Mobile Drupal:
Drupal手機版:
Building a mobile theme
手機的版型開發

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Traditional way to support mobile
手機版傳統開發方式

- Build a separate mobile website
  製作手機版網頁

- Detect mobile device
  偵測手機裝置

- Redirect to mobile site
  轉到手機版網頁

This is really hard!　這真的很難！

Responsive Design
彈性網頁設計

- Single source of HTML
  單一原始HTML

- Responds to different viewport sizes
  根據瀏覽器大小調整內容

- First described by Ethan Marcotte's article
  初見於Ethan Marcotte的文章

  "Responsive Web Design"
  http://www.alistapart.com/articles/responsive-web-design

Building a responsive mobile theme
建立彈性手機版型

- Mobile First 手機優先

- Responsive Design 彈性設計

    1. Flexible Grids 彈性大小網格

    2. Flexible Images 彈性大小圖片

    3. CSS3 Media Queries
       CSS3的Media Queries

Mobile device zooming
手機上的內容縮放

- Meta tags can control the scaling/zooming of mobile devices
  使用Meta tags控制手機裝置的比例和縮放

- More info: 其他資訊
  http://davidbcalhoun.com/2010/viewport-metatag

```
<meta name="viewport"
  content="width=device-width, initial-scale=1">
<meta name="MobileOptimized" content="width">
<meta name="HandheldFriendly" content="true">
```

Flexible grids
彈性大小網格

- Use percentages to set grid sizes
  使用百分比設定網格大小

  .content { width: 62.5%; } // 5 grids
  .sidebar { width: 37.5%; } // 3 grids

- Grid will grow/shrink with the screen size
  網格根據視窗大小變大/縮小

- Target ÷ context = result
  目標 ÷ 背景 = 結果

Flexible images
彈性大小圖片

- Use max-width to constrain images within the flexible grid.
  使用 max-width 屬性來限制彈性網格裡的圖片大小

- img, embed, iframe, object, video {
    max-width: 100%;
  }

How do we target different screen sizes?
如何指定不同的視窗大小？

- With CSS2 media types we could target different classes of devices:
  使用CSS2的media types來指定不同裝置的class:

  print, screen, handheld, all

- With CSS3 media queries we target device capabilities.
  使用CSS3的media queries指定裝置性能

  - [type] and ([query])

  - all and (max-width: 768px)

3 ways to query
三種query方式

1. `<link rel="stylesheet" href="wide.css" media="screen and (min-width: 992px)">`

2. `@import url(wide.css) screen and (min-width: 992px);`

   theme.info:
   stylesheets[screen][] = file.css

   stylesheets[screen and (min-width: 992px)][] = file.css

3. `@media screen and (min-width: 992px) {`
   `  .selector { property: value; }`
   `}`

Breakpoints 中斷點

320px — iPhone in portrait mode
iPhone的直向模式

480px — iPhone in landscape mode
iPhone的橫向模式

768px — iPad in portrait mode
iPad的直向模式

992px — small laptop (minus browser chrome)
小筆電

1200px — large desktop
大型桌機

Dealing with IE 6-8
IE6~8的處理

▶ IE8 and earlier don't support media queries
IE8之前不支援media queries

1. They do support IE conditional comments
但有支援IE conditional comments

2. They do support JavaScript polyfills
但有支援JavaScript polyfills

Dealing with IE 6-8
IE6~8的處理

Conditional Stylesheets module:
http://drupal.org/project/conditional_styles

```
<!--[if lte IE 8]>
<link src="/css/layout/desktop.css">
<![endif]-->
```

Dealing with IE 6-8
IE6~8的處理

Scott Jehl, Filament Group
Respond.js

https://github.com/scottjehl/Respond

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3. CSS3 Media Queries
   CSS3的Media Queries

Zen 7.x-5.x-dev

http://john.albin.net/

Related Topics 相關主題

- HTML5
  http://html5doctor.com/how-to-use-html5-in-your-client-work-right-now/

- CSS3
  http://www.css3.info

- Progressive enhancement
  http://www.alistapart.com/articles/understandingprogressiveenhancement

- JavaScript polyfills
  http://remysharp.com/2010/10/08/what-is-a-polyfill

- Front-end Performance 前端效能
  http://developer.yahoo.com/performance/rules.html