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# Introduction to HTML and CSS

Julius Putra Tanu Setiaji

1 September 2018

Introduction



HTML



CSS



Bootstrap Framework



Closing



# NUS Hackers



<http://nushackers.org>

**Hackerschool**  
**Friday Hacks**  
**Hack & Roll**  
**NUS Hackerspace**

## About Me

Hi! I'm Julius. My GitHub is  
<https://github.com/indocomsoft>

A Year 2 Computer Science Undergraduate who loves hacking and building systems.

I took CS1101S taught in JavaScript and have been doing web development intensively for the past 2 years (including the Source Academy back-end and NUSSU commIT Duty Website).

(Not so important) I also enjoy Aerospace Engineering, Music Theory and History. (my favourite games are KSP and EU4 hit me up if you play those too)

# About This Workshop

- Beginner level workshop
- No prior knowledge assumed
- Static web pages
- Basic HTML, CSS, Framework
- Walk away with your own website

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# Required Software

- **Google Chrome** (<https://chrome.google.com/>)
- **VS Code** (<https://code.visualstudio.com/>) or any decent text editor

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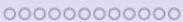
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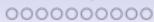
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Answer - Vietnam - Topic you might like

## If Vietnam was given a choice to join East Asia or Southeast Asia, which will they choose?



Do Duc Nam, knows Vietnamese

Answered 16h ago

We should be 'independent', while Vietnam have a little bit close on culture with China in East Asia, the East Asian/Korean, Japanese, Chinese, Taiwanese) are racist people who look down on the Vie... [\(more\)](#)



Answer - Military - Topic you might like

## What are some practical military tactics that everyone should know?



Tuan Minh Le, tactician, can improvise a decent strike plan in 10 seconds.

Updated 21h ago · Upvoted by Eric Johnson, 25 years working in and around USAF F-16s

1. Enough ammo is never enough ammo.
  2. When out of ammo, strip naked and run around the battle field. The enemy might assume you're crazy and spare you.
  3. A weapon is only as good as its cleaning kit, or t...
- [\(more\)](#)

## Questions for You

Question added - Mobile Applications - Topic you might like

## How can I get my WhatsApp code number?

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- Japanese Ethnicity and People
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**Answer Pass Follow**

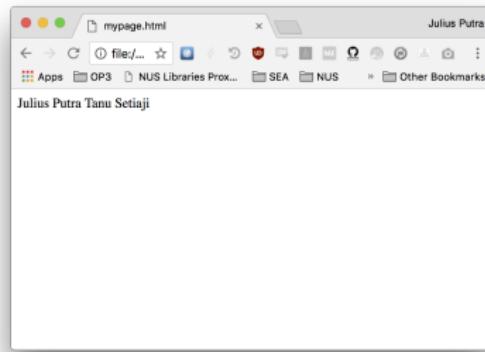
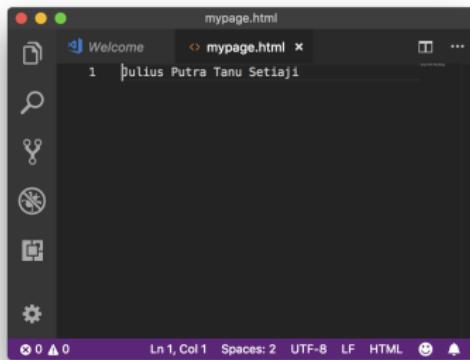
- Navigation bar
- Sidebar
- Main content
- Text
- Image
- Button

# HyperText Markup Language

- Standard markup language for creating web pages and web application.
- Markup language = a system for annotating a document.
- For HTML: annotations prescribing actions and presentation.
- First proposed by physicist Tim-Berners Lee at CERN in 1990.
- Currently at version 5 (HTML5)

# Let's Get the Party Started!

1. Create a directory called workspace on your Desktop
2. Open VS Code and create a new file
3. Enter your name
4. Save as mypage.html inside the directory you created
5. Open in Chrome by drag-and-drop or double-clicking.

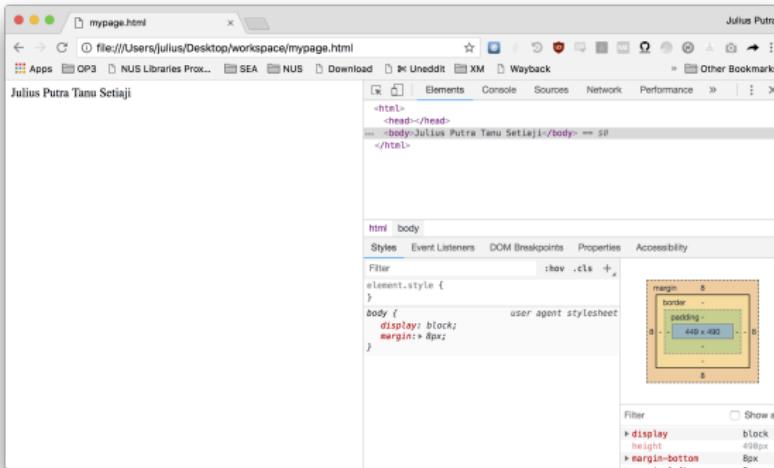


# Inspecting the Webpage

Tools > More Tools > Developer Tools or Right click > Inspect

## Keyboard Shortcut:

**Ctrl** + **↑** + **j** or **F12** (Windows), or **⌘** + **↖** + **i** (Mac)



# HTML Document

```
1 <html>
2   <head></head>
3   <body>hello</body>
4 </html>
```

A very lenient format!

# HTML Elements

- An element is a part of a webpage, which may contain a data item or a chunk of text or an image, or perhaps nothing<sup>1</sup>.
- HTML elements can contain other elements.

There are 3 HTML elements:

- ```
1 <html>
2   <head></head>
3   <body>hello</body>
4 </html>
```
1. <html></html> containing 2 elements
  2. <head></head> that is empty.
  3. <body></body> containing text.

---

<sup>1</sup>Taken from

<https://developer.mozilla.org/en-US/docs/Glossary/Element>

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# HTML Tags

- A HTML tag is used for creating an element.
- The name of an HTML tag is the name used in angle brackets, such as <html><sup>2</sup>
- Two types: opening & closing tags.
- Closing tag is formed by adding slash to the tag name, e.g. opening: <html>, closing: </html>

There are 6 tags. Each tag are a pair of opening and closing tags.

```
1   <html>
2   <head></head>
3   <body>hello</body>
4   </html>
```

- <html> and </html>
- <head> and </head>
- <body> and </body>

---

<sup>2</sup>Taken from

<https://developer.mozilla.org/en-US/docs/Glossary/Tag>

## The html tag

- Represents the top-level element of a HTML document.<sup>3</sup>
- All other elements are contained inside this element.

---

<sup>3</sup>Taken from <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/html>

//developer.mozilla.org/en-US/docs/Web/HTML/Element/html

# Let's Try It Out

```
1 <html>  
2 </html>
```

1. Save in VS Code ( or + or + )
2. Reload in Chrome ( or or + )

# The head tag

- Provides general information (metadata) about the document, including its title and links to its scripts and style sheets.<sup>4</sup>

---

<sup>4</sup>Taken from <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/head>

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# The body tag

- Represents the content of an HTML document <sup>5</sup>

---

<sup>5</sup>Taken from <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/body>

//developer.mozilla.org/en-US/docs/Web/HTML/Element/body

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# Let's Try It Out

```
1 <html>  
2   <head></head>  
3   <body></body>  
4 </html>
```

1. Save in VS Code (  or  +  or  + )
2. Reload in Chrome (  or  or  + )

# The title tag

- Defines the document's title<sup>6</sup>
  - Shown in a browser's title bar or a page's tab.
  - Must be put inside <head></head>

<sup>6</sup>Taken from <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/title>

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# Let's Try It Out

```
1 <html>
2   <head>
3     <title>My First Page!</title>
4   </head>
5   <body></body>
6 </html>
```

1. Save in VS Code (**File** ➞ **Save** or **Ctrl**+**s** or **⌘**+**s**)
2. Reload in Chrome (**View** ➞ **Reload** or **F5** or **⌘**+**r**)

# The p tag

- Represents a paragraph of text <sup>7</sup>
- Represented in visual media as blocks of text that are separated from adjacent blocks.

---

<sup>6</sup>Taken from <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/p>

//developer.mozilla.org/en-US/docs/Web/HTML/Element/p

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# Let's Try It Out

```
1 <html>
2   <head>
3     <title>My First Page!</title>
4   </head>
5   <body>
6     <p>Hello, world!</p>
7   </body>
8 </html>
```

1. Save in VS Code (`File` `> Save` or `Ctrl + S` or `⌘ + S`)
2. Reload in Chrome (`View` `> Reload` or `F5` or `⌘ + R`)

# The h[1-6] tag

- Represents section headings.<sup>8</sup>
- There are 6 levels of hierarchy with 1 being the largest and so on:
  - <h1></h1>
  - <h2></h2>
  - <h3></h3>
  - <h4></h4>
  - <h5></h5>
  - <h6></h6>

---

<sup>6</sup>Taken from [https://developer.mozilla.org/en-US/docs/Web/HTML/Element/Heading\\_Elements](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/Heading_Elements)

# Let's Try It Out

```
5   <body>  
6     <h1>Julius</h1>  
7     <p>Hello, world!</p>  
8     <h2>About me</h2>  
9     <h2>Hobbies</h2>  
10    <h2>Websites</h2>  
11  </body>
```

1. Save in VS Code ( or + or + )
2. Reload in Chrome ( or or + )

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# Attribute

- An attribute extends a tag, changing its behavior or providing metadata<sup>9</sup>
- Less cheem: It provides additional information about the tag.
- It is defined inside the tag, with format key=value
- E.g. <p align="right">Hello!</p>

---

<sup>7</sup>Taken from <https://developer.mozilla.org/en-US/docs/Glossary/Attribute>

//developer.mozilla.org/en-US/docs/Glossary/Attribute

# Let's Try It Out

```
5 <body>  
6   <h1>Julius</h1>  
7   <p align="right">Hello, world!</p>  
8   <h2>About me</h2>  
9   <h2>Hobbies</h2>  
10  <h2>Websites</h2>  
11 </body>
```

1. Save in VS Code ( or + or + )
2. Reload in Chrome ( or or + )

# The a tag

- Creates a hyperlink to other web pages, files, locations<sup>10</sup>
- Important attribute(s):
  - href: Contains a URL or a URL fragment that the hyperlink points to.
  - target: Specifies where to display the linked URL. For example, \_blank to load in new tab/window.

---

<sup>6</sup>Taken from <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/a>

//developer.mozilla.org/en-US/docs/Web/HTML/Element/a

# Let's Try It Out

```
5   <body>  
6     <a href="http://google.com/">Google</a>  
7     <a href="http://google.com/"  
     ↵       target="_blank">Google in new tab</a>  
8   </body>
```

1. Save in VS Code (**File** ➤ **Save** or **Ctrl** + **s** or **⌘** + **s**)
2. Reload in Chrome (**View** ➤ **Reload** or **F5** or **⌘** + **r**)

# The img tag

- Embeds an image into the document.<sup>11</sup>
- A self-closing tag: 
- Important attribute(s):
  - src: The image URL to embed.
  - alt: An alternative text description of the image

---

<sup>11</sup>Taken from <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/img>

# Let's Try It Out

```
5 <body>  
6     
7 </body>
```

1. Save in VS Code (  or  +  or  + )
2. Reload in Chrome (  or  or  + )

# HTML Summary

We learnt about:

- <html></html>
- <head></head>
- <body></body>
- <h1></h1>
- <h2></h2>
- <p></p>
- <a></a>
- <img />
- Element
- Tag
- Attribute

You can read up more on Mozilla Developer Network (MDN):  
<https://developer.mozilla.org/en-US/docs/Web/HTML/Element>

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# Break



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# Cascading Style Sheets

- Used for describing the presentation of a document written in a markup language like HTML.
- Designed to enable the separation of presentation and content.
- First released in 1996.
- Currently at version 3.

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## On the developer console

Filter

:hov .cls +

```
element.style {  
}  
  
body, html {  
    font-size: small;  
}  
  
body {  
    background: □#fff;  
    color: ■#222;  
}  
  
body, td, a, p, .h {  
    font-family: arial, sans-serif;  
}  
  
html, body {  
    height: 100%;  
    margin: ▷ 0;
```

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# Property-Value

```
1 color: white;  
2 background: black;
```

Format:

property: value;

- Colon to separate between property and value.
- Semicolon to separate between pairs of property-value.

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# Inline Styling

6

```
<p style="background: blue;">Hello!</p>
```

1. Save in VS Code (**File** ➤ **Save** or **Ctrl**+**s** or **⌘**+**s**)
2. Reload in Chrome (**View** ➤ **Reload** or **F5** or **⌘**+**r**)

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# The style tag

- Contains the CSS (styling) for a document<sup>12</sup>
- Must be put inside the head element

---

<sup>12</sup>Taken from <https://developer.mozilla.org/en-US/docs/Web/HTML/Element/style>

# CSS Selectors

- Define the elements to which a set of CSS rules apply.<sup>13</sup>
- Basic selectors:
  - **Type selector**
  - **Class selector**
  - id selector
  - Universal selector
  - Attribute selector

---

<sup>13</sup>Taken from [https://developer.mozilla.org/en-US/docs/Web/CSS/CSS\\_Selectors](https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Selectors)

//developer.mozilla.org/en-US/docs/Web/CSS/CSS\_Selectors

# Selector and Declaration Block

```
1 a {  
2   color: white;  
3   background: black;  
4 }
```

Format:

```
selector {  
  property: value;  
}
```

- Declaration block is contained inside opening and closing curly braces.
- List of pairs of property-value is located inside the declaration block.
- Selector is located before the opening curly braces.

# Type Selector

Matches elements by its name. Selector is just the element name.

```
2 <head>
3   <style>
4     a {
5       color: red;
6     }
7   </style>
8 </head>
9 <body>
10  <a href="http://google.com/">Google</a>
11 </body>
```

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## Class Selector

Matches by class. Selector is by adding a full-stop before the class name.

```
2 <head>
3   <style>
4     .important {
5       color: red;
6     }
7   </style>
8 </head>
9 <body>
10  <p>Welcome to my page</p>
11  <p class="important">I will be away for 2 weeks</p>
12 </body>
```

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# CSS Specificity

What if I use both inline styling and the style tag?

- If there are conflicting rules, priority is based on certain criteria.
- More information on <https://developer.mozilla.org/en-US/docs/Web/CSS/Specificity>

# CSS Summary

We learnt about:

- Property-Value
- Inline Styling
- The `style` tag
- CSS selectors
- Declaration block

You can read up more on Mozilla Developer Network (MDN):  
<https://developer.mozilla.org/en-US/docs/Web/HTML/Element>

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# Introduction to Bootstrap Framework

<http://getbootstrap.com>



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# Using Bootstrap

Copy and paste starter template from  
<http://getbootstrap.com/docs/4.1/getting-started/introduction/#starter-template>

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Answered 16h ago

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# Bootstrap Layouting

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|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|--------|---------------|--------------|---|---|---|--------------|----|----|----|
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|  | <p>Answer - Vietnam - Topic you might like</p> <p><b>If Vietnam was given a choice to join East Asia or Southeast Asia, which will they choose?</b></p> <p> Do Duc Nam, knows Vietnamese<br/>Answered 16h ago</p> <p>We should be 'independent', while Vietnam have a little bit close on culture with China in East Asia, the East Asian(Korean, Japanese, Chinese, Taiwanese) are racist people who look down on the Vie... <a href="#">(more)</a></p>  <p>Answer - Military - Topic you might like</p> <p><b>What are some practical military tactics that everyone should know?</b></p> <p> Tuan Minh Le, tactician, can improvise a decent strike plan in 10 seconds<br/>Updated 21h ago · Upvoted by Eric Johnson, 25 years working in and around USAF F-16s</p> <ol style="list-style-type: none"> <li>Enough ammo is never enough ammo.</li> <li>When out of ammo, strip naked and run around the battle field. The enemy might assume you're crazy and spare you.</li> <li>A weapon is only as good as its cleaning kit, or t...</li> </ol> <p><a href="#">(more)</a></p> <p> Questions for You</p> <p>Question added - Mobile Applications - Topic you might like</p> <p><b>How can I get my WhatsApp code number?</b></p>                                                                                                                                                                                                                                                                                                                                                         |      |        |               |              |   |   |   |              |    |    |    |
|  | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2    | 3      | 4             | 5            | 6 | 7 | 8 | 9            | 10 | 11 | 12 |

Introduction  
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HTML  
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CSS  
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Bootstrap Framework  
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Closing  
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# Building your own personal webpage

## Julius Putra Tanu Setiaji

Computing Student in NUS



### About me

Proud member of NUS Hackers.

I love building and hacking stuffs.

### Interests

Computer Science

Music Theory

History and Geopolitics

### Favourite Games

Kerbal Space Program

Europa Universalis IV

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Introduction  
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HTML  
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CSS  
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Closing  
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# Layouting (1/4)

| Banner                   |                           |                                 |
|--------------------------|---------------------------|---------------------------------|
| Division 1<br>(About me) | Division 2<br>(Interests) | Division 3<br>(Favourite Games) |
| Footer                   |                           |                                 |

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Closing  
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## Layouting (2/4)

|                               |                           |                                 |
|-------------------------------|---------------------------|---------------------------------|
| <div class="jumbotron"></div> |                           |                                 |
| Division 1<br>(About me)      | Division 2<br>(Interests) | Division 3<br>(Favourite Games) |
| Footer                        |                           |                                 |

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# Layouting (3/4)

```
<div class="jumbotron"></div>  
<div class="col-md-4"></div> x3
```

Footer

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Closing  
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## Layouting (4/4)

```
<div class="jumbotron"></div>
<div class="col-md-4"></div> x3
<footer></footer>
```

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Closing  
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# Where are we?

Introduction

HTML

Basic HTML

Basic HTML Tags

Attribute

CSS

Basic CSS

Bootstrap Framework

Introduction

Closing

Conclusion

Introduction  
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HTML  
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CSS  
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Bootstrap Framework  
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Closing  
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# Conclusion

**HTML** structures web pages  
**CSS** prettifies them  
**Bootstrap** makes it easier

# Talk to us!

- **Feedback form:** <https://tinyurl.com/hs2018-html>
- **Upcoming hackerschool:**
  - Git
  - HTML/CSS practice
  - Introduction to ES6