## COMP 4021 Internet Computing

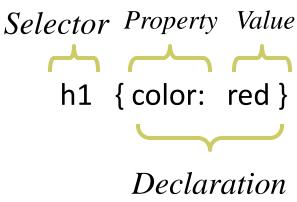
# Introduction to Cascade Style Sheets (CSS)

## Why Cascade Style Sheets (CSS)?

- CSS separates visual parameters (colour, spacing, etc.) from actual content (words)
- http://www.w3.org/Style/
- You have already seen how style can be used for individual elements:
- A pretty paragraph.
- But what if you want the same visual information to be used for all paragraphs in the web page?

## CSS Terminology

A style rule:

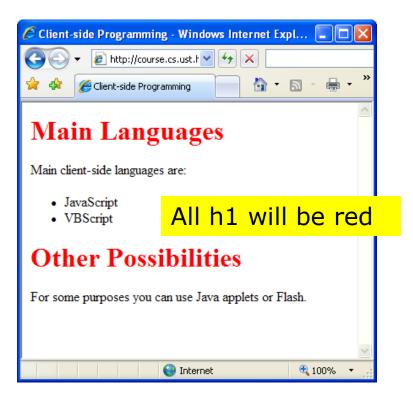


You can define a rule for:

	Selector Syntax	Examples
Element Type	Element_name	h1, div, p
Class	.class_name	.highlight
Element ID	#ID	#myDiv

#### CSS with Element Selector

- Declare "style" once and apply it to all paragraphs
- You can put a style section at the top of the page



```
<style>
                       Rule:
h1 { color: red }
                         { color: red }
</style>
                         ↑ style
                selector↑
<body>
<h1>Main Languages</h1>
Main client-side languages are:
<l
JavaScript
VBScript
<h1>Other Possibilities</h1>
Java applets or Flash
</body>
```

## Style Using a Relative Link

• An alternative is to separate style and data into two files:

File: my\_style.css

```
h1 { color: red }
```

The visual result is the same as before

File: css\_simple.html

```
<link rel="stylesheet" href="my_style.css"</pre>
  type="text/css"/>
<body>
<h1>Main Languages</h1>
Main client-side languages are:
ul>
JavaScript
VBScript
<h1>Other Possibilities</h1>
 Java applets or Flash.
</body>
```

#### ID Selector

Define a rule for a particular element using element ID, e.g.,

#### Class Selector

Create a rule for a class of heterogeneous elements (having different element names):
Tappy ( fort weight, holds fort family) Impacts color

```
.zappy { font-weight: bold; font-family: Impact; color:
blue }
```

```
The rule will be applied to both of the followings: Hi! This is my zappy style!
<div class="zappy">My name is Zebedee!
```

Class can be restricted to a particular set of elements:

```
p.zappy { ... declaration ...}
div.zappy { ... declaration ... }
```

- p.zappy is applied to ...
- div.zappy is applied to <div class="zappy">...

### Nice Way to Style a Div

 Typically you would first define the style information for a div (such as the position and colours):

## Declaring the Div

• The div is defined using the style rule:

Style class created in the last slide is used

## Anchors (Pseudo Class)

- Style anchor text to distinguish it from normal text
- However, properties like whether a link has been visited or not is available only to the browser, no the author/designer
- Pseudo classes are classes not defined by human by provided by browser

```
A:link { text-decocoration: underline }
A:visited { text-decocoration: none}
A:hover { background: black}
Pseudo-class names
```

#### Pseudo Elements

- Pseudo Elements refer to parts of an element's content, e.g.,
  - FIRST-LETTER and FIRST-LINE
- □ To achieve the "drop letter" effect: <span class="drop-letter">A</span>fter ... and define the style for <drop-letter>
- Using CSS built-in pseudo element:

fter 25 years of drought and two days of too much rain, Philadelphia has its championship. It felt like a dream, but it wasn't. You are wide awake and the Phillies really are World Series champions. They beat the weather and the Tampa Bay Rays, 4-3, to earn just the second title in franchise history.

Class name (defined by a rule not shown here)

P.INITIAL:FIRST-LETTER { font-size: 200%; float:left}

Pseudo-class names

Display at the left of the parent element (i.e., P.P.) 11

## Take Home Message

- CSS separates content and style, making webpages easier to read and maintain
  - Powerful "selector" make selecting DOM elements easy
- CSS is much more powerful than covered here
  - In jQuery, we will learn more CSS selectors