

Responsive Web Design

John Pilbeam

Digital Engineer, IT Strategy & Development
Bodleian Digital Library Systems & Services
The Bodleian Libraries



Introduction

- What (is Responsive Web Design)?
- Why (should I use it)?
- Examples of websites
- Examples of Grid Systems, Frameworks & Themes
- Further reading & listening

What (is Responsive Web Design)?

Responsive Web Design, by Ethan Marcotte
May 25, 2010

<http://alistapart.com/article/responsive-web-design>



“The control which designers know in the print medium, and often desire in the web medium, is simply a function of the **limitation of the printed page**. We should **embrace the fact that the web doesn’t have the same constraints**, and design for this flexibility. But first, we must ‘accept the ebb and flow of things.’”

John Allsopp, “A Dao of Web Design”,
April 07, 2000

<http://alistapart.com/article/dao>

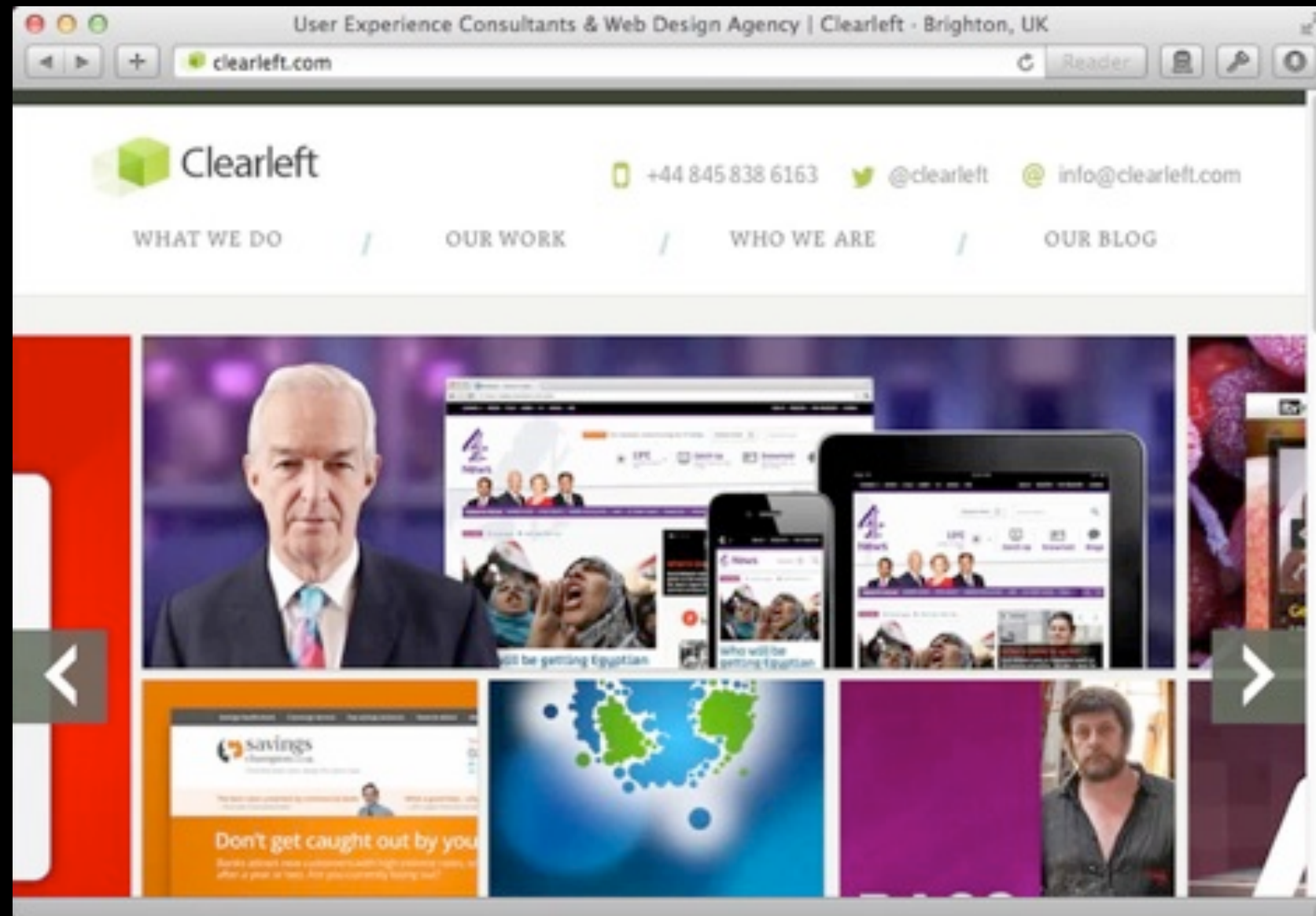
“Three Core Ingredients”

- Flexible grid-based layout
- Flexible images and media
- Media queries (CSS3)

Flexible grids



Flexible images and media



CSS media queries

```
@media (min-width:768px) and (max-width:1200px) and  
(orientation:portrait) { ... }
```

<http://www.w3.org/TR/css3-mediaqueries/#media>

CSS media queries

- Support
 - Firefox 3.5+
 - WebKit browsers (Safari 3+, Android)
 - Internet Explorer 9+
 - Javascript solutions for older browsers
 - `css3-mediaqueries.js`
 - `respond.js`

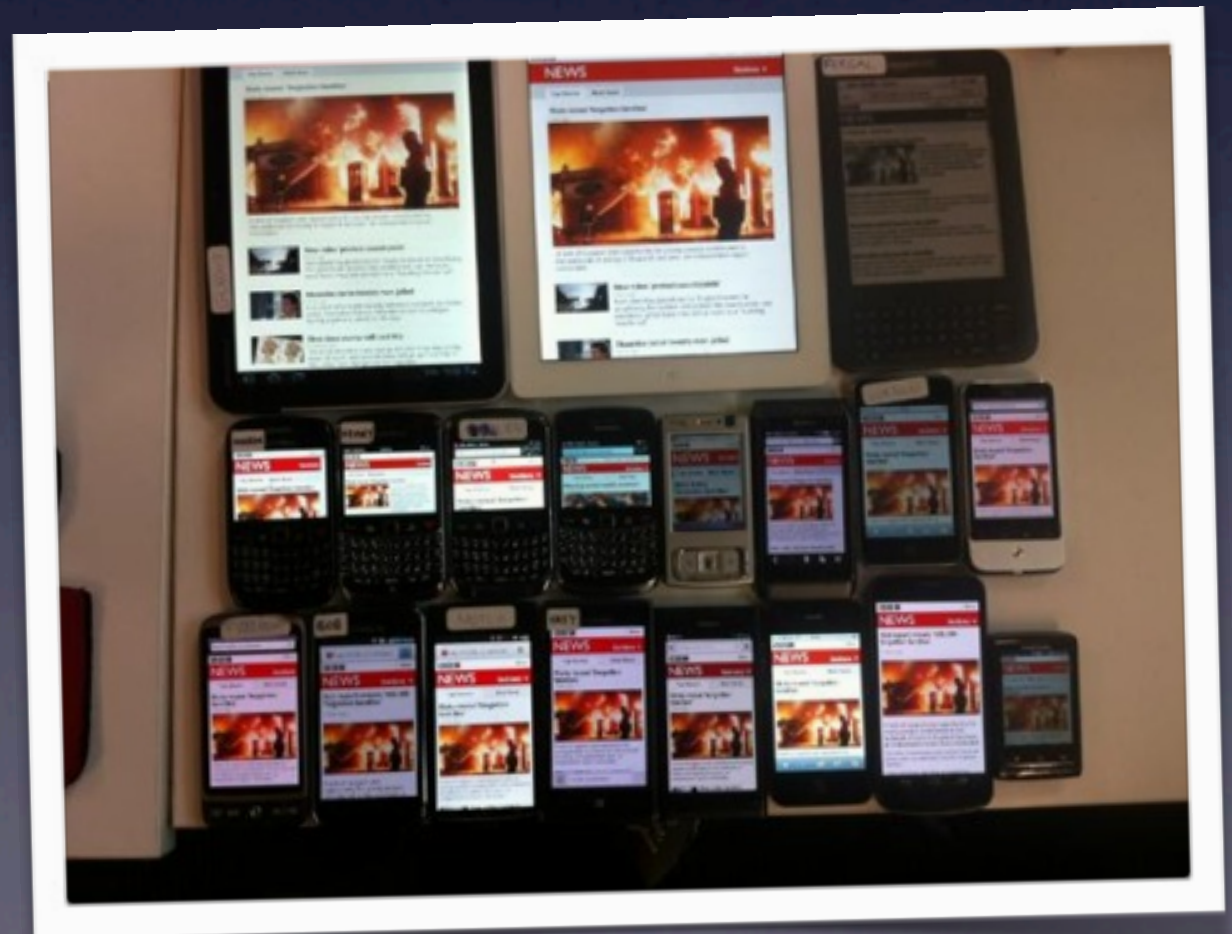
Why (should I use it)?

- Mobile = 40% of Guardian website users
- Increasing (most websites reporting between 15%-50% mobile)
@TomGrinsted



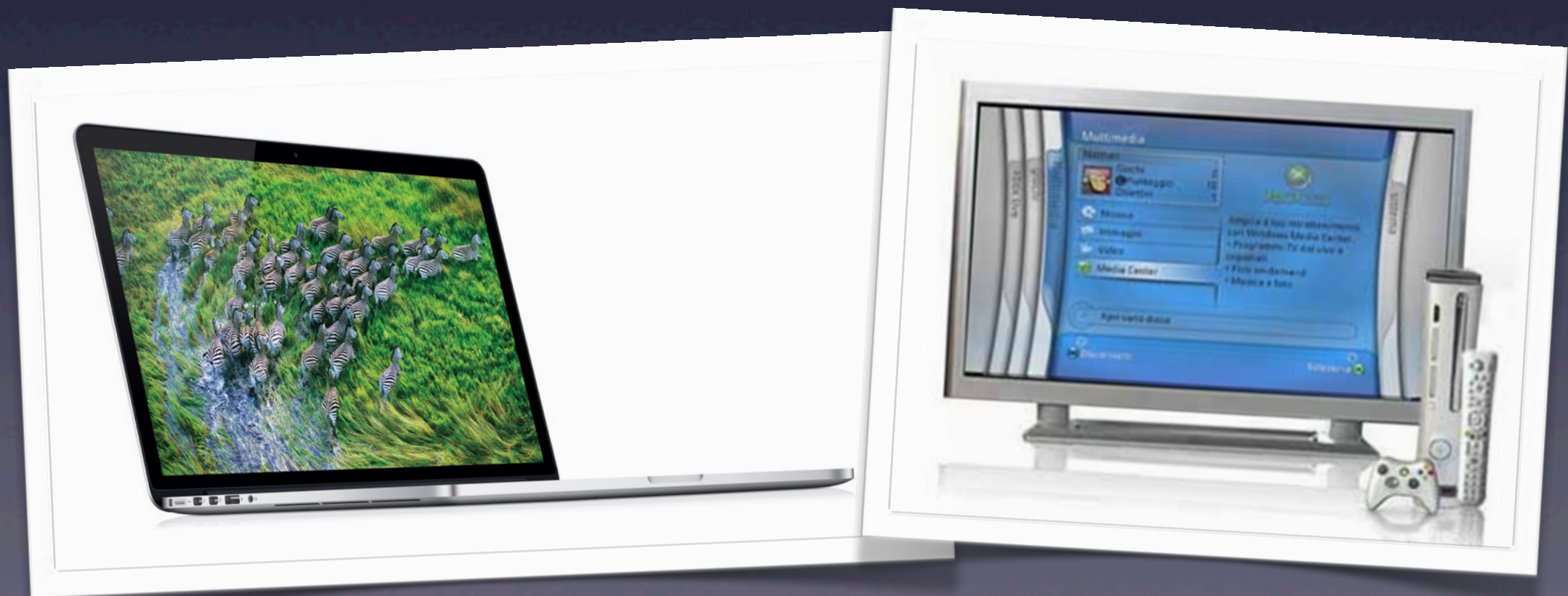
Why (should I use it)?

- BBC: Spike in mobile use post Christmas 2012 (iPads and Nexus 7s...)
- “~80 significant browsers / operating system combinations”
 - @tmaslen



Why (should I use it)?

- Also bigger screens:
 - ‘Retina’ and ‘Pixel’ displays
 - TVs and consoles



Why (should I use it)?



Why (should I use it)?



Anna Debenham

@anna_debenham



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https://twitter.com/anna_debenham/status/314056959005429760

Why (should I use it)?

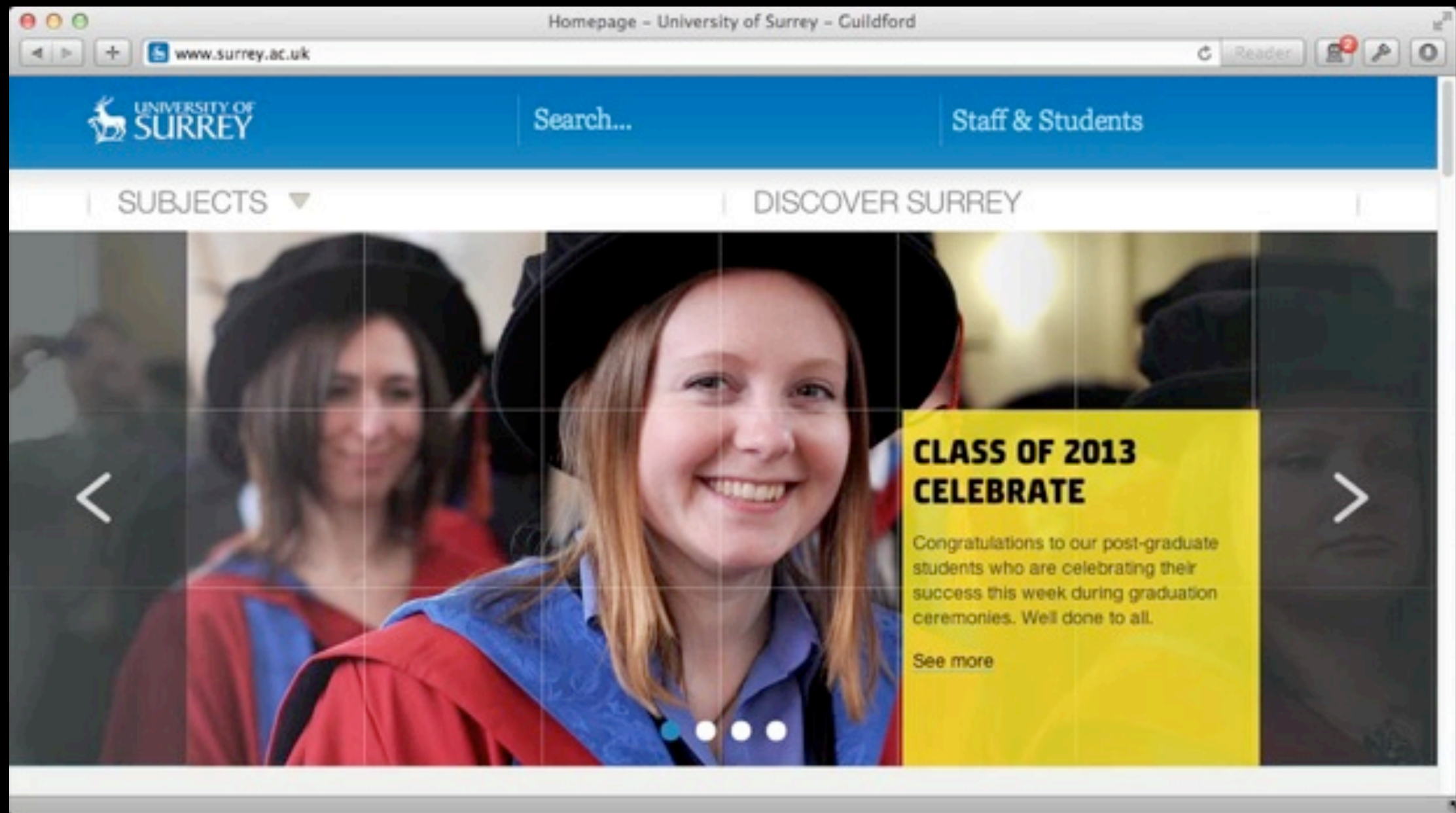
- Test your own site(s):
 - Responsive Design Bookmarklet
<http://responsive.victorcoulon.fr>
 - Responsive.is
<http://responsive.is>
 - Aptus (OS X app)
<https://itunes.apple.com/gb/app/aptus/id510487565?mt=12>
 - BrowserStack
<http://www.browserstack.com/>

Examples of websites



<https://www.rijksmuseum.nl>

Examples of websites



<http://www.surrey.ac.uk/>

Examples of websites



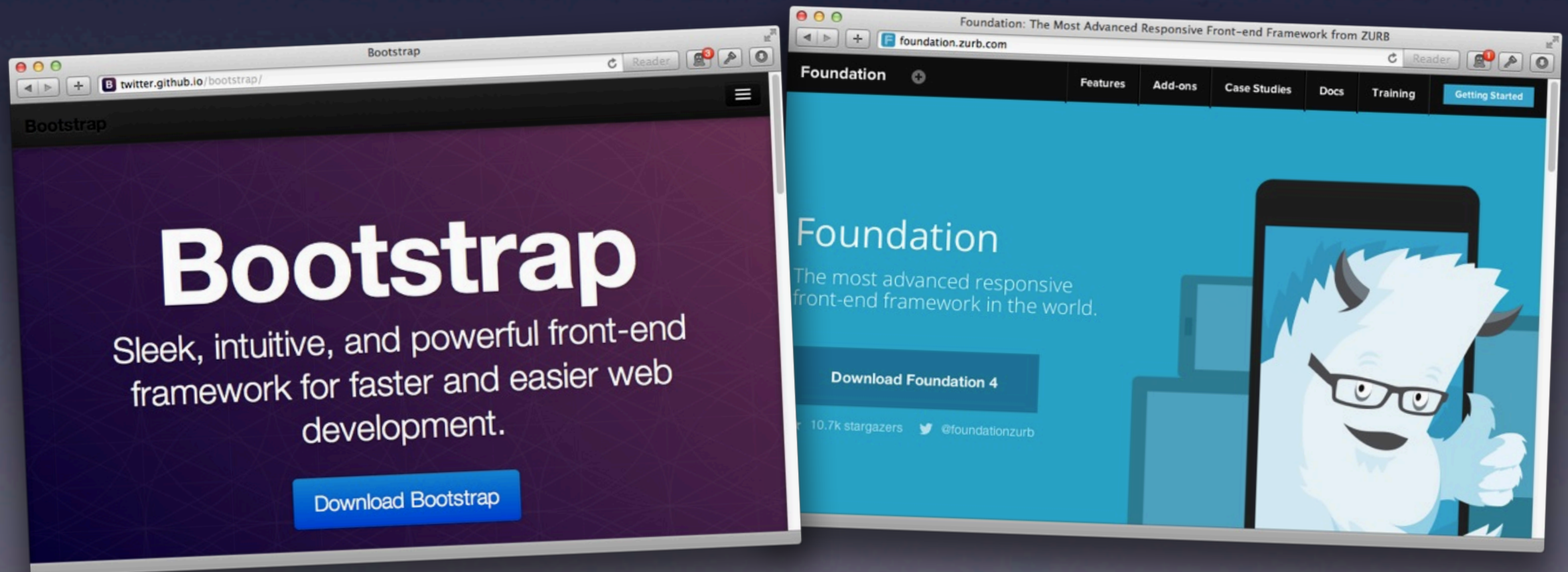
<http://stuffandnonsense.co.uk/projects/320andup/>

Grid Systems

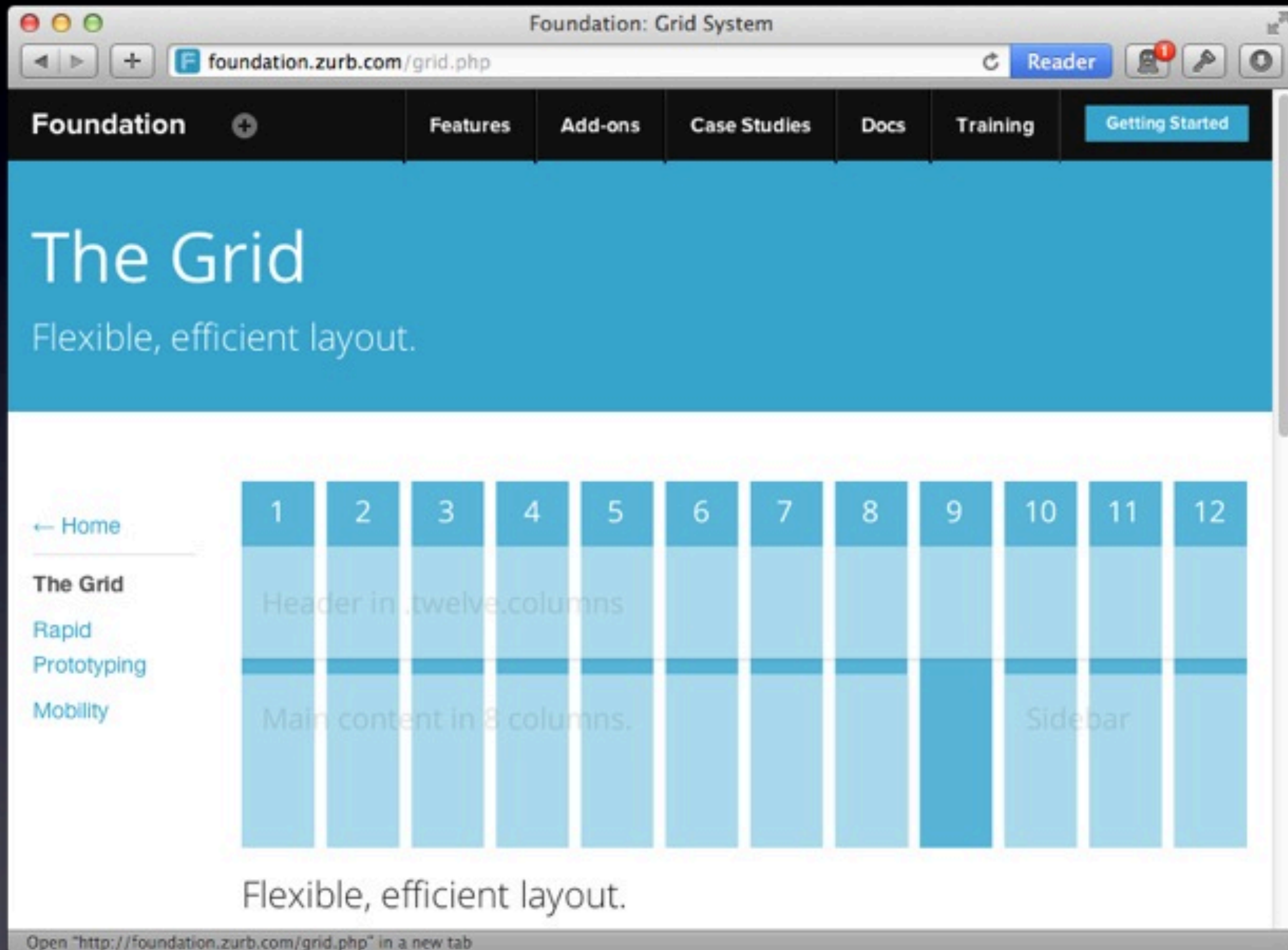
- Unsemantic fluid grid system / CSS framework
<http://unsemantic.com/>
- Golden Grid System
<http://goldengridsystem.com/>
- The Goldilocks Approach
<http://goldilocksapproach.com/>

UI Frameworks

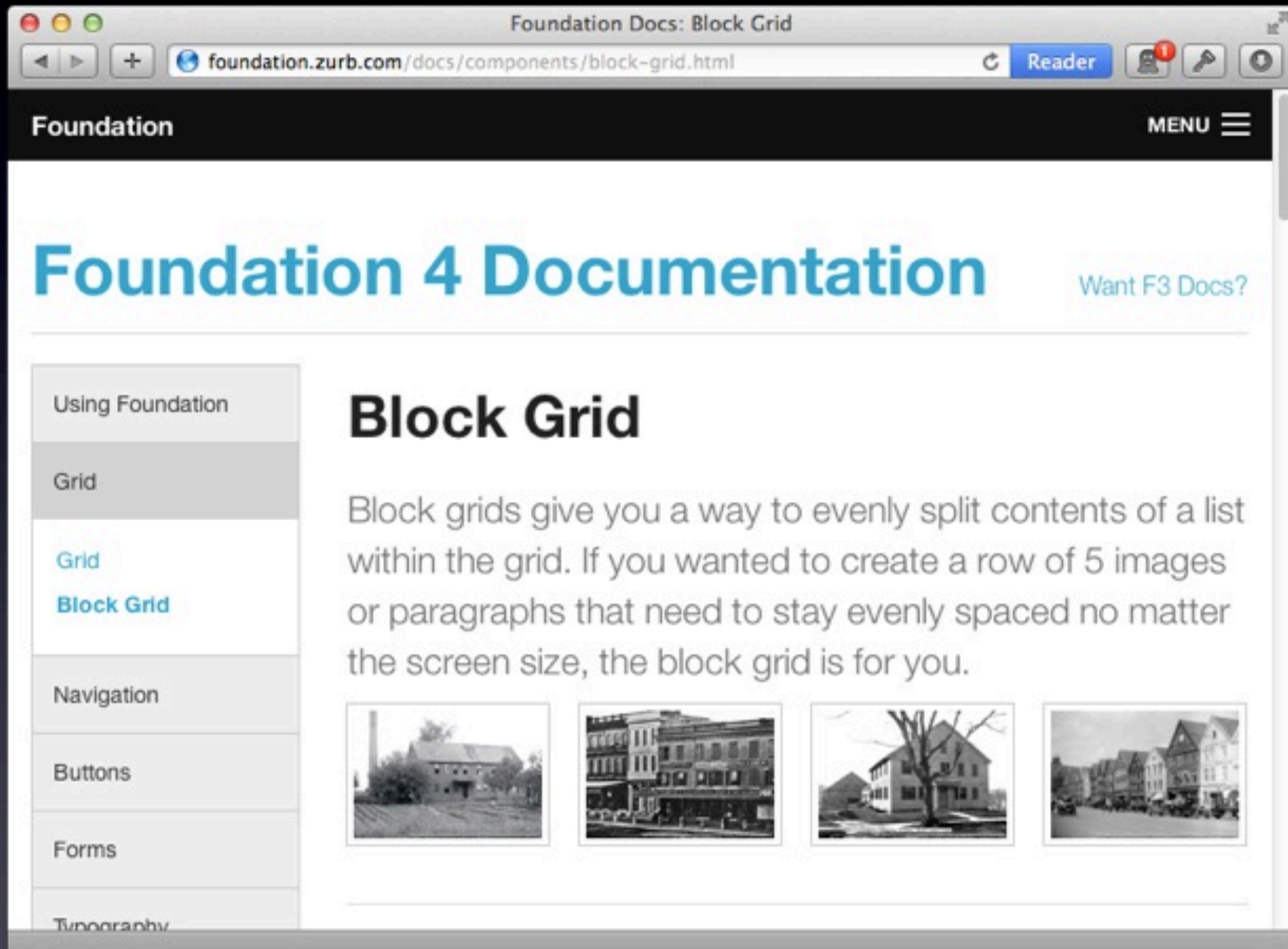
- Twitter Bootstrap
<http://twitter.github.io/bootstrap/>
- ZURB Foundation
<http://foundation.zurb.com/>



ZURB Foundation



ZURB Foundation



ZURB Foundation

Using Foundation

Grid

Navigation

Buttons

Forms

Typography

CSS Components

Global Styles

Alert Boxes

Panels

Pricing Tables

Progress Bars

Tables

Thumbnails

Foundation Docs: Flex Video

foundation.zurb.com/docs/components/flex-video.html

Reader

Flex Video

If you're embedding a video from YouTube, Vimeo, or another site that uses `iframe`, `embed` or `object` elements, you can wrap your video in **`div.flex-video`** to create an intrinsic ratio that will properly scale your video on any device.

New York - Bacon Pancakes for 10 Minutes



4:3 is the default size for the `.flex-video` element, and the assumption for `.flex-video` for chrome (controls) height is based on YouTube.



Because Vimeo places their chrome on the player itself, adding a class of `.vimeo` creates a container that is sized for the video only — no extra padding for the controls.

Themes

- Drupal - ZURB Foundation 4 theme, many responsive themes
- Plone - Responsive Diazo
- WordPress - <http://responsivethemes.org/>

Further reading & listening

- Responsive Web Design by Ethan Marcotte
<http://www.abookapart.com/products/responsive-web-design>



Further reading & listening

- Mobile First by Luke Wroblewski
<http://www.abookapart.com/products/mobile-first>



Further reading & listening

- Responsive Day Out, Friday, 1 March 2013
The Corn Exchange, Brighton, England
 - <http://responsiveconf.com/>
 - <http://huffduffer.com/adactio/tags/responsiveconf/>

Further reading & listening

- Twitter
 - Ethan Marcotte (@beep) @RWD

Thanks & Acknowledgements

- @tomgrinsted - Guardian Mobile slides
- @garrettc - UX Oxford talk
<https://pinboard.in/u:garrettc/t:uxoxford2012/>
- @monicams - Responsive Day Out notes
<http://monicams.com/blog/responsive-day-out/>
- @djlittle - Example websites

Questions?

john.pilbeam@bodleian.ox.ac.uk

@jpilbeam