REAL-WORLD RESPONSIVE DESIGN

STEPHEN HAY

MAY 25, 2010

Responsive Web Design

by ETHAN MARCOTTE

Published in: CSS, Layout, User Interface Design

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Topics

- Code
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- Culture
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- Process
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Snapshot

Learn how to use fluid grids, flexible images, and media queries to create elegant user experiences with responsive web design.

http://www.alistapart.com/articles/responsive-web-design/

BRAIN ANALYSIS: ETHAN MARCOTTE

fig. 1 : normal brain

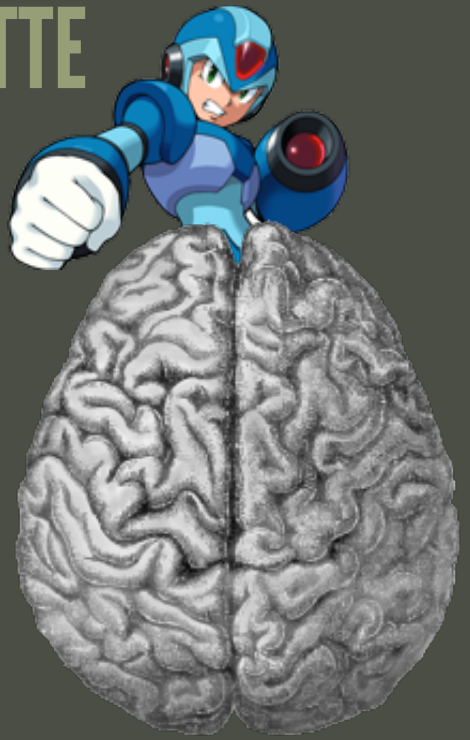

fig. 2 : unstoppable robot brain

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FLUID GRIDS & MEDIA QUERIES

The Baker Street
INQUIRER

THE
WEBLOGUE

BACK
ISSUES

ABOUT
OUR PAPER

“Give me problems, give me *work*.”

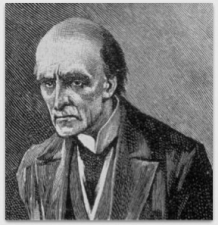
In the year 1878 I took my degree of Doctor of Medicine of the University of London, and proceeded to Netley to go through the course prescribed for surgeons in the army. Having completed my studies there, I was duly attached to the Fifth Northumberland Fusiliers as Assistant Surgeon. The regiment was stationed in India at the time, and before I could join it, the second Afghan war had broken out. On landing at Bombay, I learned that my corps had advanced through the passes, and was already deep in the enemy's country.

victors & villains

SHERLOCK
HOLMES

DR JOHN HEMISH
WATSON

MYCROFT
HOLMES



PROF JAMES
MORIARTY

IRENE
ADLER

JAMES
WINTER

Illustrations by Sidney Paget, words by Sir Arthur Conan Doyle.
What remains is by Ethan Marcotte.

1440 PX

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1024 PX

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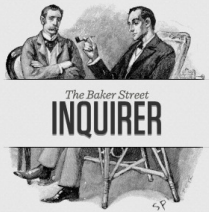
800 PX



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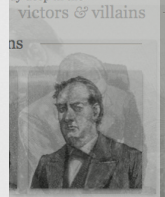

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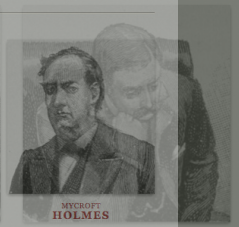
HOLMES



MYCROFT
HOLMES

MYCROFT
HOLMES

JAMES
WINTER

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DISCUSSION

MEDIA QUERIES: SILVER BULLET OR FOOL'S GOLD? NEITHER.

> *"Media queries will make you happier, increase your stamina and instantly make your site mobile-friendly!* *COUGH*

DESKTOP > MOBILE

CONSIDERATIONS

SCREEN SIZE
RESOLUTION
PIXEL DENSITY
@MEDIA SUPPORT
PERFORMANCE

THERE IS A BIGGER PICTURE.

DATA >

PLATFORM AGNOSTIC
VS
PLATFORM AWARE

PLATFORM AGNOSTIC

for

CONTENT & KEY SCENARIOS

PLATFORM AWARE

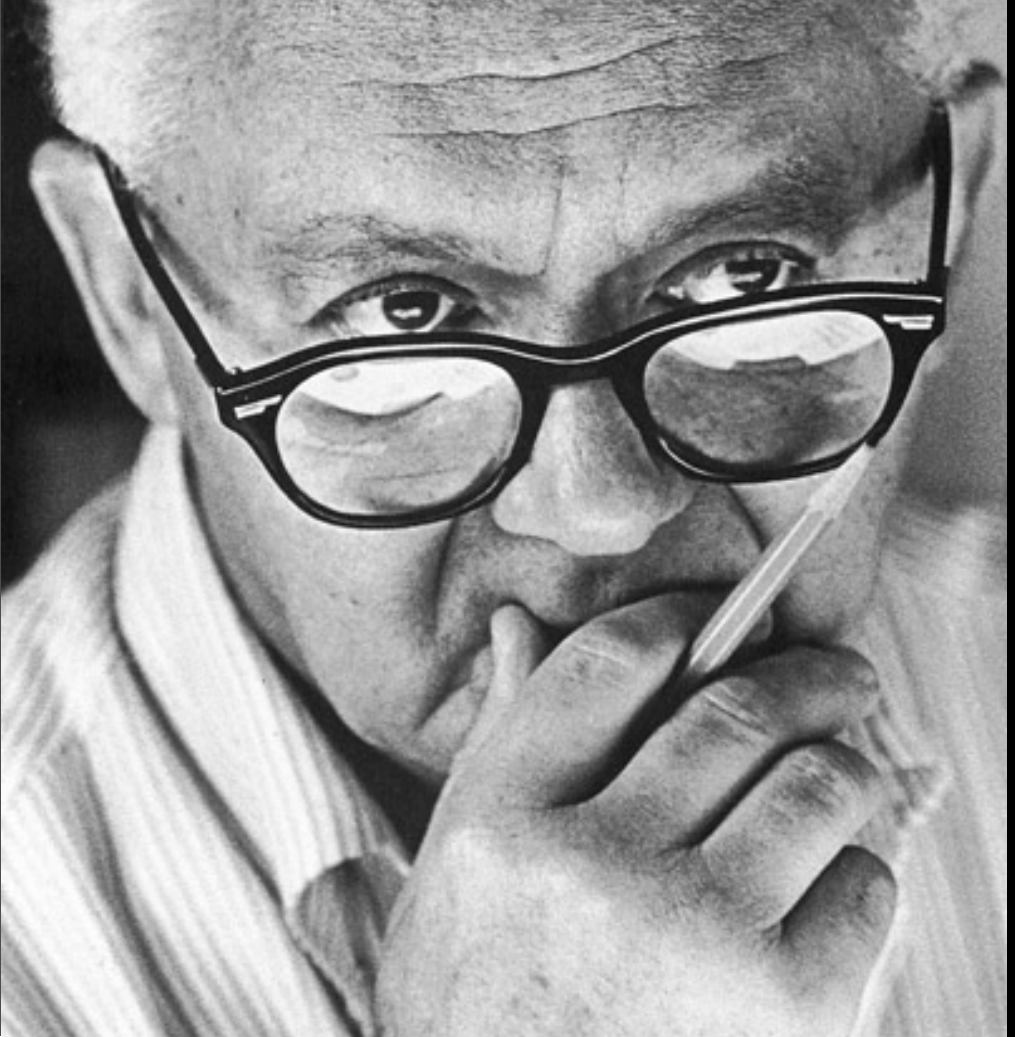
for USER EXPERIENCE

EXPERIENCE

STRUCTURED CONTENT
PRESENTATION
BEHAVIOR
PURPOSE
INTERACTION
CIRCUMSTANCES

ABSTRACTION

BUT...



Design is the method of putting form and content together.

– PAUL RAND

LAYOUT != DESIGN

ADAPTIVE LAYOUT

TECHNIQUES:
NOW

THE MEDIA QUERY

```
@media all and (min-width: 600px) {
    body {
        // desktop-specific stuff
        }
    }
```

http://www.w3.org/TR/css3-mediaqueries/

IN JAVASCRIPT

```
if (document.documentElement.clientWidth > 600) {
 // desktop-specific stuff
}
```

http://www.quirksmode.org/blog/archives/2010/09/combining_meta.html

PROGRESSIVE ENHANCEMENT

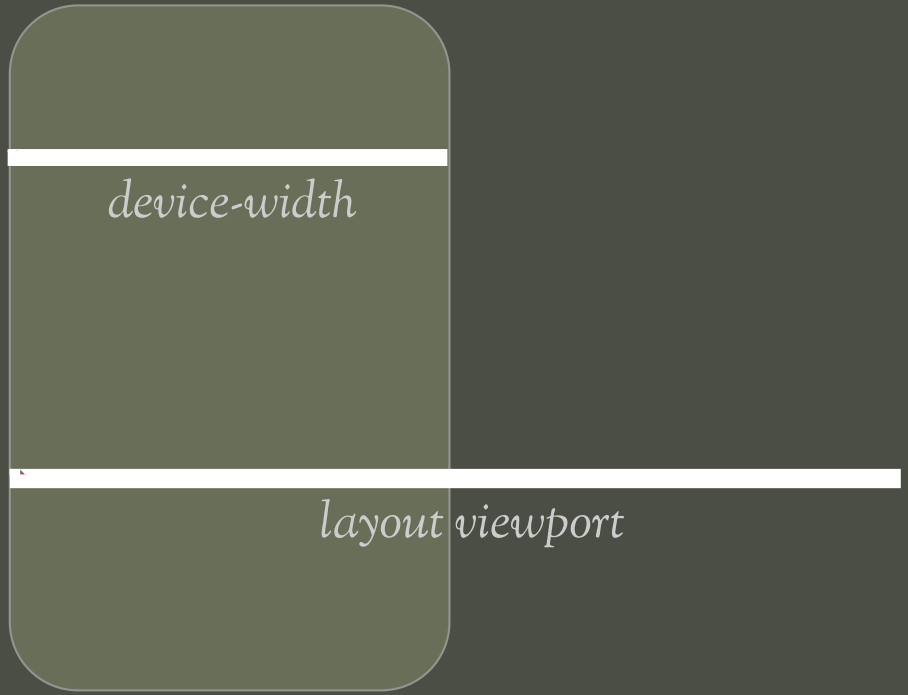
INCLUDE, DON'T REMOVE

MOBILE FIRST:
STRUCTURED CONTENT FIRST

EMBRACE UNCERTAINTY

USE FLUID GRIDS
NOT SEVERAL FIXED GRIDS

FLUID GRIDS = LESS QUERIES


device-width
layout viewport

META VIEWPORT

```
<meta name="viewport"
    content="width=device-width">
```

IN COMBINATION WITH WIDTH MEDIA QUERY

http://www.quirksmode.org/blog/archives/2010/09/combining_meta.html

SVG

http://unstoppablerobotninja.com/
http://www.quirksmode.org/blog/archives/mobile/index.html
http://adactio.com/
http://bryanrieger.com/
http://www.slideshare.net/bryanrieger/rethinking-the-mobile-web-by-yiibu
http://www.the-haystack.com/

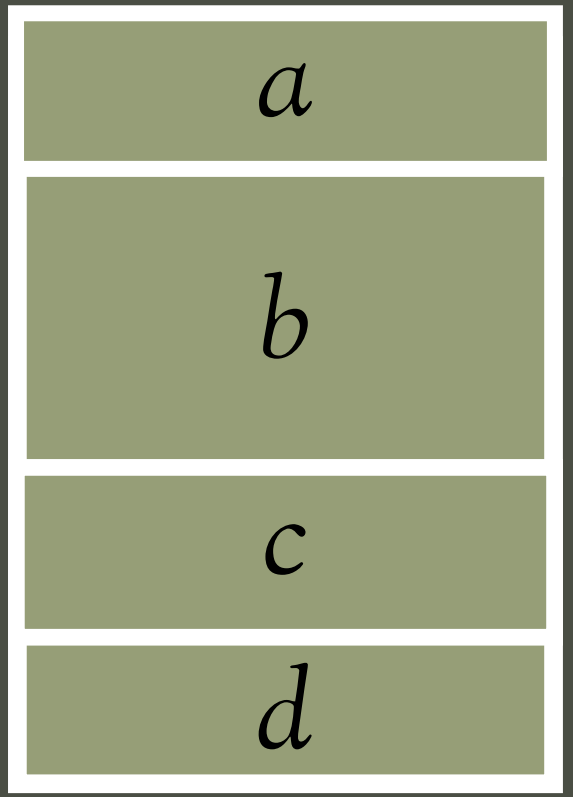
TECHNIQUES:
FUTURE

CSS3
TEMPLATE LAYOUT MODULE

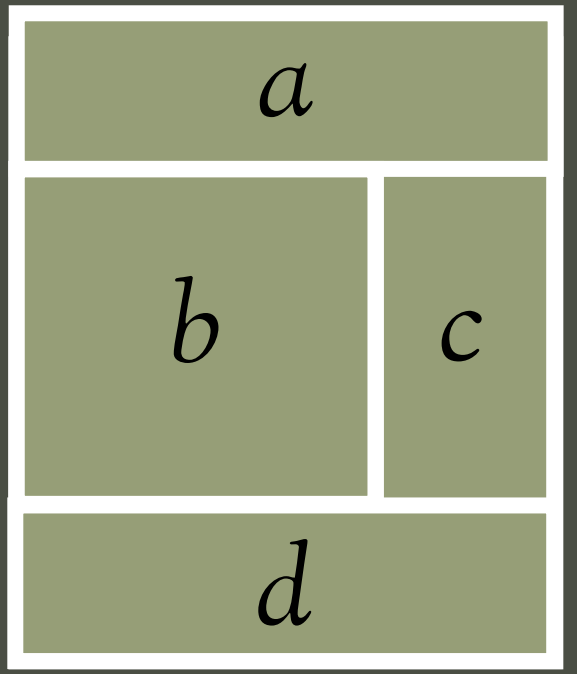
http://www.w3.org/TR/css3-layout/

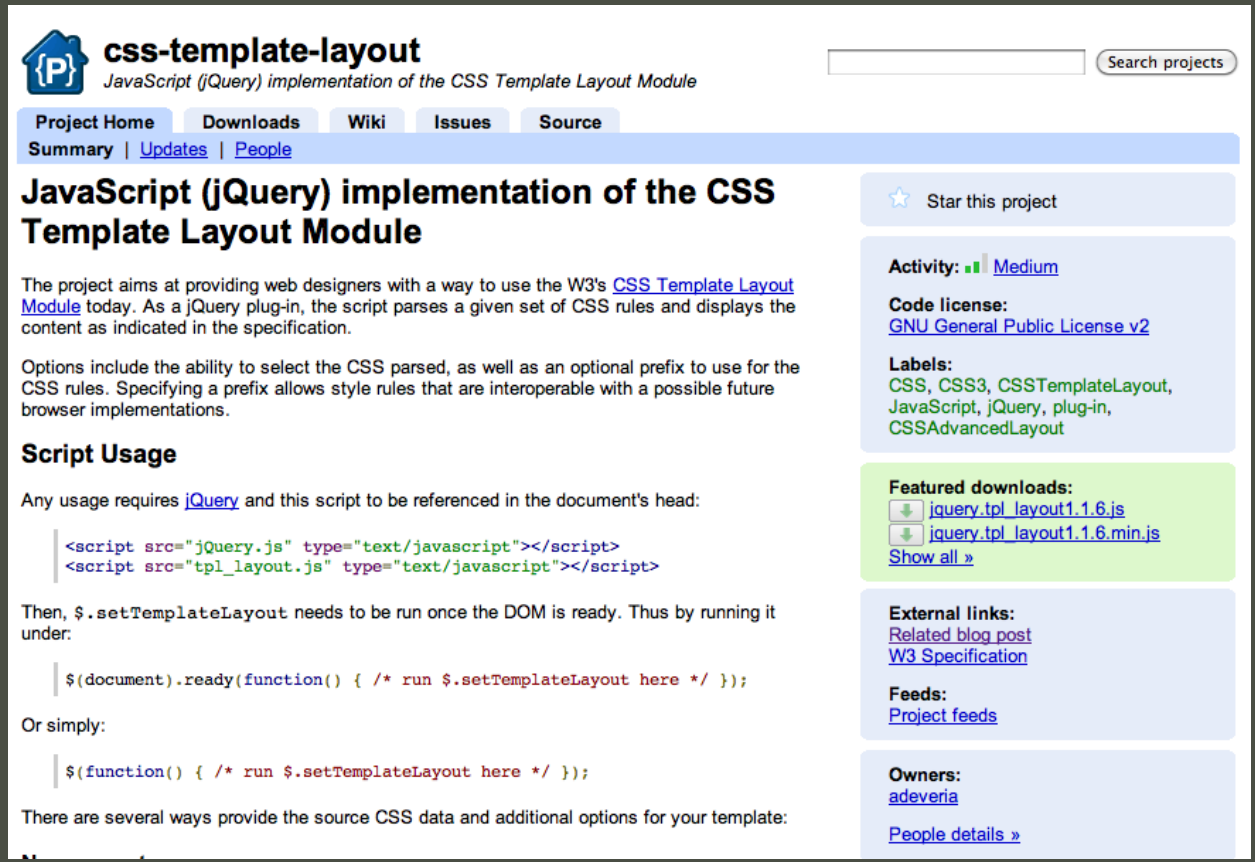
http://www.slideshare.net/stephenhay/the-future-state-of-layout

```
body {
    display: "a"
             "b"
             "c"
             "d";
    }
```



```
body {
     display: "a a a"
              "b b c"
              "d d d";
     }
```





css-template-layout

JavaScript (jQuery) implementation of the CSS Template Layout Module

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Summary | Updates | People

JavaScript (jQuery) implementation of the CSS Template Layout Module

The project aims at providing web designers with a way to use the W3's CSS Template Layout Module today. As a jQuery plug-in, the script parses a given set of CSS rules and displays the content as indicated in the specification.

Options include the ability to select the CSS parsed, as well as an optional prefix to use for the CSS rules. Specifying a prefix allows style rules that are interoperable with a possible future browser implementations.

Script Usage

Any usage requires jQuery and this script to be referenced in the document's head:

```
<script src="jQuery.js" type="text/javascript"></script>
<script src="tpl_layout.js" type="text/javascript"></script>
```

Then, `$.setTemplateLayout` needs to be run once the DOM is ready. Thus by running it under:

```
$(document).ready(function() { /* run $.setTemplateLayout here */ });
```

Or simply:

```
$(function() { /* run $.setTemplateLayout here */ });
```

There are several ways provide the source CSS data and additional options for your template:

Star this project

Activity: Medium

Code license:
GNU General Public License v2

Labels:
CSS, CSS3, CSSTemplateLayout, JavaScript, jQuery, plug-in, CSSAdvancedLayout

Featured downloads:
jquery.tpl_layout1.1.6.js
jquery.tpl_layout1.1.6.min.js
Show all »

External links:
Related blog post
W3 Specification

Feeds:
Project feeds

Owners:
adeveria

People details »

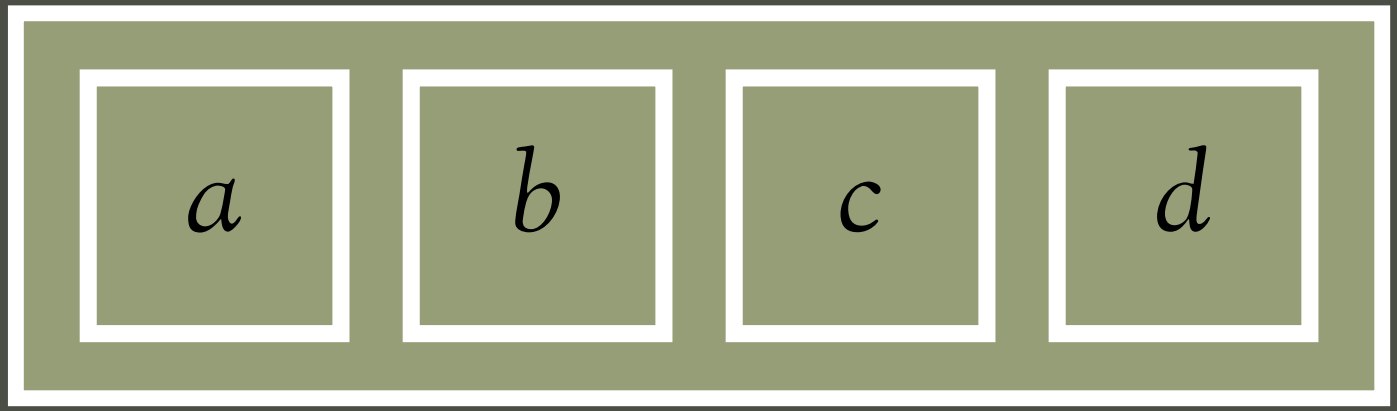
http://code.google.com/p/css-template-layout/

CSS3
FLEXIBLE BOX LAYOUT MODULE

http://www.w3.org/TR/css3-flexbox/

http://www.the-haystack.com/2010/01/23/css3-flexbox-part-1/

```
div {
    display: box;
    box-orient: horizontal;
}
```



SERVER-SIDE SOLUTIONS?

bryanrieger.com

fig. 3: he's not angry, just determined

CONSIDER THE BIGGER PICTURE.

ASK THESE QUESTIONS:

1. WHO IS THE USER?
2. WHAT IS THEIR PURPOSE?
3. WHAT ARE THEIR CIRCUMSTANCES?
4. WHAT WILL THEY (NEED TO) DO?

LET'S TURN ADAPTIVE LAYOUT INTO REAL RESPONSIVE DESIGN.

THANK YOU!

Special thanks to ppk, Bryan Rieger & Ethan Marcotte

twitter.com/stephenhay