



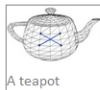
The
University
Of
Sheffield.

Team X

[Home](#) [News](#) [Fixtures](#) [About us](#)

Welcome

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COM1008:

Web and Internet Technology

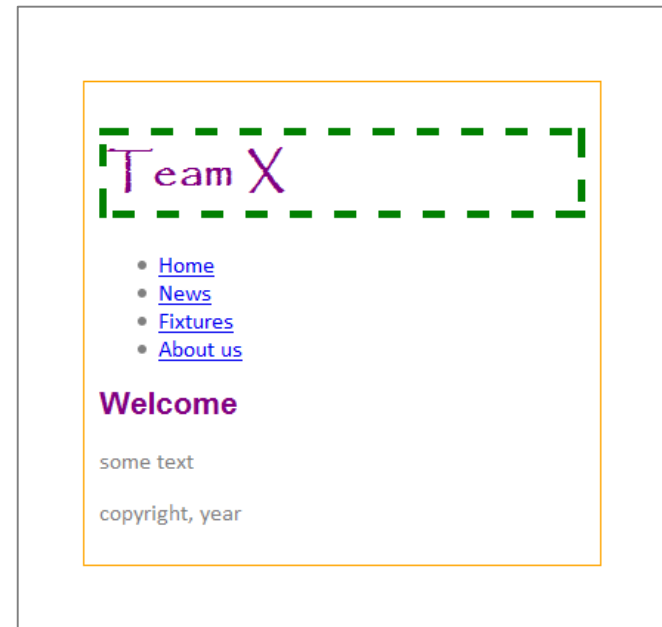
Lecture 4: HTML and CSS

Dr. Steve Maddock

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1. Introduction

- When creating a web page, separate the structure and appearance
 - HTML – structure (first)
 - CSS – appearance (second)
- Today
 - More on the design of a website for Team X
 - The HTML5 semantic elements
 - Flow



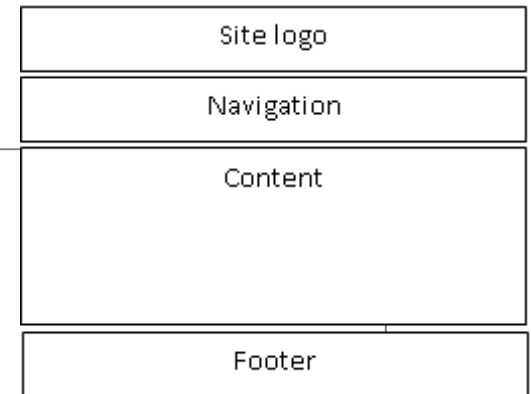
2. Structure

```
<body>
  <!-- site logo -->
  <h1 id="mainheading">Team X</h1>

  <!-- navigation -->
  <ul>
    <li><a href="index.html">Home</a></li>
    <li><a href="news.html">News</a></li>
    <li><a href="fixtures.html">Fixtures</a></li>
    <li><a href="aboutus.html">About us</a></li>
  </ul>

  <!-- main content area -->
  <div id="maincontent">
    <h1>Welcome</h1>
    <p>some text</p>
  </div>

  <!-- footer -->
  <p>copyright, year</p>
</body>
```



3. Semantic elements in HTML5

- Semantic elements: header, nav, main, section, article, aside, footer, figure,...
 - Based on a study of use of divs, ids and classes used to structure pages
- There is some disagreement about when to use some elements, e.g. section and article
- Some legacy browsers can be a problem when using HTML5
 - There are workarounds
- Checking browser capability: <http://html5test.com/>
- HTML5 conformance: <http://validator.w3.org/>

3. Semantic elements in HTML5

```
<body id="home">
<div id="wrapper">

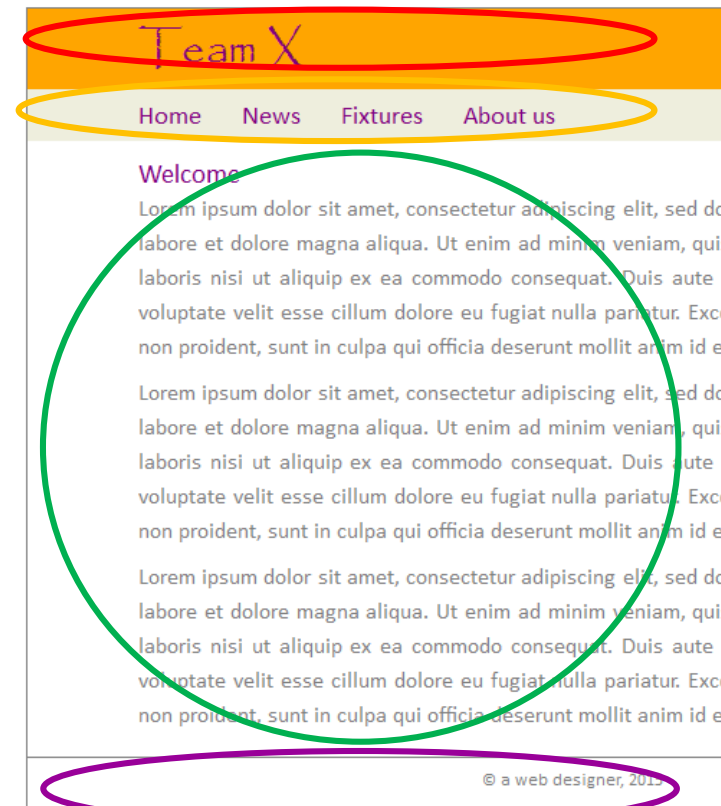
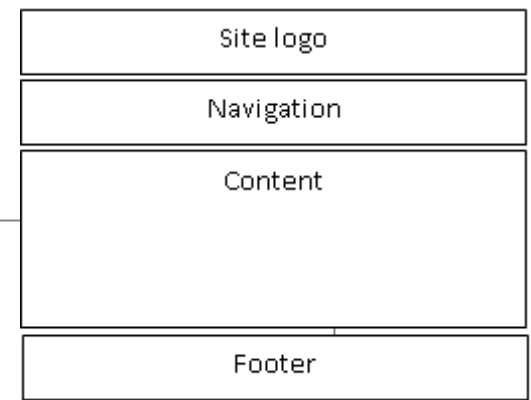
<header>
  <h1>Team X</h1>
</header>

<nav>
  <ul><!-- list items --></ul>
</nav>

<main>
  <h1>Welcome</h1>
  <p>some text</p>
</main>

<footer>
  <p>&copy; a web designer, 2015</p>
</footer>

</div> <!-- wrapper -->
</body>
```



4. header

[dev.w3.org/html5/spec/Overview.html]

- “The header element represents a group of introductory or navigational aids”

```
<header>
  <h1>Team X</h1>
</header>
```



```
header {
  padding: 2px 0px 2px 77px;
  background-color: orange;
}
```

```
header h1 {
  padding: 10px 0 10px 0;
  color: purple;
  font-family: Papyrus, serif;
  font-size: 200%;
  line-height: 1em;
}
```

- Can include images in the header too



```
background-image: url('bg5.jpg');
```

5. nav

- “The nav element... is primarily intended for sections that consist of major navigation blocks”
[dev.w3.org/html5/spec/Overview.html]



- Alternatives:

nav inside header

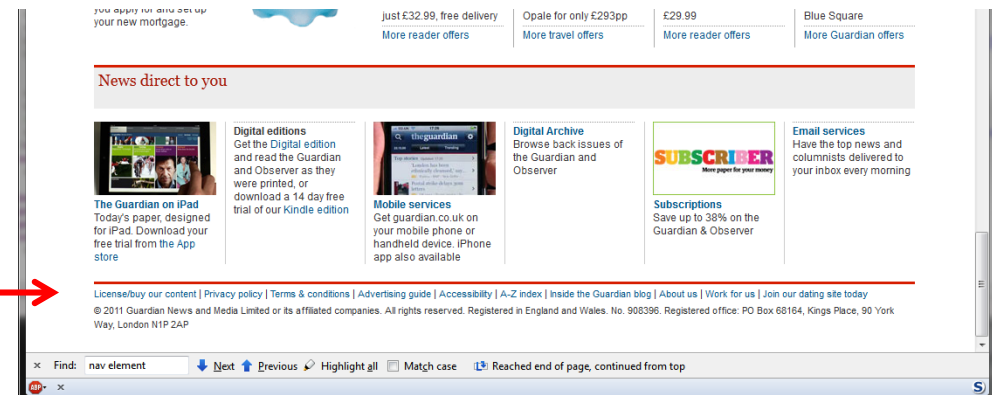
nav outside header

5.1 Multiple nav elements

- This page could be marked up with multiple nav elements
- (Example from B. Lawson and R.Sharp, "Introducing HTML5", New Riders, 2011)

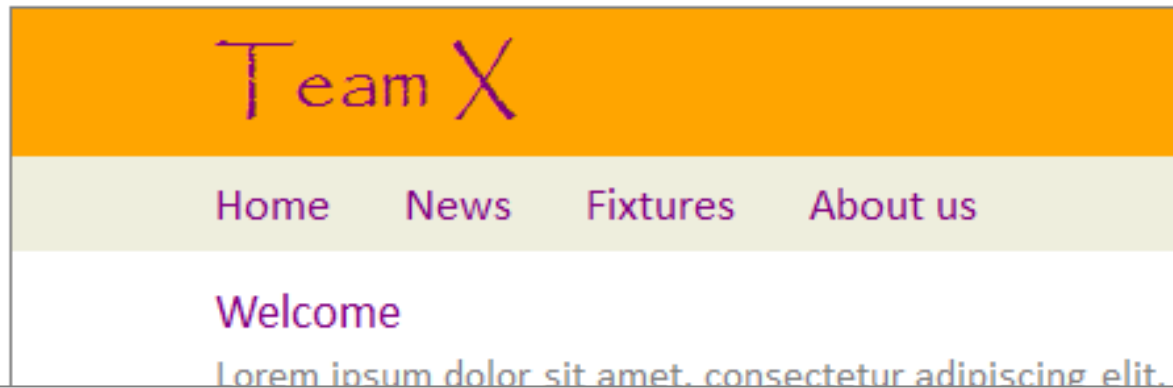


http://www.guardian.co.uk/



5.2 Team X

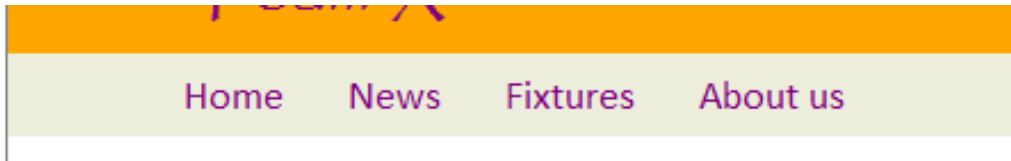
- The Team X site has one nav area, which makes use of the ul element



```
<nav>
  <ul>
    <li><a href="index.html">Home</a></li>
    <li><a href="news.html">News</a></li>
    <li><a href="fixtures.html">Fixtures</a></li>
    <li><a href="aboutus.html">About us</a></li>
  </ul>
</nav>
```

5.3 A horizontal navigation bar

- We need to style only the list inside the nav element
- Use a *contextual CSS selector*:
- **E F** means F is a descendant of E



```
nav {  
    background-color: #eeeedd;  
    color: gray;  
}  
  
nav ul {  
    list-style: none;  
    padding: 5px 0px;  
    text-align: center;  
}  
  
nav ul li {  
    display: inline;  
}
```

```
<nav>  
  <ul>  
    <li><a href="index.html">Home</a></li>  
    <li><a href="news.html">News</a></li>  
    <li><a href="fixtures.html">Fixtures</a></li>  
    <li><a href="aboutus.html">About us</a></li>  
  </ul>  
</nav>
```

[http://www.w3.org/
TR/selectors/](http://www.w3.org/TR/selectors/)

Welcome

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6. footer

- “The footer element represents a footer for its nearest ancestor sectioning content or sectioning root element.”
- “A footer typically contains... who wrote it, links to related documents, copyright data...” [dev.w3.org/html5/spec/Overview.html]

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6.1 Team X

- Character entity reference – specific characters in the character set

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```
<footer>
  <p>&copy; a web designer, 2015</p>
</footer>
```

→ © a web designer, 2015

clear: both;
- see later
lecture on
positioning
elements

```
footer {
  clear: both;
  font-size: 75%;
  text-align: center;
  border-top: 1px solid gray;
  padding: 3px 10px;
}
```

<http://www.w3.org/TR/html4/sgml/entities.html>

<http://dev.w3.org/html5/html-author/charref>

7. main

- A fairly recent addition to HTML5
 - Some controversy

```
main {  
    padding: 10px 77px 10px 77px;  
}  
  
main *.highlight {  
    font-weight: bolder;  
    background-color: yellow;  
}
```

```
<div id="maincontent">  
  <h1>Welcome</h1>  
  <p>some text</p>  
</div>
```

```
<section id="main">  
  <h1>Welcome</h1>  
  <p>some text</p>  
</section>
```

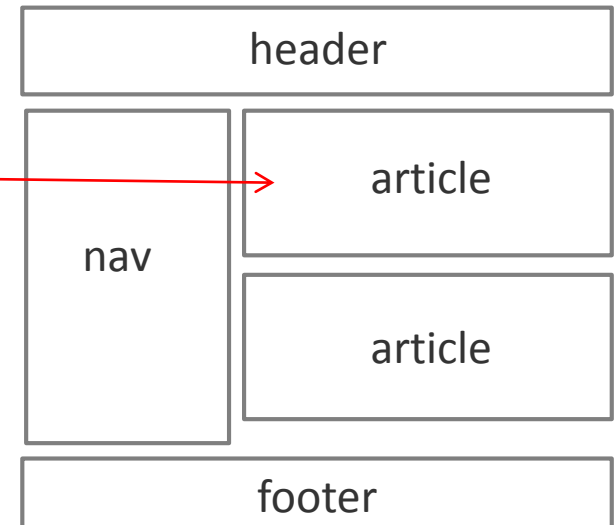
```
<main>  
  <h1>Welcome</h1>  
  <p>some text</p>  
</main>
```



“Think article of clothing – a discrete item”
(Lawson and Sharp, 2011)

8. article

- “The article element represents a self-contained composition in a document, page, application, or site and that is, in principle, independently distributable or reusable, e.g. in syndication.
 - ...a forum post,
 - a magazine or newspaper article [story],
 - a blog entry, —————→
 - [Each blog item would be an article element: date, heading, contents, footer]
 - a user-submitted comment,
 - an interactive widget or gadget,
 - or any other independent item of content.”



[dev.w3.org/html5/spec/Overview.html]

News

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News item 1

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News item 2

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News item 3

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```
main article {
  margin: 20px 0;
  border-top: 1px solid
                rgb(200,200,200);
}
```

```
<main>
```

```
<h1>News</h1>
<p>Some text</p>
```

```
<article>
  <h2>News item 1</h2>
  <p>Some text</p>
</article>
```

```
<article>
  <h2>News item 2</h2>
  <p>Some text</p>
</article>
```

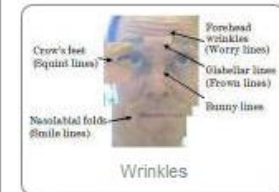
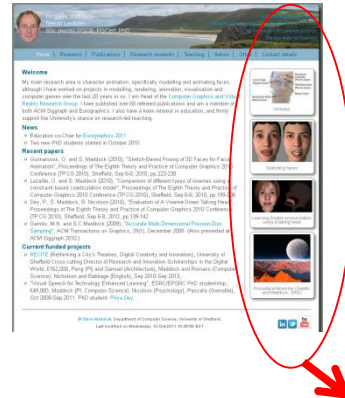
```
<article>
  <h2>News item 3</h2>
  <p>Some text</p>
</article>
```

```
</main>
```

9. aside

- The aside element contains tangentially related content.
- “The element can be used for
 - typographical effects... pull quotes
 - ...sidebars, for advertising,
 - for groups of nav elements,
 - ...other content that is considered separate from the main content of the page.”

[dev.w3.org/html5/spec/Overview.html]



Online dating



Join Guardian Soulmates

Six Songs of Me



Moscow & St Petersburg



5 nights from £799pp

Guardian offers

Science writing class with Tim Radford

www.guardian.co.uk/

10. Centralising the page

- Use a **div** element as a wrapper and set the margins appropriately
- Wrap the header, nav, section, footer in a single block

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```
<body>
<div id="wrapper">
  <header>...</header>
  ...
  <footer>...</footer>
</div> <!-- wrapper -->
</body>
```

```
onsequat. Duis aute irure dolor in reprehenderit in
iat nulla pariatur. Excepteur sint occaecat cupidatat
serunt.

#wrapper {
  background-color: white;
  width: 758px;
  margin: 0px auto;
  border: 1px gray solid;
}
```

Welcome

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11. Some practicalities

Team X want the following:

1. The HTML and CSS code should be easy to maintain
2. The Website should be consistent across browsers
3. The Website should work for older browsers

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11.1 Format of the Team X stylesheet

- Divided into labelled areas to make it easy to follow

```
/* ~~~general tags~~~ */
```

rule for body

rule for h1

rule for p

```
/* ~~~wrapper~~~~~ */
```

rules for wrapper area go here

```
/* ~~~header~~~~~ */
```

rules for header area go here

continued...

```
/* ~~~navigation~~~~~ */
```

rules for navigation area go here

```
/* ~~~main content~~~ */
```

rules for main content area go here

```
/* ~~~footer~~~~~ */
```

rules for footer area go here

```
/* ~~~end~~~~~ */
```

continued...

11.2 Reset or normalize?

- Browser inconsistencies with regards default styles can lead to different displays

Solution A: Reset

- Reset all styles to known values, i.e. provide a 'blank slate':
 - <http://meyerweb.com/eric/tools/css/reset/>
 - <http://cssresetr.com/>
- Then define style for every element you use

Solution B: Normalize

- Normalize, i.e. preserve some useful default styles rather than resetting every style:
 - <http://nicolasgallagher.com/about-normalize-css/>

11.2.1 Minimal reset

Example of a minimal reset:

```
* { padding:0; margin:0; }
```

Then, example of defining specific style for an element:

```
header {  
    padding: 2px 0px 2px 77px;  
    background-color: orange;  
}
```

11.2.2 Meyer's reset

- <http://meyerweb.com/eric/tools/css/reset/>

Usage:

```
<head>
  <link rel="stylesheet" href="reset.css" />
  <link rel="stylesheet" href="teamx.css" />
</head>
```

```
html, body, div...
...{
  margin: 0;
  padding: 0;
```

```
/* http://meyerweb.com/eric/tools/css/reset/
   v2.0 | 20110126
   License: none (public domain)
*/

html, body, div, span, applet, object, iframe,
h1, h2, h3, h4, h5, h6, p, blockquote, pre,
a, abbr, acronym, address, big, cite, code,
del, dfn, em, img, ins, kbd, q, s, samp,
small, strike, strong, sub, sup, tt, var,
b, u, i, center,
dl, dt, dd, ol, ul, li,
fieldset, form, label, legend,
table, caption, tbody, tfoot, thead, tr, th, td,
article, aside, canvas, details, embed,
figure, figcaption, footer, header, hgroup,
menu, nav, output, ruby, section, summary,
time, mark, audio, video {
    margin: 0;
    padding: 0;
    border: 0;
    font-size: 100%;
    font: inherit;
    vertical-align: baseline;
}

/* HTML5 display-role reset for older browsers */
article, aside, details, figcaption, figure,
footer, header, hgroup, menu, nav, section {
    display: block;
}

body {
    line-height: 1;
}

ol, ul {
    list-style: none;
}

blockquote, q {
    quotes: none;
}

blockquote:before, blockquote:after,
q:before, q:after {
    content: '';
    content: none;
}

table {
    border-collapse: collapse;
    border-spacing: 0;
}
```

11.2.3 Normalize

Include in the head of the html document:

```
<link rel="stylesheet" src="http://normalize-  
css.googlecode.com/svn/trunk/normalize.css" />
```

Example of a
rule in
normalize.css:

```
/**  
 * Remove default margin.  
 */  
body {  
    margin: 0;  
}
```

11.3 Older browsers

- Older versions of browsers don't recognise the HTML5 elements
- Solution:
 - HTML file: use HTML5Shiv
 - CSS file: add extra rules (CSS reset or normalize)

CSS

```
/* ~~~~~ */  
/* ~~~For older browsers */  
  
article, aside, details, figcaption, figure, footer,  
header, hgroup, main, menu, nav, section {  
    display: block;  
}
```


11.3.1 Older browsers: Shiv

- “HTML5Shiv (or shim) is a JavaScript workaround to enable HTML5 elements in versions of Internet Explorer before version 9 that do not support elements that are not recognized and thus allowing them to be styled by CSS”

http://en.wikipedia.org/wiki/HTML5_Shiv

- Include the following in the <head> element

```
<!--[if lt IE 9]>
  <script src="http://html5shiv.googlecode.com/svn/trunk/html5.js">
  </script>
<![endif]-->
```

- For other workarounds see: <http://net.tutsplus.com/tutorials/html-css-techniques/html5-and-css3-without-guilt/>

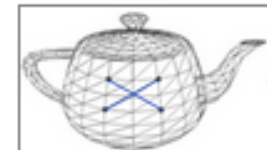
News

12. Images

- Team X would like to add some images to their Website

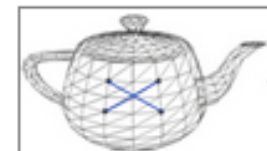
News item 1

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A teapot

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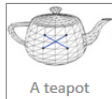
A teapot

Team X

Home News Fixtures About us

Welcome

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A teapot

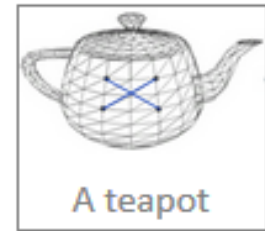
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12.1 The image element

- An inline element
 - Formats: gif, jpg, png
 - Attributes src and alt are compulsory
 - width and height are optional
- Images should be sized correctly before use
- Often wrapped in HTML5 figure element, a block element



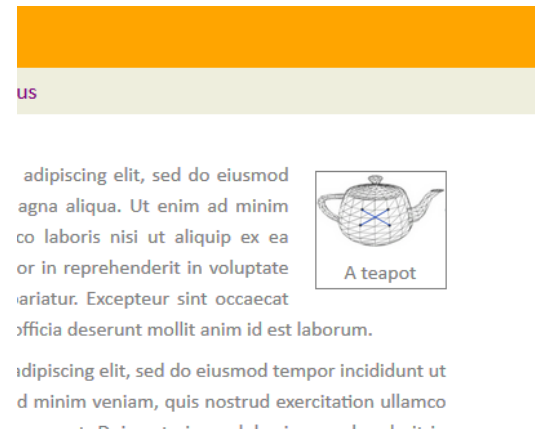
```
<h1>Welcome</h1>
<figure>
  
  <figcaption>A teapot</figcaption>
</figure>
<p>some text</p>
```

13. float and clear

- The float property can be used to place an element at the right or left within its container
- float: left | right | none | inherit



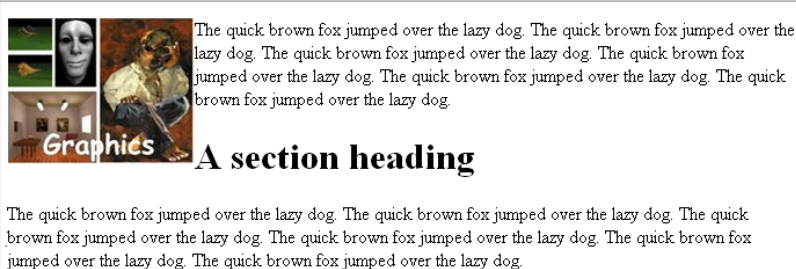
```
main figure {  
  float: left;  
  margin: 10px 20px 10px 0;  
  border: 1px solid gray;  
}
```



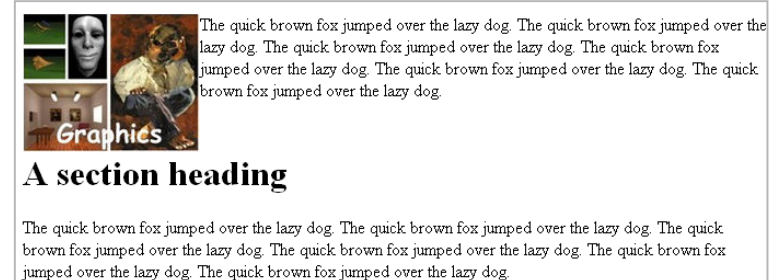
```
main figure {  
  float: right;  
  margin: 10px 0 10px 20px;  
  border: 1px solid gray;  
}
```

13. float and clear

- Lists sides of an element on which floating elements are not accepted
- clear: none | left | right | both



```
img { float: left; }
```

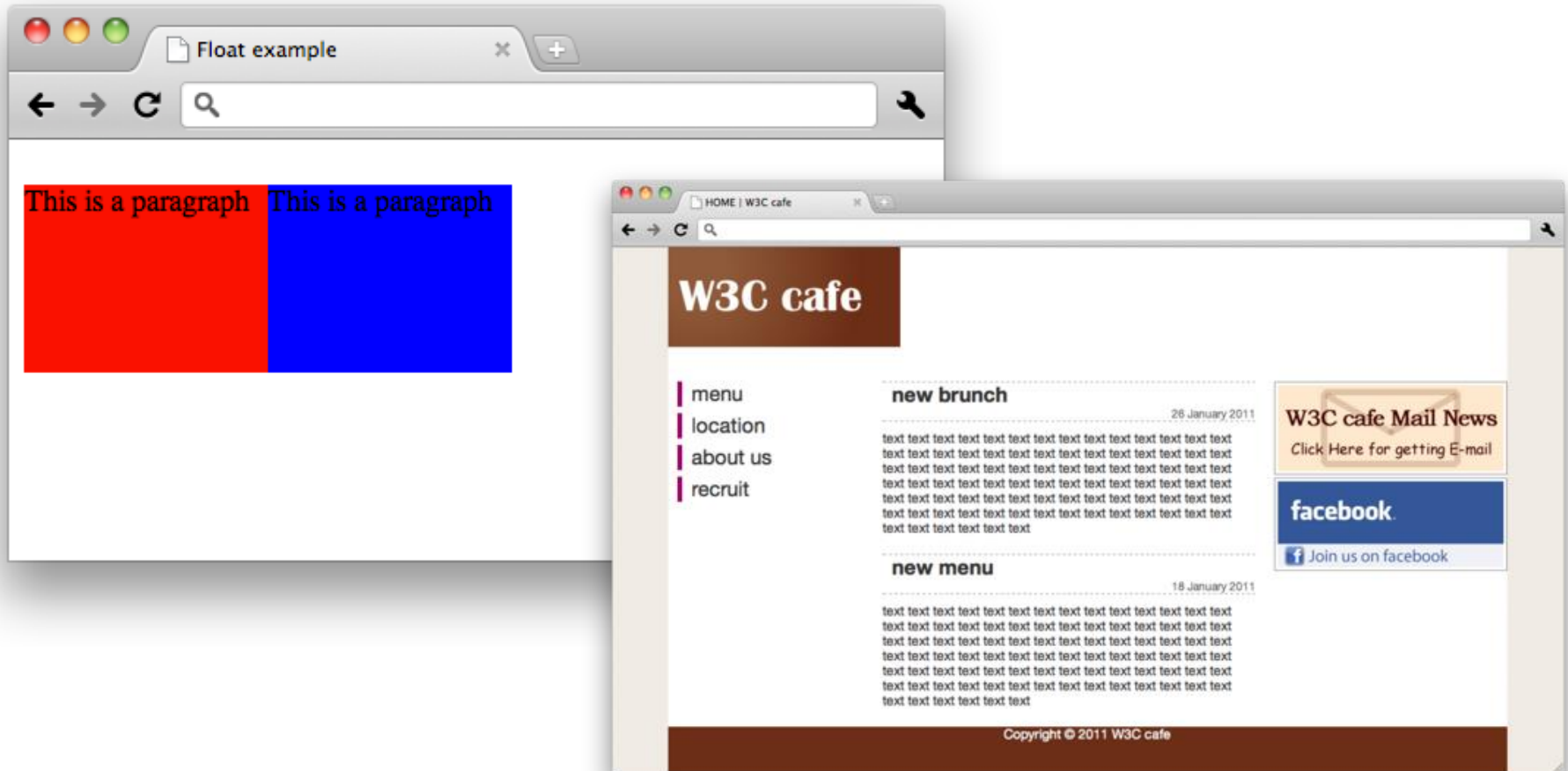


```
img { float: left; }
.clearleft { clear: left; }
```

```

<p>...</p>
<h1 class="clearleft">A section heading</h1>
<p>...</p>
```

13. float and clear



- <http://www.w3.org/wiki/CSS/Training/floating>
- <http://www.w3.org/TR/CSS2/visuren.html#floats>

14. Positioning

- Section 1
- Section 2
- Section 3

A PINNED-DOWN MENU

The menu you see on the right on this page is simply a UL list. But, it stays fixed when you scroll the page. (You may have to make the

- By default, a web browser lays out boxes for elements in sequence
 - inline – one after another
 - block-level – one below another
 - float changes this, shifting boxes to the side
- Also, elements can be positioned:
 - position: static | relative | absolute | fixed
 - static – the normal case
- relative, absolute and fixed make use of four positioning properties:
 - top, right, bottom, left; each is set to one of *length* | *percentage* | *auto*
 - The properties make use of the edge of the containing block

and 'right' together determine the horizontal
of a viewport.)

of the three, or none at all is also possible. In
that are left at their default value ('auto').

it to control the distance from the

contradict each other. Those are there to

- Section 1
- Section 2
- Section 3

More details: <https://developer.mozilla.org/en-US/docs/Web/CSS/position>

29. Summary

- HTML5 introduced a range of semantic elements for giving meaning to specific areas of a web page
 - header, nav, main, section, article, footer, aside, ...
- Cross-browser differences mean a reset or normalize stylesheet is often used
- *Next week:* Fallback strategies, CSS3, RWD, @media, SSI

Appendix A

Popularity	Value	Frequency
1	footer	288061
2	content	228661
3	header	223726
4	logo	121352
5	container	119877
6	main	106327
7	table1	101677
8	menu	96161
9	layer1	93920
10	autonumber1	77350
11	search	74887
12	nav	72057
13	wrapper	66730
14	top	66615
15	table2	57934
16	layer2	56823
17	sidebar	52416
18	image1	48922
19	banner	44592
20	navigation	43664

Opera MAMA crawler, 2009

<http://devfiles.myopera.com/articles/572/idlist-url.htm> [1806424 urls; 5608609 unique values]

Popularity	Value	Frequency
1	footer	179528
2	menu	146673
3	style1	138308
4	msonormal	123374
5	text	122911
6	content	113951
7	title	91957
8	style2	89851
9	header	89274
10	copyright	86979
11	button	81503
12	main	69620
13	style3	69349
14	small	68995
15	nav	68634
16	clear	68571
17	search	59802
18	style4	56032
19	logo	48831
20	body	48052

Opera MAMA crawler, 2009

<http://devfiles.myopera.com/articles/572/classlist-url.htm> [2148723 urls; 2834536 unique values]

<http://html5shiv.googlecode.com/svn/trunk/html5.js>

```

/*! HTML5 Shiv vpre3.6 | @afarkas @jdalton @jon_neal @rem | MIT/GPL2 Licensed Uncompressed source:
https://github.com/aFarkas/html5shiv */ (function(a,b){function h(a,b){var
c=a.createElement("p"),d=a.getElementsByTagName("head")[0]||a.documentElement;return
c.innerHTML="x<style>"+b+"</style>",d.insertBefore(c.lastChild,d.firstChild)}function i(){var a=l.elements;return typeof
a=="string"?a.split(" "):a}function j(a){var
b={},c=a.createElement,f=a.createDocumentFragment,g=f();a.createElement=function(a){if(!l.shivMethods)return c(a);var
f;return
b[a]?f=b[a].cloneNode():e.test(a)?f=(b[a]||createElement ( children&&!d.test(a)?g.appendChild(f):f),a.creat
eDocumentFragment=Function("h,f","return function(a){return
n=f.cloneNode(),c=n.createElement;h.shivMethods&&("i().join().replace(/w+/g,function(a){return
c(a),g.createElement(a),'c("+a+"')})+");return n}")(l,g)}function k(a){var b;return
a.documentShived?a:(l.shivCSS&&!f&&(b=!h(a,"article,aside,details,figcaption,figure,footer,header,hgroup,nav,section{dis
play:block}audio{display:none}canvas,video{display:inline-
block;*display:inline;*zoom:1}[hidden]{display:none}audio[controls]{display:inline-
block;*display:inline;*zoom:1}mark{background:display.block a.documentShived=b),a)}var
c=a.html5||{},d=/^<|^(<?:button|form|map|select|te
c=a.html5||{};d=/^<|^(<?:a|b|button|code|div|fi
eldset|form|h1|h2|h3|h4|h5|h6|i|iframe|img|input|label|li|link|ol|option|p|param|q|script|select|span|strong|style|table|tb
ody|td|textarea|tfoot|th|thead|tr|ul)$/i,f,g;(function(){var c=b.createElement("a");c.innerHTML="<xyz></xyz>",f="hidden"in
c,f&&typeof
injectElementWithStyles=="function"&&injectElementWithStyles("#modernizr",function(b){b.hidden=!0,f=(a.getCompu
tedStyle?getComputedStyle(b,null):b.currentStyle).display=="none"}),g=c.childNodes.length==1||function(){try{b.createEle
ment("a")}catch(a){return!0}var c=b.createDocumentFragment();return typeof c.cloneNode=="undefined"||typeof
c.createDocumentFragment=="undefined"||typeof c.createElement=="undefined"}())();var l={elements:c.elements|"abbr
article aside audio bdi canvas data datalist details figcaption figure footer header hgroup mark meter nav output
progress section summary time
video",shivCSS:c.shivCSS!==!1,shivMethods:c.shivMethods!==!1,type:"default",shivDocument:k};a.html5=l,k(b)})(this,docum
ent)

```