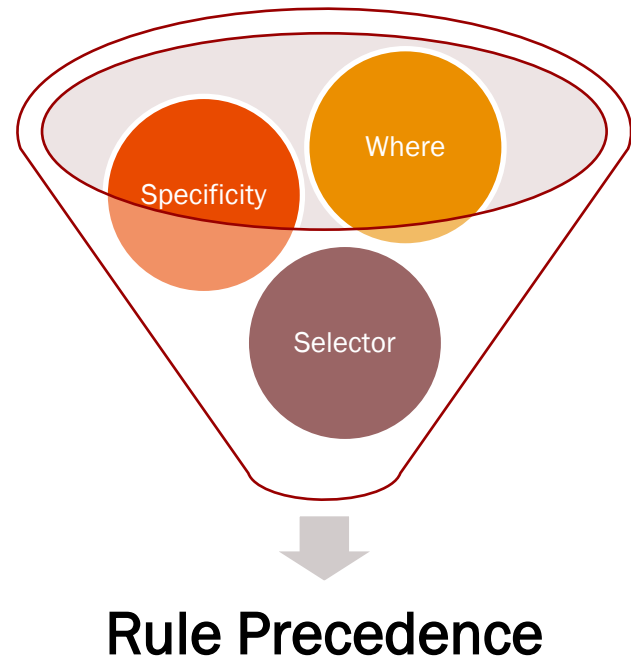


# CSS...Some Final Things

INF340 Web Design Concepts

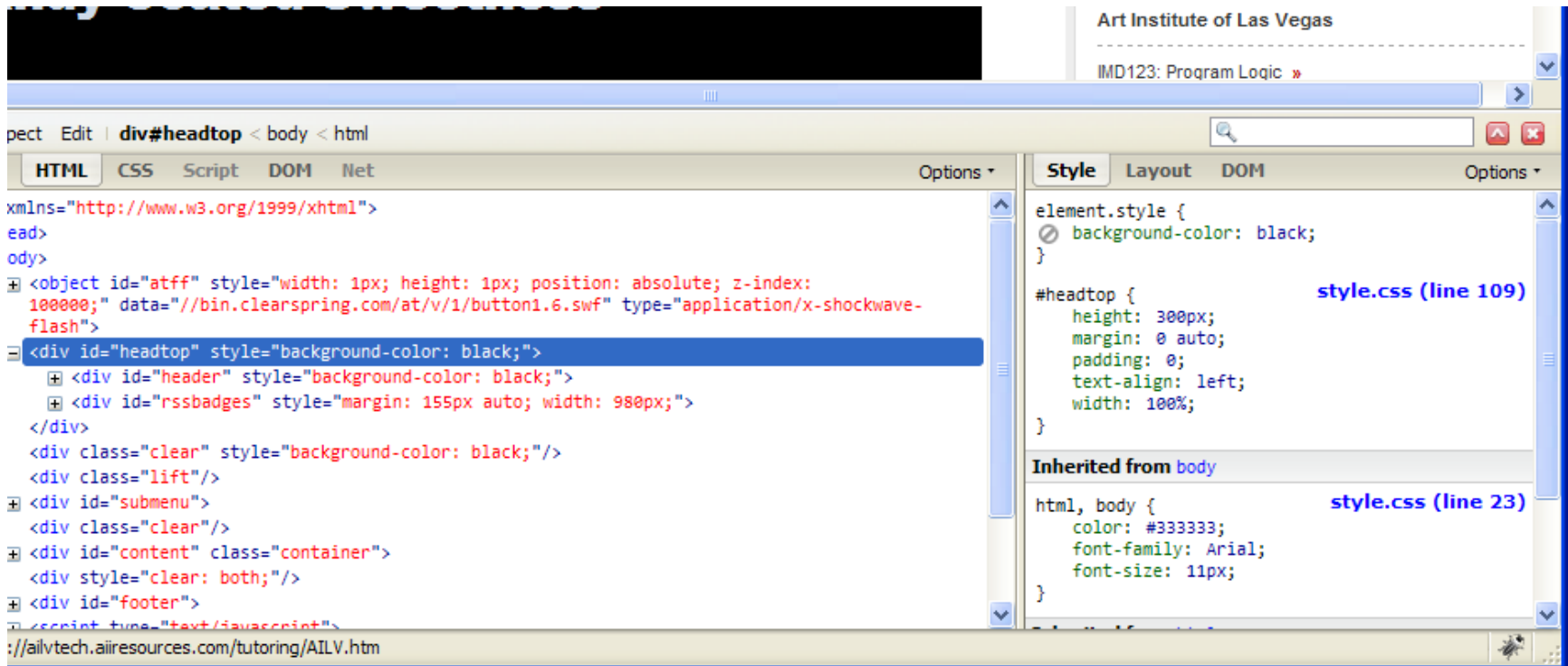
# Hierarchical Precedence

- ❑ CSS precedence dictates whether a rule will be used or ignored
- ❑ Precedence is determined by a loose combination of factors
  - ❑ Where was the rule created (externally, embedded or inline)
  - ❑ The nature of the selector
  - ❑ How explicit the rule is
  - ❑ A descendency cascade

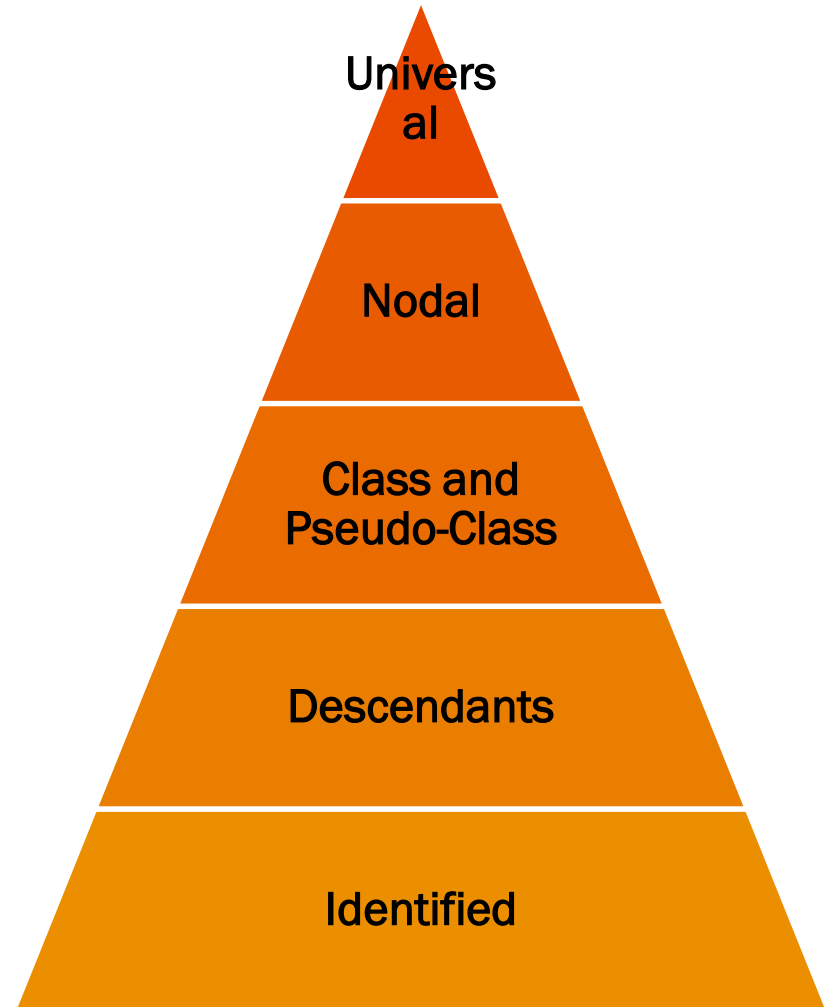
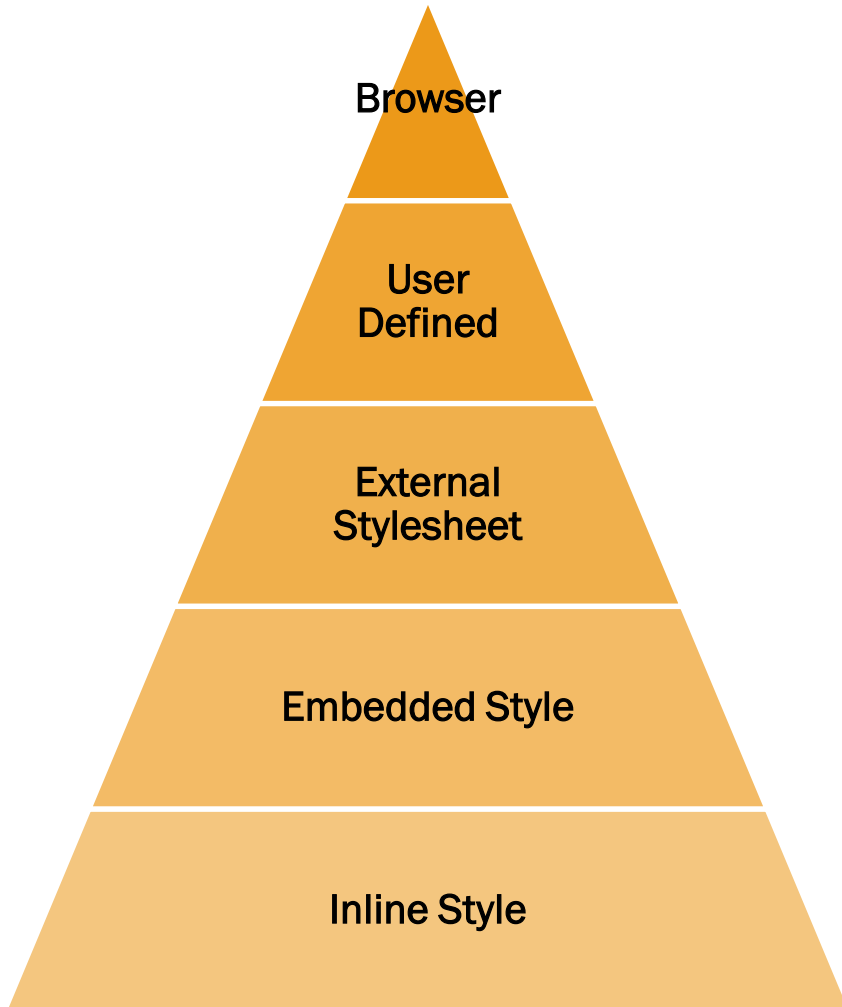


# Firebug

- ❑ Firefox plug-in Firebug can help you to see the order of precedence of any given markup node
  - ❑ Still does not display what the parental genetics might be
- ❑ MSIE and Safari have similar tools (neither as good)



# Precedence Pyramids



# Precedence Matrix

	External Stylesheet	Embedded Style	Inline Style
Universal	1	2	8 <sup>1</sup>
Nodal	3	4	8 <sup>1</sup>
Class	5	6	8 <sup>1</sup>
Descendant	7	8 <sup>1</sup>	9 <sup>2</sup>
Identified	9 <sup>2</sup>	9 <sup>2</sup>	10

# Some Special Selectors

- ❑ The universal \*

  - ❑ Applies to the document as a whole including any directly inheriting nodes (such as body)

- ❑ Descendant selector
  - ❑ Any given selector followed by another selector separated by a space
  - ❑ Defines a child selector (or any child underneath)
  - ❑ Cannot be exclusory (applies to all meeting the requirement)

```
* {  
    margin: 10px;  
    padding: 0px;  
}  
p img {  
    border: solid 1px #000;  
}  
div div div div {  
    border: dotted 1px red;  
}
```

# More Special Selectors

- ❑ Direct descendant selector
  - ❑ Applies to a specific child of the parental selector
- ❑ Type selector
  - ❑ For certain tags, defines a specific type
  - ❑ Used particularly with <input>
    - ❑ type=[text, password, submit, button, hidden, checkbox, radio]

```
div > a > img {  
    border: solid 1px blue;  
}  
div > img {  
    border: solid 1px red;  
}  
input {  
    font-weight: bold;  
}  
input[type=text] {  
    color: green;  
}  
input[type=password] {  
    color: purple;  
}
```

# @import Directive

- ❑ Can be used as alternative to <link> markup
- ❑ Proper syntax shown
  - ❑ Can also be called from within an external stylesheet
- ❑ Available in MSIE 7+, Firefox 2+, Safari, Opera
  - ❑ Widely used as a detection agent

```
<link rel="stylesheet" href="style-main.css">  
<link rel="stylesheet" href="style-text.css">  
<link rel="stylesheet" href="style-color.css">
```

```
<style type="text/css">  
@import url("style-main.css");  
@import url("style-main.css");  
@import url("style-main.css");  
img { border: solid 1px blue; }  
</style>
```

See example [inf340-wk05a4.html](#)

# Media Types

- Media type definitions allow rules to be applied based on “media”

Media Type	Usage
all	All media type devices (default)
aural	Speech and sound synthesizers*
braille	Braille and tactile feedback devices
embossed	Paged braille printers
handheld	Small or handheld devices
print	Printers
projection	Projected presentations (slideshows)
screen	Computer screens
tty	Media using fixed-pitch character grids
tv	Television-type devices (media centers)

\*Requires additional rulesets not used by other media types

# Media Types Syntax: Linked

- ▣ Two alternative syntaxes
  - ▣ In both cases, specify media types as comma-delimited list
- ▣ As linked style, call using **media** attribute

```
<!-- applies only to computer screens -->  
<link rel="stylesheet" href="screen.css" media="screen">  
<!-- applies only when printed -->  
<link rel="stylesheet" href="foo.css" media="print">  
<!-- applies to tty devices and televisions -->  
<link rel="stylesheet" href="bar.css" media="tty, tv">
```

# @media Directive

- ❑ Two alternative syntaxes
  - ❑ In both cases, specify media types as comma-delimited list
- ❑ As embedded, call using **@media** directive with nodal structure

```
<style type="text/css">  
@media screen {  
  div { font: 11px Arial; }  
}  
@media print {  
  div { font: 11px Georgia; }  
}  
</style>
```

# Resources

- ❑ Lab Tutorial [limited time availability]
  - ❑ [Online Display](#)
  - ❑ [Download](#)
- ❑ W3Schools CSS Tutorial: <http://w3schools.com/css/>
  - ❑ Full List: [http://www.w3schools.com/Css/css\\_reference.asp](http://www.w3schools.com/Css/css_reference.asp)
  - ❑ Color Names: [http://www.w3schools.com/css/css\\_colornames.asp](http://www.w3schools.com/css/css_colornames.asp)