

# DEVELOPING FOR THE WEB

Designing with CSS

Presented by Jacques Walker

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## Course Objective

- Create a responsive HTML webpage which conforms to HTML 5 and CSS3 standards
- Define HTML 5
- Define “divs”
- Define CSS
- Make awesomeness

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## What is HTML 5?

- Quick History Lesson:  

- Same Syntax
  - <open tag>Stuff Inside</close tag>
  - Example:
    - <p>This is a paragraph tag with <b>this</b> bolded</p>
- Difference:
  - More Tags:
    - <header>, <footer>, <audio>, <video>, etc.
  - Removed Tags:
    - <frames>, <no frames>, <big>, <center>

[http://www.w3schools.com/html/html5\\_new\\_elements.asp](http://www.w3schools.com/html/html5_new_elements.asp)

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## What is a div

- Used for layout, placement and styling
- What about tables?
  - ▣ Advantages
  - ▣ Disadvantages
- General Syntax

- It's just HTML
- `<open>Content</close>`
- Example: `<div class=site_wrapper> Content </div>`



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## The HTML

```
<div class="site_wrapper">  
  <div class="header">  
    [VT Logo Image HTML] | Unit Header  
  </div>  
  <div class="navigation">  
    Content for class "navigation" goes here  
  </div>  
  <div class="img_header">  
    Page Header  
  </div>  
  <div class="content">  
    Content for class "content" Goes Here  
  </div>  
  <div class="footer">  
    Content for class "Footer" Goes Here  
  </div>  
</div>
```



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## So what's this CSS thing

- Cascading Style Sheet
- More History:  

```
graph LR; CSS1[CSS1] --> CSS2[CSS2]; CSS2 --> CSS3[CSS3];
```
- ▣ <http://www.w3schools.com/cssref/default.asp>
- Provides formatting of elements for the entire site
  - ▣ Links, fonts, headers, etc.
  - ▣ Change one and you've got them all
- Not a perfect science
  - ▣ Trial and error development
  - ▣ Flexible and extensive

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## General Syntax

- Basic Code Structure
  - Attribute [colon] followed by the modification [semi-colon]
    - Width Property Example
      - width: 800px;
- Declarations
  - Used with stylesheets
    - Classes: Preceded by a period (.header)
    - ID: Preceded by a pound sign (#header)
    - Tags: HTML Elements (img or p)
  - Example:
    - .header{
      - width: 800px;
    - }
    - 1<sup>st</sup>: Define the area
    - 2<sup>nd</sup>: List your changes

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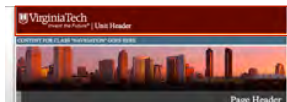
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## The ways of use

- Inline Styling
  - <div style="background-color: #660000; border-bottom: 5px solid #F66000"> | Unit Header</div>
- CSS – Classes and Elements
  - <div class="header"> | Unit Header</div>
  - .header{
    - background-color: #660000;
    - border-bottom: 5px solid #F66000;
  - }



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## Create Site in Dreamweaver

- Go to Shared Folder on Desktop
- Copy Exercise Site to your Desktop
- Open Dreamweaver
  - Create a new site



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## Setting Page Backgrounds

- Create a new page
  - Select File>New>Blank Page>HTML
    - Layout: None
    - DocType: HTML5
- Setting the Page Background
  - Click the Page Properties button
  - Set background properties



## Beginning the Process

- Inserting a Div
  - Select Insert>Layout Object>Div Tag
  - Click the New Rule Button



- Creating a New Stylesheet



## Responsive Designs

- Single Page which adjusts from desktop to mobile



- Key Factors


- Percent based width values
  - width: 100%; -vs- width: 950px;
- Minimalistic Designs
  - Content wells
  - White space

## Creating Site Wrapper

### □ Creating a Class Style

- Using the dialog box that appears add the information shown in Appendix A, **.site\_wrapper** [lines 1 – 20]
- Click Apply>OK>OK

### □ Extras

- Click the stylesheet button 
- Add the code from Appendix A, lines 21 and 22
  - Max-Width: Maximum width of the page
  - Box-Shadow: Creates a shadow effect around the div

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## Inserting the Header

- Highlight and delete the placeholder text.
- Insert>Layout Object>Div Tag>New CSS Rule
  - Sector Type: Class
  - Sector Name: header
    - See Appendix A, **.header** for Properties [Lines 25 – 41]
- Insert the Virginia Tech logo
  - Insert > Image
  - Select the vt\_logo.png, click OK
  - Add your unit header next to the image

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## Creating the Navigation

- Below the header Div add a new Div
  - Class Name: navigation
  - Properties: **.navigation** section of Appendix [42 – 55]

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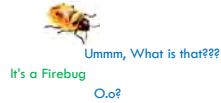
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## Creating the Image Header

- Below the Header Div add a new Div
  - ▣ Class Name: `img_header`
  - ▣ Properties: `.img_header` Section of Appendix [56 – 73]
  - ▣ Padding is a factor in heights and widths



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## Creating the Content Well

- Below the Navigation div add a Content Div
  - ▣ Class Name: `content`
  - ▣ Properties: `.content` section of Appendix A [74 – 86]
- Sometimes you have to stop and appreciate the little things
  - ▣ Min-height: sets the minimum height of a div

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## Creating the Footer & Finishing Up

- Below the Page\_Content Div add a new div
  - ▣ Class: `Footer`
  - ▣ Properties: `.footer` [87 – 102]

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## Closing Remarks

- **Firebug** 
  - A Firefox extension for CSS Manipulation
- **W3 Schools** 
  - CSS Reference Website
  - <http://www.w3schools.com>
- **University Relations Branding** 
  - Color Palette
    - <http://www.unirel.vt.edu/web/guidelines/web-palette/index.html>
  - Web Guidelines
    - <http://www.unirel.vt.edu/web/guidelines/index.html>
  - Branding Images
    - [http://www.branding.unirel.vt.edu/web\\_guidelines.php](http://www.branding.unirel.vt.edu/web_guidelines.php)

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## Need Help/More Info

- **Beyond the Basics Course Available**
- **Resources**
  - **Lynda.vt.edu**
    - [https://www.fdi.vt.edu/online-resources/support\\_skills/essential-skills.html](https://www.fdi.vt.edu/online-resources/support_skills/essential-skills.html)
    - Dreamweaver CS6 and CC(Creative Cloud) Essential Training
    - CSS Fundamentals
    - CSS: Core Concepts
  - **InnovationSpace**
    - 1140 Torgersen Hall

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