Introduction to HTML/CSS

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hackerschool
by NUS Hackers

About this workshop

No prior background needed

Start from the very basics

Focus on static web pages

Walk away with your own simple website!

There is help!

For those not from NUS

Things needed

Google Chrome

(http://chrome.google.com/)

A text editor.

Ideally **Visual Studio Code**

(https://code.visualstudio.com/)

Let’s get started!

HyperText Markup Language

est. 1990

WIKIPEDIA
The Free Encyclopedia

Main page
Contents
Featured content
Current events
Random article
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Interaction

Help
About Wikipedia
Community portal
Recent changes
Contact page

Tools

What links here
Related changes
Upload file

Thanos

From Wikipedia, the free encyclopedia

This article is about the Marvel Comics villain. For people with the given name or surname, see Thanos (name). For the dinosaur, see Thanos simonattoi.

Thanos (UK: /ˈθænɒs/, US: /-oʊs/) is a fictional supervillain appearing in American comic books published by Marvel Comics. The character, created by writer/artist Jim Starlin, first appeared in *The Invincible Iron Man* #55 (cover dated February 1973). Thanos is one of the most powerful villains in the Marvel Universe and has clashed with many heroes including the Avengers, the Guardians of the Galaxy, the Fantastic Four, and the X-Men.

Thanos

Contents [hide]

1 Origin
2 Publication history

<!doctype html>
<html class="client-js gr__en_wikipedia_org ve-not-available" lang="en" dir="ltr">
▶<head>…</head>
▼<body class="mediawiki ltr sitedir-ltr mw-hide-empty-elt ns-0 ns-subject page-Thanos rootpage-Thanos skin-vector action-view" data-gr-c-s-loaded="true" style>

▼
<a id="top"></a>
▶ …
▶ …
▶<h1 id="firstHeading" class="firstHeading" lang="en">…</h1>
▼
From Wikipedia, the free encyclopedia

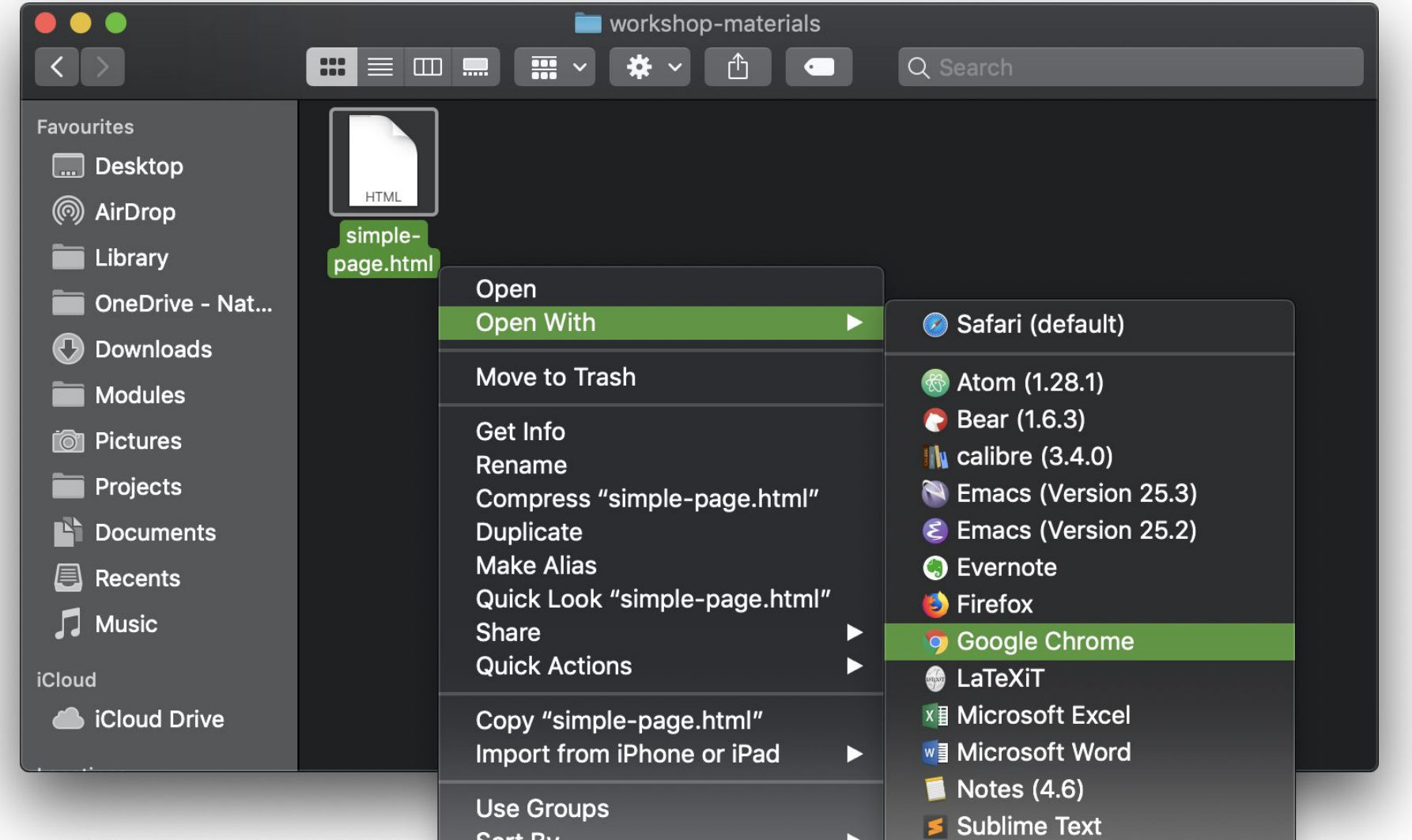
<a class="mw-jump-link" href="#mw-head">Jump to navigation</a>
<a class="mw-jump-link" href="#p-search">Jump to search</a>
▼
▼
▶ …

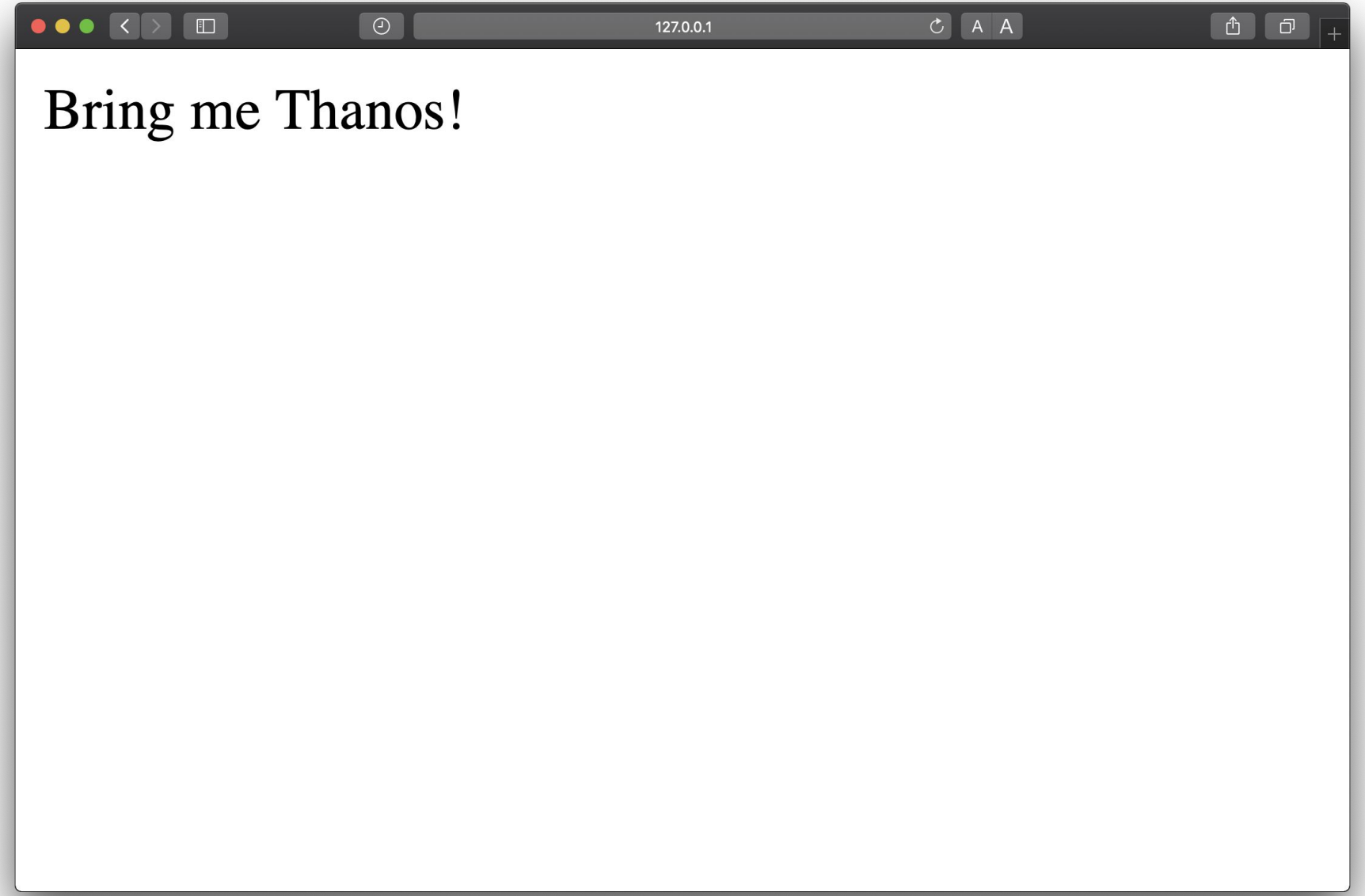
▼<table class="infobox" style="width:22em;width: 24em; background: #f2f9ff;">
▶<tbody>…</tbody>
</table>
▶ …
▶ …
▼<h2>
Origin
</h2>
▶ …
▶<style data-mw-deduplicate="TemplateStyles:r856303468">…</style>
▶<blockquote class="templatequote">…</blockquote>
▶ …
<link rel="mw-deduplicated-inline-style" href="mw-data:TemplateStyles:r856303468">
▶<blockquote class="templatequote">…</blockquote>
▼<h2>
Publication history

A basic HTML file

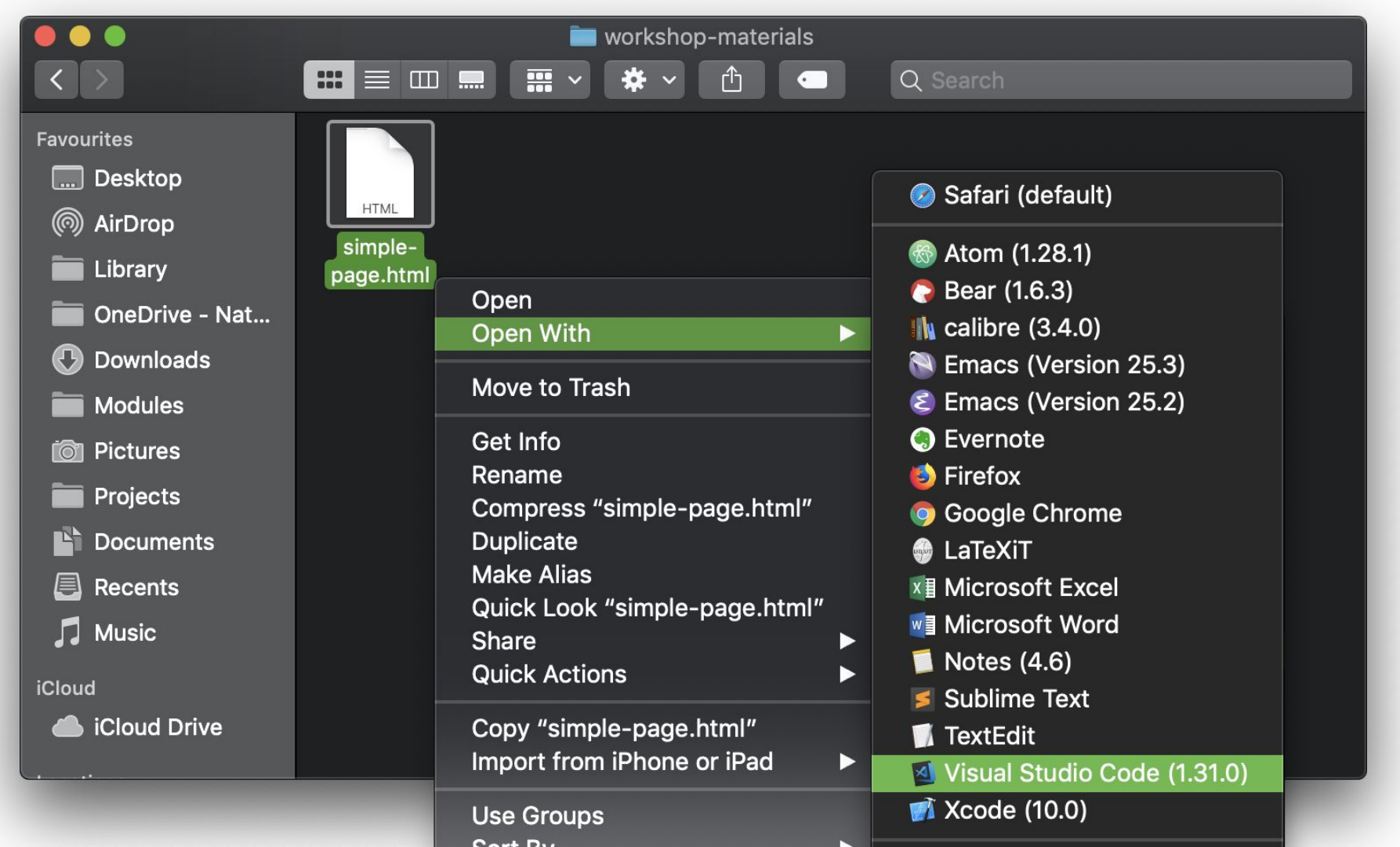
A html file is no different from a text file. It just has a **.html** extension instead of a **.pdf** or a **.txt**

Double click **simple-page.html**
OR




127.0.0.1
A A
Bring me Thanos!

Open **simple-page.html** with Visual Studio Code



A Basic HTML Document

```
<html>
  <head></head>
      <body>
          Bring me Thanos!
      </body>
</html>
```

HTML Element

```
<html>
  <head></head>
  <body>Bring me Thanos!</body>
</html>
```

HTML Element

```
<html>
  <head></head>
  <body>Bring me Thanos!</body>
</html>
```

HTML Element

```
<html>
  <head></head>
  <body>Bring me Thanos!</body>
</html>
```

HTML Tag

```
<html>
  <head></head>
  <body>Bring me Thanos!</body>
</html>
```

Opening Tag & Closing Tag

```
<html>
  <head></head>
  <body>Bring me Thanos!</body>
</html>
```

Text Content

```
<html>
  <head></head>
  <body>Bring me Thanos!</body>
</html>
```

<head></head>

Information (meta-information) about the page

Doesn't get shown

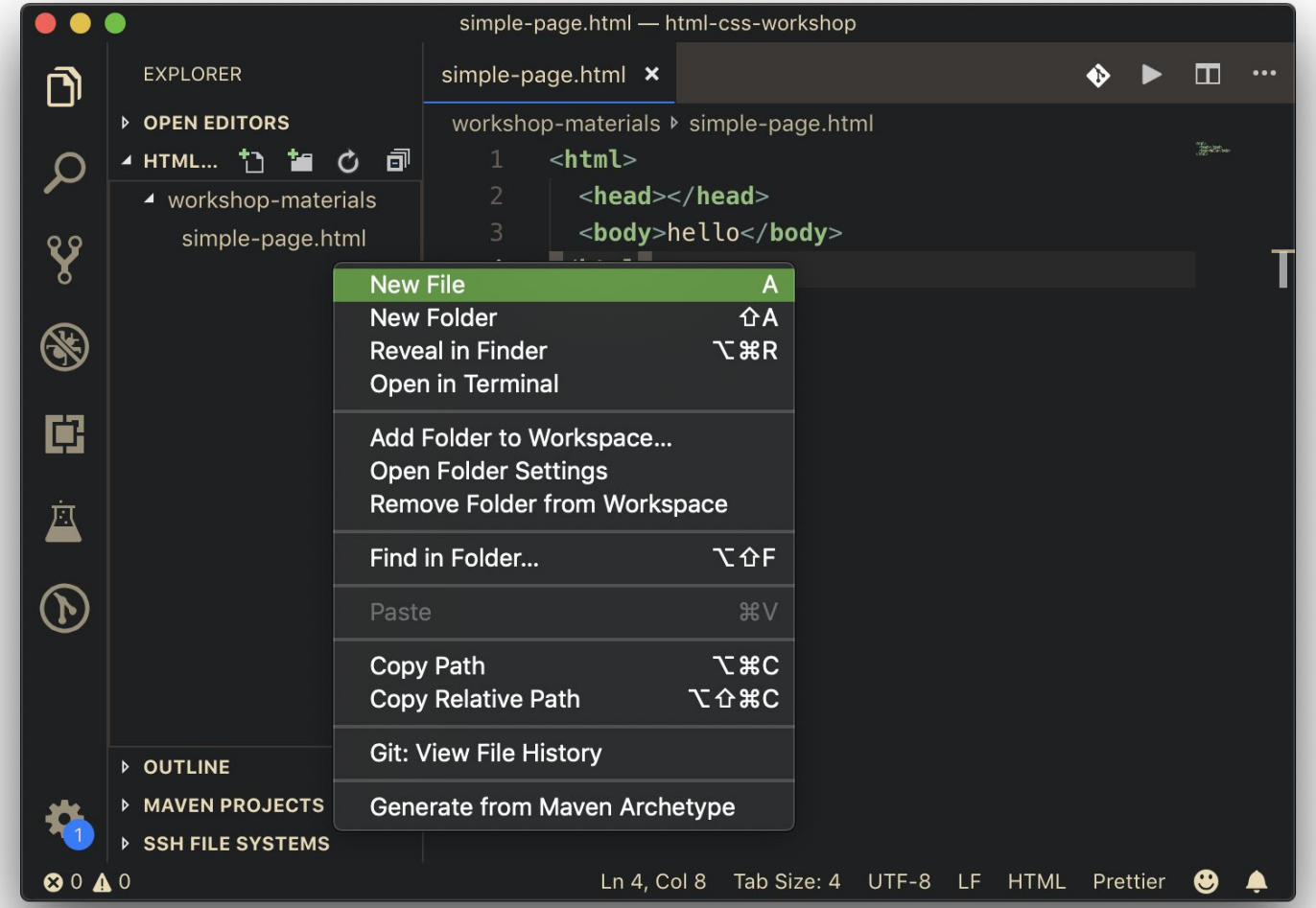
E.g. the page's title

<body></body>

Actual contents of the page to be shown to the user

Let’s start making our own website!

Make a new file called **my-page.html**



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

```
<html>
    <head>
        <title> </title>
    </head>
    <body>
    </body>
</html>
```

```
<html>
    <head>
        <title>
            My First Page!
        </title>
    </head>
    <body>
    </body>
</html>
```

SAVE AND RELOAD

1. Save changes to the file.
2. Reload the page on Chrome

```
<html>
    <head>
        <title>
            My First Page!
        </title>
    </head>
    <body>
        Welcome to my website!
    </body>
</html>
```

SAVE AND RELOAD

1. Save changes to the file.
2. Reload the page on Chrome

<h1>A heading element</h1>

```
<h1>This is heading 1</h1>
<h2>This is heading 2</h2>
<h3>This is heading 3</h3>
<h4>This is heading 4</h4>
<h5>This is heading 5</h5>
<h6>This is heading 6</h6>
```

```
<h1>A heading element</h1>
```

This is heading 1

This is heading 2

This is heading 3

This is heading 4

This is heading 5

This is heading 6

A paragraph element

```
<p> Paragraph 1: Spiderman: Far from home. </p>

<p> Paragraph 2: "If you're nothing without the suit, then you shouldn't have it", said Tony. </p>

<p> Paragraph 3: "Activating advanced combat mode...", said Ned. </p>
```

Let’s use these for our website!

```
<body>
    <h1>Suyash Shekhar</h1>
    <p>Hello world!</p>
    <h2>About me</h2>
    <h2>Projects</h2>
    <h2>Experience</h2>
</body>
```

SAVE AND RELOAD

1. Save changes to the file.
2. Reload the page on Chrome

<a>An anchor element</a>

```
<a> National University of
Singapore </a>
```

National University of Singapore

<a>An anchor element</a>

```
<a href="http//www.nus.edu.sg">
National University of Singapore
</a>
```

National University of Singapore

Attribute

```
<a href="http//www.nus.edu.sg">
National University of Singapore
</a>
```

Value

```
<a href="http//www.nus.edu.sg">
National University of Singapore
</a>
```

<img>: The image tag

```
<img src=*put image link here*>

<img src="https://i.imgur.com/ElC5qq1
.jpg">
```

A division tag

  specifies a block or section inside which other content can be placed.

Break!

Cascading Style Sheets

est. 1994

Inline Styling

```
<p style="color:blue">Hello
world!</p>
```

Property

```
<p style="color:blue">Hello
world!</p>
```

Value

```
<p style="color:blue">hello
world!</p>
```

Value

```
<p style="color:blue">hello
world!</p>
```

```
<p style="color:blue">hello
world!</p>
```

```
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
```

```
<style>
</style>
```

Place in `<head></head>`! You do not want everyone to see your styling written on the page

```
<style>
  body {
    color: blue;
  }
  p {
    color: red;
  }
</style>
```

Rule

```
<style>
  body {
    color: blue;
  }
  p {
    color: red;
  }
</style>
```

Rule

```
<style>
  body {
    color: blue;
  }
  p {
    color: red;
  }
</style>
```

Selector

```
<style>
   body {
      color: blue;
   }
   p {
      color: red;
   }
</style>
```

Declaration Block

```
<style>
  body {
    color: blue;
  }
  p {
    color: red;
  }
</style>
```

Declaration

```
<style>
  body {
    color: blue;
  }
  p {
    color: red;
  }
</style>
```

Property

```
<style>
  body {
    color: blue;
  }
  p {
    color: red;
  }
</style>
```

Value

```
<style>
  body {
    color: blue;
  }
  p {
    color: red;
  }
</style>
```

```
<p style="color:blue">hello!</p>

<style>
p {
    color: blue;
}
</style>
```

```
<p style="color:blue">hello!</p>

<style>
p {
    color: blue;
}
</style>
```

CLASSES

```
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
<p style="color:blue">hello world!</p>
```

```
<p style="color:blue">hello!</p>

<style>
p {
    color: blue;
}
</style>
```

```
<p class="blue-para">hello!</p>

<style>
.blue-para {
    color: blue;
}
</style>
```

A basic CSS file

A css file is no different from a text file. It just has a **.css** extension instead of a **.pdf** or a **.txt**

A basic CSS file

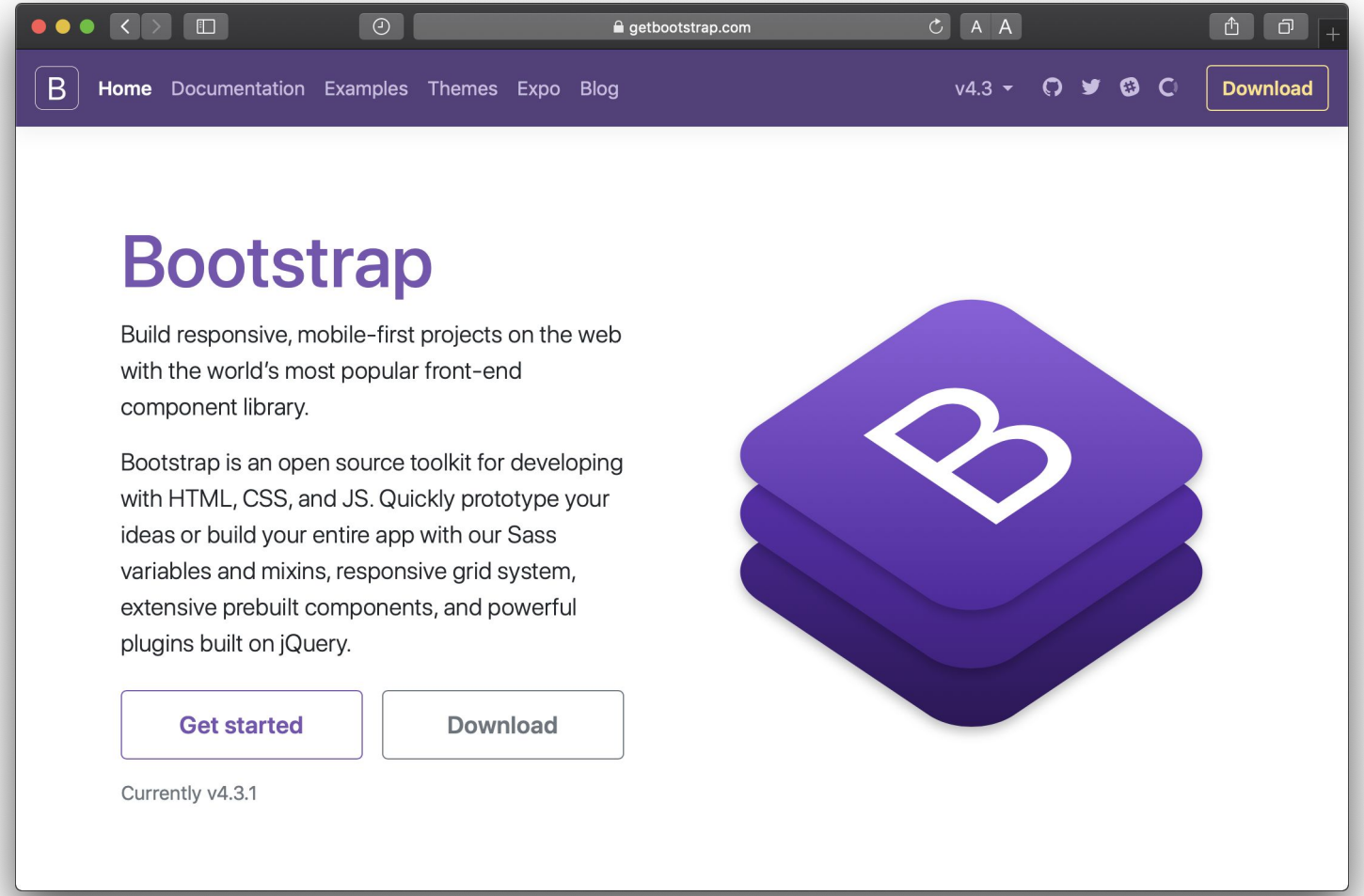
```
<head>

<link rel="stylesheet" type="text/css"

href="./my-css-file.css">

</head>
```

A basic CSS file

```
.blue-paragraph {
    color: blue;
}
```

Break!

Bootstrap


getbootstrap.com
B
Home
Documentation
Examples
Themes
Expo
Blog
v4.3
Download
Bootstrap
Build responsive, mobile-first projects on the web with the world's most popular front-end component library.
Bootstrap is an open source toolkit for developing with HTML, CSS, and JS. Quickly prototype your ideas or build your entire app with our Sass variables and mixins, responsive grid system, extensive prebuilt components, and powerful plugins built on jQuery.
Get started
Download
Currently v4.3.1

```
<head>
  <link rel="stylesheet"
href="https://stackpath.bootst
rapcdn.com/bootstrap/4.3.1/css
/bootstrap.min.css">
</head>
```

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Rachael Tay

What is your question?

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What are the best ways to learn self discipline?

Abdullah Shiryar, Had my share of experience in life.
Answered 21h ago

Here are 6 practical tips to start doing today: 1- Control you actions by controlling your thoughts. You can't control your actions unless you control the way you think. Don't get frustrated and tem...
(more)

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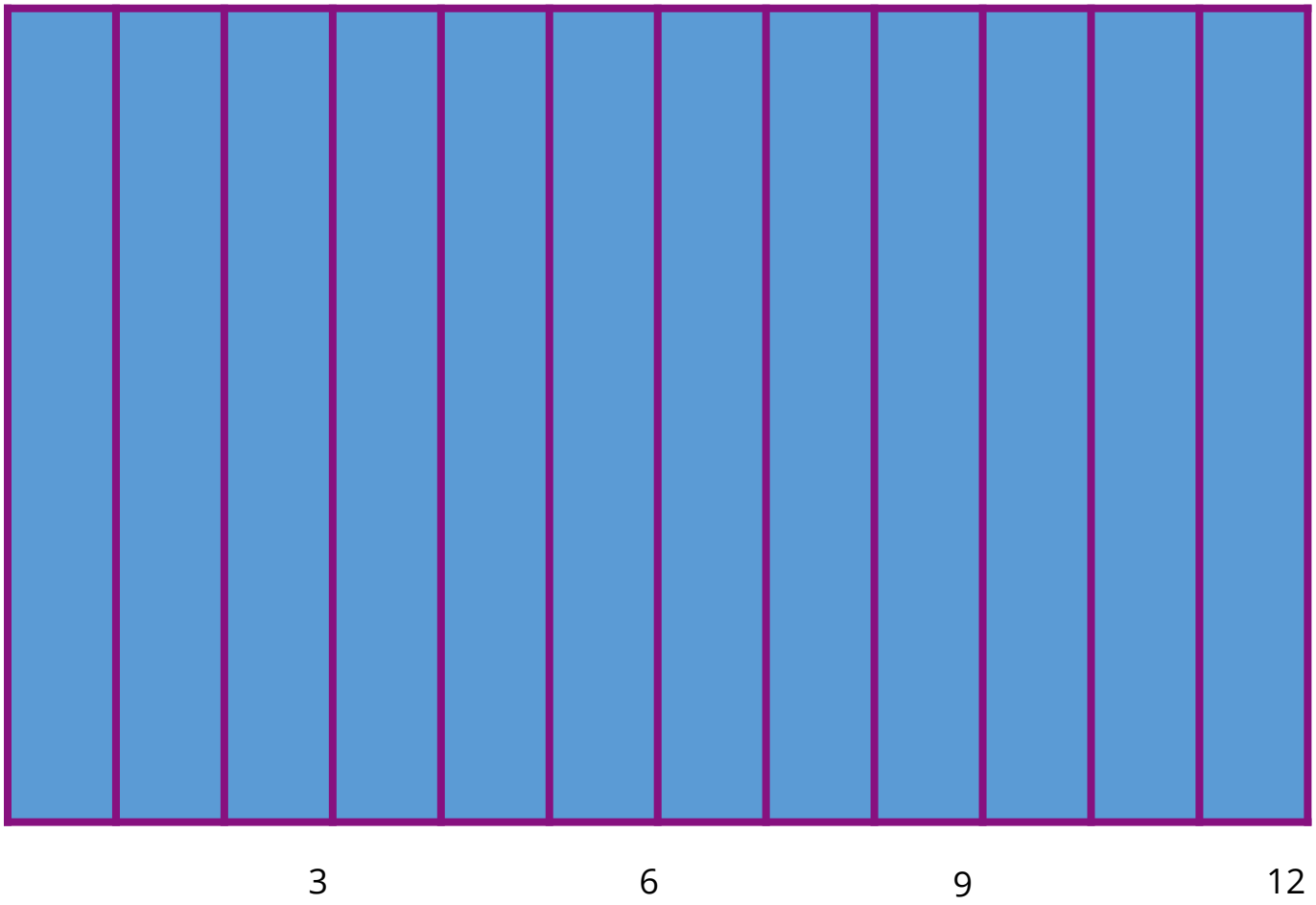
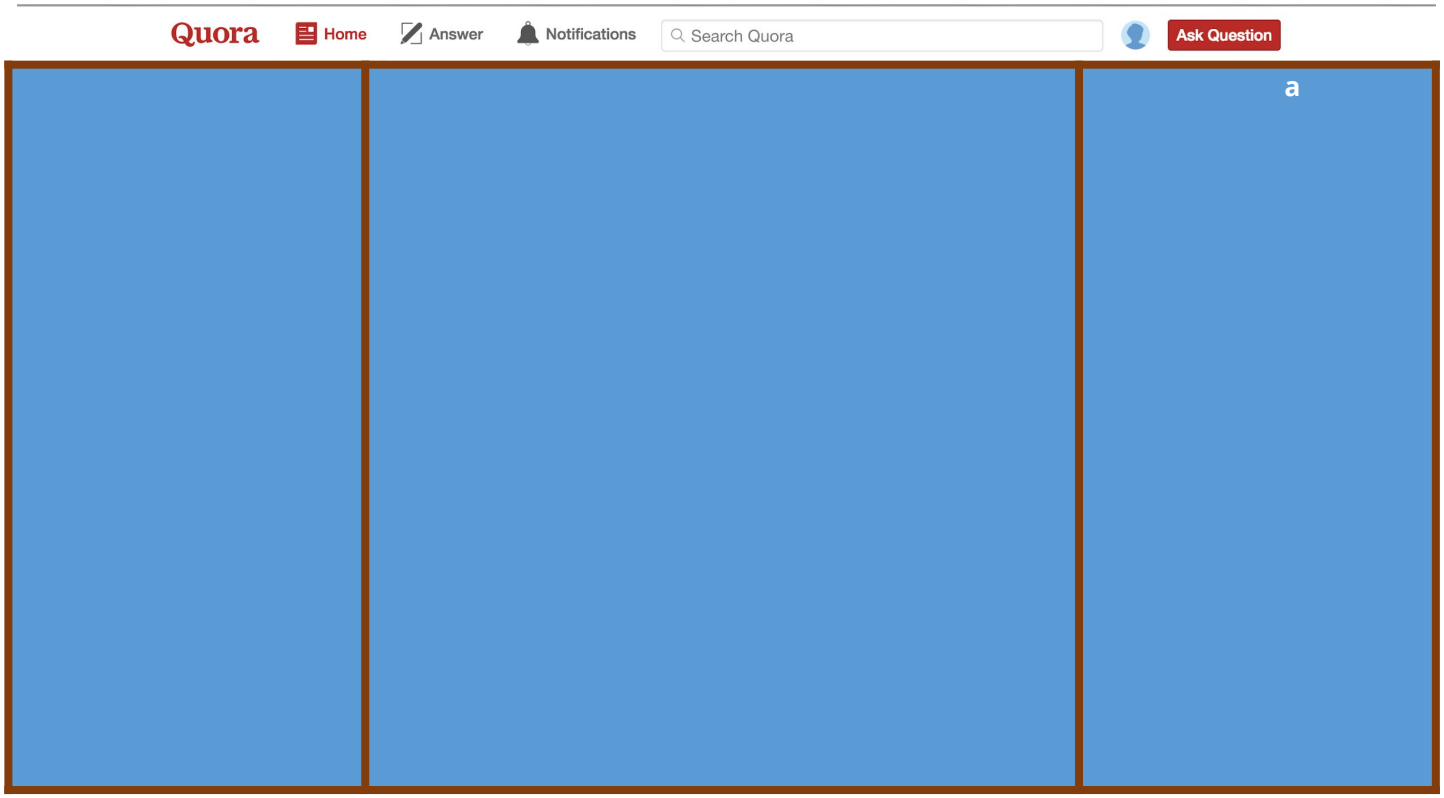

3
6
9
12

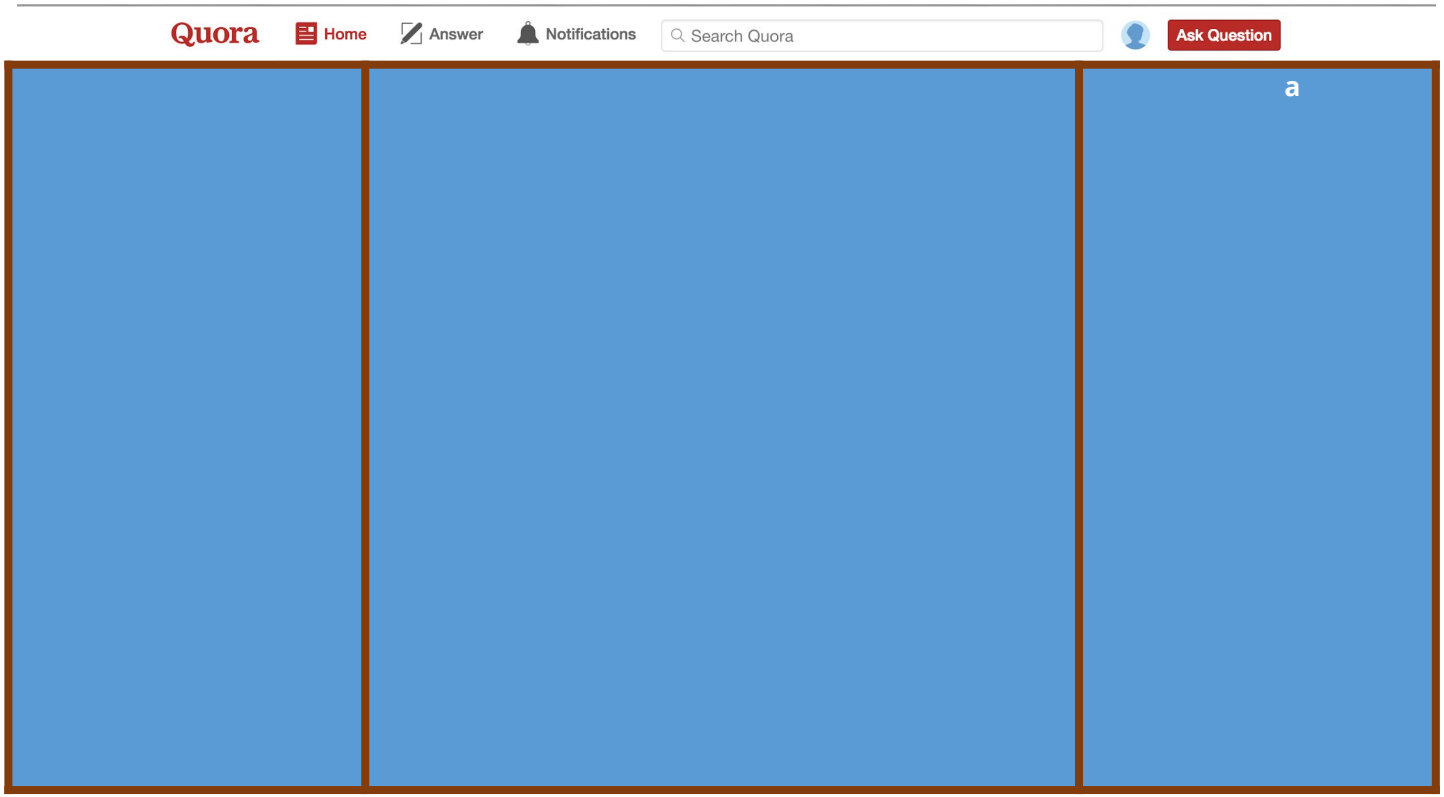


Side nav

Main content

Side nav

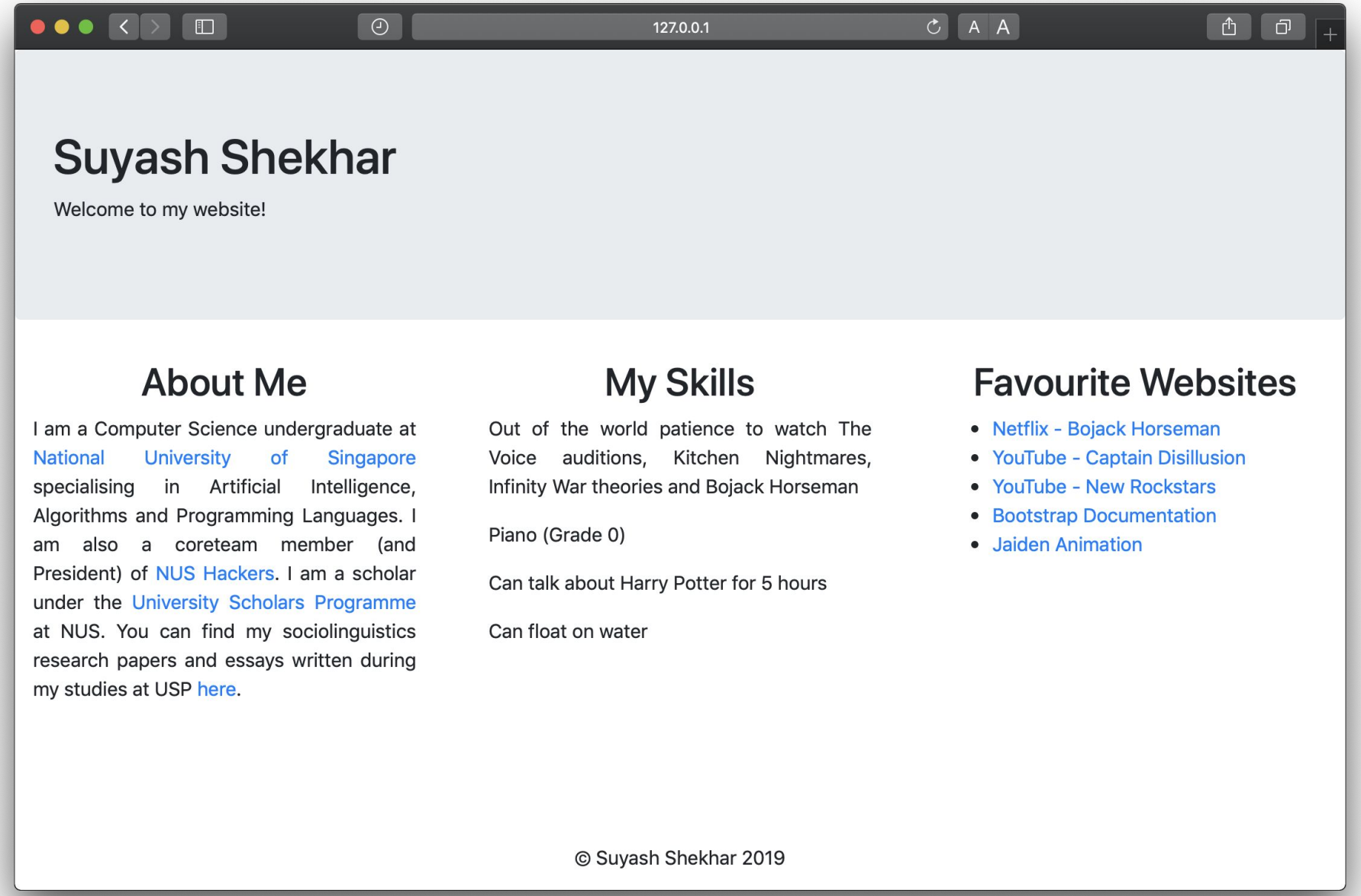
1	2	3	4	5	6	7	8	9	10	11	12
.col-md-6						.col-md-4				.col-md-2	
.col-md-9											.col-md-3



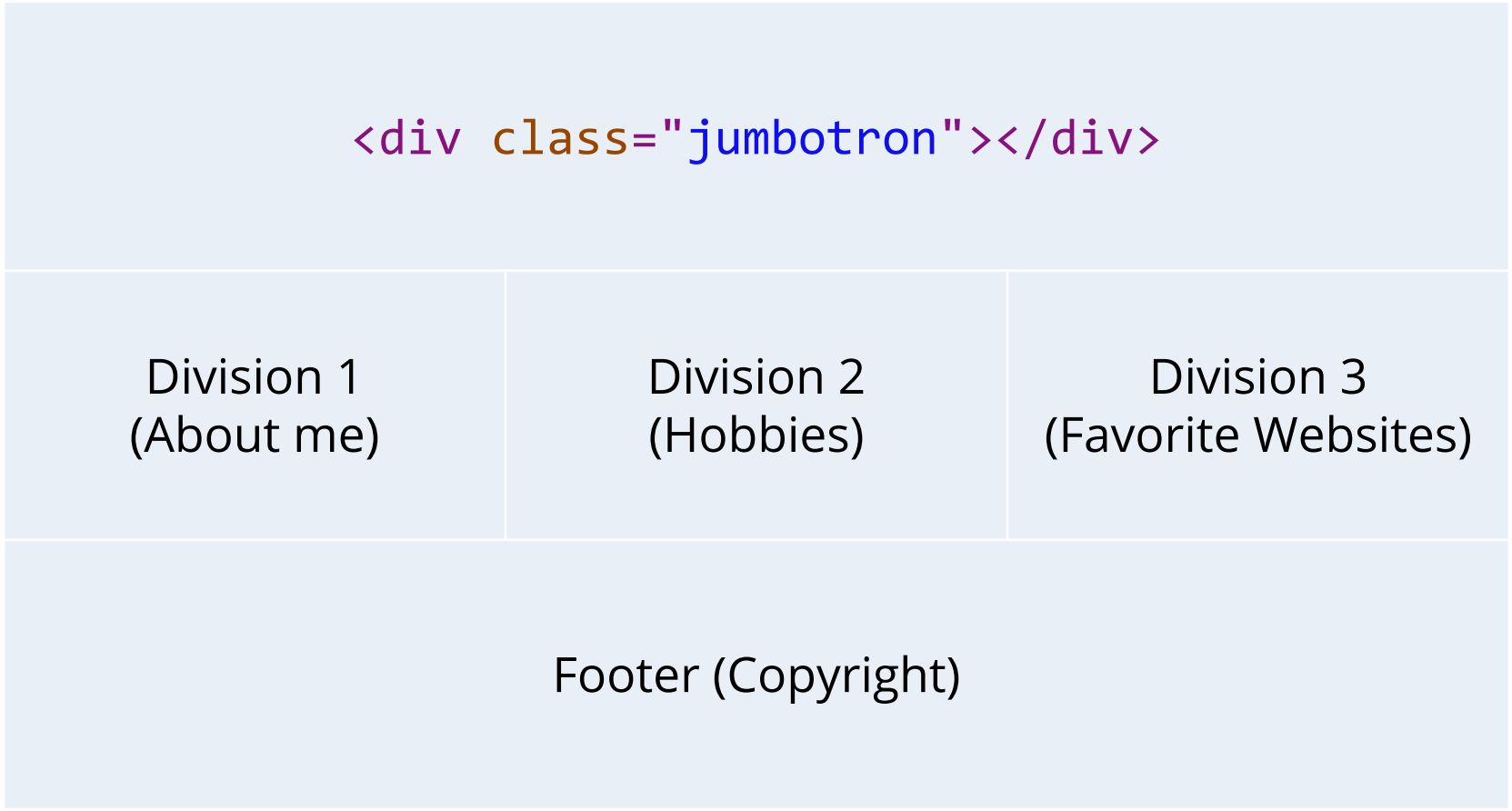
.col-sm-3

.col-sm-6

.col-sm-3


127.0.0.1
Suyash Shekhar
Welcome to my website!
About Me
I am a Computer Science undergraduate at National University of Singapore specialising in Artificial Intelligence, Algorithms and Programming Languages. I am also a coreteam member (and President) of NUS Hackers. I am a scholar under the University Scholars Programme at NUS. You can find my sociolinguistics research papers and essays written during my studies at USP here.
My Skills
Out of the world patience to watch The Voice auditions, Kitchen Nightmares, Infinity War theories and Bojack Horseman
Piano (Grade 0)
Can talk about Harry Potter for 5 hours
Can float on water
Favourite Websites
Netflix - Bojack Horseman
YouTube - Captain Disillusion
YouTube - New Rockstars
Bootstrap Documentation
Jaiden Animation
© Suyash Shekhar 2019

Banner (Jumbotron)		
Division 1 (About me)	Division 2 (Hobbies)	Division 3 (Favorite Websites)
Footer (Copyright)		



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<footer></footer>

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school.nushackers.org

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http://bit.ly/htmlcss2019