Cascading Style Sheets (CSS)

Part 1 of 3:

Introduction and overview

Mike Hamilton
V.P. Product Evangelism
MadCap Software
mhamilton@madcapsoftware.com

madcap
software

Presenter Information

- Mike Hamilton
  - MadCap V.P. of Product Evangelism

Mike Hamilton is the Vice President of Product Evangelism at MadCap Software where he is working on the next generation authoring tool, Flare. Before joining MadCap Software, he was the Product Manager for the RoboHelp product line since the days of Blue Sky Software, eHelp, and Macromedia.

Mike has over 20 years of experience in training, technical communication, multimedia development, and software development.

We also have with us…

- Jose Sermeno
  - MadCap Product Evangelist
- He will answer questions during the webinar
- Type questions in the Question and Answer area of the GoToWebinar interface

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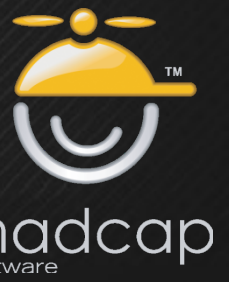
- We should be done by the top of the hour
  - We know you have a busy day

Agenda

- What are Cascading Style Sheets (CSS)?
- What can CSS do?
- Types of CSS
- What is Cascading?
- CSS rules
- What is Inheritance?
- Creating a Cascading Style Sheet
- Creating a custom style

What Are Cascading Style Sheets (CSS)?



What Are Cascading Style Sheets?

Cascading Style Sheets

From Wikipedia, the free encyclopedia

- **Cascading Style Sheets** (**CSS**) is a style sheet language used to describe the presentation (that is, the look and formatting) of a document written in a markup language. Its most common application is to style web pages written in HTML, but the language can be applied to any kind of XML document.
- **Created by:** CSS was created by Håkon Wium Lie and Bert Bos and was adopted as a W3C Recommendation in late 1996.

Cascading Style Sheets

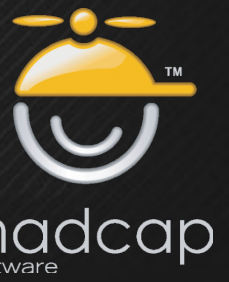
From Wikipedia, the free encyclopedia

- **Current:** CSS 3, adopted by the W3C in 2012 is the current recommendation.
- **Future:** CSS has been broken into new categories and is under development. http://www.w3.org/Style/CSS/current-work#table
- **Support:** Early browser support was problematic leading many to ignore the CSS technology. With modern browsers CSS rendering has become quite reliable. http://www.w3schools.com/cssref/css3_browsersupport.asp

What Are Cascading Style Sheets?

- A standards-based method for controlling the look and feel of HTML/XML content.
- Comprised of Rules to control elements in the document.
- Designed to separate formatting from the content while being flexible and scalable

What Can CSS Do?



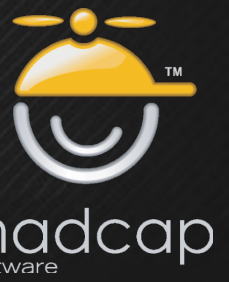
What Can CSS Do?

- Text formatting
- Element sizing
- Element positioning
- Change link attributes
- Cursor manipulation
- And more…
  http://www.csszengarden.com/

What Can CSS Do?

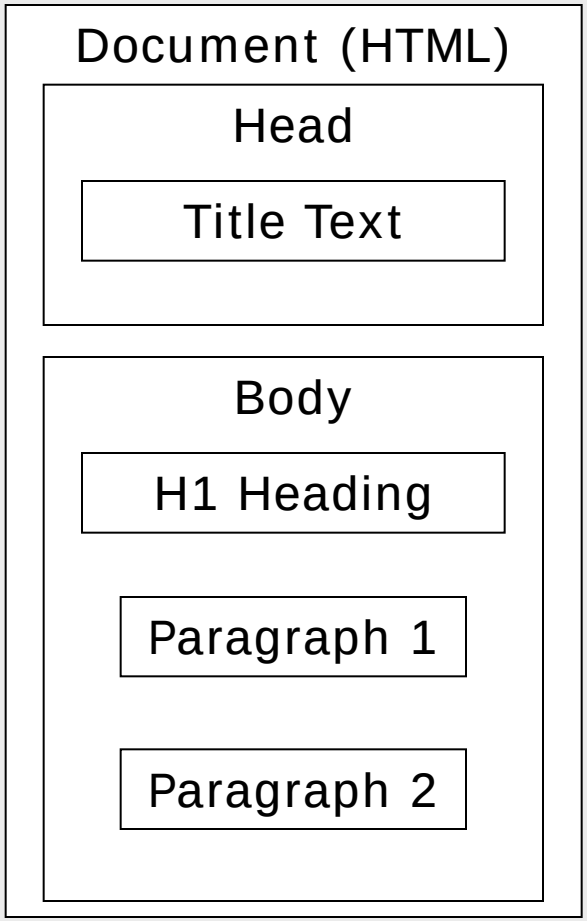
- Most importantly, CSS can support the control of hundreds or thousands of documents from a single control file
- This makes your life much easier when it is time to make updates

Types of CSS



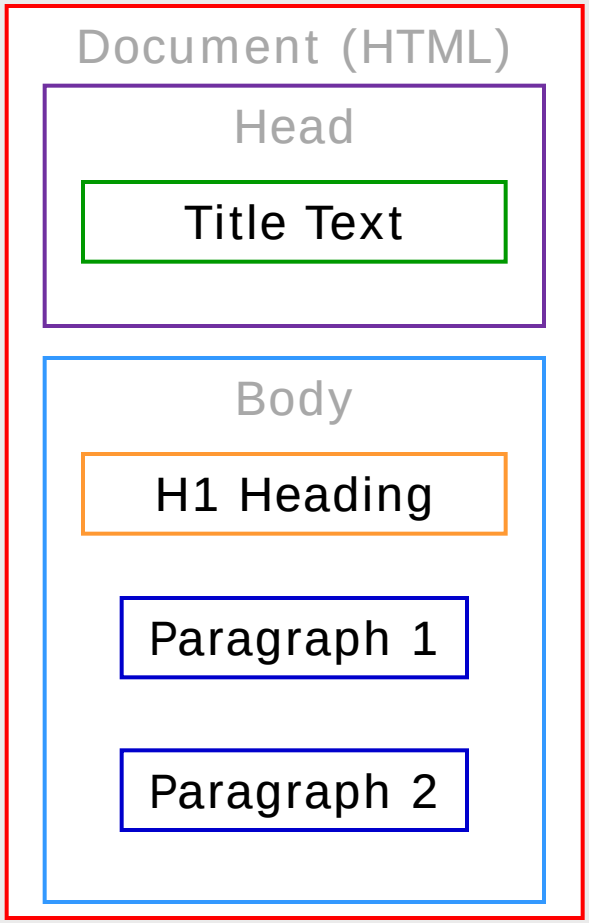
HTML Page Structure

```
<HTML>

    <HEAD>
        <TITLE>Title Text</TITLE>
    </HEAD>

    <BODY>
        <H1>H1 Heading</H1>
        <P>Paragraph 1</P>
        <P>Paragraph 2</P>
   </BODY>

</HTML>
```



HTML Page Structure

```
<HTML>

    <HEAD>
        <TITLE>Title Text</TITLE>
    </HEAD>

    <BODY>
        <H1>H1 Heading</H1>
        <P>Paragraph 1</P>
        <P>Paragraph 2</P>
    </BODY>

</HTML>
```



Types of CSS

- Three CSS implementations
  - Inline
    - Affects only the element applied to
  - Embedded
    - Affects only the elements in a single file
  - External
    - Linked to an unlimited number of files

Inline CSS

Use the STYLE attribute

```
<p>This is normal text</p>

<p><b>This is bold text</b></p>

<p style="font-weight: bold">This is
  bold text</p>
```

Embedded CSS

- Added to the <HEAD> area of file
- Use <STYLE> element

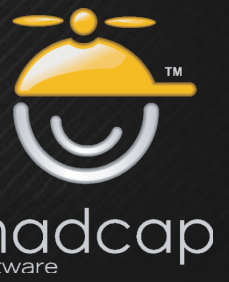
```
<HEAD>
   <TITLE>New Topic1</TITLE>
   <STYLE>P{font-weight:bold}</STYLE>
</HEAD>
```

External CSS

- The <LINK> element is used to attach a CSS document to an HTML document

```
<HEAD>
 <TITLE>New Topic1</TITLE>
<LINK HREF="example.css" REL="StyleSheet" >
</HEAD>
```

What is Cascading?



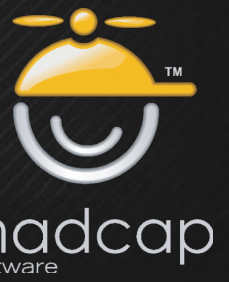
Cascading

The three CSS types combine at run time to render the page.

Order of precedence

- Inline styles
- Embedded style sheets
- Linked (external) style sheets

CSS Rules

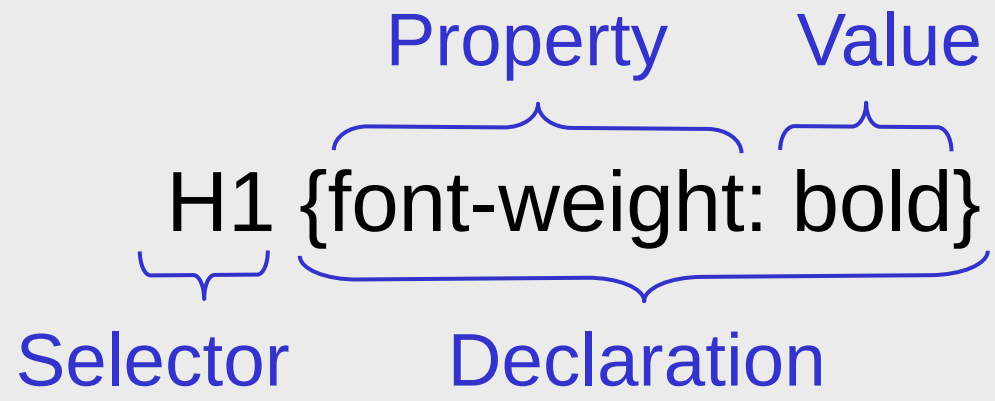


Cascading Style Sheets (CSS)

Style Rules

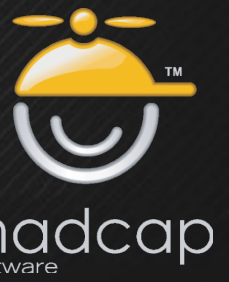
Inline style="font-weight: bold"

Embedded/
External

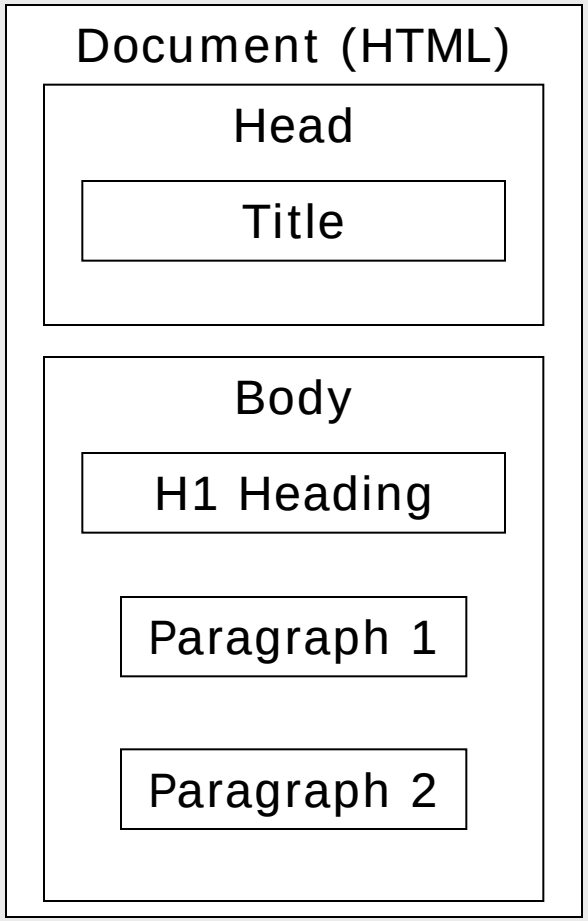



```
H1 {font-weight: bold; color: black;  }
```

What is Inheritance?



HTML Page Structure



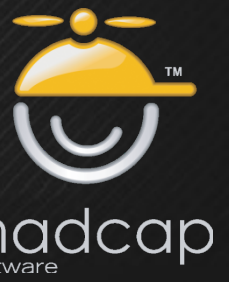
CSS Inheritance

Page elements inherit style attributes

```
<body>
  <h1>Sample heading</h1>
  <p>Sample text</p>
</body>
```

```
body { font-family: Arial; }
```

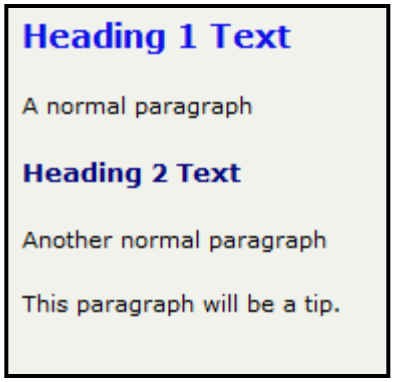
Creating a Cascading Style Sheet



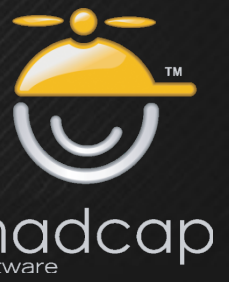
Creating a Cascading Style Sheet

```
body {color: #000000;
      background: #F1F2EC;
      font-size: 8pt;
      font-family: Verdana,
      Arial,Helvetica, Sans Serif;}
h1   {color: #0D10E5;
      font-size: 12pt;}
h2   {color: #040677;
      font-size: 10pt;}
p    {margin-bottom: 16px;}
```

```
<html >
   <head>
      <link href="test.css" rel="stylesheet" />
   </head>
   <body>
      <h1>Heading 1 Text</h1>
      <p>A normal paragraph</p>
      <h2>Heading 2 Text</h2>
      <p>Another normal paragraph</p>
      <p>This paragraph will be a tip.</p>
   </body>
</html>
```



Creating a Custom Style



CLASS attribute

- The CLASS attribute can be used to create custom styles for a set of items on a page

P { color:blue; margin-left:3px; }

P.myclass { color:blue; margin-left:3px; }

CLASS attribute

- Class Syntax:
  - In a style sheet:

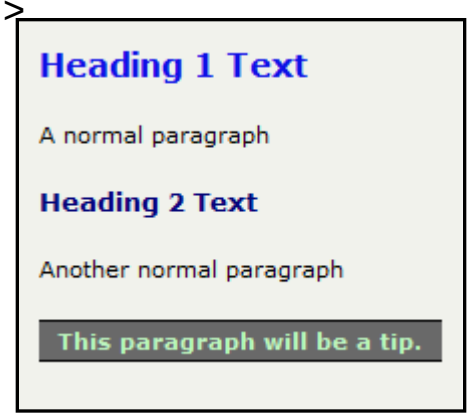
    P.myclass { color:blue;}
  - In a page:

    <P CLASS=“myclass”>Text</P>

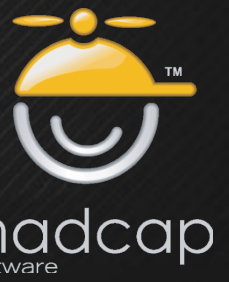
Creating a Cascading Style Sheet

```
body {color: #000000;
      background: #F1F2EC;
      font-size: 8pt;
      font-family: Verdana, Arial, Helvetica, Sans S

h1    {color: #002000;
      font-size: 12pt;}

h2    {color: #002b00;
      font-size: 10pt;}

p     {margin-bottom: 16px;}

p.tip {color: #BEF5BF;
      font-weight: bold;
      background-color: #696969;
      padding-left: 0.8em;
      padding-right: 0.8em;
      padding-bottom: 0.3em;
      padding-top: 0.3em;
      border-bottom-color: #000000;
      border-bottom-style: Solid;
      border-bottom-width: 1px;
      border-top-color: #000000;
      border-top-style: Solid;
      border-top-width: 1px;}
```

```
<html >
  <head>
    <link href="test.css" rel="stylesheet" />
  </head>
  <body>
    <h1>Heading 1 Text</h1>
    <p>A normal paragraph</p>
    <h2>Heading 2 Text</h2>
    <p>Another normal paragraph</p>
    <p class="tip">This paragraph will be a
    tip.</p>
  </body>
</html>
```



Summary



Summary

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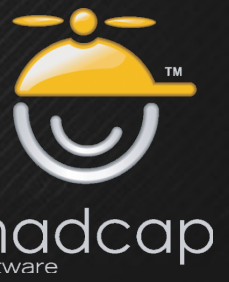
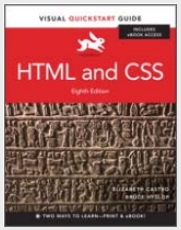
Addenda



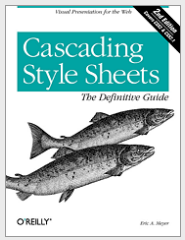
Suggested Reading List



HTML and CSS: Visual QuickStart Guide, 8th Edition
by **Elizabeth Castro**
ISBN-13: 978-0-321-92883-2

CSS To The Point
by **Scott DeLoach**
ISBN-13: 978-0-615-21213-5

Cascading Style Sheets: Designing for the Web (3rd Edition) (Paperback)
by **Hakon Wium Lie** and **Bert Bos**
ISBN-13: 978-0321193124



CSS: The Definitive Guide, Third Edition
by **Eric Meyer**
ISBN-13: 978-0596527334

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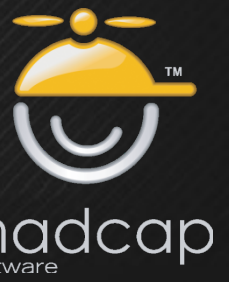

Questions?

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Thank You!

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