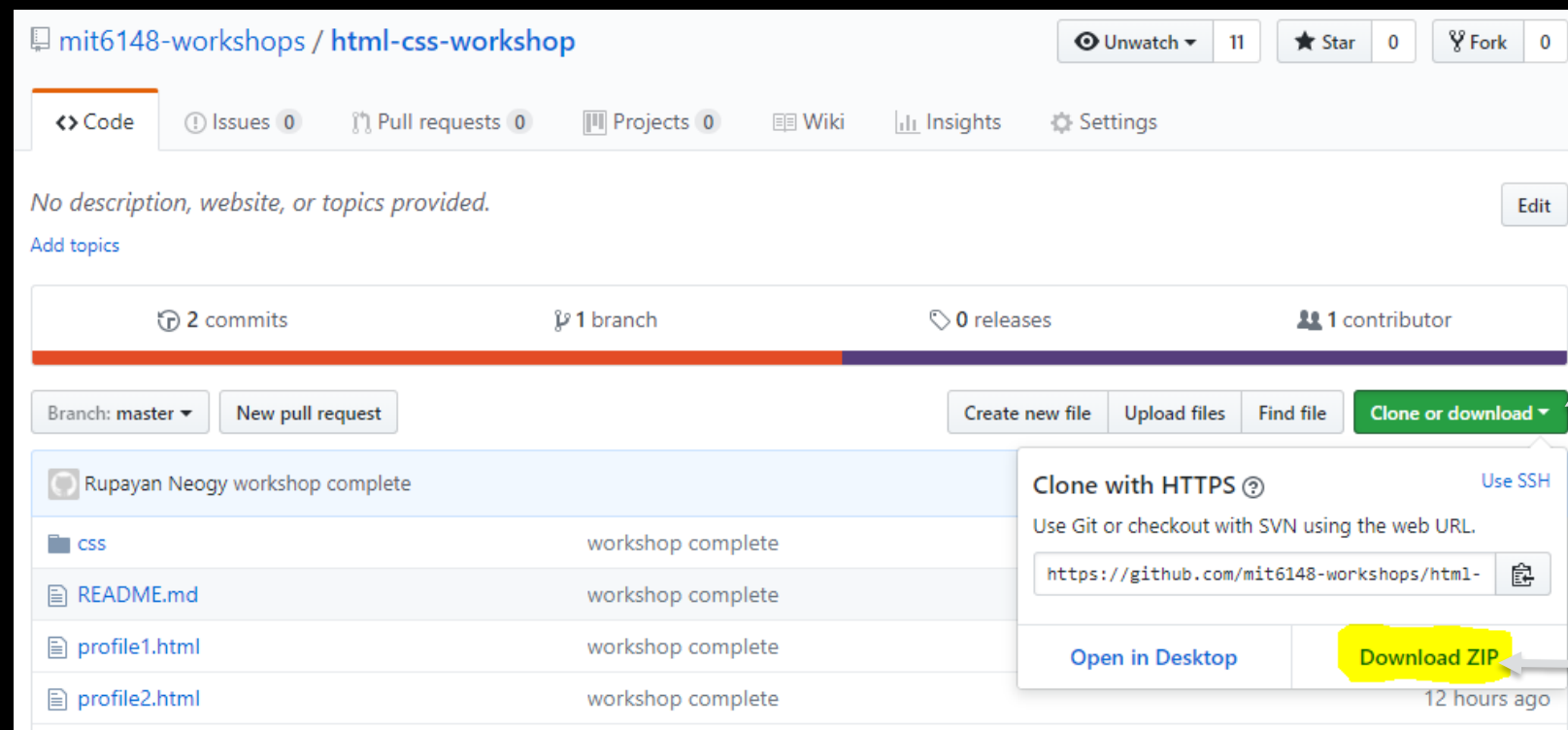
The purrfect social media website

# Git the workshop code!

go.6148.io/html-css-workshop

If you know how to Git, clone the repository.

If you don't know how to Git, download as zip.



# Exercise 1: Kitten Started

Open profile1.html in chrome to see what it looks like.

Change the name, description, and status to your choice.

You have to save the file and refresh the webpage to see changes.

## Catbook



## Rupayan Neogy

### About Me

I am an avid cat-lover. I have 9 different cats: Aberforth, Belinda, Carmen, Darsh, Evelyn, Francis II, Gottfried, Hamilton, and Irma.

### My Status

Today was a great day! I made a home-made sushi banquet for me and my family of cats ^\_^

### My Favorite Type of Cat

Russian Blue

# Exercise 1: Kitten Started

Change to "Favorite Types of Cats" and instead of the `<h3>` below, create an unordered list of your favorite cats!



# Exercise 1: Kitten Started

Change to "Favorite Types of Cats" and instead of the `<h3>` below, create an unordered list of your favorite cats!

```
<p>Today was a great day! I made  
<h4>My Favorite Type of Cat</h4>  
<ul>  
  <li>Russian Blue</li>  
  <li>Siamese</li>  
  <li>American Bobtail</li>  
</ul>  
</div>  
</body>  
</html>
```

## My Favorite Type of Cat

- Russian Blue
- Siamese
- American Bobtail

# CSS Time!!

Open styles1.css.

Guess what it will do...

Add the following the link tag:

```
6 <body>
7   <link rel="stylesheet" href="css/style1.css">|
8   <h1>Catbook</h1>
9   <div id="profile-container">
```

# CSS Time!!

## Catbook



## Rupayan Neogy

### About Me

I am an avid cat-lover. I have 9 different cats: Aberforth, Belinda, Carmen, Darsh, Evelyn, Francis II, Gottfried, Hamilton, and Irma.

### My Status

Today was a great day! I made a home-made sushi banquet for me and my family of cats ^\_^

### My Favorite Type of Cat

- Russian Blue
- Siamese
- American Bobtail

# CSS Time!!

Try the following:

Make all `<h1>` elements blue.

Make everything in the div with the ID "profile-container" have centered text.

# CSS Time!!

```
9  h1 {  
10     color: blue;  
11 }  
12  
13 #profile-container {  
14     text-align: center;  
15 }
```



Rupayan Neogy

#### About Me

I am an avid cat-lover. I have 9 different cats: Aberforth, Belinda, Carmen, Darsh, Evelyn, Francis II, Gottfried, Hamilton, and Irma.

#### My Status

Today was a great day! I made a home-made sushi banquet for me and my family of cats ^\_^

#### My Favorite Type of Cat

Russian Blue  
Siamese  
American Bobtail

# Exercise 2: Feline Good

Open up profile2.html and style2.css

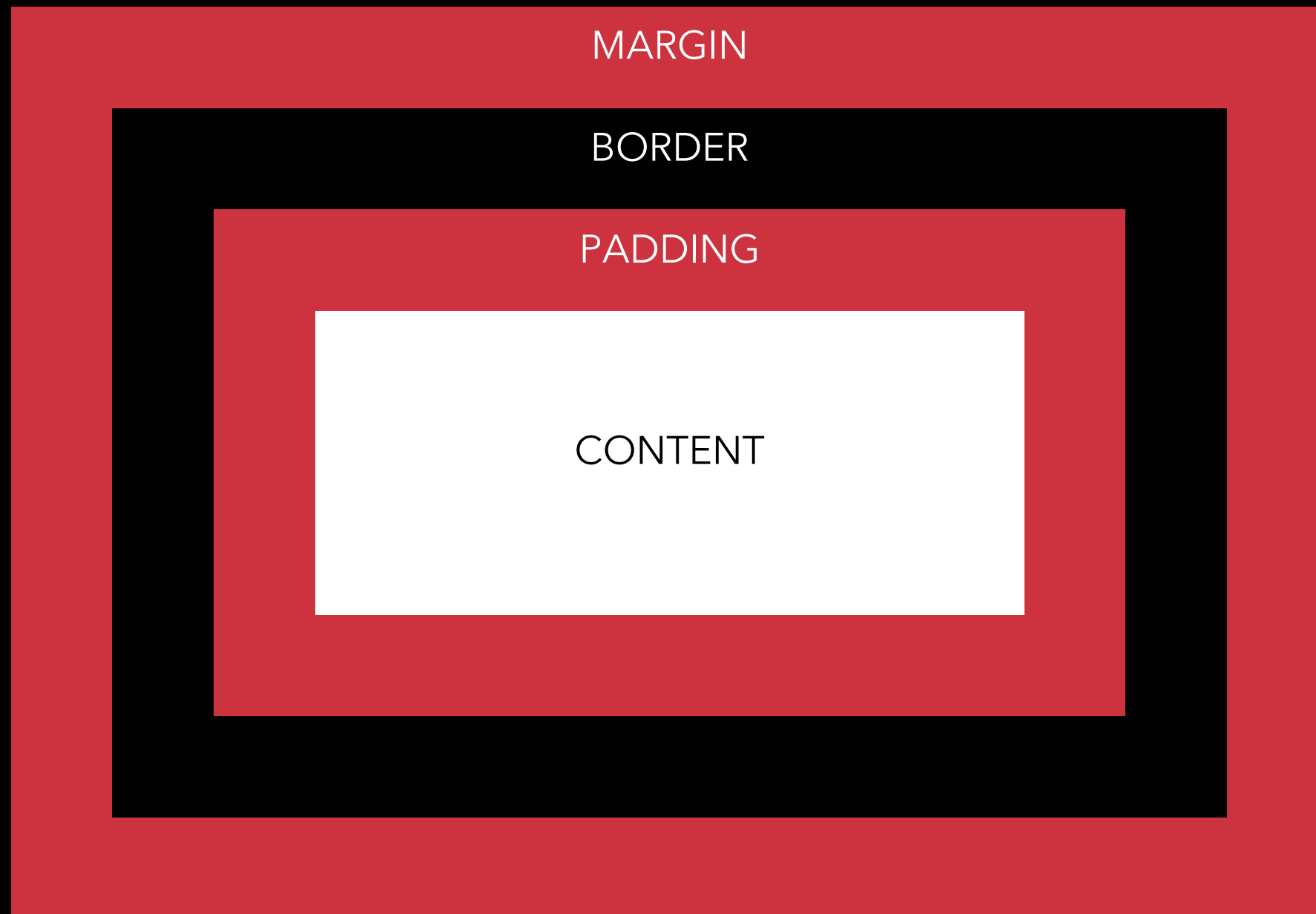
Take a look at profile2 in a browser.

# Exercise 2: Feline Good

Let's walk through the CSS changes.

(switch to sublime now)

# CSS Box Model





# Exercise 2: Feline Good

Make a class called "text-center" in style2.css

The class should make any element that has the class have centered text.

Add the class to the div with id "profile-container"  
(this should center everything in the div)

# Exercise 3: A little Further

Let's talk about border-radius!

```
36 .card {  
37     border-style: solid;  
38     border-width: 1px;  
39     padding: 10px;  
40     /* ADDED IN STEP 3 */  
41     border-radius: 5px;  
42 }  
43
```

My Status

Today was a great day! I made a home-made  
sushi banquet for me and my family of cats ^\_^

# Exercise 3: A little Further

Make your profile picture round!

You can either add an ID to the `<img>` and apply CSS to the ID, or you can create a class representing rounded edges, and add the class to the `<img>`

# Exercise 3: A little Further

Make your profile picture round!

```

```

```
<!DOCTYPE html>
<html>
  <head>
    <title>Profile Page</title>
  </head>
  <body>
    <link rel="stylesheet" href="css/style3.css">
    <h1>Catbook</h1>
    <div class="text-center" id="profile-container">
      
      <div id="name-container">
        <h1 id="name">Rupayan Neogy</h1>
      </div>
      <h4>About Me</h4>
      <div id="profile-description">I am an avid cat-lover. I have 9 different cats: Aberforth, Belinda, Carmen, Darsh, Evelyn, Francis II, Gottfried, Hamilton, and Irma.</div>
      <hr>
      <h4>My Status</h4>
    </div>
  </body>
</html>
```

Catbook



Rupayan Neogy

About Me

# Exercise 4: Stay Pawsitive

What about a perfect circular image?

See `profile4.html` and `style4.css`

# Exercise 4: Stay Pawsitive

The internet is your friend!

# Exercise 4: Stay Pawsitive

The internet is your friend!

Use the internet to add something cool to your app  
(make sure to use only HTML and CSS, no JS)

CSS-Tricks.com, stack-overflow, etc.

(if you can't think of something, try `element: hover` or `css animations`)

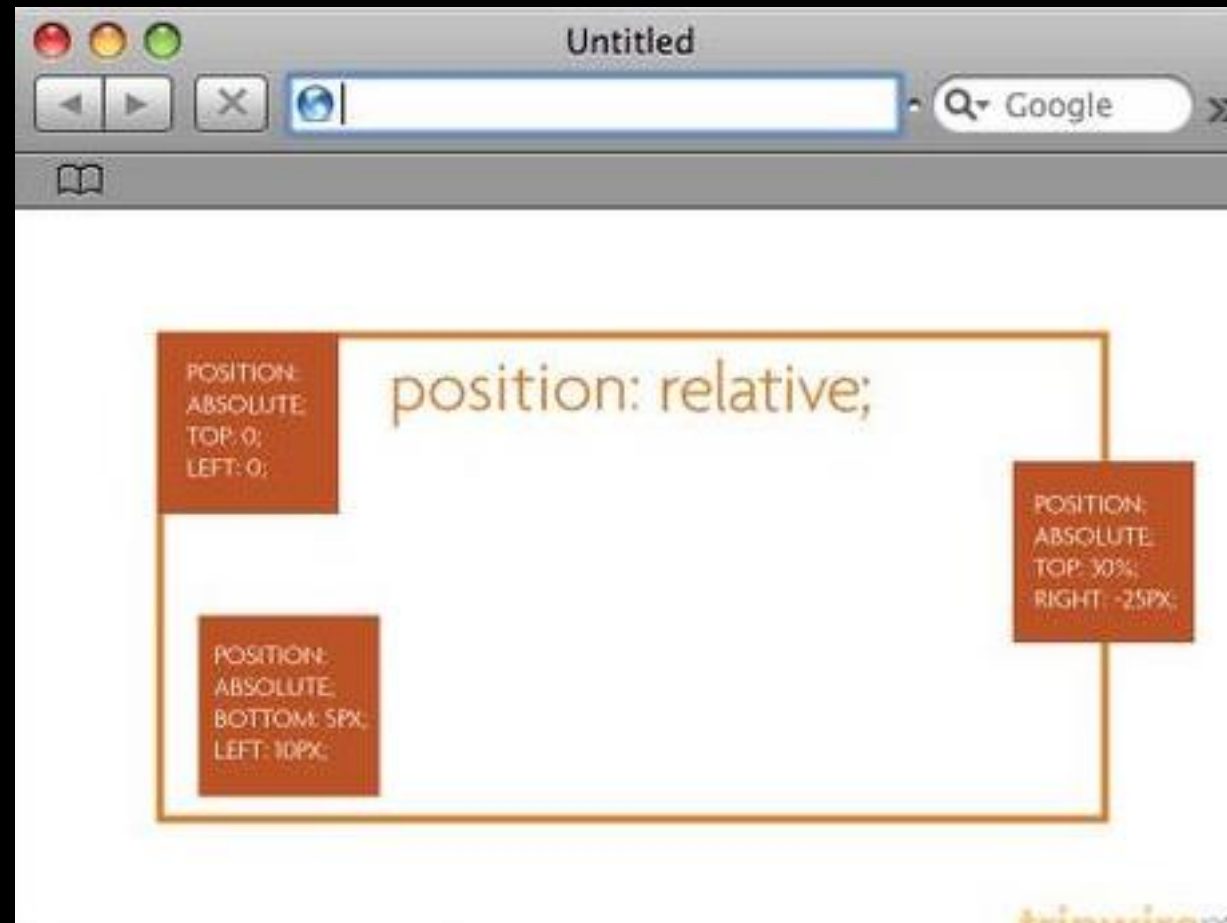
# CSS Meowster!

Congrats! You now know a tiny bit about  
the vast sea that is CSS!



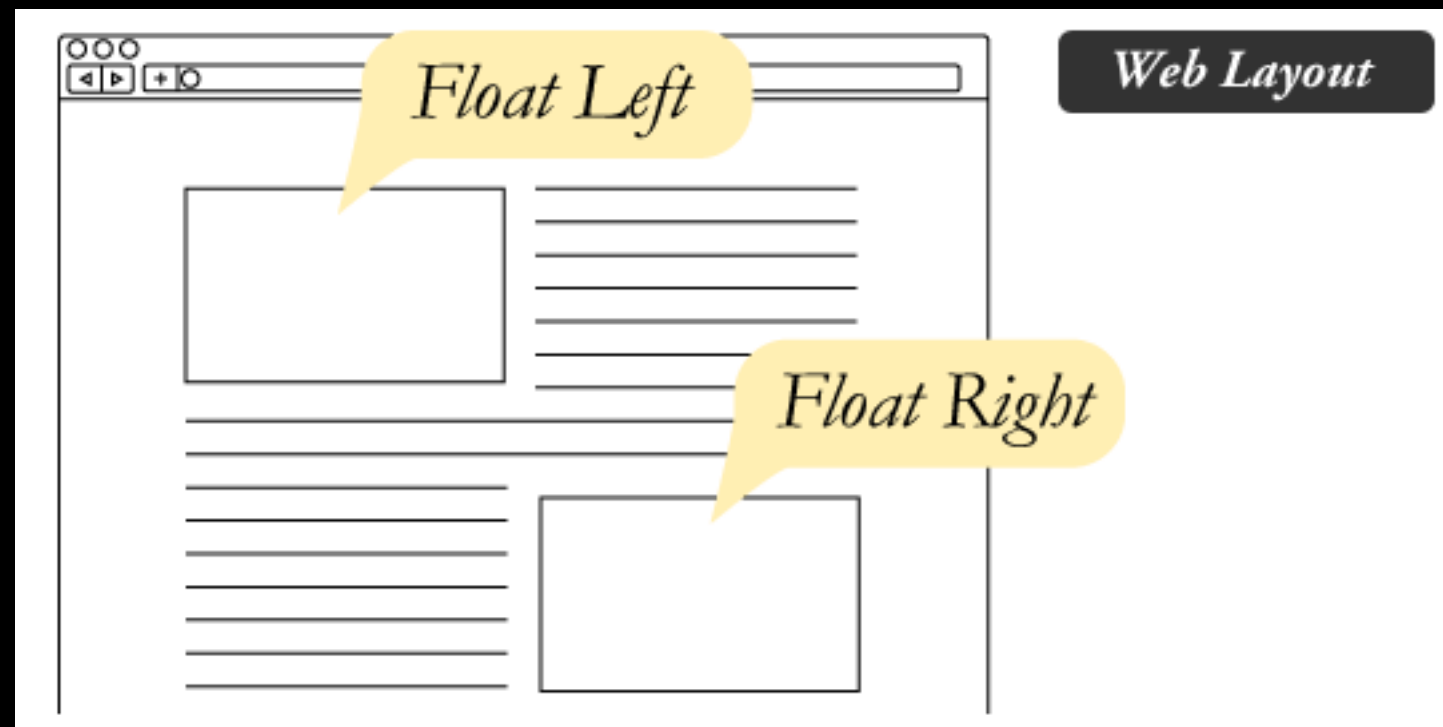
# Advanced Topics

Position, float, z-index



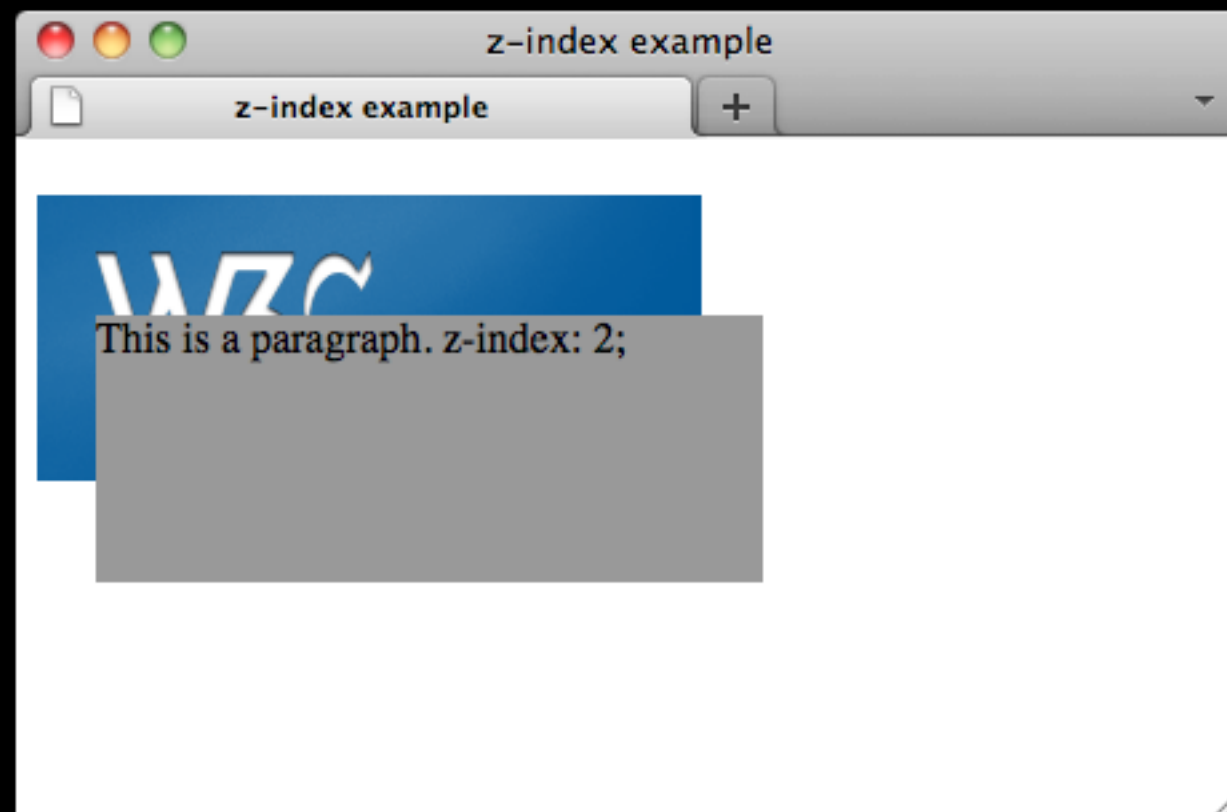
# Advanced Topics

Position, float, z-index



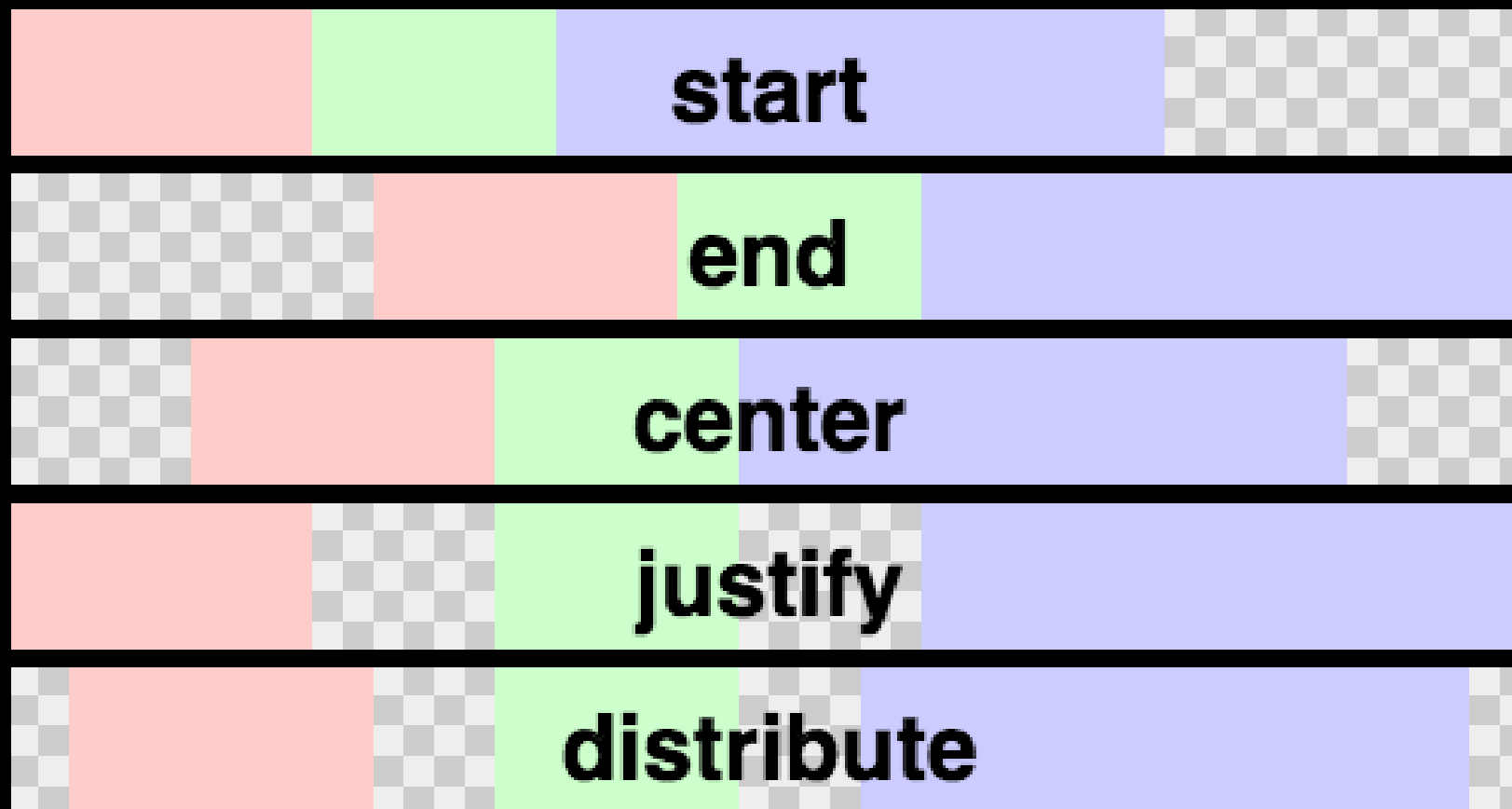
# Advanced Topics

Position, float, z-index



# Advanced Topics

## Flexbox



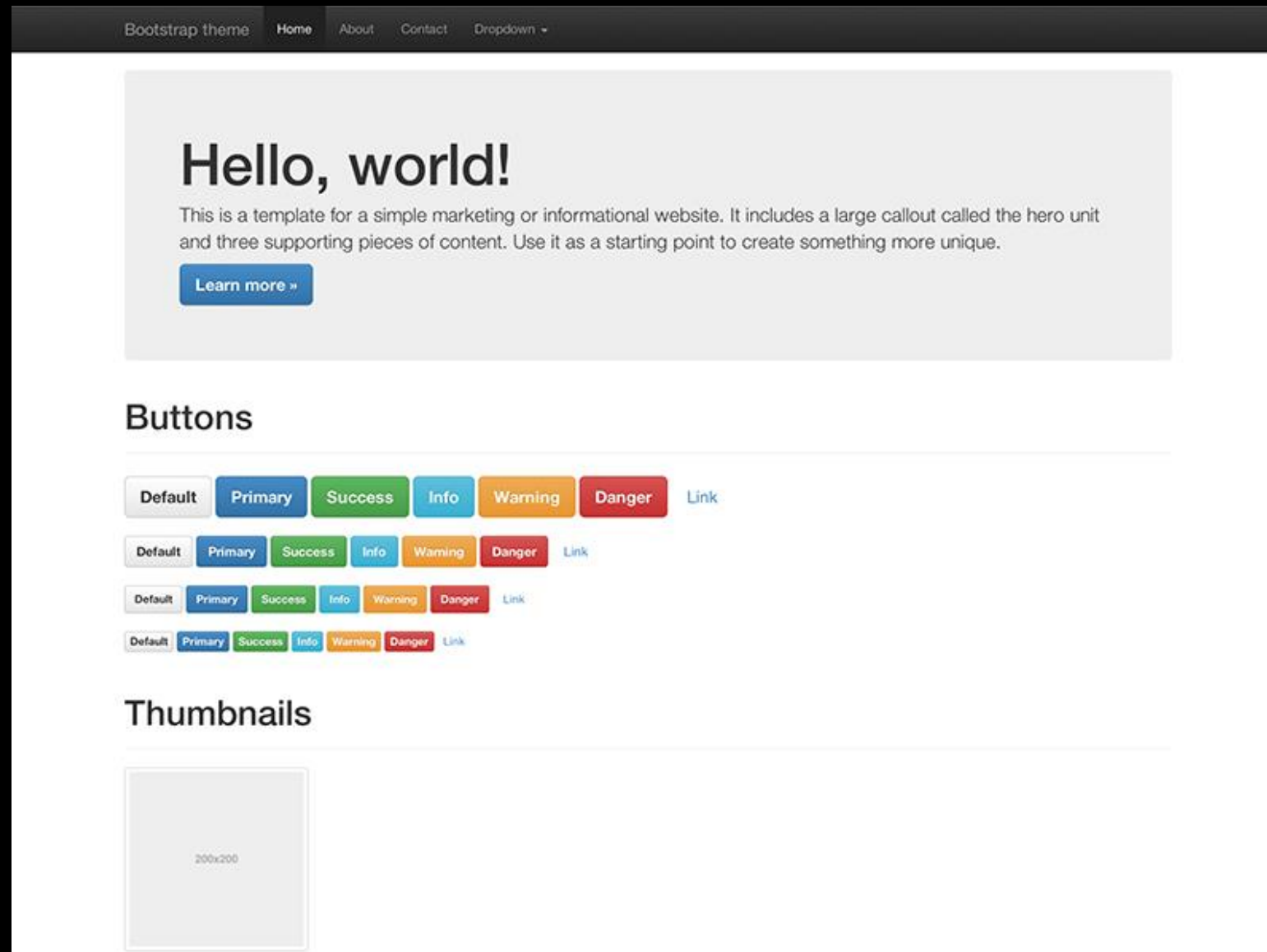
# Advanced Topics

## Media Queries

```
@media (min-width: 900px) {  
  p {  
    color: red;  
  }  
}
```

# Advanced Topics

CSS frameworks/libraries (Bootstrap, Foundation, Semantic UI)





# Bootstrap

A Quick Introduction to CSS Frameworks

Premade CSS (and other fun components)!

# A lack of professionalism

Catbook



Rupayan Neogy

About Me

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My Status

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My Favorite Type of Cat

Russian Blue



# A level of professionalism

Catbook [Home](#) [Profile](#)



Rupayan Neogy

## About Me

I am an avid cat-lover. I have 9 different cats: Aberforth, Belinda, Carmen, Darsh, Evelyn, Francis II, Gottfried, Hamilton, and Irma.

## My Latest Post

Today was a great day! I made a home-made sushi banquet for me and my family of cats ^\_^

## My Favorite Type of Cat

Russian Blue

There is always some  
tool that makes your life  
easier.

# Issues with CSS

- Simple at its core, incredible amount of depth
- Easily accumulates to extremely large files.
- Hard to make mobile friendly/responsive
- Very easy to *not* do well.

# What is Bootstrap?

Remember “.text-center”?

```
.text-center {  
    text-align: center;  
}
```

# What is Bootstrap?

- A collection of CSS Classes that add prebuilt styles to your webpage.
- Includes color theming, structural tools, and out-of-the-box components.
- Completely responsive (mobile friendly)
- (Also has JS-based components)

[getbootstrap.com/docs](https://getbootstrap.com/docs)

the documentation is your friend

# Bootstrap Time!!

Open BS/profileBS.html

Be scared by how many classes there are in the HTML now.

Open BS/styleBS.css

Be amazed by how little CSS there is

# Bootstrap Time!!

The most important line:

```
<body>  
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/  
bootstrap/4.0.0-beta.3/css/bootstrap.min.css" integrity="  
sha384-Zug+QiDoJOrZ5t4lssLdxGhVrurbmBWopoEl+M6BdEfwnCJZtKxi1KgxUyJq13dy"  
crossorigin="anonymous">  
  <link rel="stylesheet" href="styleBS.css">
```



# How to use Bootstrap

1. Open Documentation
2. Look for something that you like
3. Copy the code tutorial, modify for your own purposes
4. Smile at how easy that was

# How to use Bootstrap

Just dive in!

There is always some  
tool that makes your life  
easier.