

Responsive Content: A CSS-based Approach

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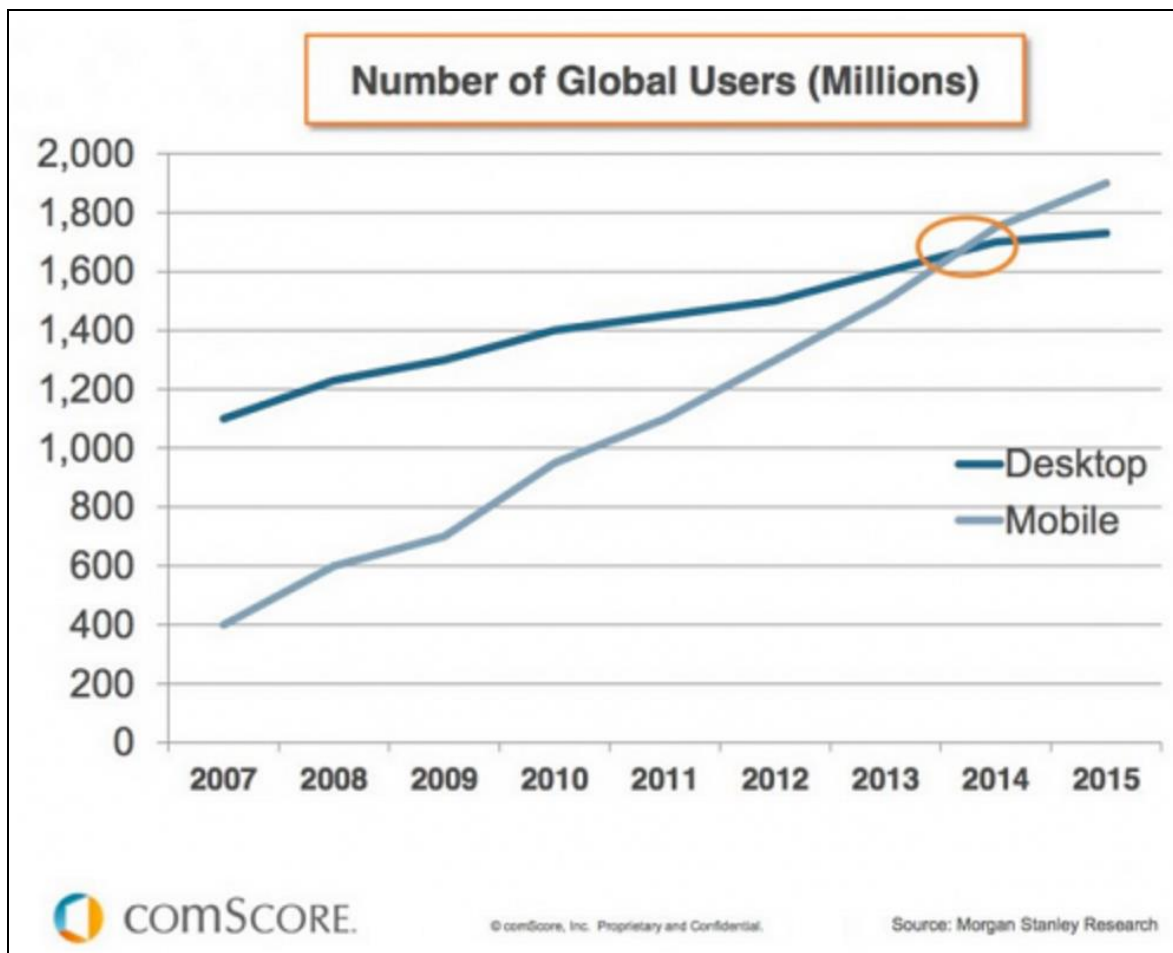
ClickStart – www.clickstart.net

In this session, I will present a CSS-based approach for providing responsive content. This method can be used with HTML5's responsive output option to adapt topic content for desktops, tablets, and phones. We will discuss how to use this approach to show/hide, redesign, and reword/replace content based on the device. I will share working examples that attendees can apply to their own projects, and we will explore options for extending this method for complex situations.

Overview

- Why responsive content is important
- Design challenges and the solution
- Content challenges and the solution
- Responsive content examples

Why mobile?



source: techcrunch.com/2014/08/21/majority-of-digital-media-consumption-now-takes-place-in-mobile-apps

The problems

- Content
- Design

How going mobile changes design

Everything needs respond to screen size

- Text
- Tables
- Images
- Navigational elements

The design solution - responsive web design (RWD)

Ethan Marcotte 2010

Examples

www.bostonglobe.com
www.change.org
www.foodsense.is

How going mobile changes content

Everything needs to respond to screen size

- Terminology
- Writing style
- Information blocks
- Navigation and interactivity

The content solution - responsive web content (RWC)

- RWC media queries and style classes
- `display` property (plus `visibility` and `height` for ``)

RWC - the code

```
/* phone */
@media (max-width: 767px) {
  body .phone { display: block; }
  body span.phone { display: inline; }
  body img.phone { display: inline; }
  body li.phone { display: list-item; height: auto; visibility: visible; }
  body table.phone { display: table; }
  body tr.phone { display: table-row; }
}
```

```

/* tablet */
@media (min-width: 768px) and (max-width: 1279px) {
  body .tablet { display: block; }
  body span.tablet { display: inline; }
  body img.tablet { display: inline; }
  body li.tablet { display: list-item; height: auto; visibility: visible; }
  body table.tablet { display: table; }
  body tr.tablet { display: table-row; }
}

/* desktop */
@media (min-width: 1280px) {
  body .desktop { display: block; }
  body span.desktop { display: inline; }
  body img.desktop { display: inline; }
  body li.desktop { display: list-item; height: auto; visibility: visible; }
  body table.desktop { display: table; }
  body tr.desktop { display: table-row; }
}

.phone { display: none; }
.tablet { display: none; }
.desktop { display: none; }
li.phone { display: block; height: 0; visibility: hidden; }
li.tablet { display: block; height: 0; visibility: hidden; }
li.desktop { display: block; height: 0; visibility: hidden; }

```

For the latest version of the code, see www.clickstart.net and www.responsivewebcontent.com (coming soon).

RWC - words

```
<span class="desktop">Click</span><span class="phone tablet">Tap</span> Home.
```

RWC - paragraphs

```

<p class="desktop">This sentence is for desktops.</p>
<p class="tablet">This sentence is for tablets.</p>
<p class="phone">This sentence is for phones.</p>

```

RWC - lists

```

<ul class="desktop">
  <li>Desktop</li>
  <li>Desktop</li>
  <li>Desktop</li>
</ul>
<ul class="tablet">
  <li>Tablet</li>
  <li>Tablet</li>
  <li>Tablet</li>
</ul>
<ul class="phone">

```

```
<li>Phone</li>
<li>Phone</li>
<li>Phone</li>
</ul>
```

RWC - items in a list

```
<ol>
  <li>A - Desktop</li>
  <li>B - Desktop</li>
  <li class="phone">C - Phone</li>
  <li>D - Desktop</li>
</ol>
```

RWC - images

```
<p></p>
```

RWC - tables

```
<table class="phone">
  <col />
  <col />
  <thead>
    <tr>
      <th>Phone</th>
      <th>Phone</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>phone</td>
      <td>phone</td>
    </tr>
    <tr>
      <td>phone</td>
      <td>phone</td>
    </tr>
  </tbody>
</table>
```

RWC - rows in a table

```
<table>
  <col />
  <col />
  <thead>
    <tr>
      <th>Heading</th>
      <th>Heading</th>
    </tr>
  </thead>
```

```
<tbody>
  <tr class="desktop">
    <td>desktop</td>
    <td>desktop</td>
  </tr>
  <tr class="tablet">
    <td>tablet</td>
    <td>tablet</td>
  </tr>
  <tr class="phone">
    <td>phone</td>
    <td>phone</td>
  </tr>
</tbody>
</table>
```

RWC – sample files

See www.clickstart.net and www.responsivecontent.com (coming soon) for sample files.

About the presenter

Scott DeLoach is the Founder of Click**Start**, where he provides training and consulting for MadCap Flare, Adobe Captivate, embedded user assistance, CSS, and HTML5. He has been developing browser-based help systems since 1997, and he has received four Best in Show awards for his work from STC.

Scott is a certified Flare and Captivate instructor, and he is the author of *MadCap Flare Developer's Guide*, *CSS to the Point*, *HTML5 to the Point*, and *Word 2013 to the Point*. For more information about Scott's books see www.lulu.com/clickstart.

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