

# HTML & CSS Workshop

## HTML



## CSS



Trainer: Dr. Alfred Ang



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# About the Trainer



Dr. Alfred Ang is the founder of Tertiary Courses. He is a serial entrepreneur. He founded OSWeb2Design Singapore Pte Ltd in 1997 offering web development, e-commerce store development, graphics design, ebook publishing, mobile apps development, and digital marketing services. He established the first online gardening store in Singapore, Eco City Hydroponics Pte Ltd in 2000, offering a wide range of gardening products such as seeds, plant nutrients, hydroponics kits etc. Eco City Hydroponics has become the most popular and successful gardening store in Singapore. He founded Tertiary Infotech Pte Ltd in 2012 and transformed the business to a training platform, Tertiary Courses in 2014. Tertiary Courses offers a wide range of SkillsFuture courses for PMETs to upgrade their skills and knowledge. He also established Tertiary Courses Malaysia in 2016. He also founded Tertiary Robotics in 2015 offering Arduino, Raspberry Pi, Microbit and Robotics product

Dr. Alfred Ang earned his Ph.D. from National University of Singapore in 2000, majoring in Electrical and Electronics Engineering. He also completed an online MBA course with U21 Global based in Australia. He obtained his B.Sc (Hons) from National University of Singapore in 1992, majoring in Physics. He topped his Physics cohort for 3 consecutive years and funded his degree study with Book prizes, Study awards, bursaries and tuition. He has worked in Defence, Electronics and Semiconductor Industries. His current interests include Machine Learning, Deep Learning, Artificial Intelligence, Internet of Things, Robotics and Programming.

Dr. Alfred Ang was Distinguished Toastmasters (DTM) and Senior Member of IEEE. He has published more than 20 peer reviewed papers and co-inventors for more than 20 inventions.

# Agenda

## HTML

- Web Technologies
- HTML Page Structure
- Basic HTML Tags
- Embed Image and Video
- List, Link and Table

## CSS

- CSS Syntax
- CSS Locations
- Basic CSS Properties
- Google Font



# Exercise Files

You can download the exercise files from the link below

<https://github.com/tertiarycourses/HTML5CSS3Training>



# Install Sublime Text

<http://www.sublimetext.com/3>



# HTML



# The backbone of a web page



HTML5



CSS3



JavaScript

HTML - Structure and content

CSS - How a page look

Javascript - How a page  
behave



# HTML Page Structure

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>Module 1: HTML</title>
```

```
</head>
```

```
<body>
```

```
....
```

```
</body>
```

```
</html>
```





# HTML Tags

header tags -

<h1>,<h2>,<h3>,<h4>,<h5>,<h6>

paragraph and line break tags - <p>,  
<br>

list tags - <ul>, <ol>, <li>

link tags - <a>

table tags - <table>, <tr>, <td>

formatting tags - <b>,<i>

many many more tags can be found in

<https://www.w3schools.com/html/>

# Ex: Create a Simple Website

Code a simple html page as follows

Welcome to HTML5 and CSS Workshop

Lesson 1: HTML

Lesson 2: CSS

Lesson 3: Javascript

Time: 5 mins



# Embed Image and Video

```

```

```
<iframe width="560" height="315"  
src="https://www.youtube.com/embed/  
LuJKrTGKFpl" frameborder="0"  
allow="autoplay; encrypted-media"  
allowfullscreen></iframe>
```

# Exercise: Add Video

Add a youtube video, search for HTML tutorial video and add below

Time: 5 mins



# List

```
<li>
```

```
<li>item 1</li>
```

```
<li>item 2</li>
```

```
</li>
```



# Exercise: List

Change the Lesson 1 to 3 to bullets

- Lesson 1: HTML
- Lesson 2: CSS
- Lesson 3: Javascript

Time: 5 mins



# Links

```
<a href = "http://www.google.com">
```





# Exercise: Links

Link the 3 bullets to the relevant pages

- Lesson 1: HTML
- Lesson 2: CSS
- Lesson 3: Javascript

Time: 5 mins



# Table

```
<table>
```

```
<tr>
```

```
<td>Name</td>
```

```
<td>Email </td>
```

```
<td>Tel</td>
```

```
</tr>
```

```
</table>
```



# Exercise: Table

Add the following table to the website

Lesson	
1	HTML
2	CSS
3	Javascript

Time: 5 mins

# Meta Tags

```
<title>"HTML and CSS Lessons"</title>  
<meta name="description"  
content="Learning about HTML"/>
```

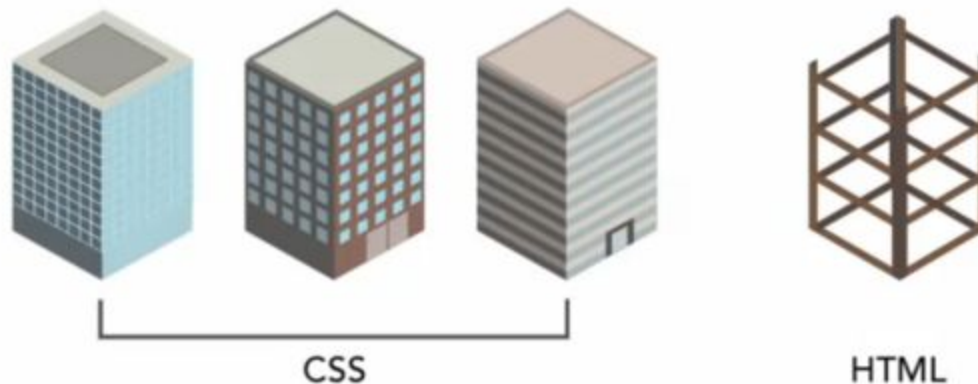


# CSS

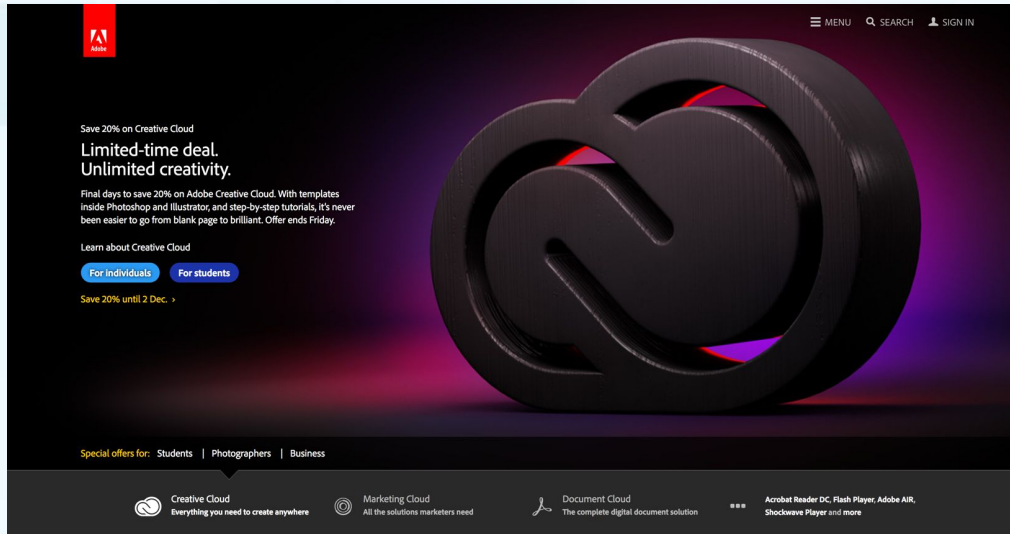


# What is CSS

- CSS, or Cascading Style Sheets, is a style sheet language developed to control the presentation of markup language documents, like HTML.
- It is not markup language, or scripting language



# Naked Website



- Menu
- Search
- 
- Sign In
- 

For the complete experience, please enable JavaScript in your browser. Thank you!

- Products
- How to Buy
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- About Adobe

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• [Lightroom](#)

• [See all](#)

- See plans for: [businesses](#) [photographers](#) [students](#)

• [Document Cloud](#)

• [Acrobat DC](#)

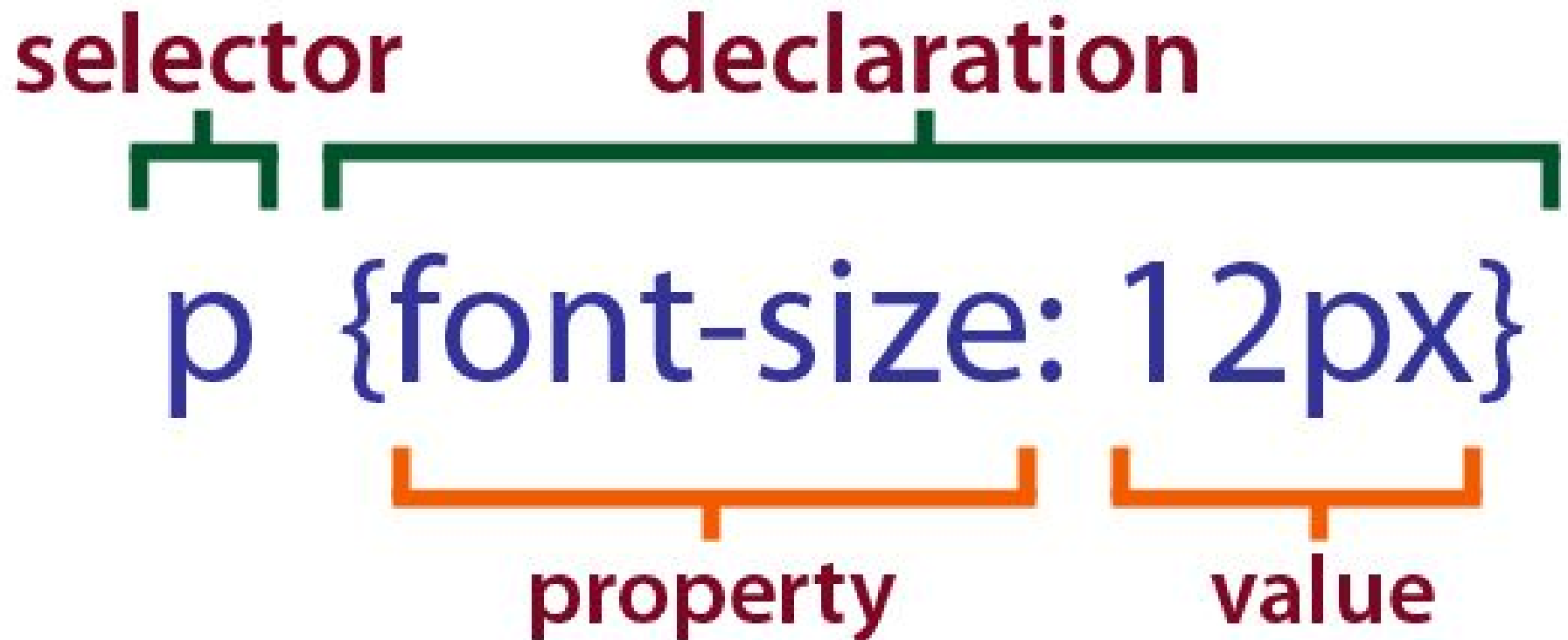
• [Stock](#)

• [Elements](#)

<https://www.adobe.com/sea/products/photoshop-lightroom.html?promoid=KLXLX>



# CSS Syntax



# CSS Location

- Inline Style
- Embedded Style Sheet
- External Style Sheet



# Inline Style



index.htm

```
<html>
<head>
</head>
<body>
  <div>
    <p style="font-size: .9em; margin-bottom: 1.2em;">
...</p>
  </div>
</body>
</html>
```

# Exercise: Inline Style

Write an inline style to change p tag to red color



# Embedded Style Sheet



index.htm

```
<html>
<head>
  <style>
    body {font-family: Arial; font-size: 100%;}
    h1, h1 {font-weight: normal; color: red;}
    p {font-size: .9em; margin-bottom: 1.2em;}
    .pullquote {background: yellow; padding:10px}
  </style>
</head>
<body>
  ...
</body>
</html>
```

# Exercise: Embedded Style

Write an embedded style sheet to change the web page

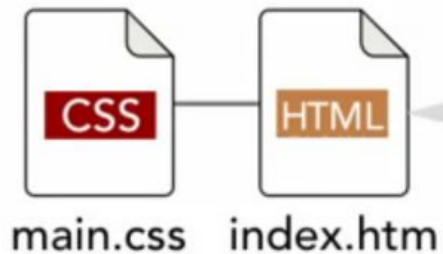
Body font: Helvetica

p font size: 12px

h1 font size: 20px



# External Style



```
<html>
<head>
<link href="main.css" rel="stylesheet"
type="text/css" media="screen, projection">
</head>
<body>
  ...
</body>
</html>
```



# Exercise: External Style

Write an external stylesheet to change the web page

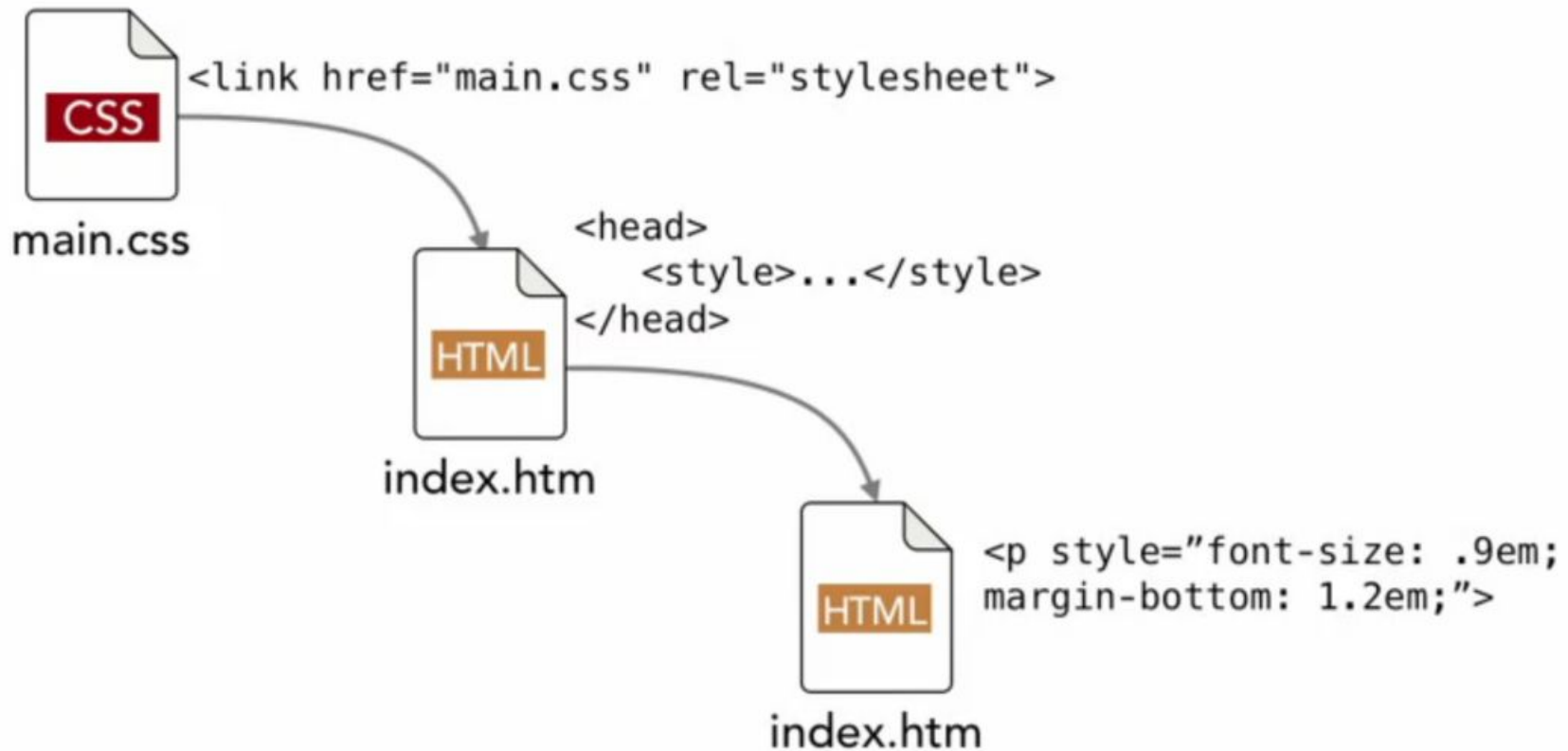
Body font: Helvetica

p font size: 12px

h1 font size: 20px



# Cascading



# Basic CSS Selectors

- Element Selector
- Class Selector
- ID Selector



# Element Selector

```
<style>
```

```
p {  
  text-align: center;  
  color: red;  
}
```

```
</style>
```



# Exercise: Element Selector

Modify the margin of a p tag

```
p {  
    margin-top: 100px;  
    margin-bottom: 100px;  
    margin-right: 150px;  
    margin-left: 80px;  
}
```



# Class Selector

```
<style>
```

```
.center {
```

```
  text-align: center;
```

```
  color: red;
```

```
}
```

```
</style>
```

```
<h2 class="center">Style me using the "style"  
  element.</h2>
```

# Exercise: Class Selector

Create a class selector `.alert` and apply to `p` and `h1` tags

```
.alert {  
    color: red;  
    font-weight: normal;  
}
```





# ID Selector

```
#strategy {  
  color: red;  
}
```

```
<h4 id="strategy">Using ID selectors</h4>
```



# Exercise: ID Selector

Create a class selector #para1 and apply to paragraph

```
#para1 {  
    text-align: center;  
    color: red;  
}
```



# CSS Properties

- font
- color
- text
- padding
- margin
- border
- table
- background

Many CSS properties can be found in  
<https://www.w3schools.com/css/>

# Background Color

```
body {  
    background-color: lightblue;  
}
```

```
body {  
    background-image:  
url("header.jpg");  
    background-size: 100%;  
}
```

# Exercise: Background

Add a background color or image to the your html website



# Link State

- a:link - a normal, unvisited link
- a:visited - user has visited
- a:hover - user mouses over it
- a:active - a link the moment it is clicked



# Exercise: Link State

Change the color of the link to red when hover

Welcome to HTML5 and CSS Workshop

Lesson 1: HTML

Lesson 2: CSS


Lesson 3: Javascript



# Google Font

<https://www.google.com/fonts>

Google Fonts

DIRECTORY FEATURED ABOUT  >

Viewing 809 of 809 font families

Roboto  
Christian Robertson (12 styles)

All their equipment and instruments are alive.

Aref Ruqaa  
Multiple Designers (2 styles)

A red flair silhouetted the jagged edge of a wing.

Try typing directly into the text fields. GOT IT

Bungee  
David Jonathan Ross (1 style)

**I WATCHED  
THE STORM,  
SO BEAUTIFUL  
YET TERRIFIC.**

Open Sans  
Steve Matteson (10 styles)

Almost before we knew it, we had left the ground.

Slabo 27px  
John Hudson (1 style)

A shining crescent far beneath the flying vessel.

Lato  
Łukasz Dziedzic (10 styles)

It was going to be a lonely trip back.

Yrsa  
Rosetta (5 styles)

Mist enveloped the ship three hours out from port.

Oswald  
Vernon Adams (3 styles)

**My two natures had memory in common.**

Categories

- ☒ Serif
- ☒ Sans Serif
- ☒ Display
- ☒ Handwriting
- ☒ Monospace


Sorting

Trending ▾


Languages

All Languages ▾


Number of styles

☐ 


Thickness

☐ 

Slant

☐ 

Width

☐ 



# Install Google Font

```
<link  
href="https://fonts.googleapis.com/css?f  
amily=Pacifico" rel="stylesheet">
```

```
p {  
    /*font-family: Helvetica;*/  
    font-family: 'Pacifico', cursive;  
}
```

# Exercise: Google Font

Install your own Google font on your website



# Javascript



# Exercise: Javascript

Pop up the alert message "End of the Class"



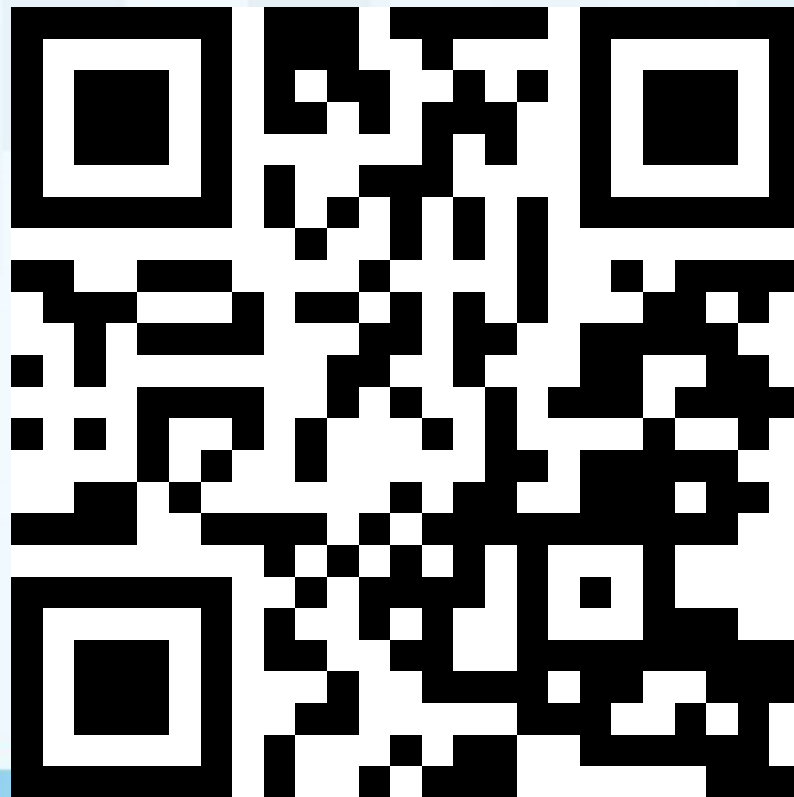
# Summary Q&A



**Practice  
Makes  
Perfect**

# Feedback

<https://goo.gl/R2eumq>



# Thank You!

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