Orbital 2018: Introduction to HTML and CSS

This is the reference manual for the “Introduction to HTML and CSS” workshop in Orbital 2018 Liftoff.

# HTML

## 1. My first HTML code

<!DOCTYPE html>

<html>

<head></head>

<body>

Hi! My name is Herbert.

</body>

</html>

## 2. Adding Title

<!DOCTYPE html>

<html>

<head>

<title>My First Webpage</title>

</head>

<body>

Hi! My name is Herbert.

</body>

</html>

## 3. Adding paragraphs

<!DOCTYPE html>

<html>

<head></head>

<body>

<p>Hi! My name is Herbert.</p>

<p>I like to play volleyball.</p>

</body>

</html>

## 4. Adding headings

<!DOCTYPE html>

<html>

<head></head>

<body>

<h1>Herbert Ilhan Tanujaya</h1>

<h2>Biodata</h2>

<p>Hi! My name is Herbert, NUS year 3 Computer Science student.</p>

<p>I have two brothers in my family.</p>

<h2>My Hobbies</h2>

<p>I like to play volleyball.</p>

<p>I also like to code things.</p>

<h2>My School</h2>

<h3>NUS</h3>

</body>

</html>

## 5. Adding formatting

<!DOCTYPE html>

<html>

<head></head>

<body>

<h1>Herbert Ilhan Tanujaya</h1>

<h2>Biodata</h2>

<p>Hi! My name is <strong>Herbert</strong>, NUS year 3 Computer Science student.</p>

<p>I have two brothers in my family.</p>

<h2>My Hobbies</h2>

<p>I like to play <em>volleyball</em>.</p>

<p>I also like to <em>code</em> things.</p>

<h2>My School</h2>

<h3>NUS</h3>

</body>

</html>

## 6. Adding images and links

<h2>My School</h2>

<h3><a href="http://nus.edu.sg">National University of Singapore</a></h3>

<img src="http://nus.edu.sg/templates/t3\_nus2015/images/assets/logos/logo.png" alt="NUS logo"></img>

## References

### Tags

* Surrounded by angular brackets (<>)
* Opening tags: <html> <head> <body>
* Closing tags: </html> </head> </body>

### Reference of Tags

|  |  |  |
| --- | --- | --- |
| Tag | Usage | Attributes |
| <!DOCTYPE html> | Makes document conform to HTML5 standard |  |
| <html></html> | HTML code goes here |  |
| <head></head> | Metadata (data about the document) goes here |  |
| <body></body> | Document body goes here |  |
| <p></p> | Paragraphs |  |
| <h1></h1>  <h2></h2>  …  <h6></h6> | Headings |  |
| <strong></strong> | Bold |  |
| <em></em> | Italic |  |
| <a></a> | Link | href: where the link will go |
| <img> | Image | src: image source  alt: alternative text |
| <div></div> | Box container |  |
| <span></span> | Inline container |  |
| <main></main>  <header></header>  <footer></footer>  <section></section>  <article></article> | HTML5 semantic container |  |

### Attributes

<a href="https://www.google.com">Search</a>

* a is the tag name
* href is the attribute name
* https://www.google.com is the attribute value

### More References

<https://developer.mozilla.org/en-US/docs/Web/HTML>

Mozilla Development Network

# CSS

## 7. Color the heading

h2 {

color: blue;

}

## Three ways to include CSS

* <p style="color:red">Hello!</p>
* <style> tags
* <link rel="stylesheet" type="text/css" href="mystyles.css">

## CSS Format

p {

color: red;

font-size: 20pt;

}

* p is the selector
* color, font-size is the attribute key
* red, 20pt is the attribute value

## Ways to select specific tags

* <p class="event-name">Orbital</p> can be selected with .event-name
* <h1 id="organization-name">NUS Hackers</h1> can be selected with #organization-name (IDs can only be in one tag in the document – they must be unique)

## More references

<https://css-tricks.com/almanac/>

CSS-Tricks. Its almanac is pretty useful!

# Bootstrap

<http://www.getbootstrap.com/>

## Including Bootstrap

<https://getbootstrap.com/docs/4.1/getting-started/introduction/>

Refer to “Starter template” if you are confused.

## 8. Restructuring things

<div class="container">

<header>

<h1>Herbert Ilhan Tanujaya</h1>

</header>

<main>

<section>

<h2>Biodata</h2>

<p>Hi! My name is <strong>Herbert</strong>, NUS year 2 Computer Science student.</p>

<p>I have two brothers in my family.</p>

</section>

<section>

<h2>My Hobbies</h2>

<p>I like to play <em>volleyball</em>.</p>

<p>I also like to <em>code</em> things.</p>

</section>

<section>

<h2>My School</h2>

<h3><a href="http://nus.edu.sg">NUS</a></h3>

<img src="http://nus.edu.sg/templates/t3\_nus2015/images/assets/logos/logo.png"></img>

</section>

</main>

<footer>

Copyright 2018 Herbert

</footer>

</div>

## 9. Add "jumbotron" class to the header

## 10. Add "row" class to main and "col-4" in each section

Final webpage can be found at bit.ly/htmlcss-orbital2018

The Bootstrap documentation is very detailed!