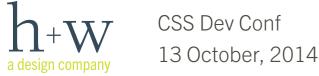
Text (504) 229-6828 with #rwdtype 5 (comment)

### **Responsive Typography**

Design for Meaning, Not for Screen Size



### What We'll Cover

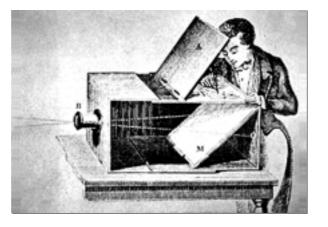
- + Lies & deceptions about art & science
- + Understanding the value of hats
- + What is Responsive Typography
- + Practicing the Four P's



#### Art & Science: A Historical Romance



DaVinci? That guy would code



Vermeer: *Master or Technician?* 



Tim Jenison Artist or Inventor?



#### Is Tim an artist or is Tim an inventor? I think the problem is not trying to pick one of these things for Tim to be – *the problem is that we have that distinction*

-Penn Jillette in 'Tim's Vermeer'



# Art is inherently tied to the technology we use to create it

No matter how much we try to ignore it

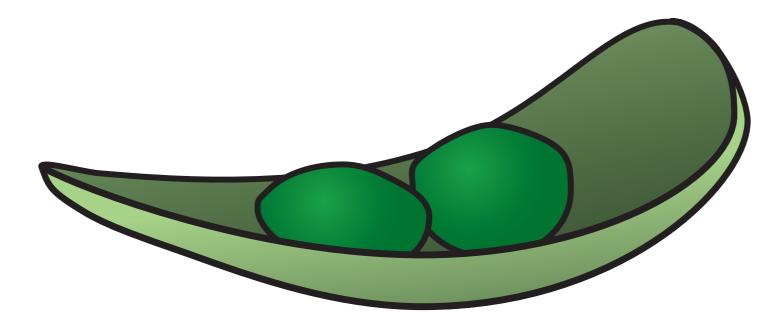


#### **Art+Science**



### Design+Development







#### When is our industry going stop calling it "web" typography?

@sblakeborough, via twitter



#### We can't.

- + (Insert Ginger Rogers analogy here)
- + Encompasses all of what you know about type & its use *but*
- + Typography on the web requires additional consideration (*art* & *science*)
- + Our canvas is fluid; constantly expanding & contracting
- + Reading on screens will only increase



+ Words have meaning, *but letters have emotion* 

# l love you



+ Words have meaning, *but letters have emotion* 

### I love you



#### + Words must first be read before they can be understood

Four score and seven years ago our fathers brought forth on this continent, a new nation, conceived in Liberty, and dedicated to the proposition that all men are created equal.



#### + Words must first be read before they can be understood

Four score and seven years ago our fathers brought forth on this continent, a new nation, conceived in Liberty, and dedicated to the proposition that all men are created equal.



- + Legible means you *can* read it
- + Readable means you might actually **want** to

#### A tale of a curious affliction



- + Legible means you *can* read it
- + Readable means you might actually **want** to

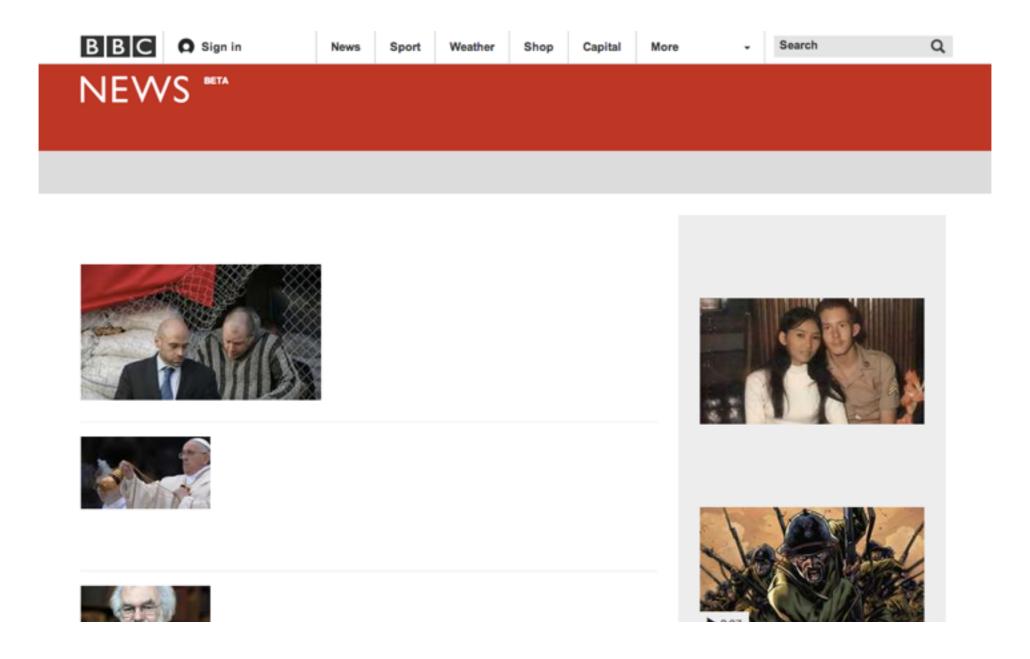
#### A tale of a curious affliction



#### A Design Dilemma: What We Don't Know

- + Screen size
- + Device capabilities
- + Concurrent activities
- + Depth of focus
- + Purpose of visit







BBC	Sign in	News	Sport	Weather	Shop	Capital	More	-	Search	Q
NEWS	BETA									
Home   Video   World   US & Canada   UK   Business   Tech   Science   Magazine   Entertainment & Arts   More -										
Top Stories	Most Read									

#### Military observer freed in Ukraine



One European military observer has been freed in Sloviansk where pro-Russian separatists are holding the rest of the team, detained on Friday.

© 29 minutes ago | Europe

#### Features & Analysis



Searching for my son A US veteran returns to find the unborn child he left in Vietnam





#### Vatican declares two popes saints

Pope Francis declares Popes John Paul II and John XXIII saints, praising them as "men of courage" in front of a crowd of hundreds of thousands.

O 9 hours ago Europe



Britain is now 'post-Christian'



President Obama: ""We will be expanding our exercises and training with allies to increase the readiness of our forces"

President Barack Obama has announced plans for a \$1bn (£600m) fund to increase US military deployments to Europe, during a visit to Poland.

Mr Obama, who will meet Nato leaders amid concerns over the Ukraine crisis, said the security of America's European allies was "sacrosanct".

In April, 150 US soldiers were sent to Poland for military exercises amid growing tensions with Russia.



	iOS Simulator - iPhone Retina (4-inch 64-bit) / iOS 7.1 (11D167)	
	Carrier 🗢 12:52 AM newyorker.com	
	SEPTEMBER 16, 2014	
	JOHN CASSIDY	
	THE INCOME CHART THAT EXPLAINS AMERICAN POLITICS	
	BY JOHN CASSIDY	
	TEMBER 16, 2014	
NEW	VS DESK	
	REFERENDUM ON THE IION JACK	
BY \	IRGINIA CANNON	
	SEPTEMBER 16, 2014	
	DAILY COMMENT	
	THE DISAPPEARING "UNDUE BURDEN" STANDARD FOR ABORTION RIGHTS	
	BY JEEEREY TOORIN	



#### Responsive Typography: Four Simple Steps

- + **Performance**: select fonts with care, load what you need & don't block the page draw
- Progressive: plan for failure, tune up the loading process & fallback fonts to minimize FOUT
- + Proportion: small screens demand subtle scale
- **Polish**: Design IS the details: OpenType & then some



#### Performance



#### **Performance Matters**

- + Great typography isn't 'I used all of them'
- + Load only what you need

Trade Gothic Next LT Pro Bold

this is a typeface

this is a font

### + Each font has a performance cost, so **budget wisely**



#### **Performance Matters**

000	Responsive Typography   Typekit	12 <sup>7</sup>
https://typekit.com/kit_editor/	kits/yjh7qxn#family-dxzd	
T Adobe Typekit Edit	OT Embed	Code   Kit Settings
Selectors Add .tk-quatro-slab Using fonts in CSS	Welcome! Here's how to use fonts: In the left column, use the <i>Selectors</i> section to apply fonts to any HTML tag, class, or id. You can a default class to your markup. Then, click Publish to see those changes on your site.	⊗ also add the
Language Support     All Characters     299k     261k     Which should I choose?	Franklin Gothic URW by URW++ AaBbCcDdEeFfGgHhliJjKkLlMmNnOoPpQqRrSsTtUuVvWwXx	⊖ <u>Delete this font</u>
<ul> <li>Weights &amp; Styles 10/10</li> <li>Include these in your kit:</li> <li>Regular 32k</li> <li>Italic 34k</li> <li>Medium 21k</li> <li>Medium Italic 23k</li> <li>Semibold 21k</li> <li>Semibold Italic 22k</li> <li>Bold 31k</li> <li>Bold 1talic 34k</li> <li>Ultra Black Italic 22k</li> <li>Ultra Black Italic 22k</li> <li>Ultra Black Italic 22k</li> </ul>	Quatro Slab by ps Type AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPpQqRrSsTtUt	Delete this font  VVWW  Changes wont
O CSS Stack		be live on your site until you publish them.
Kit Sze: 449K 2 fc hts, 2 s	electors, for Responsive Typography	Publish



#### **Performance Matters**

https://typekit.com/kit_editor/	Responsive Typography   Typekit kits/yjh7gxn#family-dxzd	12 <sup>27</sup>
T Adobe Typekit Edit		Code   Kit Settings
Selectors Add .tk-franklin-gothic-urw <u>Using fants in CSS</u>	Welcome! Here's how to use fonts: In the left column, use the <i>Selectors</i> section to apply fonts to any HTML tag, class, or id. You can default class to your markup. Then, click Publish to see those changes on your site.	also add the
Language Support     All Characters     172k     Default     90k     Which should I choose?	Pranklin Gothic URW by URW++ AaBbCcDdEeFfGgHhliJjKkLlMmNnOoPpQqRrSsTtUuVvWwXx	E Delete this font
<ul> <li>&gt; Weights &amp; Styles</li> <li>4/9</li> <li>Include these in your kit:</li> <li>Light</li> <li>21k</li> <li>✓ Book</li> <li>23k</li> <li>✓ Book Italic</li> <li>23k</li> <li>Medium</li> <li>23k</li> <li>Medium Italic</li> <li>23k</li> </ul>	Quatro Slab by ps Type AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPpQqRrSsTtUu	€ <u>Delete this font</u>
✓ Demi       22k         ✓ Demi Italic       22k         ✓ Demi Italic       22k         Heavy       15k         Heavy Italic       16k         Using weights & styles in your CSS		Ø
O CSS Stack		Changes won't be live on your site until you publish them.
Kit Sze: 121K 2 fc)ts, 2 se	electors, for Responsive Typography	Publish



### **Progressive Performance**

```
<!--- NEEDED --->
<script type="text/javascript">
 WebFontConfig = {
    google: { families: [ 'Roboto Slab:700', 'Roboto:400,400italic,700italic,700' ] }
 }:
  (function() {
    var wf = document.createElement('script');
   wf.src = ('https:' == document.location.protocol ? 'https' : 'http') +
      '://ajax.googleapis.com/ajax/libs/webfont/1/webfont.js';
   wf.type = 'text/javascript';
   wf.async = 'true';
   var s = document.getElementsByTagName('script')[0];
    s.parentNode.insertBefore(wf, s);
 })();
</script>
<!-- NEEDED FOR NO JS AVAILABILITY --->
<noscript>
    <!-- Use this in as a fallback to no javascript being available -->
    k href='http://fonts.googleapis.com/css?family=Roboto+Slab:700|Roboto:400,400italic,700italic,700'
    rel='stylesheet' type='text/css'>
</noscript>
```



#### Progressive Enhancement



### FOUT is OUR fault





#### FOUT is OUR fault





### FOUT is OUR fault

+ Use these: .wf-inactive / .wf-active
+ This CSS results in a blank screen during load:
 body { font-family: "Trade Gothic", helvetica, arial; }
+ Add this & give them content, then fonts:
 .wf-inactive body { font-family: helvetica, arial; }

- + Adjust font-size, line-height, letter-spacing to avoid jumpiness
- + Making it easy since **2010**







#### Herman Melville

August 1, 1819 - September 28, 1891

#### A Whale of a Tale

In the Propontis, as far as I can learn, none of that peculiar substance called BRIT is to be found, the aliment of the right whale. But I have every reason to believe that the food of the sperm whale—squid or cuttle-fish—lurks at the bottom of that sea, because large creatures, but by no means the largest of that sort, have been found at its surface. If, then, you properly put these statements together, and reason upon them a bit, you will clearly perceive that, according to all human reasoning, Procopius's sea-monster, that for half a century stove the ships of a Roman Emperor, must in all probability have been a sperm whale.

Though, consumed with the hot fire of his purpose, Ahab in all his thoughts and actions ever had in view the ultimate capture of Moby Dick; though he seemed ready to sacrifice all mortal interests to that one passion; nevertheless it may have been that he was by nature and long habituation far too wedded to a fiery whaleman's ways, altogether to abandon the collateral prosecution of the voyage. Or at least if this were otherwise, there were not



#### Web fonts loaded







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No web fonts, uncorrected







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No web fonts, corrected







#### Herman Melville

August 1, 1819 - September 28, 1891

#### A Whale of a Tale

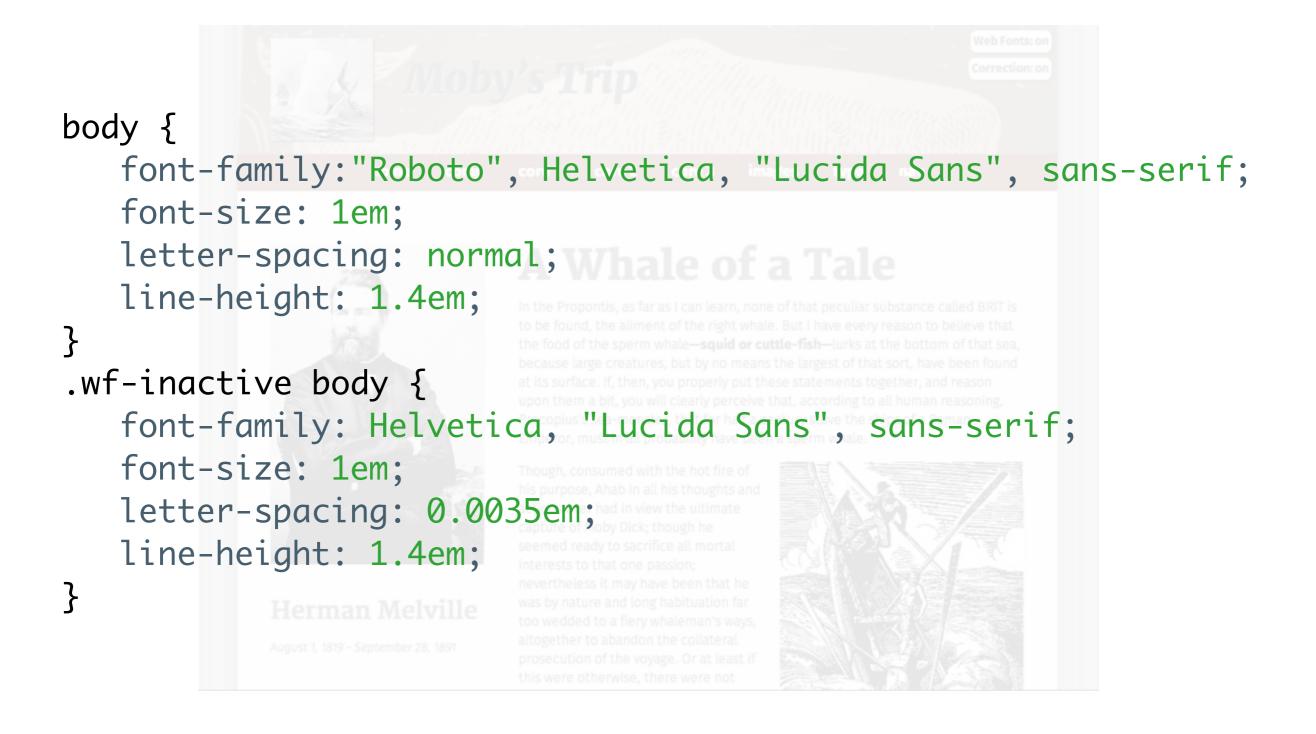
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#### Web fonts loaded







#### **Backwards Compatible, Future Friendly**

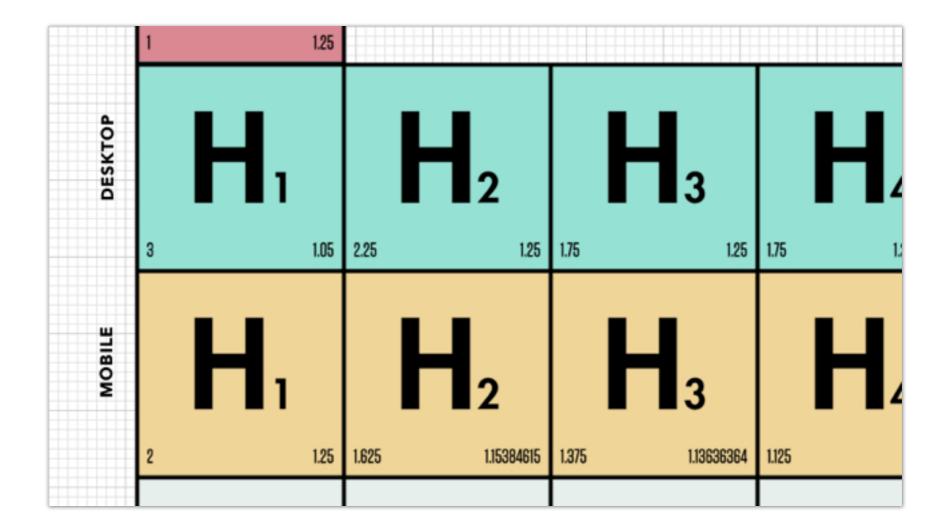
```
<!-- NEEDED ---->
<script type="text/javascript">
WebFontConfig = {
   google: { families: [ 'Roboto Slab:700', 'Roboto:400,400italic,700' ] }
};
   (function() {
      var wf = document.createElement('script');
      wf.src = ('https:' == document.location.protocol ? 'https' : 'http') +
      '!//ajax.googleapis.com/ajax/Libs/webfont/1/webfont.js';
      wf.type = 'text/javascript';
      wf.type = 'text/javascript';
      wf.async = 'true';
      var s = document.getElementsByTagName('script')[0];
      s.parentNode.insertBefore(wf, s);
    })();
```







### Proportion: one size won't do

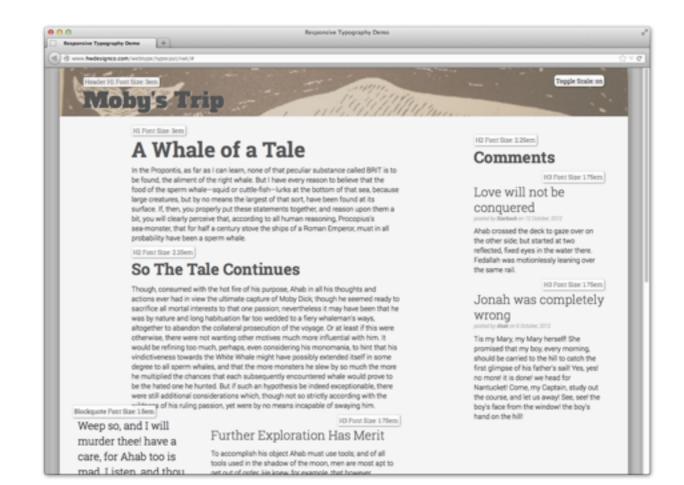




http://bit.ly/jprwt

## Desktop geese & handheld gander

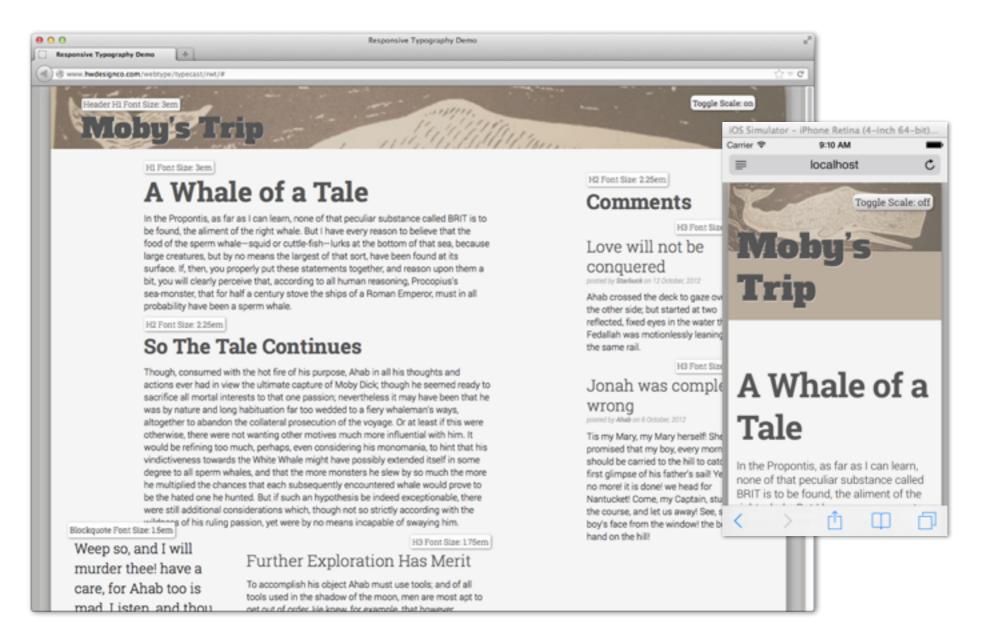
- + Small canvas requires subtle proportions
- + What works in print... works in print
- + Robert Bringhurst matters, but scale must adapt





#### http://bit.ly/jprwt

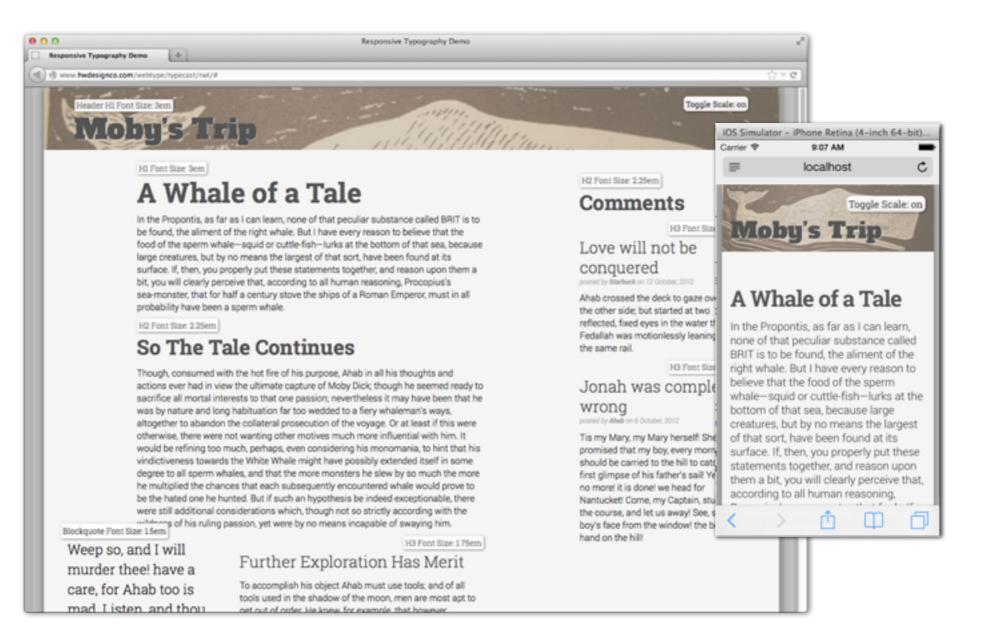
#### For example...







#### For example...





#### http://bit.ly/jprwt

### For example...

```
h1 {
   font-size: 2em;
   line-height: 1.
```

line-height: 1.25; margin-top: 0.9375em; margin-bottom: 0.3125em; } @media (min-width: 43.75em) { h1 { font-size: 2.5em; letter-spacing: normal; line-height: 1.125; margin-top: 0.73333334em; margin-bottom: 0.24444445em; } } @media (min-width: 56.25em) { h1 { font-size: 3em; letter-spacing: normal; line-height: 1.05;

margin-top: 0.6875em; margin-bottom: 0.22916667em; }





#### Polish



#### Moby's Trip

TOGGLE OT FEATURES: OFF

#### A Whale of an Afflicted Tale

In the Propontis, as far as I can learn, none of that peculiar substance called BRIT is to be found, the aliment of the right whale. But I have every reason to believe that the food of the sperm whale—squid or cuttle-fish—lurks at the bottom of that sea, because large creatures, but by no means the largest of that sort, have been found at its surface.

#### 1/2 Way to 19 Thousand Leagues

Though, consumed with the hot fire of his purpose, Ahab in all his thoughts and actions ever had in view the ultimate capture of Moby Dick: though he seemed ready to sacrifice



http://bit.ly/jpsassotf

#### Moby's Trip

TOGGLE OT FEATURES: ON

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http://bit.ly/jpsassotf

#### Moby's Trip

**TOGGLE OT FEATURES: ON** 

#### A Whale of an Afflicted Tale

h1 {
 pecular substance called BRT is to be found, the aliment
 font-family:"Playfair Display", Georgia, serif;
 font-feature-settings:"clig" 1,"dlig" 1,"frac" 1,"liga" 1;

the bottom of that sea, because large creatures, but by no means the largest of that sort, have been found at its surface.

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Though, consumed with the hot fire of his purpose, Ahab in all his thoughts and actions ever had in view the ultimate capture of Moby Dick: though he seemed ready to sacrifice



}

#### http://bit.ly/jpsassotf

ivilization and sea power arose from the temperate Mediterranean, and the progress of archeological research has shown that civilizations and empires had been reared in the Mediterranean on sea power long before the dawn of history.

We know, for instance, that an Egyptian king some 2000 years before Christ possessed a fleet of 400 fighting ships. But it appears now that long before this time the island of

Crete was a great naval and commercial power. Indeed, the Cretans may have taught the Egyptians something of the art of building sea-going ships for trade and war.<sup>1</sup>

"Neither deals unfairly with the other; the Carthaginians never touch the gold till it comes up to the estimated value of their goods, nor do the natives carry off the goods till the gold has been taken away." — Herodotus<sup>2</sup>



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"Neither deals unfairly with the other; the Carthaginians never touch the gold till it comes up to the estimated value of their goods, nor do the natives carry off the goods till the gold has been taken away." — <u>Herodotus</u>?



#main-content p:first-of-type:first-letter, .lt-ie9 #main-content h1 + p:first-letter { font-size: 3em; font-family: "Playfair Display", Georgia, font-weight: bold; line-height: 0.9; display: block; float: left; padding-right: 0.15em; padding-top: 0; }

hwdesignco.com | @jpamental | Responsive Typography

"Times New Roman";

### Polish: Don't Leave Orphans Behind

Typogrify FTW:
 <u>http://bit.ly/rt-tpgrfy</u>
 <u>http://bit.ly/drupaltypogrify</u>
 <u>http://bit.ly/rt-tpgrfy-ee</u>
 <u>http://bit.ly/rt-tpgrfy-wp</u>

If so, how is the system to be changed? "How do you eat an elephant?" she replied. "Well! I'm patient. Rome wasn't built in a day." (She was born in Rome.) But there is at least a new awareness of what's at stake. She singled out the pioneering example of François-Henri Pinault, C.E.O. of the luxury conglomerate Kering (Gucci, Bottega Veneta, Stella McCartney), who has invested many millions in creating eco-friendly brands.



### Polish: Don't Leave Orphans Behind

- Typogrify FTW:
   <u>http://bit.ly/rt-tpgrfy</u>
   <u>http://bit.ly/drupaltypogrify</u>
   <u>http://bit.ly/rt-tpgrfy-ee</u>
   <u>http://bit.ly/rt-tpgrfy-wp</u>
- Also try Widowtamer for JS drop-in solution: <u>http://bit.ly/rt-widotamer</u>
- Seems small, but has oversized impact to user & editor

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## A Little in Abundance is a Lot

- + Use max-width on elements to keep text readable
   @media (min-width: 58em) {
   p { max-width: 38em; }
   }
- + CSS3 brings character counts, but not universal (vw & vh, ch & cx)
- + EMs or REMs, but no PX
- + Don't forget: use real content! Because Lorem Ipsum is a poseur



## **New Tricks**

- + Emerging attributes: font-size-adjust & font-smoothing
- + The future is here; it's just not evenly distributed
- + Try text-rendering engine detection combined w/font-smoothing adjustments (<u>http://typerendering.com</u> courtesy of @NiceWebType & @bramstein)



## **True Life Story**



LIFE AT YALE

#### McDougal Graduate



## **True Life Story**



#### LIFE AT YALE MCDOUGAL GRADUATE

-webkit-font-smoothing: antialiased;-moz-osx-font-smoothing: grayscale;



A Perfect Page

or at least a far better start



## Inspiration

- + Oversize 2-level header
- + Stylized subhead
- + Byline
- + Large initial cap
- + Inset photo
- + Pull-quote

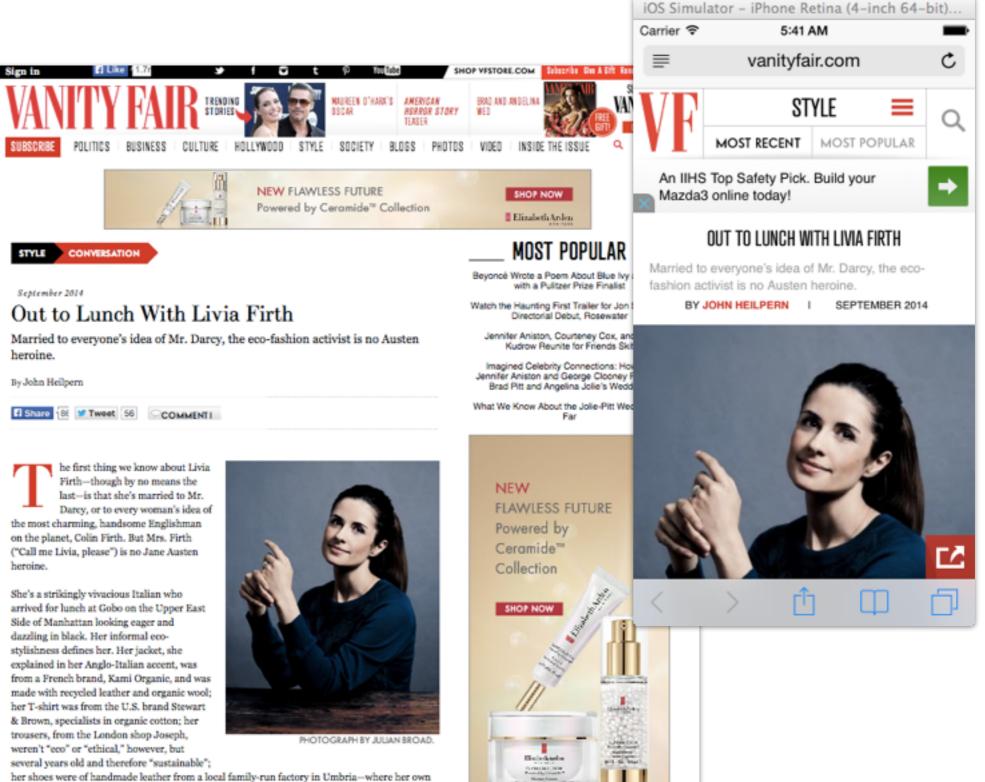




#### Frustration

family lives and she and her husband keep a house. Her watch was made of discarded wood, but

let's not go into that now.



ElizabethArden

## Realization

- + Oversize 2-level header
- + Stylized subhead
- + Byline
- + Large initial cap
- + Inset photo
- + Pull-quote
- + Virtually no extra markup necessary
- + Fully responsive



#### Realization



CONVERSATION Out to Lunch with IA FIR NARRIED TO EXERNOLES EDEA OF MR. DARCH. THE OF OF TARRON The formation of the second se and her o proces," after said. "WY chafters sor most in hey wore made, and why non," and "press" an the costly buggings of Sobics, after all, is more But the impicus Firth in cal mo-sorrise Scie he Quains of the Gitten ( carpet. Meryl Streep is but one of Adutes tand Terrs Ford one of the <text><text><text><text><text><text><text><text><text><text><text> signers) who have supported accord in eacher, 19 years taan." "What happened to some more old fame!" "What happened to some marred, with non-pick. We're will needs, His we'r, Annealan, Be, yea stores it's komp What for eacher. His we'r, Annealan, Be, yea stores it's komp What for eacher. His we'r, Annealan, Be, yea stores it's komp What for eacher. His hallow was 'to you said constant the sponse from the soft hallow was 'to you wall constant this pie search the soft hallow was 'to you wall constant this pie search the soft hallow was 'to you wall constant this pie search the soft hallow was 'to you wall constant this pie search the soft hallow was 'to you wall constant this pie search the soft hallow was 'to you wall constant the sponse store statistic constant. They finds the somerce of an Englaborate it con-temport." AR <sup>11</sup> He see surveyoue tool, thought<sup>10</sup> The did, become Code not like tool Decision of a surveyoue tool, thought<sup>10</sup> The did becomes Code not like tool Decision of a surveyoue tool, thought tool Decision of a surveyoue t He are everyone case, through " there was note to Ressel ) that there is at food a new and there is a the start of the second start of the presenting coumple of Family the second start of the secon Prov d 1



# **Responsive Web Typography**

- + Yes, it's a thing
- + It's about adapting to screen size, network
   speed & device capabilities
- + It's about **designing** for what's **next** 
  - Last Winter Olympics: there was no iPad
  - The one before? No iPhone either



# **Responsive Web Typography**

#### + Performance

- Stats, Platforms & Screen Tests
- + **Progression** (It's the web. Stuff breaks)
  - If the font fails, does your design hold up?

#### + **Proportion**

• It's about composition (think: small paintings)

#### + Polish

• Great typography is greater than the sum of its parts

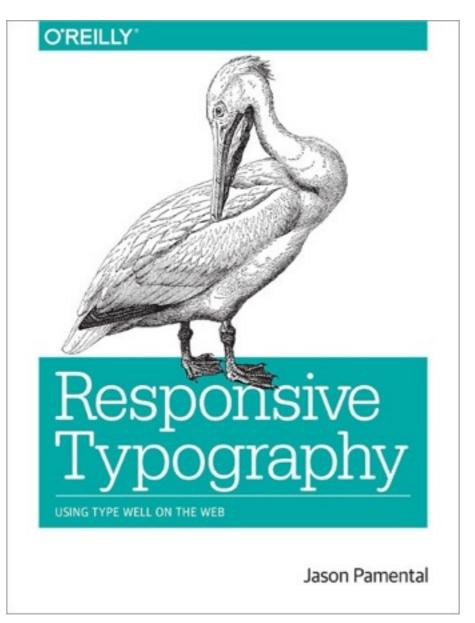


# "Designers Should Code As Much As Artists Should Mix Paint"

~ Mustafa Kurtuldu (@Mustafa\_x) FOWD London



#### Just out!



#### http://bit.ly/rwtbook



Text (504) 229-6828 with #rwdtype 5 (comment)

### Thank You

Jason Pamental (@jpamental)

Slides: <u>http://bit.ly/jpcssdc</u> Code: <u>http://bit.ly/rtwcode</u>

