

# CMPT 165

## INTRODUCTION TO THE INTERNET AND THE WORLD WIDE WEB

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*UNIT 3: STYLESHEETS*

# TOPICS

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1. Styles
2. CSS Basics
3. CSS Properties
4. CSS Selectors
5. Colors in CSS
6. Styling Pages with CSS
7. Browser Compatibility
8. Separating Content and Appearance
9. CSS Fonts [optional content]
10. Interactive Color Mixer [optional content]

when you test a piece of code locally  
you have tested it:

- with your particular browser (Firefox, Chrome, etc)
- in the version of the browser you have
- with your browser window size
- with the fonts, plugins, etc. that you have installed

## CSS VALIDATION

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you will need to validate your developed CSS using  
**CSS Validator**

however, for CSS, the situation can be more complicated when it comes to actually working in different browsers

## HANDLE BROWSER INCONSISTENCIES

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you need to use a [reset stylesheet](#) (a pre-prepared stylesheet that remove all of the defaults set by browsers) to reduce browser inconsistencies

```
<link rel="stylesheet" href="reset.css" />  
<link rel="stylesheet" href="my-style.css" />
```

[Normalize.css](#) is an alternative to the reset stylesheet mentioned above

## BROWSER COMPATIBILITY

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the question is whether each browser supports  
the CSS features you use or not

# HTML BROWSER COMPATIBILITY

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the only HTML compatibility issues will come from older versions of Internet Explorer

for this course, we will happily ignore old IE versions and move on

# CSS BROWSER COMPATIBILITY

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for css you can use [the CSS Reference](#) which helps you to understand the compatibilities

	Desktop	Mobile			
Feature	Chrome	Firefox (Gecko)	Internet Explorer	Opera	Safari
Basic support	1.0	1.0 (1.7 or earlier)	3.0	3.5	1.0

\* image from <http://www.cs.sfu.ca/CourseCentral/165/common/study-guide/figures/compat1.png>



## TESTING TIPS

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- resize your browser window
- try a different browser
- try a mobile device

# BASIC IDEAS OF SEPARATING CONTENT AND APPEARANCE

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## when writing HTML

- think about your content, not the way you want it to look
- choose tags so their meaning matches your content
- if the tags aren't specific enough, add a **class** or **id** to distinguish particular elements as semantically-different
- choose **class** and **id** values to reflect meaning as well, not to describe an appearance
- if no existing tag matches the content you have, use a generic tag (**<div>** or **<span>**) with a meaningful **class** or **id**

# BASIC IDEAS OF SEPARATING CONTENT AND APPEARANCE

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## when writing CSS

- Use CSS to specify how you want pieces of content to look, in a separate `.css` file.
- If you need to, go back and add markup (especially `class` or `id` attributes) to your HTML as you're creating your CSS. Don't slip into saying things about appearance in your HTML when doing this.
- Don't use the `<style>` tag or HTML `style` property, which mix style information back into your HTML. If your reference uses these, find a better reference.

## CSS FONTS

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as mentioned before, the CSS `font-family` property should be given a **list** of fonts, so the user's browser can try several options to find the "best" one available on their computer

```
font-family: "Helvetica", "Arial", sans-serif;
```

this *fall back* mechanism does not guarantee the same appearance every where!

# LOADING FONTS

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you can use several online font repositories, most notably [Google Fonts](#)

```
<link rel="stylesheet"
      href="https://fonts.googleapis.com/css?
      family=Open+Sans:400,700" />
<link rel="stylesheet" href="my-style.css" />
```

```
body {
  font-family: "Open Sans", sans-serif;
}
```

## INTERACTIVE COLOUR MIXER

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An interactive demo of the concepts in color section  
can be found [here](#)

Any Questions?