COMP2203: Application Scripting

Session DA3

Working with HTML5

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Session DA3 Outline:

- From last time...
- Fundamental rule
- Strict XHTML
- HTML5
- Page layout
- An example
- Checking it





From last time: HTML Versions

HTML1 to 4:

- Used capitals (<BODY>,
)
- Was a bit sloppy about the markup (used <P> to start a paragraph, but nothing to note the end)

XHTML (strict):

- Uses lower case (<body>,
)
- Must have a closing tag (closes with , deprecated tags as in
br />)

HTML5

 Has given up the fight to some extent, but you should keep with the strict XHTML practices





Fundamental Rule

Strict with markup...

- When writing HTML pages, important to get code exactly right
 - helps to ensure browser compatibility
 - makes code easier to maintain
 - helps avoid bugs





Fundamental Rule

...forgiving in interpretation

- When developing a web browser, important to be forgiving in interpretation
 - helps ensure backwards compatibility
 - helps developers get their web pages right
 - helps the user see sites even when they're badly coded





The Strict XHTML Experience

- 1 mistake -> W3C checker gives many errors
 - scary, but helpful
 - need to not panic when page gives 149 errors
 - learn to spot the root cause(s), 142 (consequent) errors will then disappear
 - surprising how many infuriating display "quirks" are caused by "minor" syntactical errors





XHTML or HTML5?

- XHTML works in all modern browsers
- No current browser fully implements HTML5 yet
- Important HTML5 features work in the main modern browsers
- HTML5 is increasingly supported and will be the standard when you graduate
- HTML5 is a significant step forward compared with previous incremental changes
- So we're going to focus on HTML5





The Basic HTML5 Page

Has doctype, head and body sections:





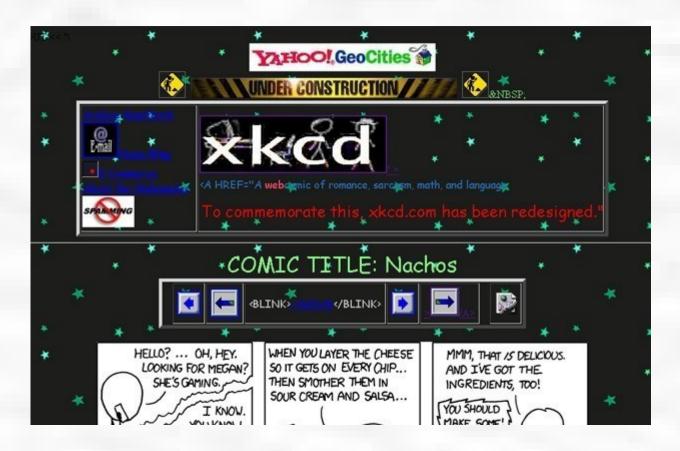
What new features can I try?

• Wrong question!





Just because you can doesn't mean you should...







What new features can I try?

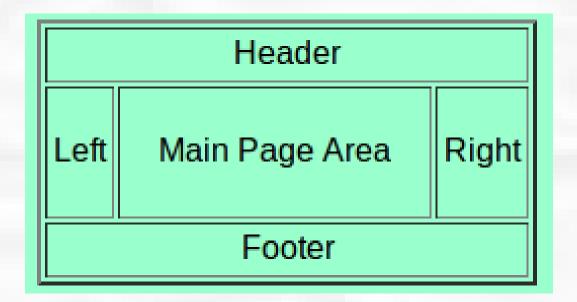
- Wrong question!
 - OK, it's sensible to find out what HTML5 can do
 - but don't do things just because you can
- Start by looking at what we want to do





Page Layout

Many ideas exist

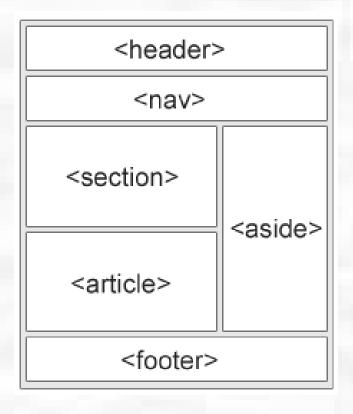






Page Layout

- This is a simple yet powerful idea
 - modern design
 - suits modern usage
 - "recursive"
 e.g. blog
 individual posts use
 same basic layout as
 whole page







Page Layout

Oh look - this is supported by HTML5!





An Example

```
<!DOCTYPE html>
<html>
 <head>
   <title>David's Website</title>
 </head>
 <body>
   <header>
     <h3>My Website</h3>
     Subtitle
   </header>
   <nav>
     <a href="">Option 1</a>
     <a href="">Option 2</a>
   </nav>
   <section>
     <h3>Welcome!</h3>
     Welcome to my Site!
   </section>
   <footer>
     © 2013 David
   </footer>
 </body>
</html>
```



Subtitle

Option 1 Option 2

Welcome!

Welcome to my Site!

©2013 David





But That's Rubbish!

- Hold on a moment...
 - Separation of Concerns!
 - The content is fine
 - The presentation is what we don't like
 - But the presentation should all be handled by the CSS...
- ...which we're going to look at in the next slot!





Checking It Out

- Before we finish, we should check our handiwork
- W3C checker: http://validator.w3.org/
- Oops a problem! So let's include the required character encoding
 - _ See W3C: http://www.w3.org/International/questions/qa-html-encoding-declarations#httpsummary
 - insert <meta charset="UTF-8"> in the <head> section
 - Oh look, it validates now!
- Also: Chrome's Developer Tools are your friends!
 - [Note to self demo now]





Break

What are your experiences with coding in HTML?

Try coding up a simple HTML5 page



