CSS and JavaScript Tips and Tricks for WebVoyage 7

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Tools

• Browsers

✓ Firefox  http://getfirefox.com

✓ Firebug  http://getfirebug.com

✓ Internet Explorer

<script type='text/javascript'
 src='http://getfirebug.com/releases/lite/1.2/firebug-lite-compressed.js'></script>

✓ IE Developer Toolbar
http://go.microsoft.com/fwlink/?LinkId=92716
Tools, continued

• Code Editor (Search & Replace / File Comparison)
  ✓ Syntax Highlighting
  ✓ Code Balancing
  ✓ Find & Replace (All)
  ✓ File Comparison
  ✓ Auto Indent
  ✓ Find & Replace Using GREP

Tools, continued

• Code Editors (Search & Replace / File Comparison)
  • BBEdit, FileMerge (OS X)
  • UltraEdit, Beyond Compare (Windows/Linux)

• Sources of free tools
  http://www.thefreecountry.com/programming/
Tools, continued

• XML Editors / XSLT Debuggers
  ▪ XML Spy (Windows)
  ▪ oXygen (Windows, OS X, Linux)
  ▪ EditiX (Windows, OX X, Linux, free)
  ▪ Cooktop (Windows, free)
  ▪ Komodo Edit (Windows, OS X, Linux, free)

Understanding CSS

Order by stylesheet type:
1. !important User style sheet
2. !important Author style sheet
3. Author style sheet
4. User style sheet
5. User Agent (browser) styles
### CSS Specificity Rules

<table>
<thead>
<tr>
<th>Selector</th>
<th>Example</th>
<th>Specificity</th>
</tr>
</thead>
<tbody>
<tr>
<td>!important</td>
<td>p { color: red !important; }</td>
<td>Beats everything!</td>
</tr>
<tr>
<td>inline</td>
<td><code>&lt;p style=&quot;color: blue;&quot;&gt;</code></td>
<td>1,0,0,0</td>
</tr>
<tr>
<td>id</td>
<td>p#my_id { color: purple; }</td>
<td>0,1,0,0</td>
</tr>
<tr>
<td>class</td>
<td>p.my_class { color: yellow; }</td>
<td>0,0,1,0</td>
</tr>
<tr>
<td>element</td>
<td>p { color: orange; }</td>
<td>0,0,0,1</td>
</tr>
<tr>
<td>universal</td>
<td>* { color: black; }</td>
<td>0,0,0,0</td>
</tr>
</tbody>
</table>

### Cascading Style Sheets

#### Specificity Examples

<table>
<thead>
<tr>
<th>CSS</th>
<th>Number and Type</th>
<th>Specificity</th>
</tr>
</thead>
<tbody>
<tr>
<td>p { color: red; }</td>
<td>One element</td>
<td>0,0,0,1</td>
</tr>
<tr>
<td>div p { color: orange; }</td>
<td>Two elements</td>
<td>0,0,0,2</td>
</tr>
<tr>
<td>.grape { color: purple; }</td>
<td>One class</td>
<td>0,0,1,0</td>
</tr>
<tr>
<td>* .bright { color: yellow;}</td>
<td>One class</td>
<td>0,0,1,0</td>
</tr>
<tr>
<td>div .bright p .grape</td>
<td>Two classes, two elements</td>
<td>0,0,2,2</td>
</tr>
<tr>
<td>#my_grape_id { color: blue;}</td>
<td>One id selector</td>
<td>0,1,0,0</td>
</tr>
<tr>
<td>div #sidebar .shiny { color: silver; }</td>
<td>One id selector, one class, one element</td>
<td>0,1,1,1</td>
</tr>
</tbody>
</table>
Cascading Style Sheets

Specificity Examples

<table>
<thead>
<tr>
<th>CSS Selector</th>
<th>Specificity</th>
</tr>
</thead>
<tbody>
<tr>
<td>h1 { color:red; }</td>
<td>0,0,0,1</td>
</tr>
<tr>
<td>body h1 { color:green; }</td>
<td>0,0,0,2</td>
</tr>
<tr>
<td></td>
<td>winner</td>
</tr>
<tr>
<td>h2.grape { color:purple; }</td>
<td>0,0,1,1</td>
</tr>
<tr>
<td>h2 { color:silver; }</td>
<td>0,0,0,1</td>
</tr>
<tr>
<td>body div p ul ol li.answer { color:red; }</td>
<td>0,0,1,6</td>
</tr>
<tr>
<td>li#answer { color:navy; }</td>
<td>0,1,0,1</td>
</tr>
<tr>
<td></td>
<td>winner</td>
</tr>
</tbody>
</table>

CSS Equal Specificity

- Equal specificity: the latest rule is the rule that is applied.
  
  *If you have the same rule in your stylesheet(s) twice, the last rule is deemed more specific.*

In `frameWork.css`, which loads first:

```css
#pageContainer { text-align: center; }
```

In `searchPages.css`, which loads later:

```css
#pageContainer { text-align: left; }
```
CSS Equal Specificity

p { color: red; background-color: yellow; }
p { color: green; }
<p>green text</p> green text

h1 { font-size: 1.5em; color: red; }
h1 { color: blue; font-size: 1.5em; }
<h1>blue text</h1> blue text

CSS Specificity Overview

Generally...
1. h1 { color: purple !important; }
2. <h1 style='color:red; '> (inline)
3. #id { color: blue; }
4. .class { color: green; }
5. h1 { color: yellow; }
http://www.w3.org/TR/CSS2/cascade.html
Positioning

Default is position: static;

Adding left: -50px; does nothing.
Positioning

Change to `position:relative`. `left: -50px;` now has an effect.
Notice that `main1` still has an effect on the flow.

Positioning

Change to `position:absolute`. `left: -50px;` still has an effect.
Notice that `main1` now has no effect on the flow and covers `main2`. 
Positioning

Change the parent, **main**, to **position:relative**.
Now main1's absolute is positioned within its parent.

```html
<style>
body { font-family:sans-serif; }
div#container { width:50%; }
div#main { border:1px solid blue; position:relative; }
div#main1 { background-color:#DEDEDE; position:absolute; }
div#main2 { background-color:#EEEEEE; }
div#main3 { background-color:#CCCCCC; }
</style>

<div id="container">
  <div id="main">This is the div before the main div. This is main1. It is the first div nested in main1.</div>
  <div id="main1">This is main1. It is the second div nested in main1. This is main2. It is the third div nested in main1. This is main3. It is the fourth div nested in main1. This is the div after main1.</div>
</div>
```

main1 text covers the text from main2 and main3 when using position:absolute.

---

Positioning

Change main1 from position:absolute to **float:left**;
Text from main1 no longer covers text in main2 and main 3.

```html
<style>
body { font-family:sans-serif; }
div#container { width:50%; background-color:#DEDEDE; }
div#main { border:1px solid blue; position:relative; }
div#main1 { background-color:#EEEEEE; float:left; width:50%; }
div#main2 { background-color:#CCCCCC; }
div#main3 { background-color:#BBBBBB; }
</style>

<div id="container">
  <div id="main">This is the div before the main div. This is main1. It is the first div nested in main1. This is main2. It is the second div nested in main1. This is main3. It is the third div nested in main1. This is the div after main1.</div>
  <div id="main1">This is main1. It is the second div nested in main1. This is main2. It is the third div nested in main1. This is main3. It is the fourth div nested in main1. This is the div after main1.</div>
</div>
```
Positioning

Add \texttt{float:left} to main2 and make it 50px wide. Notice the position of div id='after'.

Positioning

Add \texttt{clear:left} to the div id='after' to position it after main. Main is the parent of main1, main2, and main3.
Positioning

Add `float:left` and `width:50px` to main 3 to complete 3 columns. Notice the blank space to the right of main3.

```html
<style>
body { font-family: sans-serif; }
div#container { width:50%; }  
div#main1 { background-color:#cccccc; margin-left:0; position:relative; }  
div#main2 { background-color:#cccccc; margin-left:15%; position:relative; }  
div#main3 { background-color:#cccccc; margin-left:30%; position:relative; }  
</style>

<div id="container">
  <div id="before">This is the div before the main div.</div>
  <div id="main1">This is main1. It is the first div nested in main.</div>
  <div id="main2">This is main2. It is the second div nested in main.</div>
  <div id="main3">This is main3. It is the third div nested in main.</div>
  <div id="after">This is the div after the main div.</div>
</div>
```

### Positioning

Change main1, main2, & main3 widths to percentages to fill out div#main.

```html
<style>
body { font-family: sans-serif; }
div#container { width:50%; }  
div#main1 { background-color:#cccccc; margin-left:0; position:relative; }  
div#main2 { background-color:#cccccc; margin-left:15%; position:relative; }  
div#main3 { background-color:#cccccc; margin-left:30%; position:relative; }  
</style>

<div id="container">
  <div id="before">This is the div before the main div.</div>
  <div id="main1">This is main1. It is the first div nested in main.</div>
  <div id="main2">This is main2. It is the second div nested in main.</div>
  <div id="main3">This is main3. It is the third div nested in main.</div>
  <div id="after">This is the div after the main div.</div>
</div>
```
Positioning

Control column height with set amounts. Percentages for height work only if all parent containers have a height value on which to base the height.

CSS Tips

• Use **LVHA** for link styling
  
  Link styles should be put in the following order:
  **Link, Visited, Hover, Active**
  
  a:link, a:visited { text-decoration: none; }
  a:hover, a:active { text-decoration:underline; }
  
• Never use !important for specificity
• One unique id per page (for JavaScripts)
• div p {color:salmon;} ≠ div, p {color:salmon;}
XML / XSLT Tips

• Must be well-formed
  Every start tag <> has a corresponding end tag ///</>
  ✓<h1>some text</h1> non-empty elements
  ✓<br /> empty elements
  ✓<hr/> empty elements

• Must be nested properly
  <div><b><i>My Copy</b></i></div>

• Indentation will help humans (including yourself) understand your XML.

XML / XSLT Tips

• 5 predeclared special characters:
  ▪ &amp; (& or “ampersand”)
  ▪ &lt; (< or “less than”)
  ▪ &gt; (> or “greater than”)
  ▪ &apos; (‘ or “apostrophe”)
  ▪ &quot; (“ or “quotation mark”)

• disable-output-escaping="yes"
  <xsl:text disable-output-escaping="yes">&lt;</xsl:text> = <
JavaScript Tips

• Indent your code
• Comment your non-obvious code
• Use Firefox with FireBug for debugging
• Test for objects before using them!

function hideElement(my_element) {
    if(document.getElementById & document.getElementById(my_element)) {
        document.getElementById(my_element).style.visibility = 'hidden';
    } else {
        so something else...
    }
}

Check to make sure the browser understands this function.
Check to make sure the element exists.

Tricks
Ex Libris Default Skin

TCC Libraries, August 2008

[Diagram of library catalog interface]
2008-2009 Tarrant County College Catalog

Student Services

A Student Handbook is available here: Student Handbook.

Counseling Centers

At each campus, a qualified staff of counselors and advisors is available for consultation with students. Counselors are prepared to discuss matters of academic, career, and personal-social concern. Services are available during the day and evening hours. Admission and testing information are available in each campus Counseling Center.

As one portion of TCC’s advisement program, faculty, advisors, and counselors assist students in their programs of study. To comply with regulations of the Texas Success Initiative, all full-time college students must participate in the testing and advisement process. New students must complete admission processing prior to testing and advisement. Retuning and readmission students are urged to review their academic plans and consult with their program coordinator, counselor, or advisor prior to each registration.

Student Announcements

Announcements: The following questions may be asked:

Q: What is the value of the library?
A: The library is a valuable resource for students, faculty, and staff. It provides access to a wide range of materials and services, including books, journals, databases, and online resources. It is a place where students can study, research, and collaborate with others.

Q: How can I access the library online?
A: The library’s website offers a variety of resources and services, including online databases, e-books, and e-journals. You can access these resources by logging into the library’s website using your student ID number and password.

Q: Can you recommend a good book for my course?
A: Yes, we can recommend books based on your course requirements. Please ask a librarian for recommendations.

Q: How can I find a specific book in the library?
A: To find a specific book, use the library catalog. You can search by title, author, or keyword.

Q: How do I reserve a study room?
A: Study rooms can be reserved online through the library’s website. Please check the library’s website for availability and reservation instructions.

Q: Where can I find reference books?
A: Reference books are located on the main level of the library. They are organized by subject and are available for in-library use only.

Q: Can I check out materials from the library?
A: Yes, you can check out books, DVDs, and other materials from the library. You will need to present your student ID number to check out materials.

Q: How do I renew my library materials?
A: Library materials can be renewed online through the library’s website. Please check the library’s website for renewal instructions.

Q: What happens if I return materials late?
A: Late fees may be assessed for overdue materials. Please return materials promptly to avoid late fees.

Q: How can I get help with my research?
A: The library’s research desk is available to assist you with your research questions. Librarians are available to help you find resources and answer your questions.

Q: Can I use the library’s printing and copying services?
A: Yes, the library offers printing and copying services. Please check the library’s website for hours and rates.

Q: How can I access the library’s online resources?
A: The library’s website offers a variety of online resources, including databases, e-books, and e-journals. You can access these resources by logging into the library’s website using your student ID number and password.

Q: Where can I find the library’s event schedule?
A: The library’s website offers a schedule of events and activities. Please check the library’s website for a current schedule.

Q: How can I contact the library?
A: You can contact the library by phone or email. The library’s website provides contact information, including phone numbers and email addresses.

The library is a valuable resource for students, faculty, and staff. It provides access to a wide range of materials and services, including books, journals, databases, and online resources. It is a place where students can study, research, and collaborate with others.
Page Flow

• Using large margins to force elements up/down or left/right

• This would be easier if everything flowed
  Top  Left ➔ Right
  ➔ Bottom
Add Style Sheets

- Used the same stylesheet names
- Started with frameWork.css
- Copied & pasted what I needed from Mel’s
- Copied & pasted from design company
- Left out some style sheets (e.g. header.css)
- Added 2 major div elements
  - `<div id='sidebar'>`
  - `<div id='contentWrapper'>`
WebVoyage Default

- pageContainer
  - pageHeader
  - mainContent
  - pageFooter
Tarrant County College

- pageContainer
  - pageHeader
  - mainContent
    - sidebar
    - contentWrapper
  - pageFooter
CSS Tips

- **padding applies within a block**
- **margin applies outside a block**

- `display:none;` removes the block from the flow
- `visibility:hidden;` does not remove the block

- `<div style='display:inline;'>` = `<span>`
- `<span style='display:block;'>` = `<div>`
Session timeout

- Takes over the browser
- Doesn’t provide the user with options
- Pop-up blockers may block it
- Always tells the user there are 2 minutes left

Session timeout

- Does not take over the browser
- Provides the user with options
- Pop-up blockers will not block it
- Users can drag it and see through it
- Counts down the number of seconds left
Session Timeout

1. [http://lib-serv.tccd.edu/code/webvoyage/](http://lib-serv.tccd.edu/code/webvoyage/)
2. Copy tcc_timeout_javascript.js to javascripts/
3. Copy tcc_timeout_stylesheets.css to css/
4. Back up footer.xsl
5. Edit footer.xsl
6. Back up frameWork.xsl
7. Edit frameWork.xsl

---

xsl/pageFacets/footer.xsl

```xml
...copyright notice...
</xsl:for-each>
<!--- Timeout --------------- -->
<div id="tcc_timeout_container">
  <div id="tcc_timeout_title">Session Timeout</div>
  <div id="tcc_timeout_message"></div>
  <div id="tcc_timeout_page_refresh">
    <script type="text/javascript">
      document.write("<a href=" + window.location.href + "&">Continue Session</a>");
    </script>
  </div>
  <a href="/webv/exit.do">New Session</a>
</div>
<script type="text/javascript">
  var dragBase = document.getElementById("tcc_timeout_container");
  var dragHandle = document.getElementById("tcc_timeout_title");
  tccDrag.init(dragBase, dragHandle, '400px', '250px');
</script>
<!--- Timeout --------------- -->
</xsl:template>
```
<script type="text/javascript">var msg;
var timeOut;
var seconds;
function timedMsg(time, grace, txtMsg)
{
    msg = txtMsg;
    timeOut = (time - grace) * 60000;
    seconds = grace * 60;
    //setTimeout("alert(msg)", timeOut);
    setTimeout("tcc_display_timeout(msg)", timeOut);
}
</script>

... more code here...

<xsl:copy-of select="$myCSS"/>
<style type="text/css" media="screen,print">
@import "xsl:value-of select="$css-loc"/tcc_timeout_stylesheets.css";
</style>
<xsl:text disable-output-escaping = "yes">&lt;!--[if IE]&gt;&lt;/xsl:text>
Session timeout

- Change colors and other style elements in tcc_timeout_stylesheets.css
- Change size in footer.xsl:

  tccDrag.init(dragBase, dragHandle, '400px', '250px');

---

jscripts/highlight.js

A bird in the hand...
A bird in the hand

- Highlights within quotation marks.
- Only highlights words surrounded by spaces or plural.
- Highlights words over 1 character in length.
- Will not highlight words in the stop_words array.

1. [http://lib-serv.tccd.edu/code/webvoyage/highlight](http://lib-serv.tccd.edu/code/webvoyage/highlight)
2. Back up highlight.js
3. Drop in the new highlight.js

- Compares search terms to a list of words we do not want highlighted.
- Each word must be contained in single quotes
- Put commas between words only

```javascript
var stop_words = new Array
('is','to','the','for','in','and','with','from');
```
Opposing viewpoints in social issues

Title: Opposing viewpoints in social issues / William Dudley, book editor.
Other Author(s): Dudley, William, 1954-
ISBN: 07879/228 (p bk. : ak. paper)
07879/234 (lr bkg. : ak. paper)
Description: 390 p. ; 22 cm.
Format: Book
Contents: Opposing viewpoints series
Series:
Subjects: Social problems.
Summary: Includes bibliographical references (p. 338-347) and index.

Holdings Information
Location: Northeast Library Circulating Collection
Call Number: HN59 2, 3924 2000
Number of Items: 1
Status: 0.1 Charged - Due on 05-09-2009
Location: Northwest Library Circulating Collection
Call Number: HN59 2, 3924 2000
Number of Items: 1
Status: Available
Location: Southeast Library Circulating Collection
Call Number: HN59 2, 3924 2000
Number of Items: 1
Status: Available

http://exlibrisgroup.org/display/Voyager/WebVoyage+7+(Tomcat)+Toggle+Record+Display+Fields

Back up displayCommon.css
At the end of displayCommon.css, add:

.fieldLabelSpan { cursor:pointer; }
jscripts/highLight.js

Back up highLight.js (any JavaScript file loaded by holdingsInfo)
At the end of highLight.js, add:

```javascript
function tcc_toggle(elementName) {
    if(document.getElementById && document.getElementById(elementName)) {
        if(document.getElementById(elementName).style.display == 'none') {
            document.getElementById(elementName).style.display = 'block';
        } else {
            document.getElementById(elementName).style.display = 'none';
        }
    }
}
```

xsl/contentLayout/display/display.xsl

```xml
<xsl:when test="string-length($displayData)">
    <div class="fieldLabel">
        <span class="fieldLabelSpan">
            <xsl:choose>
                <xsl:when test="string-length(@label)">
                    <a>
                        <xsl:attribute name="onclick">
                            tcc_toggle('{$displayData/@label}');
                        </xsl:attribute>
                        <xsl:attribute name="title">
                            Hide or Show
                        </xsl:attribute>
                        <xsl:value-of select="@label"/>
                    </a>
                </xsl:when>
            </xsl:choose>
        </span>
    </div>
</xsl:when>
```

(continued on next slide...)
xsl/contentLayout/display/display.xsl

(...continued from last slide)

    <xsl:otherwise>
        </xsl:otherwise>
    </xsl:choose>
</span>
</div>
<div class="fieldData">
  <xsl:attribute name="id">
  <xsl:value-of select="@label"/>
  </xsl:attribute>
  <xsl:copy-of select="$displayData"/>
</div>
</xsl:when>

<li class="bibTag">
  <div class="fieldLabel">
    <span class="fieldLabelSpan">Title:</span>
  </div>
  <div class="fieldData">
    <span class="subfieldData">
        Opposing viewpoints in social issues / William Dudley, book editor.<br>
    </span>
  </div>
</li>
webvoyage.properties

page.search.basic.title=WebVoyage Basic Search
page.search.basic.heading=Basic Search

page.search.basic.title=TCC Libraries Basic Search
page.search.basic.heading=
    Home > Libraries > Find Books > Search
function createBreadCrumbs() {
    var oPath = new String(window.location.pathname);
    if(oPath.indexOf("vwebv/search") > 0 || oPath.indexOf("vwebv/enterCourse") > 0 || oPath.indexOf("vwebv/my") > 0 || oPath.indexOf("vwebv/holdings") > 0) {

        if(document.getElementById("pageHeadingTitle") && document.getElementById("pageTitle").innerHTML) {
            var sPageHeadingTitle = document.getElementById("pageTitle").innerHTML;
            var oString = new String(sPageHeadingTitle);

            oString = oString.replace("Home", "<a href='http://www.tccd.edu'>Home</a>");
            oString = oString.replace("Libraries", "<a href='http://library.tccd.edu'>Libraries</a>");
            oString = oString.replace("Find Books", "<a href='http://vwebv/searchBasic'>Find Books</a>");

            document.getElementById("pageTitle").innerHTML = oString.valueOf();
        }
    }
}
<body class="frameWorkUI" onLoad="
setFocus('/page:page/@nameld')
{$highlightNodes};
timedMsg({$timeout}, {$grace}, '{$timeoutMessage'});
createBreadCrums();">

<include src="frameWorkUI.html"/>
</body>
http://exlibrisgroup.org/display/Voyager/New+Books+RSS+Feed+Embedded+in+Search+Page
new_books_mini.cgi in Firefox

Tarrant County College Libraries New Books
Random new titles available at TCC libraries.

Northeast Library Circulating Collection
Mon, Apr 27, 2009 4:00 AM

Following the rhythms of life : the ceramic art of David Shanan ; edited by Peter Held ; essays by Jack Troy, Peter Held ; with contributions by Conan Putnam, Melva Walker.
Northeast Library Circulating Collection
Mon, Apr 27, 2009 4:00 AM

Grandpa, is everything black bad? / story by Sandy Lynne Holman ; illustrated by Lela Kometani.
South Library Circulating Collection
Mon, Apr 27, 2009 4:00 AM

New tech, new ties : how mobile communication is reshaping social cohesion / Rich Ling.
Southeast Library Circulating Collection
Mon, Apr 27, 2009 4:00 AM
xsl/pageTools/tools.xsl

<xsl:variable name="lowercase" select="'abcdefghijklmnopqrstuvwxyz'" />
<xsl:variable name="uppercase" select="'ABCDEFGHIJKLMNOPQRSTUVWXYZ'" />
<xsl:variable name="NewBooks"
    select="document('http://your.library.domain/vwebv/new_books_mini.cgi')"/>
<xsl:variable name="new_books" select="$NewBooks/rss/channel"/>

<xsl:if test="$Configs/pageConfigs/pageHTML/page\[@name=$pageNameId\][@position=$position]">
    <div class="pageHTMLsnippet">
        <xsl:copy-of select="$Configs/pageConfigs/pageHTML/page\[@name=$pageNameId\][@position=$position]/node()"/>
    </div>
    <div id="new_books">
        <ul>
            <xsl:for-each select="$new_books/item">
                <li>
                    <xsl:attribute name="class"><xsl:value-of select="description"/></xsl:attribute>
                    <a>
                        <xsl:attribute name="href"><xsl:value-of select="link"/></xsl:attribute>
                        <xsl:attribute name="title"><xsl:value-of select="description"/></xsl:attribute>
                    </a>
                </li>
            </xsl:for-each>
        </ul>
    </div>
</xsl:if>
Numbered Search Results

First page of results, 25 results per page

1. Corrosion of Medicine: Can the Profession Reclaim Its Moral Legacy? 
   Greyman, John, M.D. / Angell, Marcia (FRW) 
   No call number 
   no item information, Northeast Library Circulating Collection

2. Medicine meets virtual reality 14 [electronic resource]: accelerating 
   change in healthcare: next medical toolkit / edited by James D. 
   Westwood ... [et al.] 
   Medicine Meets Virtual Reality (14th : 2006) 
   2006 
   List of Titles in the ebrary E-Book Collection 
   no item information, Electronic Resource

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