Useful Scripts for Better Browser Support

HTML5 Elements: html5shiv.js

Source code adds new HTML5 elements (which is simple code), but also supports printing HTML5 elements and includes the default styles for HTML5 elements, like block on article and section.

- https://code.google.com/p/html5shiv/
- https://github.com/aFarkas/html5shiv

MediaQueries css3-mediaqueries.js or respond.js

Media query is not supported by Internet Explorer 8 or older. Include css3-mediaqueries.js (or respond.js) for support.

- http://code.google.com/p/css3-mediaqueries-js/
- https://github.com/scottjehl/Respond

```
<!--[if lt IE 9]>
        <script src="http://css3-mediaqueries-js.googlecode.com/files/css3-
mediaqueries.js"></script>
        <script src="http://html5shim.googlecode.com/svn/trunk/html5.js"></script>
<![endif]-->
```

css3-mediaqueries.js vs respond.js	respond.js
Pros	**Pros**
• Supports min, max and min+max mediaqueries • Supports px and em values • Reacts on window resize • Elaborates on-page CSS (<style>) and external stylesheets	• Supports min, max and min+max mediaqueries • Supports px and em values • Reacts on window resize • **Elaborates external stylesheets only**
Cons	**Cons**
• **Doesn't support width mediaquery** • Doesn't elaborate <link media="screen and ..."> nor @imported stylesheet	• **Doesn't support width mediaquery** • Doesn't elaborate on-page CSS, <link media="screen and ..."> nor @imported stylesheets • It may cause a javascript error when combined with jQuery on load events, to solve it you need to place the script at the end of the page
CSS3-mediaqueries.js is indicated only if you have **particular conditions** to query (other than width and height), but it weights 15 freaking kilobytes!	So you should use respond.js and switch to css3-mediaqueries.js only if the first doesn't fit your needs.

Other options are:

- Use a **separate style sheet** to load conditionally on old Internet Explorer versions, or separate style rules to apply based on the body class
- Use a **javascript fallback** (using **respond.js** or **css3-mediaqueries.js**)

In case of javascript fallback, the best may be **respond.js**, in the following case:

- Desktop support is a primary high concern;
- You are querying only the width and height of the browser;
- You don't want to query the width by ems;
- You have no problem with non-JavaScript users seeing an unoptimized page

Standards-compliant Browsers: IE7.js

IE7.js is a JavaScript library to make Microsoft Internet Explorer behave like a standards-compliant browser. It fixes many HTML and CSS issues and makes transparent PNG work correctly under IE5 and IE6.

- http://code.google.com/p/ie7-js/