

CIS 4004: Web Based Information Technology Fall 2013

Inside HTML5 – Part 2

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Inside HTML5 – Part 2



- In the first section of these notes, we looked at several new HTML5 elements that were not part of either XHTML or HTML4. Those new elements dealt with the main structure of the page.
- In this second section of notes, we'll look at some more new HTML5 elements as well as some elements that were part of XHTML and HTML4 that have been redefined in HTML5.
- The elements in this section of notes are known as *grouping* or *text-level* elements and deal with the content of the page.



Marking Up Figures And Captions

- The new HTML5 `figure` element allows you to wrap an image and give it a description.
- Previously, you would have had to use a `div` or something similar and then add the text to the page, and doing this meant that there was no semantic link between the image and the caption.
- The `figure` element does not always have to include an image; it can be used for sections of code, tabular data, audio, or video. Typically, though, `figure` would be used for an image.
- The markup on the following page illustrates an example.



```
File Edit Search View Encoding Language Settings Macro Run Plugins Window ? X
[Icons]
figure element example 1.html x
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="utf-8" />
5     <title> The figure element in HTML5 </title>
6 </head>
7 <body>
8     <figure>
9         
10        <figcaption>
11            Tom Boonen in 2010
12        </figcaption>
13    </figure>
14    <figure>
15        
16        <figcaption>
17            Tom Boonen on September 20, 2012 preparing for World Championships in Holland
18        </figcaption>
19    </figure>
20 </body>
21 </html>
```


Hyper Text Markup Language length : 548 lines : 21 Ln : 1 Col : 1 Sel : 0 | 0 Dos\Windows ANSI as UTF-8 INS




The figure element in HTML5

file:///F:/CIS%204004%20-%20Fall%202013/cor Google

WebCourses Apple Yahoo! Google Maps YouTube Wikipedia News (10)



Tom Boonen in 2010



Tom Boonen on September 20, 2012 preparing for World Championships in Holland



Marking Up Figures And Captions

- There has been some discussion on the W3C forums as to whether an `alt` text (the text alternative for browsers that does not support graphics) is still needed in a `figure` element.
- Outside of a `figure` element, an `img` element always needs an `alt` attribute. If the image is purely presentation and it does not need to be identified by assistive technology, then an empty `alt` attribute can be applied.
- With a `figure` element, if the caption is a suitable description, then no `alt` is needed. However, because of lack of browser and assistive technology support, this currently hinders accessibility.
- I would suggest erring on the side of caution here and always provide an `alt` attribute



Marking Up Figures And Captions

- You are not limited to a single image with a `figure` element; you can use the `figure` element to display multiple images.
- The markup on the next page illustrates such an example.
- The use of a `figcaption` element is not always required. If the image is for purely presentational reasons, then just use a normal `img` element. However, if it has additional information and is beneficial to the content, then it would likely require a description to go with it, so in these cases, use `figure` and `figcaption`.
- A `figure` element can have only one `figcaption` element.
- If you include a `figcaption`, it must be either the first or last element of the encompassing `figure` element.



```
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
figure element example 1.html x figure element example 2.html x
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="utf-8" />
5     <title> The figure element in HTML5 </title>
6     <style>
7     <!--
8         .img { position:relative; float:left; margin:10px;}
9         .figcaption {text-align:center; }
10    -->
11 </style>
12 </head>
13 <body>
14 <figure>
15     
16     
17     <figcaption>
18         Tom Boonen through the years.
19     </figcaption>
20 </figure>
21 </body>
22 </html>
```

Hyper Text Markup Language length : 541 lines : 22 Ln : 1 Col : 1 Sel : 0 | 0 Dos\Windows ANSI as UTF-8 INS




Marking Up Figures And Captions

The figure element in HTML5

file:///F:/CIS%204004%20-%20Fall%20 Google

WebCourses Apple Yahoo! Google Maps YouTube Wikipedia



Tom Boonen through the years.



The `time` Element

- The `time` element allows you to code dates and times that are readable by machines but are displayed to users in a readable fashion.
- You can timestamp things such as publishing dates or events that can populate other technologies, such as a calendar.
- The `time` element is intended to show precise dates, such as “27th August 2013,” not vague dates such as “some point in 2013.”
- The `datetime` attribute (see next page) must be in the format of the Gregorian calendar: YYYY-MM-DD, with time coded as T00:00.



The time Element

- The `time` element has two optional attributes:
 - `datetime`: The end user will see the content inside the `time` element, but a machine will be able to read the `datetime` value: `datetime="2013-08-27T13:00Z"`. The time part of this value (T13:00) is optional. You can also add a time zone offset: `T13:00+04:00`. The "Z" represents Universal Coordinated Time (UTC), which is the same as adding a time zone offset of `+00:00`.
 - `pubdate`: This is a boolean attribute. It indicates the date, and possible time, of the publication of its nearest parent `article` element. If there is no parent `article` element, then the `pubdate` refers to the whole document. Each `article` must have only one `time` element with a `pubdate`.
- See the markup on the next page for some examples.



```
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
figure element example 1.html x figure element example 2.html x time element example.html x
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8" />
5   <title> Using the time element </title>
6 </head>
7 <body>
8   <article>
9     <h2>Train Schedule</h2>
10    <p>The train arrives at <time>08:45</time> on <time>2013-08-27</time></p>
11  </article>
12  <article>
13    <h2>Avalanche in Nepal</h2>
14    <p> An avalanche on Manslu mountain in Nepal has killed 11 mountaineers.</p>
15    <footer>
16      <p>This news article was published on <time datetime="2012-09-24T13:25">
17        25th September 2012 at 1:25pm</time>
18      </p>
19    </footer>
20  </article>
21  <article>
22    <h2>Dinner Reservations</h2>
23    <p>We have dinner reservations for <time datetime="2013-08-26T23:00-04:00">
24      tonight at 7:00 pm</time>
25    </p>
26  </article>
27 </body>
28 </html>
```

Hyper Text Markup Language length : 749 lines : 28

Ln: 1 Col: 16 Sel: 0 | 0

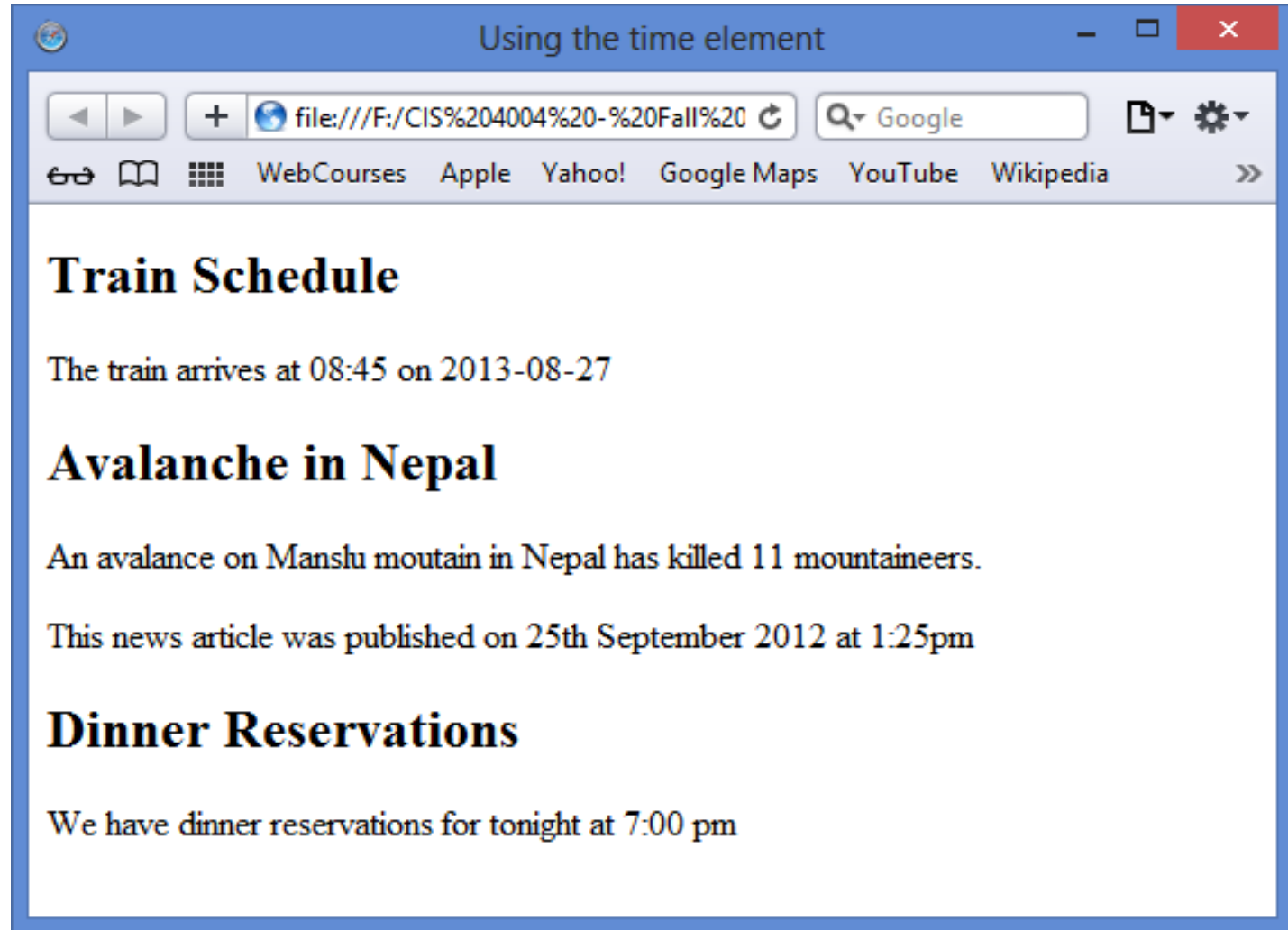
Dos\Windows

ANSI as UTF-8

INS



The time Element



The `time` Element

- The `time` element's time is based on a 24-hour clock with an optional time-zone offset from UTC.
- Times may be stated as: `YYYY-MM-DDThh:mm:ss` or `YYY-MM-DDThh:mm.sss`. The second form allowing for millisecond precision. Note the period before the milliseconds not a colon as with seconds.
- The time-zone offset can be either positive or negative from UTC. See the example on the previous page which uses current DST in eastern United States as being `UTC-04:00`.
- If you use `time` with `pubdate` to indicate an article's publication date, it's common, but not mandatory to place it in either a `header` or `footer` element of the `article` element.
- You may not nest a `time` element inside another `time` element.



Marking Important And Emphasized Text

- The HTML5 elements `strong`, `em`, `b`, and `i` all appeared in XHTML and earlier versions of HTML, but the `b` and `i` elements have been redefined in HTML5.
- Semantically, the `strong` element denotes important text, while `em` conveys emphasis. They can be used individually or together as your content requires.
- You may nest `strong` text inside a phrase that is also marked with `strong`. If you do, the importance (semantically) of `strong` text increases each time it's a child of another `strong`. The same is true for `em`. See the example on the next page.
- DO NOT use the `b` and `i` elements as replacements for `strong` and `em`. Although they may look similar in a browser, their meanings are very different.

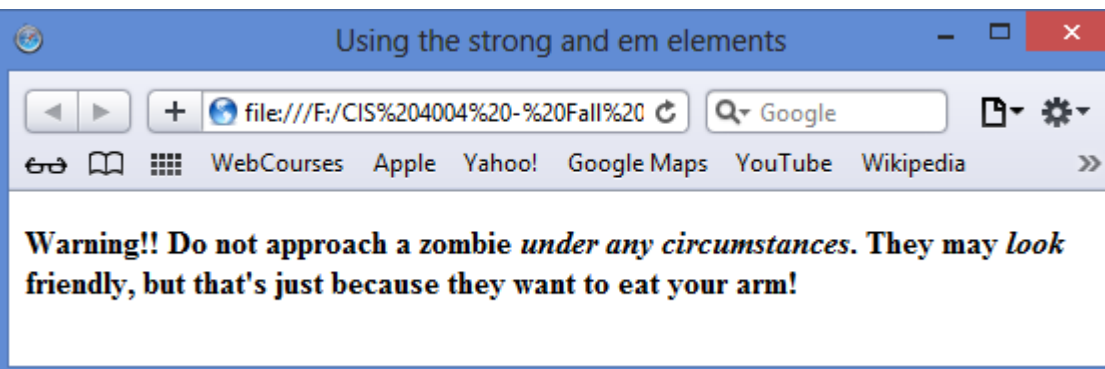


File Edit Search View Encoding Language Settings Macro Run Plugins Window ?



figure element example 1.html x figure element example 2.html x time element example.html x strong and emphasis example.html x

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8" />
5   <title> Using the strong and em elements </title>
6 </head>
7 <body>
8   <article>
9     <p><strong>Warning!! Do not approach a zombie <em>under any circumstances</em>.
10     They may <em>look</em> friendly, but that's just because they want
11     to <strong>eat</strong> your arm!
12   </strong>
13 </p>
14 </article>
15 </body>
16 </html>
```



Hyper Text Marku length: 401 lines: 16

Ln: 1 Col: 1 Sel: 0|0

Dos\Windows

ANSI as UTF-8

INS



Marking Important And Emphasized Text

- The `b`, and `i` elements have been redefined in HTML5 since `strong` and `em` are not always semantically correct.
- Some typographic conventions in traditional publishing fall through the cracks of available HTML semantics. Among these are italicizing certain scientific names, named vehicles (e.g. “We rode the *Orient Express*.”), and foreign (to English) language phrases (e.g., “they exhibited a *joie de vivre* that was infectious.”). These terms aren’t italicized for emphasis, just stylized per convention.
- Rather than create several new semantic elements to address cases like these, HTML5 took the practical approach and redefined the `b` and `i` elements to handle this “through the cracks” cases.



Marking Important And Emphasized Text

- The notion is that although `b`, and `i` don't carry explicit semantics, the reader will recognize that a difference is implied because they differ from the surrounding text.
- You can still change their appearance from bold and italics with CSS.
- HTML5 emphasizes that you use `b` and `i` only as a last resort when another element (such as `strong`, `em`, `cite`, and others) won't do.
- The “official” use of the `b` and `i` elements in HTML5 are shown on the next page.



Marking Important And Emphasized Text

The **b** element represents a span of text to which attention is being drawn for utilitarian purposes without conveying any extra importance and with no implication of an alternate voice or mood, such as key words in a document abstract, product names in a review, actionable words in interactive text-driven software, or an article lede.

The **i** element represents a span of text in an alternative voice or mood, or otherwise offset from the normal prose in a manner indicating a different quality of text, such as a taxonomic designation, a technical term, an idiomatic phrase from another language, a thought, or a ship name in western texts.



Highlighting Text With The `mark` Element

- Everyone has probably used a highlighter pen at some point. You used it to mark key words or phrases that were relevant, perhaps when you were studying for an exam.
- HTML5 replicates this with the new `mark` element. Think of `mark` as a semantic version of a highlighter pen. In other words, what's important is that you're noting certain words; how they appear is irrelevant.
- Style the highlighted text as you please with CSS (or not at all), but use `mark` only when its pertinent to do so.
- Use the `mark` element when you want to draw a reader's attention to a particular text segment.
- The example on the next page illustrates the `mark` element.



```

1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="utf-8" />
5      <title> Using the mark element </title>
6  </head>
7  <body>
8      <article>
9          <p>It's bad practice to use a class name that describes how an element should
10             look, such as the highlighted portion of CSS below:
11             <pre>
12                 <code>
13                     <mark> .greenText</mark> { color: green; }
14                 </code>
15             </pre>
16          </p>
17      </article>
18      <hr />
19      <article>
20          <p>So, I went back and read the instructions myself to see what I'd done wrong.
21             They said:
22             <pre>
23                 <blockquote>
24                     <p>Remove the tray from the box. Pierce the overwrap several times with a
25                         fork and cook on High for <mark>15 minutes</mark>, rotating it half way
26                         through.
27                     </p>
28                 </blockquote>
29             <p>I thought she'd told me <em>fifty</em> minutes. No wonder it exploded all
30             over the microwave.
31             </p>
32          </article>
33 </body>
34 </html>

```

Hyper Text Marku length : 893 lines : 34

Ln: 1 Col: 1 Sel: 0 | 0

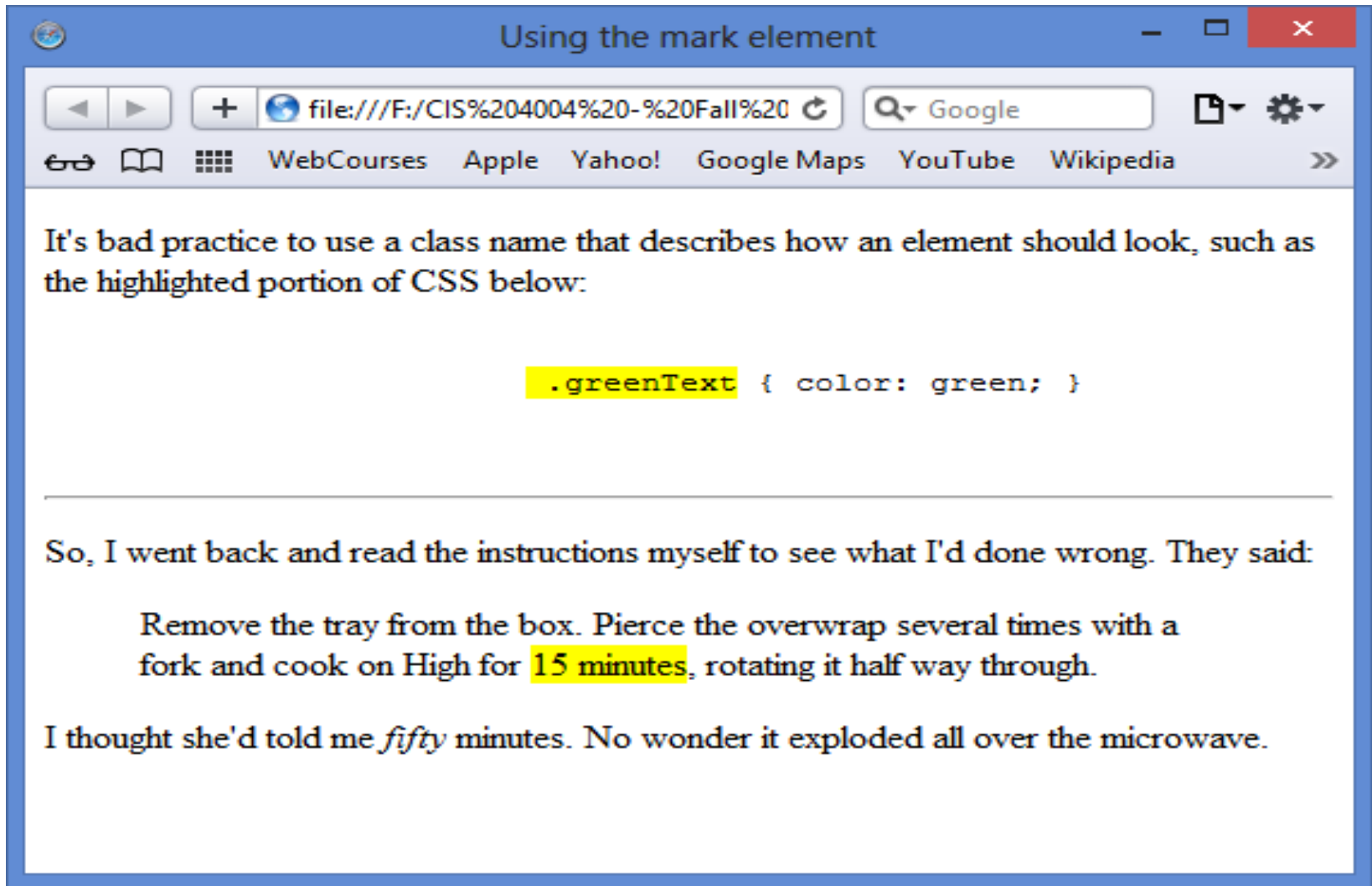
Dos\Windows

ANSI as UTF-8

INS



Highlighting Text With The `mark` Element



The screenshot shows a web browser window with the title "Using the mark element". The address bar contains the file path "file:///F:/CIS%204004%20-%20Fall%20". The search bar contains "Google". The browser's navigation bar includes "WebCourses", "Apple", "Yahoo!", "Google Maps", "YouTube", and "Wikipedia".

The main content area contains the following text:

It's bad practice to use a class name that describes how an element should look, such as the highlighted portion of CSS below:

```
.greenText { color: green; }
```

So, I went back and read the instructions myself to see what I'd done wrong. They said:

Remove the tray from the box. Pierce the overwrap several times with a fork and cook on High for 15 minutes, rotating it half way through.

I thought she'd told me *fifty* minutes. No wonder it exploded all over the microwave.



Highlighting Text With The `mark` Element

- The second `article` element in the markup on the previous page illustrates a less common usage of the `mark` element. In this case, the phrase “15 minutes” was not highlighted in the instructions on the original packaging. Instead, the author uses the `mark` element to call out the phrase as part of the story.
- Since the `mark` element is a new HTML5 element, older browsers don't render a background color by default. You can instruct them to do so via CSS by adding: `mark {background-color: yellow;}` to your stylesheet.
- Be sure not to use `mark` simply to give text a background color or other visual treatment. It all you're looking for is a means to style text and there is no proper semantic HTML5 element with which to wrap it, use the `span` element and style it with CSS.



Noting Edits and Inaccurate Text

- Sometimes you might want to indicate content edits that have occurred since the previous version of your page, or mark up text that is no longer accurate or relevant.
- There are two new elements in HTML5 for denoting edited content: `ins` and `del`, and one element denoting content that is no longer accurate or relevant: `s`.
- The `ins` element represents content that has been added to a page, and the `del` element represents content that has been removed from a page. The `s` element represents content that is no longer accurate or relevant. Think `s` for “strike”.
- Before we explore the semantic differences between `del` and `s`, let’s look at a couple of examples.




```
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
time element example.html strong and emphasis example.html mark example.html using ins and del - original.html
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="utf-8" />
5     <title> Using del, ins, and s elements - Before Changes </title>
6 </head>
7 <body>
8     <article>
9         <h2> Charitable Gifts Wishlist</h2>
10        <p> Please consider one or more of the following items to our community center</p>
11        <ul>
12            <li> 2 desks </li>
13            <li> whiteboard with markers </li>
14            <li> 3 laptop computers</li>
15            <li> bicycle</li>
16            <li> coffee maker</li>
17        </ul>
18    </article>
19 </body>
20 </html>
```

Hyper Text Marku length : 501 lines : 20

Ln : 1 Col : 1 Sel : 0 | 0

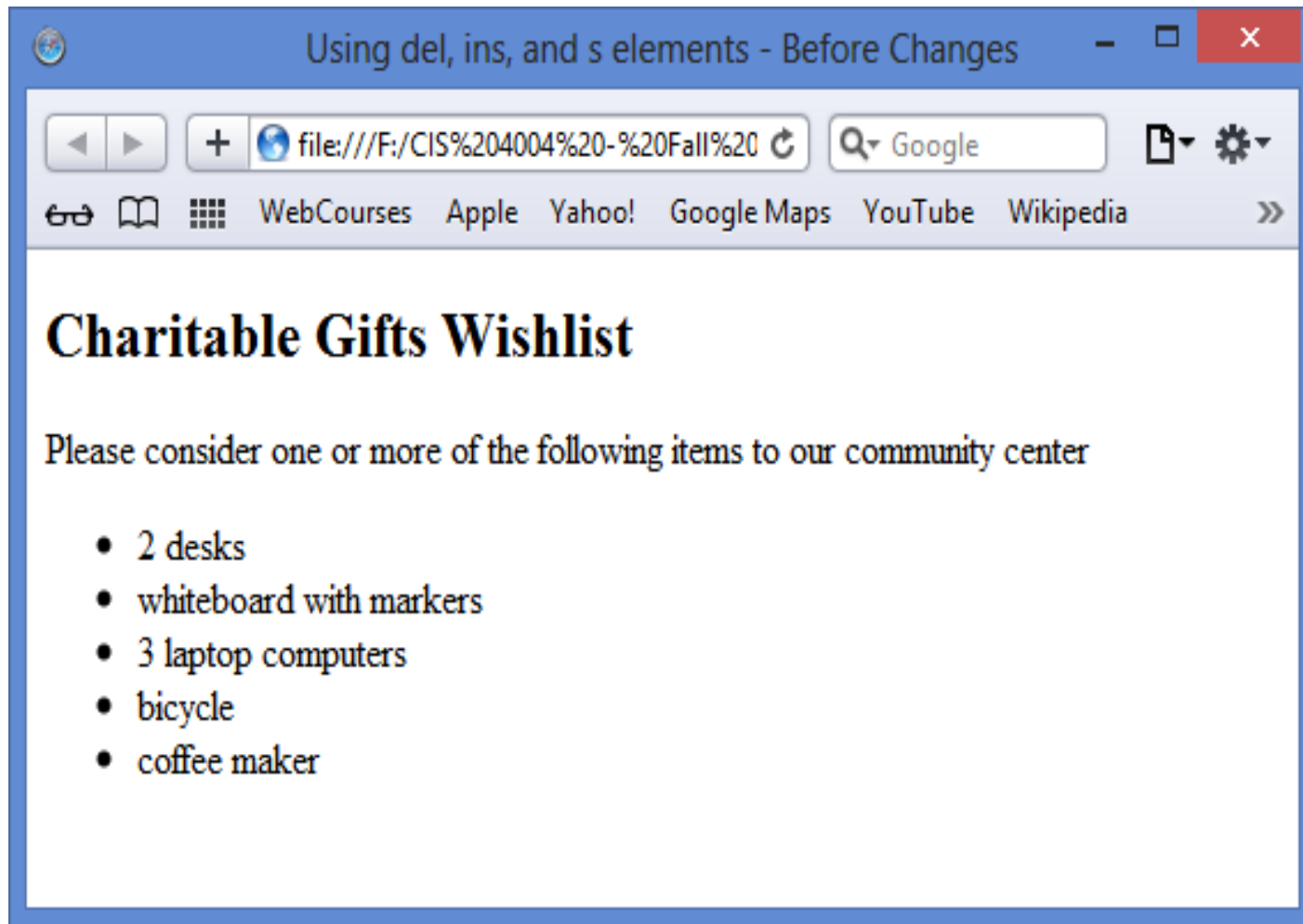
Dos\Windows

ANSI as UTF-8

INS



Noting Edits and Inaccurate Text





```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8" />
5   <title> Using del, ins, and s elements - After Changes to markup version 1 </title>
6 </head>
7 <body>
8 <article>
9   <h2> Charitable Gifts Wishlist</h2>
10  <p> Please consider one or more of the following items to our community center</p>
11  <ul>
12    <li> <del>2 desks</del> </li>
13    <li> whiteboard with markers </li>
14    <li> <del>3 laptop computers</del></li>
15    <li> bicycle</li>
16    <li> coffee maker</li>
17    <li><ins>coffee mugs</ins></li>
18  </ul>
19 </article>
20 </body>
21 </html>
```


<ins>



Noting Edits and Inaccurate Text

Using del, ins, and s elements - After Changes to markup versio...

file:///F:/CIS%204004%20-%20Fall%20 Google

WebCourses Apple Yahoo! Google Maps YouTube Wikipedia

Charitable Gifts Wishlist

Please consider one or more of the following items to our community center

- ~~2 desks~~
- whiteboard with markers
- ~~3 laptop computers~~
- bicycle
- coffee maker
- coffee mugs

Deleted content

Inserted content

The screenshot shows a web browser window with a blue title bar. The address bar contains a file path and a search box with 'Google'. Below the address bar is a navigation bar with icons for back, forward, and search, and a list of search engines: WebCourses, Apple, Yahoo!, Google Maps, YouTube, and Wikipedia. The main content area has a heading 'Charitable Gifts Wishlist' and a paragraph 'Please consider one or more of the following items to our community center'. Below this is a bulleted list of items. Two items are crossed out with a red line: '2 desks' and '3 laptop computers'. A grey box labeled 'Deleted content' has lines pointing to these two items. The item 'coffee mugs' is underlined. A grey box labeled 'Inserted content' has a line pointing to this item.



```

File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
mark.example.html x using ins and del - original.html x using ins and del - afterwards V1.html x using ins and del - afterwards V2.html x
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="utf-8" />
5     <title> Using del, ins, and s elements - After Changes to markup version 2 </title>
6 </head>
7 <body>
8     <article>
9         <h2> Charitable Gifts Wishlist</h2>
10        <del>
11            <p>Please consider one or more of the following items to our community center</p>
12        </del>
13        <ins>
14            <p>Please note that all gifts have been purchased.</p>
15            <p>Thank you <em> so much!</em> for your generous donations.</p>
16        </ins>
17        <del>
18            <ul>
19                <li> <del>2 desks</del> </li>
20                <li> whiteboard with markers </li>
21                <li> <del>3 laptop computers</del></li>
22                <li> bicycle</li>
23                <li> coffee maker</li>
24                <li> <ins>coffee mugs</ins></li>
25            </ul>
26        </del>
27    </article>
28 </body>
29 </html>

```

Hyper Text Marku length : 798 lines : 29

Ln: 1 Col: 1 Sel: 0 | 0

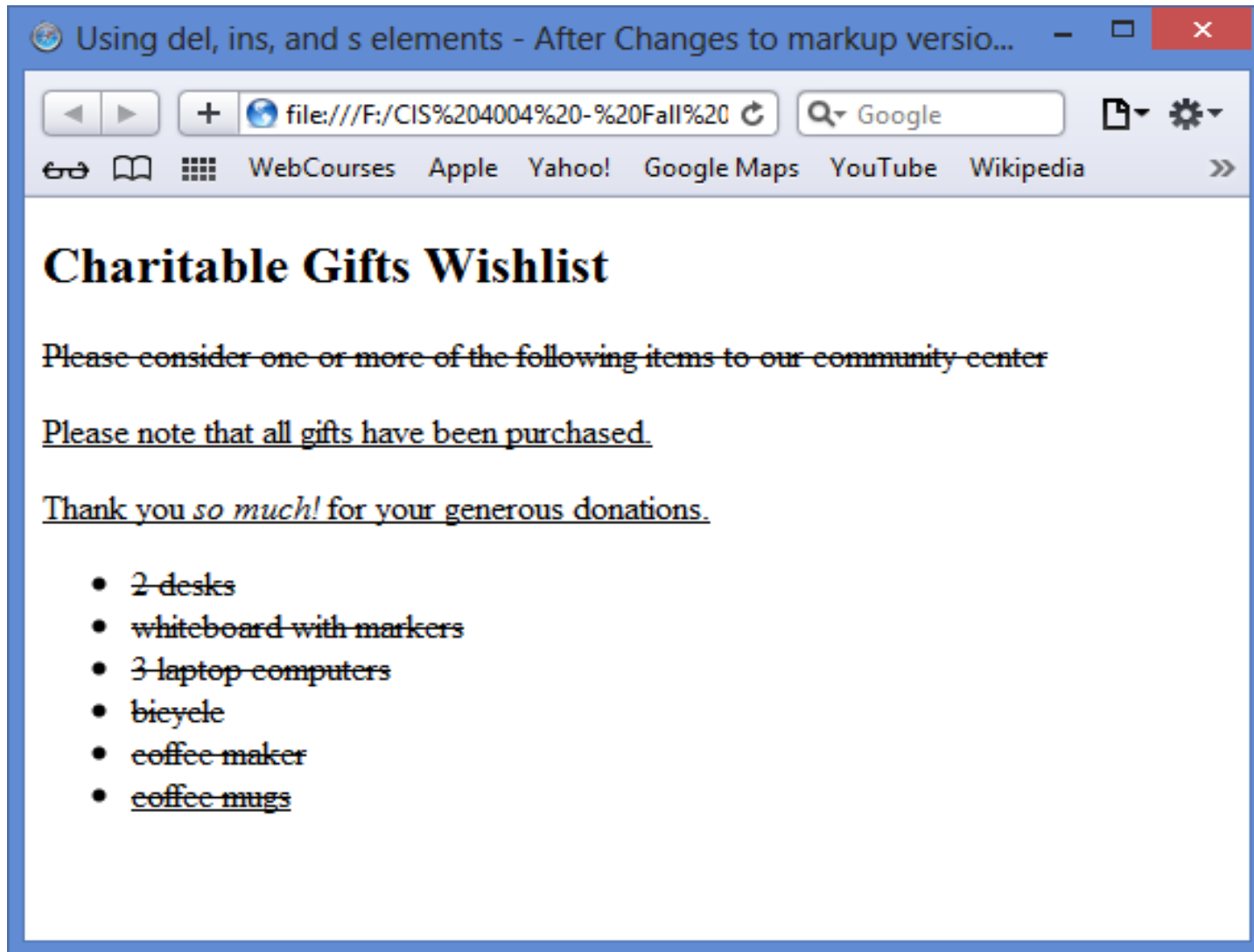
Dos\Windows

ANSI as UTF-8

INS



Noting Edits and Inaccurate Text



Using del, ins, and s elements - After Changes to markup versio...

file:///F:/CIS%204004%20-%20Fall%20 Google

WebCourses Apple Yahoo! Google Maps YouTube Wikipedia

Charitable Gifts Wishlist

~~Please consider one or more of the following items to our community center~~

Please note that all gifts have been purchased.

Thank you *so much!* for your generous donations.

- ~~2 desks~~
- ~~whiteboard with markers~~
- ~~3 laptop computers~~
- ~~bicycle~~
- ~~coffee maker~~
- coffee mugs

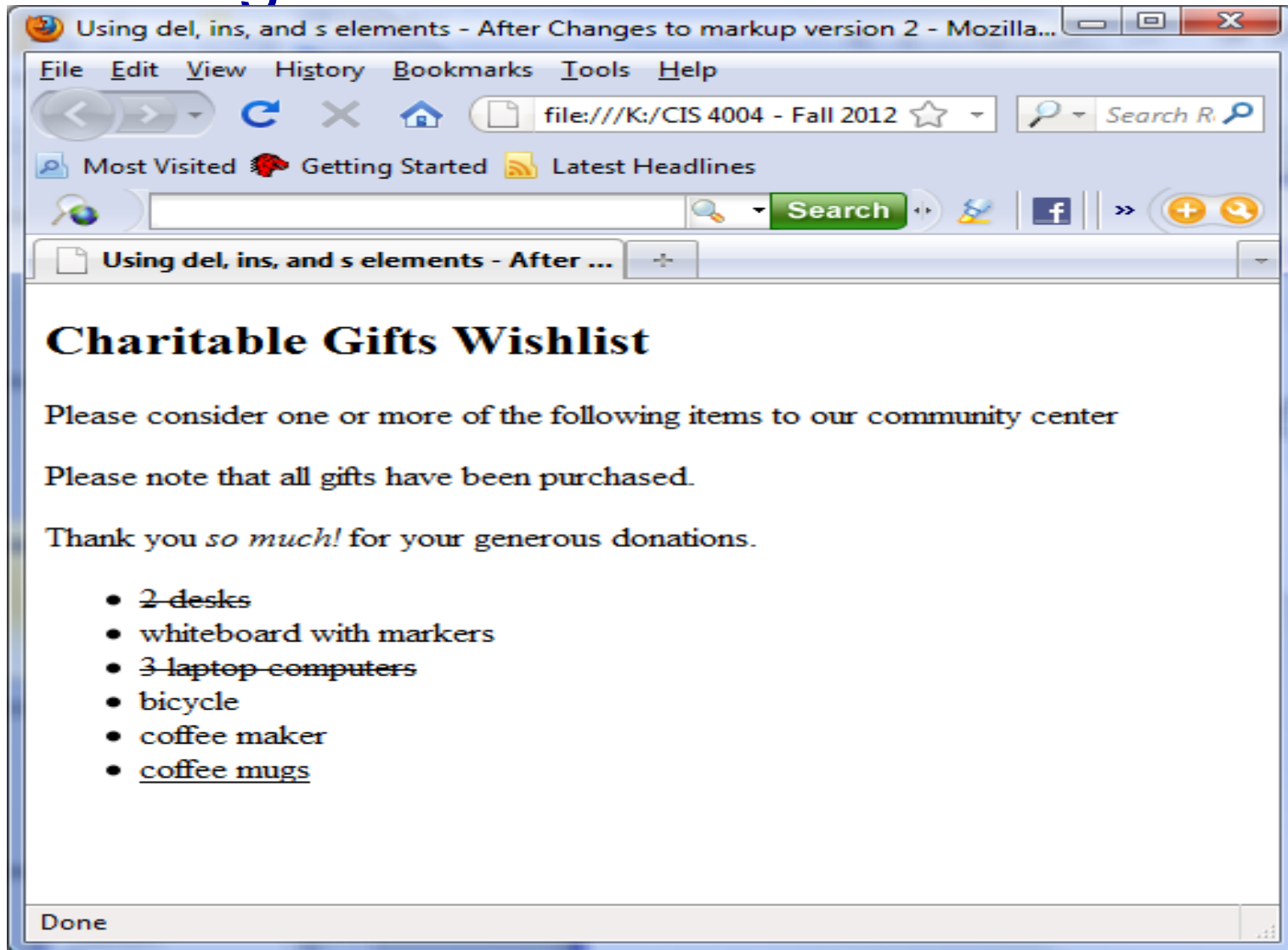


Noting Edits and Inaccurate Text

- Browsers typically display a line through deleted text and underline inserted text. You can of course, override this default effect via CSS.
- As illustrated in version 2 of the previous example, `del` and `ins` elements are rare in HTML5 in that they can surround both phrasing (“inline” in XHTML parlance) content and blocks of content. However, there is a difference in how the various browsers will interpret this. For example, Chrome and Safari will render this as shown on the previous page – correctly interpreted for both phrases and blocks. Firefox on the other hand will render the lines for `del` and `ins` text phrases only within encompassing elements. See next page for illustration of Firefox’s version of the previous example.



Noting Edits and Inaccurate Text

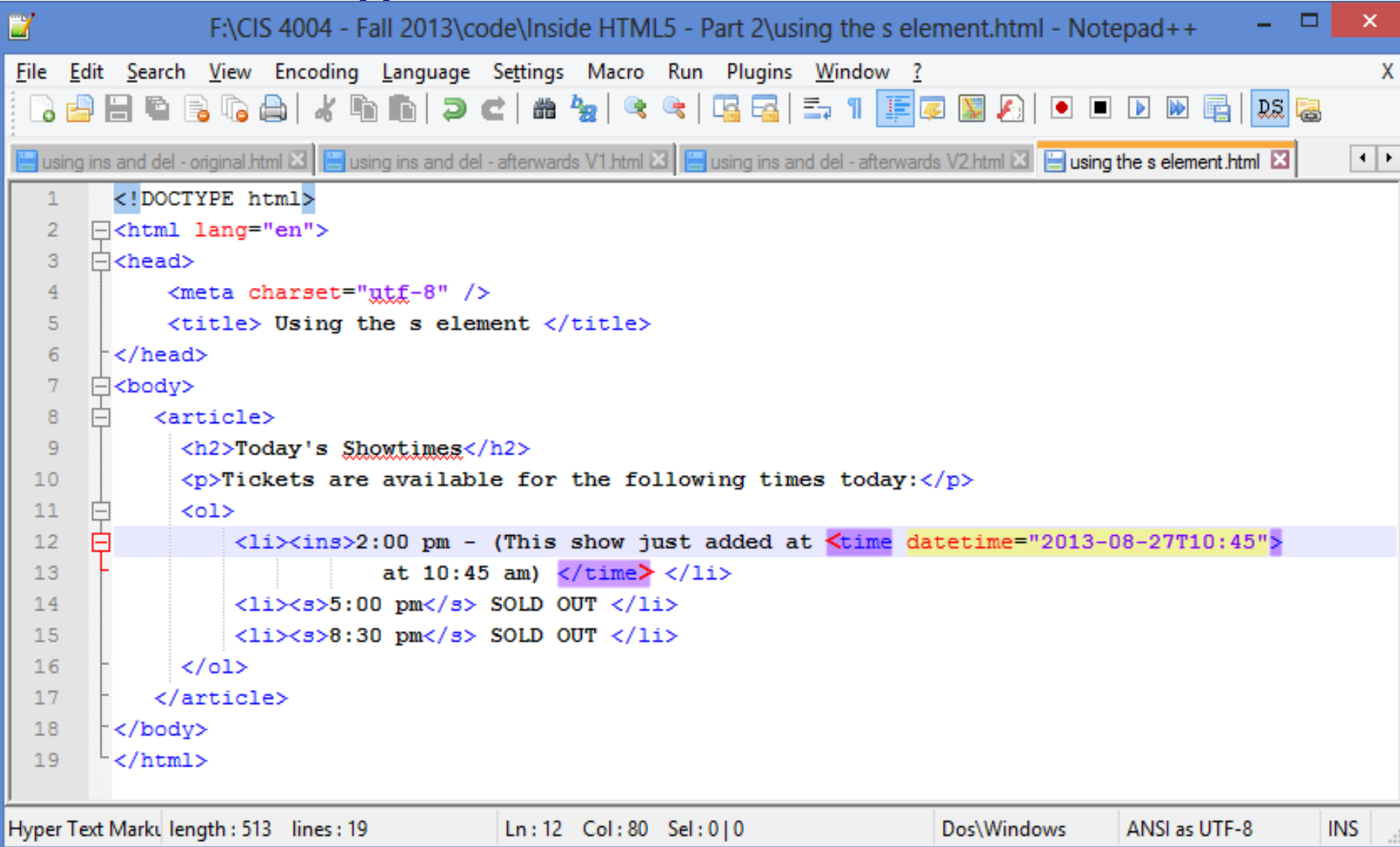


Noting Edits and Inaccurate Text

- For marking content that is no longer relevant or accurate, the `s` element should be used in this context.
- The HTML5 documentation states that “The `s` element is not appropriate when indicating document edits; to mark a span of text as having been removed from a document, use the `del` element.”
- The example on the following page might help to clarify this distinction between deleted content and no longer relevant content.



Noting Edits and Inaccurate Text



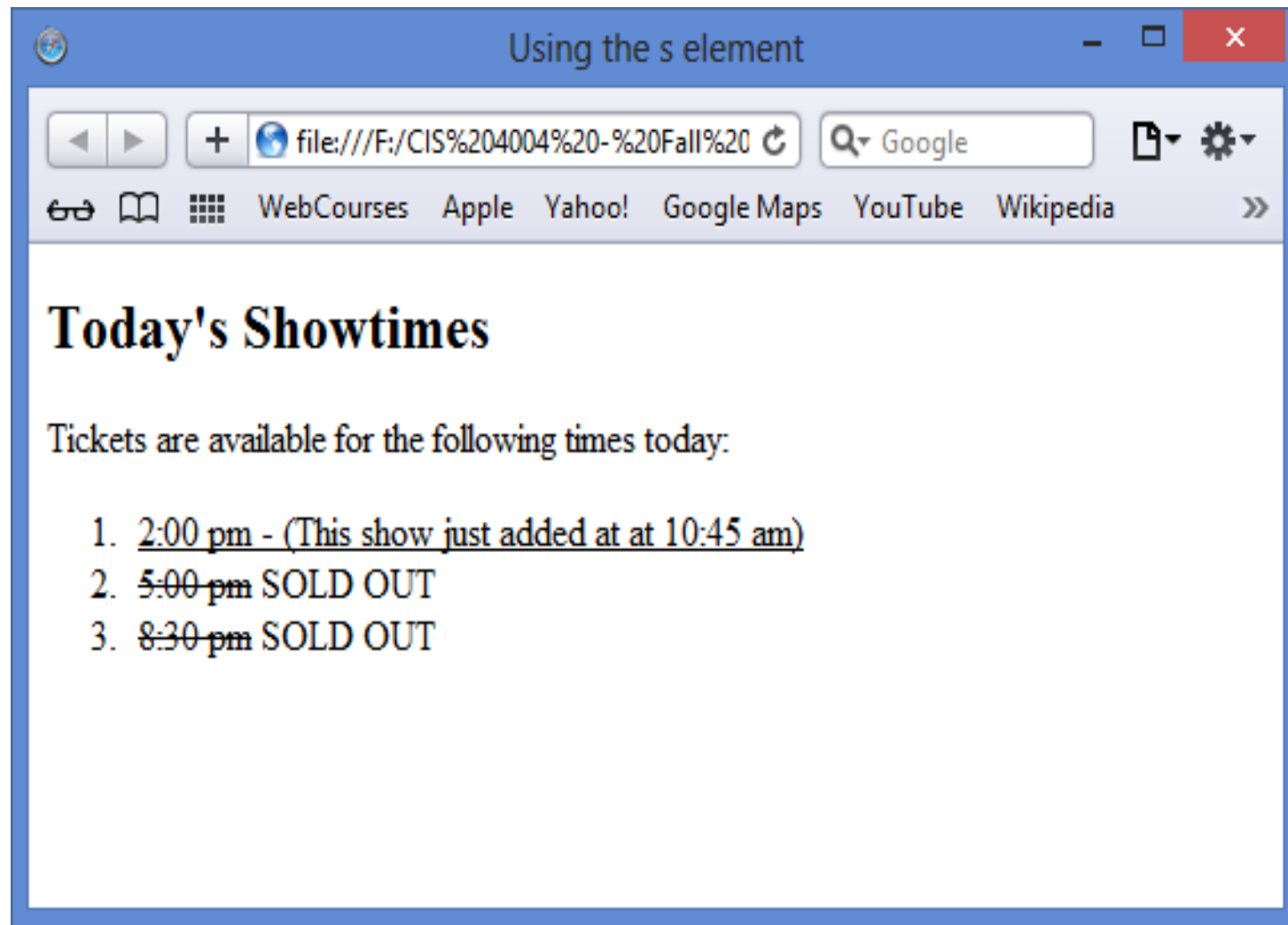
The screenshot shows the Notepad++ editor with the following HTML code:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="utf-8" />
5   <title>Using the s element </title>
6 </head>
7 <body>
8 <article>
9   <h2>Today's Showtimes</h2>
10  <p>Tickets are available for the following times today:</p>
11  <ol>
12    <li><ins>2:00 pm - (This show just added at <time datetime="2013-08-27T10:45">
13      at 10:45 am) </time> </li>
14    <li><s>5:00 pm</s> SOLD OUT </li>
15    <li><s>8:30 pm</s> SOLD OUT </li>
16  </ol>
17 </article>
18 </body>
19 </html>
```

The status bar at the bottom of the editor displays: Hyper Text Marku length : 513 lines : 19 Ln: 12 Col: 80 Sel: 0|0 Dos\Windows ANSI as UTF-8 INS



Noting Edits and Inaccurate Text



Noting Edits and Inaccurate Text

- The `del` and `ins` elements both support two attributes: `cite` and `datetime`.
- The `cite` attribute (not the same as the `cite` element) us for providing a URL to a source that explains why and edit was made.
- Use the `datetime` attribute to indicate the time of the edit.
- Browsers do not display the values you assign to either of these attributes, so their use will not be widespread, but feel free to include them as they add context to your content. The values could be extracted via JavaScript or a program that parses through your page.



Noting Edits and Inaccurate Text

- Use the `del` and `ins` elements anytime that you want to inform your visitors of your content's evolution.
- For instance, you'll often see them used in a Web development or design tutorial to indicate information learned since it was initially posted, while maintaining the copy as it originally stood for completeness. The same will be true for blogs, news sites, and so on.
- Text marked with a `del` element is generally struck out. You might ask why not just delete that content. The answer is that it depends on the context of your content. Striking it out makes it easy for sighted users to know what has changed. Also screen readers could announce the content as having been removed, unfortunately, their support for doing so has been lacking.



The `meter` Element

- HTML5 has a lot of new and neat features. Some of which we'll see later in the course. For now here is one that you might find quite useful.
- The `meter` element is a new element that can be used to indicate a fractional value or a measurement within a known range. Basically, its like a gauge that you could use for things like voting ranges, project completion reports, tickets sold, etc..
- HTML5 suggests that browsers render a `meter` “not unlike a thermometer laying on its side – a horizontal bar with the measured value colored differently than the maximum value unless they are the same.”
- The example on the next page illustrates the `meter` element.



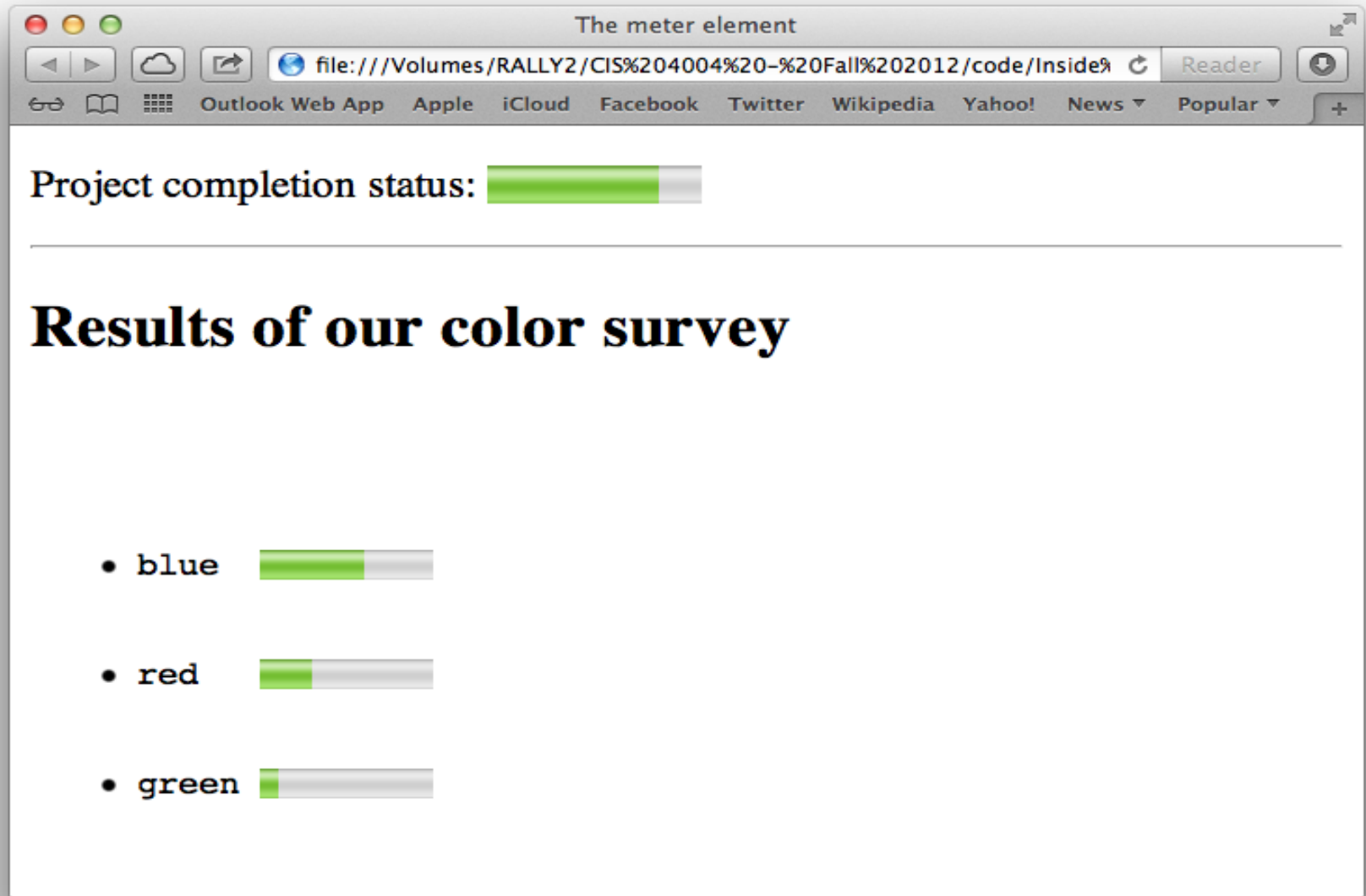
The meter Element

```
F:\CIS 4004 - Fall 2013\code\Inside HTML5 - Part 2\the meter element.html - Notepad++
File Edit Search View Encoding Language Settings Macro Run Plugins Window ?
using ins and del - afterwards V1.html using ins and del - afterwards V2.html using the s element.html the meter element.html
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4     <meta charset="utf-8" />
5     <title> The meter element </title>
6 </head>
7 <body>
8     <p> Project completion status: <meter value="0.80"> 80% completed</meter></p>
9     <hr />
10    <h2>Results of our color survey</h2>
11    <pre>
12    <ul>
13        <li>blue <meter value="0.60">60% rated as #1</meter></li>
14        <li>red <meter value="0.30">30% rated as #1</meter></li>
15        <li>green <meter value="0.10">10% rated as #1</meter></li>
16    </ul>
17    </pre>
18 </body>
19 </html>
```


Hyper Text Marku length : 500 lines : 19 Ln : 1 Col : 1 Sel : 0 | 0 Dos\Windows ANSI as UTF-8 INS




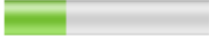
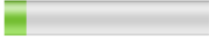
The meter Element



The screenshot shows a web browser window with the title "The meter element". The address bar contains the file path: `file:///Volumes/RALLY2/CIS%204004%20-%20Fall%202012/code/Inside%20HTML5/04%20The%20meter%20element/index.html`. The browser's search bar shows "Reader" and a search icon. Below the search bar, there are several search engines listed: Outlook Web App, Apple, iCloud, Facebook, Twitter, Wikipedia, Yahoo!, News, and Popular. The main content area displays "Project completion status:" followed by a progress bar that is approximately 75% full. Below this, there is a horizontal line and the heading "Results of our color survey". Underneath the heading, there are three bullet points, each with a corresponding progress bar: "blue" (75% full), "red" (25% full), and "green" (10% full).

Project completion status: 

Results of our color survey

- blue 
- red 
- green 



The meter Element

- The `meter` element supports several attributes:
 - The `value` attribute is the only one that is required, and specifies the value of the meter display.
 - The `min` and `max` attributes, default to 0 and 1.0 respectively, if omitted.
 - The `low`, `high`, and `optimum` attributes work together to split the range into low, medium and high segments. `Optimum` specifies the optimum position within the range, such as “0 brake pad wear” in the following example (see next page). Set `optimum` in between if neither a low nor high value is optimal.
 - The example on the next page illustrates the use of the attributes for the `meter` element.



The meter Element Using Attributes

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8" />
  <title> The meter element using attributes </title>
</head>
<body>
  <p> Weekly Riding Mileage Goal Status - Week of September 23rd as of Tuesday:
    <meter min="0" max="260" value="110">110 miles of 260 completed</meter></p>
  <hr />
  <p>Car brake pad wear: <meter low="0.25" high="0.75" optimum="0" value="0.22">
    22% worn as of now</meter></p>
</body>
</html>
```

