

A serene sunset scene over a lake. In the foreground, the back of a large, light-colored dog is visible on the left, and a smaller, similar dog is sitting in the water on the right. The lake reflects the warm colors of the sunset sky, which is a mix of orange, pink, and purple. The background is filled with silhouettes of trees and a distant shoreline.

# Responsive Typography

Using Type Well on the Web

Code: <http://bit.ly/jpatypicode>  
WiFi: SIDLEE VISITORS | SidLovesLee



# The Day Ahead

- Our new typography
- Fonts on the web: sources, selection & use
- Putting them to use & managing the user experience
- Proportion: screen size, hierarchy & readability
- Fine tuning: OpenType, orphans, initial caps & more
- Fixed vs. dynamic text, subsetting & internationalization
- Variable Fonts and how to use them

Code: <http://bit.ly/jpatypicode> • WiFi: PJATK EVENT | Atypi16!

Our New Typography

# Hi there, I'm Jim!

Text in a Gif-y (*or pictures of a thousand words*)



```
<font face="verdana">This is some text!</font>
```

And then there was 'face' (as of HTML 3.2)



```
p {  
    font-family: Arial, Helvetica, sans-serif;  
}
```

```
<p>This is some text!</p>
```

# Styles! (of sorts)





The sIFR & Cufon Years



**Typekit   Google Fonts   Fonts.com**  
**2009**  
**Cloud.typography   MyFonts**  
***and many many more***

**Finally font-ly!**



RESTORATION

# PREP



As ghostsigns around the world fall victim to decay and debate about what constitutes ethical restoration, Sam Roberts explores the collision of public and private interests, and the ways cities around the world have attempted to protect and revive fading works of signwriting.

Words, Sam Roberts

# ROAD







Painted signs and painted



In Butte, Montana, a do with the city's ma advertising painted Preservation Office by the contemporar sign painters know opposition has surf 'Disneyfication' of

This debate is not of attempts aroun if anything, shoul of a sign for Bile F both extreme ('a ('like an old frier to widespread p comprehensive new area of hist typically at a lo owners adopt a gaining suppor

As the evidenc exist at an int They are typi properties, a However, the their appear ownership. as 'public a craft histor with their r about whe

These con from doin en masse ghostsign sandblas weatheri

in Clapham led to a question Mayor about what he was doing to protect these pieces cultural and commercial history. His response delegated ability to local council level and, in this case, Michael MP responded that:

*"In 1960 Howard Gossage observed that billboards exist 'for the sole and express purpose of trespassing on your field of vision', representing widespread resentment of overbearing outdoor advertising."*

"The character of things like this is essentially ephemeral, and it is the fact that such things survive only rarely and accidentally that gives them their charm and fascination. Although their loss may be regretted, perhaps it is necessary to allow such changes to happen, untouched by a regulatory framework, so that in another hundred years' time, people may be able to look at different but equally curious survivals — of early 21st century ephemera."

There is much to commend in this response, although the longevity of today's billboards and digital displays is clearly inferior to that of the ghostsigns that have survived. Further, it is interesting that the value placed upon the signwriting craft is in some way less than crafts which create more permanent artefacts such as furniture, jewellery and books. Many of these signs are antiques, yet the skills involved in producing them aren't celebrated in the same way as those of jewellers, cabinet makers and book binders.

Their commercial intent is the main point of difference between ghostsigns and these other crafts, making the motivations of those passionate about them even more intriguing. There isn't a comparable lobby arguing for the protection and restoration of contemporary billboards, yet ghostsigns once served exactly the same advertising purpose. In 1960 Howard Gossage observed that billboards exist 'for the sole and express purpose of trespassing on your field of vision', representing widespread resentment of overbearing outdoor advertising. Further back, in 1855, the 'One Who Thinks Aloud' lamented the form, although on very different grounds,



Photograph: Brian Stubley

'Amid all the changes which this changing age has produced, that of the walls superceding the town's bell-man is perhaps the most melancholy.'

The age of ghostsigns (most are from the early 20th century) triggers a similar nostalgia which, in turn, leads people to cherish them. However, in their day, they provoked opposition similar to that of Gossage and the One Who Thinks Aloud. Although they are often resented now, it is entirely conceivable that the revealing of a printed billboard in 50 years could provoke a similarly nostalgic response, and calls for protection, in a future world dominated by digital advertising.



*"Ghostsigns are one among many examples of humankind's desire to leave a mark, whether for commercial, community or individual ends."*

en their ambiguous value, ghostsigns currently fall side of approaches taken to preserving cultural heritage facts. They are not architectural features of note and are, mately, just advertising ephemera. In addition, unlike er forms of advertising and printed matter, they cannot collected and displayed in archives and museums, at least in their original form. Photographic archiving projects, as the UK-based History of Advertising Trust Ghostsigns ive, do catalogue and document material, but say ing about how ghostsigns 'in the wild' should be treated. mpts to develop systematic approaches to protection and oration all face the problem of defining which signs have t: one person's artwork is another's eyesore. Further, tsigns often exhibit multiple layers of text, known alimpsests', with some seeing a beautiful historical n', while others perceive nothing more than a mess.

signs often fall victim to today's graffiti and street s, getting whitewashed in efforts to 'clean up' this more mporary work. In some instances this coverage is only ul. In Stamford Hill, London, advertising for a cigarette

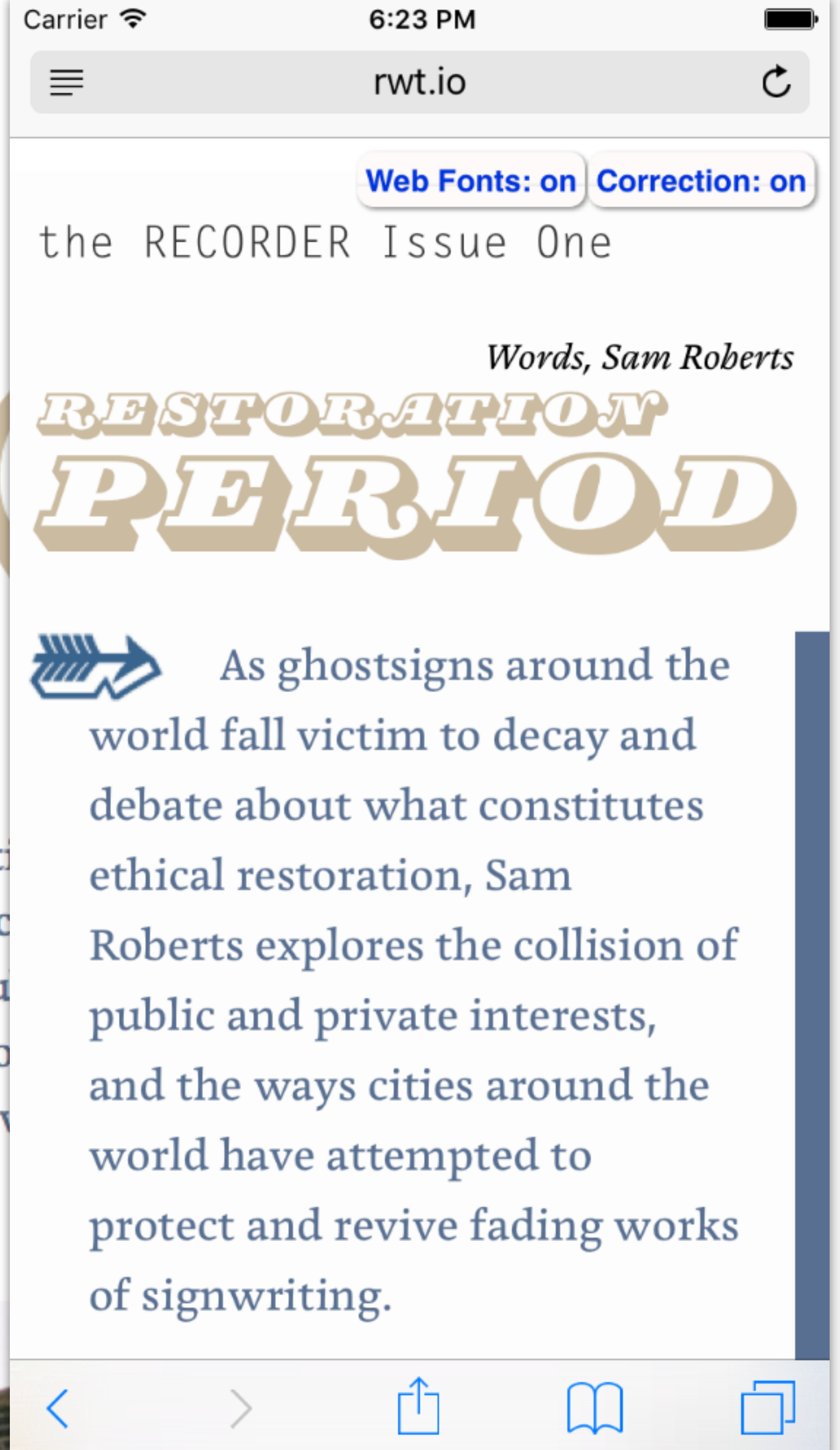


the RECORDER Issue One

# RESTORATION PERIOD



As ghostsigns around the world fall victim to decay and debate about what constitutes ethical restoration, Sam Roberts explores the collision of public and private interests, and the ways cities around the world have attempted to protect and revive fading works of signwriting.





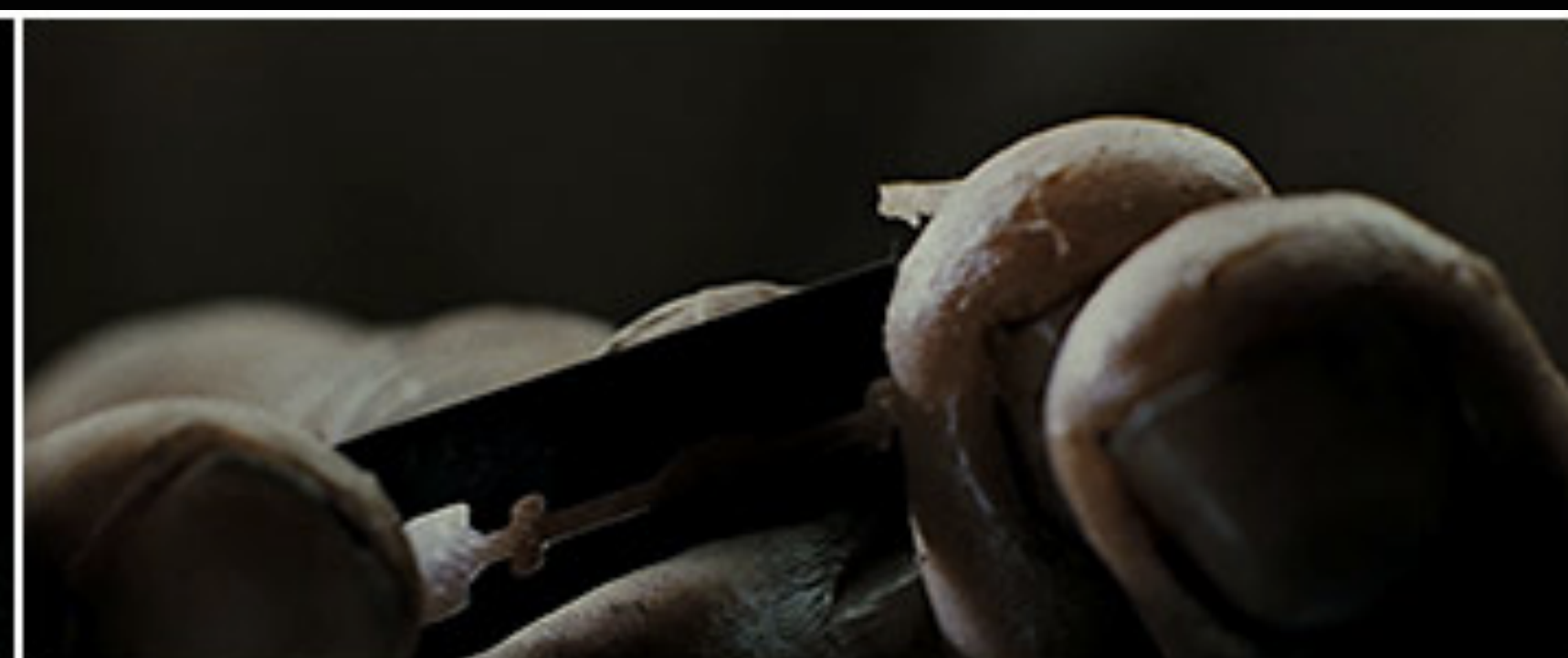
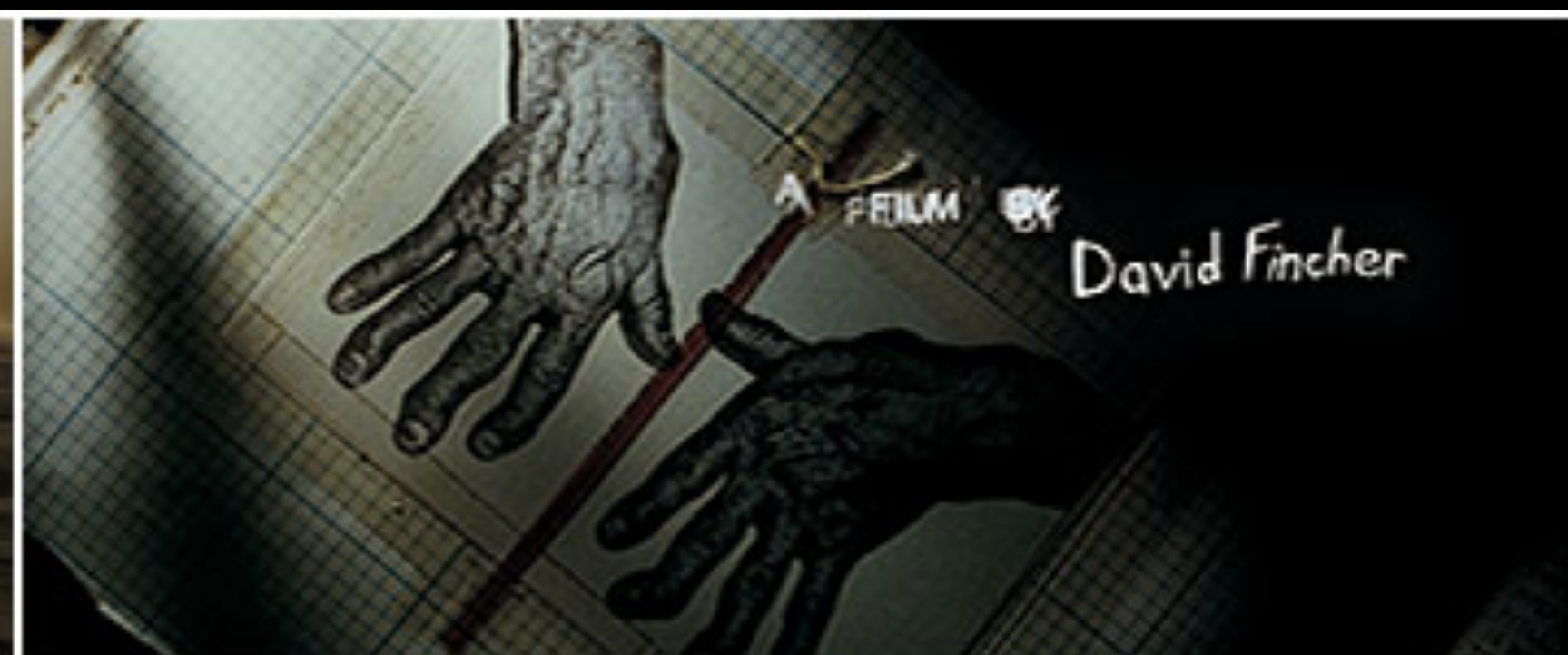
EMIGRE

No. 70

*The Look Back Issue*

FROM EMIGRE MAGAZINE #1 ~ #69









THE  
AMERICANS



## headlines

Thursday  
25 February 2016

Now  
14°C



05:00	08:00	11:00	14:00
14°C	14°C	13°C	11°C
			

Rumford



## Syria / Putin steps in to boost ceasefire effort as first aid drop carried out

Russian president appears to be investing political capital in making truce a reality, phoning leaders in key countries as well as ordering cut in airstrikes

612

**Libya** / French special forces assisting anti-Isis efforts - sources



**Online battle** / Isis video targets Twitter and Facebook CEOs over suspended accounts

**Audio** / Swedish teenager tells of rescue from Isis in Iraq



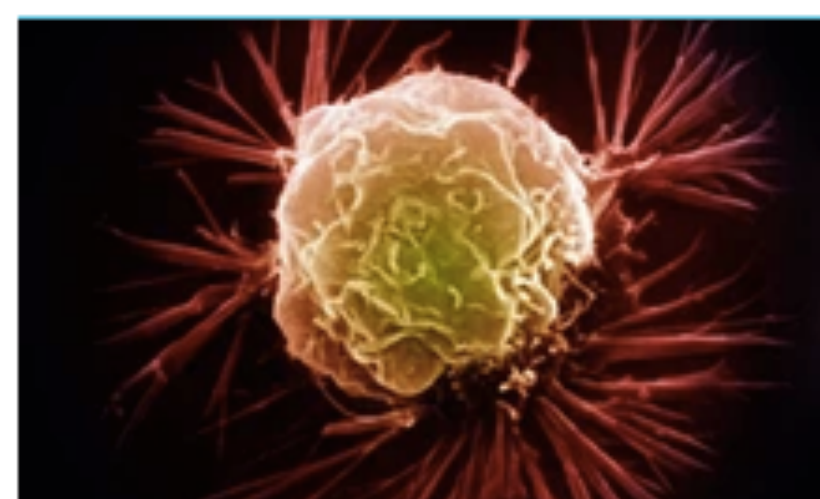
**US politics** / Remaining Republicans prepare for 'voter summit' as Trump builds lead

482



**Indigenous peoples** / Australians and Canadians 'destroyed by same colonialism'

206



**Cancer** / Radical treatment seeks to control rather than destroy tumours

**Pancreatic cancer** / Better considered as four separate diseases

**United Arab Emirates** / Two Americans to go on trial after 505 days without charges

**Mexico** / 17 months later: president visits site of 43 students' disappearance

9

**Hygiene** / Organic panty liners recalled after traces of weedkiller found

**China** / Six Britons held after police raid on rave

**Brexit** / Referendum could destabilise UK recovery, says IMF

283

**Media** / Conservative columnist sorry for failing to check story of gang-rape by Arabic-speaking men

## highlights

Hide



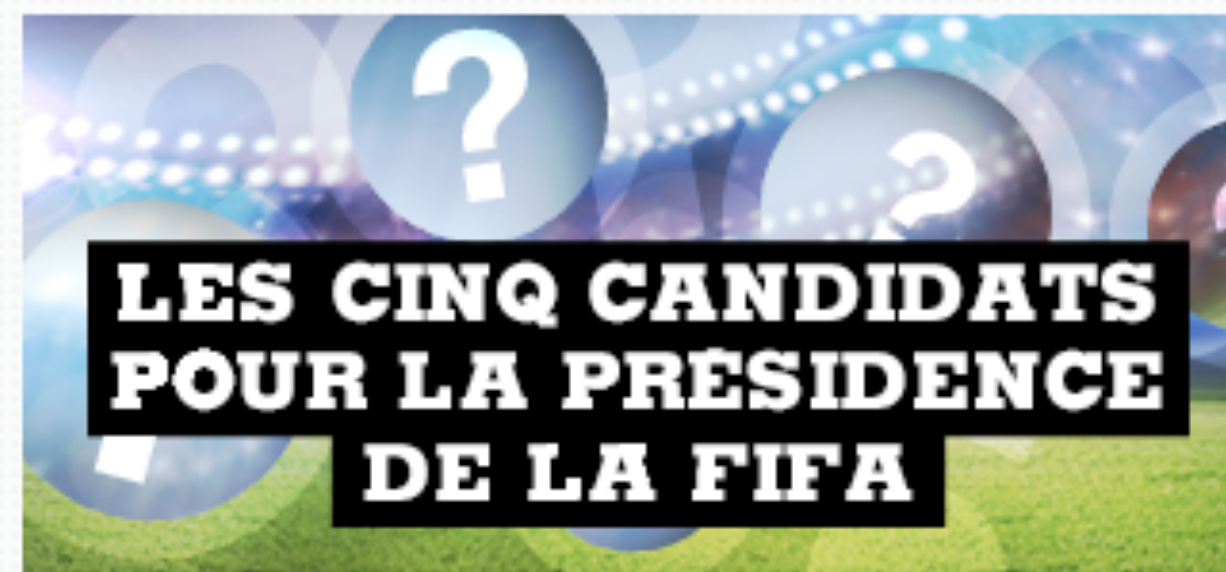
**URGENT**

**Médias : France 24, qui émet actuellement en Français, Anglais et Arabe, lancera début 2017 son service en espagnol (Francois Hollande)**



**TERRORISME**

**Libye : la France mène une guerre de l'ombre contre l'EI**



**L'INFO EN CONTINU**

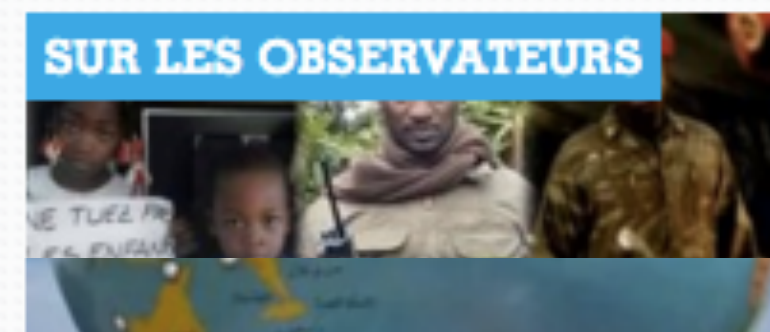
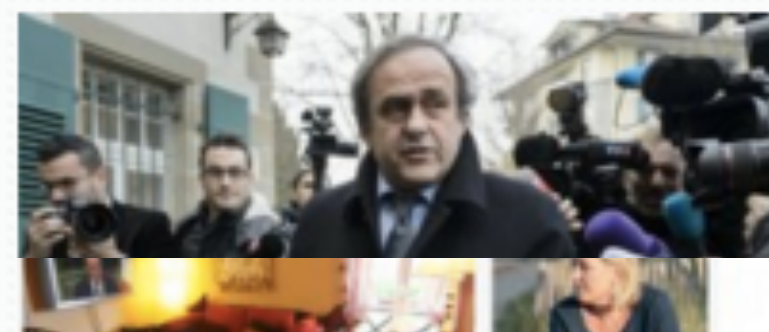
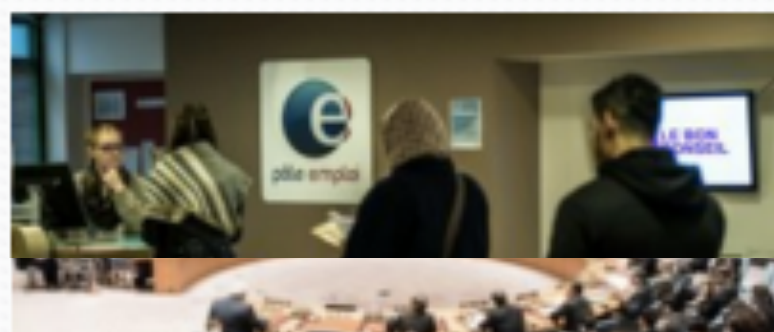
←→ Toute l'info en continu

**02:45** A droite et au centre, Donald Trump rafle les voix tous azimuts  
**AFP**

**01:02** **FRANCE 24 Urgent @UrgentF24**  
#URGENT - Médias : France 24, qui émet actuellement en Français, Anglais et Arabe, lancera... f24.my/1mYvc1Z  
pic.twitter.com/r55E6FpE1b

**23:45** L'épidémie de virus Zika "peut empirer avant de s'améliorer" (OMS).  
**AFP**

**23:25** Ligue des champions: City n'a jamais été aussi proche des quarts  
**AFP**



**SUR LES OBSERVATEURS**





# Real Fonts on the Web





Search Typekit...

Synced fonts Kits Account

MY LIBRARY FAVORITES

Include web-only families

Default Japanese Hide filters

AaBbCcDdEeFfGgHhIiJjKkLlMmNnOoPpQqRrSsTt Edit

A [Slider] A [Grid] [List]

Sort by: Featured

AaBbCcDdEe

Mrs Eaves  
Emigre

4 fonts

AaBbCcDd

Eloquent JF  
Jukebox

4 fonts

AaBbCcDdEe

Essonnes  
JTD

16 fonts

AaBbCcDdEeFf

Azote  
Thomas Jockin

6 fonts

AaBbCcDdEe

Mrs Eaves XL  
Emigre

12 fonts

AaBbCcDdE

Bookmania  
Mark Simonson Studio

10 fonts

AaBbCcDdEeF

Kinesis  
Adobe

10 fonts

AaBbCcDdEe

Freight  
Phil's Fonts

48 fonts

AaBbCc

AaBbCcDdE

AaBbCcDdE

AaBbCcDdEe

CLASSIFICATION

M M M M

Sans Serif Serif Slab Serif Script

m M M M

Blackletter Mono Hand Decorative

RECOMMENDATIONS

Paragaphs Headings

PROPERTIES

G G G A A A

Weight Width

h h h o o o



Home

Browse fonts

Collections

Typecast

♥ Favorites

🔗 SkyFonts

LISTS

+ New List

WEB PROJECTS

+ New Web Project

🌐 Isovera.com Site

🌐 EPLCT.org

🌐 Sample Site

## FEATURED FONTS



## FONT COLLECTIONS

BROWSE MORE >





Viewing 451 of 808 font families

Baloo Tamma  
Ek Type (1 style)

A red flair  
silhouetted the  
jagged edge of a  
wing.

Baloo Chettan  
Ek Type (1 style)

The sky was  
cloudless and of a  
deep dark blue.

Slabo 27px  
John Hudson (1 style)

It was going to be a  
lonely trip back.

Roboto Slab  
Christian Robertson (4 styles)

Then came the  
night of the first  
falling star.

Baloo Paaji  
Ek Type (1 style)

Mist enveloped  
the ship three  
hours out from  
port.

Lora  
Cyreal (4 styles)

A red flair  
silhouetted the  
jagged edge of a  
wing.

Categories

☒ Serif

☐ Sans Serif

☒ Display

☐ Handwriting

☐ Monospace

Sorting

Trending

Languages

All Languages

Number of styles

☐

Thickness

☐

Slant

☐

Width

☐



# Artur Frankowski

[Follow](#)

Graphic designer, typographer and type designer. Ph.D. from the Warsaw University of Technology on legibility of type (2004). Full-time lecturer on typography and graphic design at the Warsaw University of Technology; also visiting lecturer at the Academy of Fine Arts in Warsaw and at other colleges in Poland. Co-founder and partner of Fontarte design studio. He has been designing several typefaces — contemporary new designs as well as Polish avant-garde revivals. His typefaces include Grotesk Polski FA, a sans serif companion to Poland's eminent pre-WWII text face Antykwa Poltawskiego, as well as FA Julian or FA Komunikat, typefaces based on Wladyslaw Strzeminski's lettering.




[More info...](#)

## 4 font families by Artur Frankowski


Pangrams ▼

Enter your own text

A  A ☐ fit to width

 ▼  ▼  ▼

Sort by: **relevance** ▼

☒ Images 

### Related tags

sans-serif

rough

stencil

grunge

humanist

elegant

grotesk

legible

modest

sans serif

[Show 12 more](#)[Komunikat FA](#) by [Fontarte](#)1 font style from **£26.99**

Album ▼



# To Service or Self-host

## Services

- Variety/Cost
- Hosting infrastructure
- Updates
- Support

## Self-hosting

- Cost/specific
- Control
- Consolidation



# Putting Fonts to Use & Managing the UX



```
<link href='https://fonts.googleapis.com/css?family=Alegreya:
400,900,400italic,700italic,700' rel='stylesheet' type='text/css'>
```

```
p {
    font-family: 'Alegreya', Georgia, serif;
}
```

```
h1 {
    font-family: 'Alegreya', Georgia, serif;
    font-weight: 900;
}
```

## CSS Loading: one line to link up





12.15 sec

Sad trombone (no correction, typical 3G)



```
<script type="text/javascript">
  WebFontConfig = {
    google: { families: [ 'Alegreya:400,900,400italic,700italic,700:latin' ] }
  };
  (function() {
    var wf = document.createElement('script');
    wf.src = 'https://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>
```

Then, 2010 (Web Font Loader edit )



```
p {  
    font-family: 'Alegreya', Georgia, serif;  
}  
  
.wf-inactive p {  
    font-family: Georgia, serif;  
}
```

# Body Level One



**7.1 sec**

Content first, please



```
p {  
  font-family: 'Alegreya', Georgia, serif;  
}  
  
.wf-inactive p {  
  font-family: Georgia, serif;  
  font-size: 0.975em;  
  letter-spacing: -0.4px;  
}
```

But we *can* do better

5.1 sec

Best for both worlds (content *and* design)



*but wait, there's more*

```
<script src="../../js/vendor/fontfaceobserver.js"></script>
  <script type="text/javascript">
    (function() {
      document.documentElement.className += " wf-inactive";
      ...
      var fontA = new FontFaceObserver('Alegreya Sans', {
        weight: 400,
        style: 'normal'
      });
      var fontB = new FontFaceObserver('Alegreya Sans', {
        weight: 900,
        style: 'normal'
      });
      Promise.all([fontA.load(), fontB.load()]).then(function () {
        document.documentElement.classList.remove("wf-inactive");
        document.documentElement.classList.add("wf-active");
        // Optimization for Repeat Views
        sessionStorage.foutFontsLoaded = true;
      });
    })();
  </script>
```

# Font Face Observer & Session Storage Magic



```
// Optimization for Repeat Views
if( sessionStorage.foutFontsLoaded ) {
    document.documentElement.classList.remove("wf-inactive");
    document.documentElement.classList.add("wf-active");
    return;
}
```

## Font Face Observer & Session Storage Magic

*let's go code*

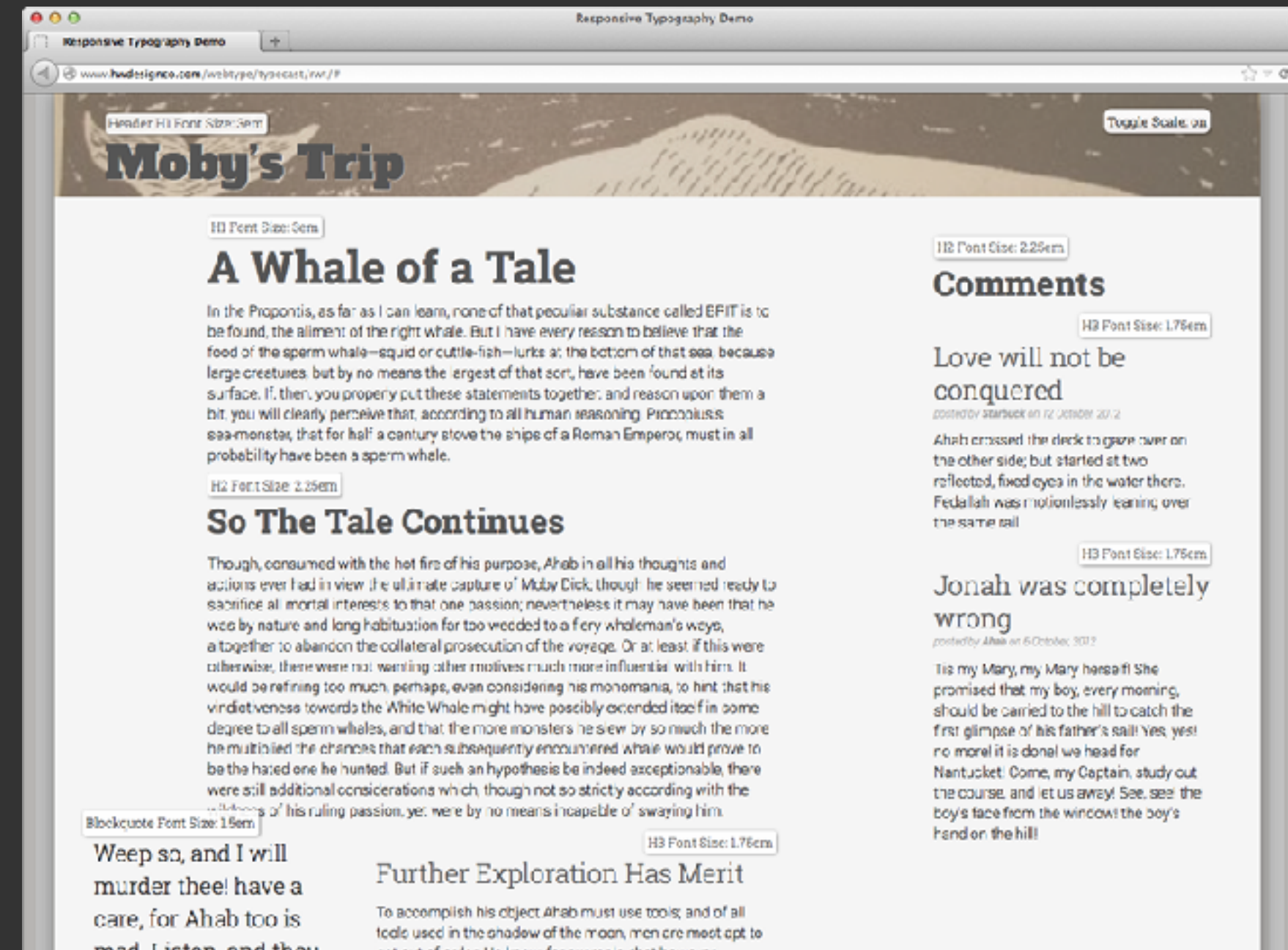


```
@font-face {  
  font-family: "Alegreya Sans";  
  src: url('../fonts/alegreya-sans-v3-latin/alegreya-sans-v3-latin-regular.eot');  
  src: url('../fonts/alegreya-sans-v3-latin/alegreya-sans-v3-latin-regular.eot?#iefix') format('eot'), url("../fonts/alegreya-sans-v3-latin/alegreya-sans-v3-latin-regular.woff") format("woff");  
  font-weight: normal;  
  font-style: normal;  
  font-display: swap;  
}
```

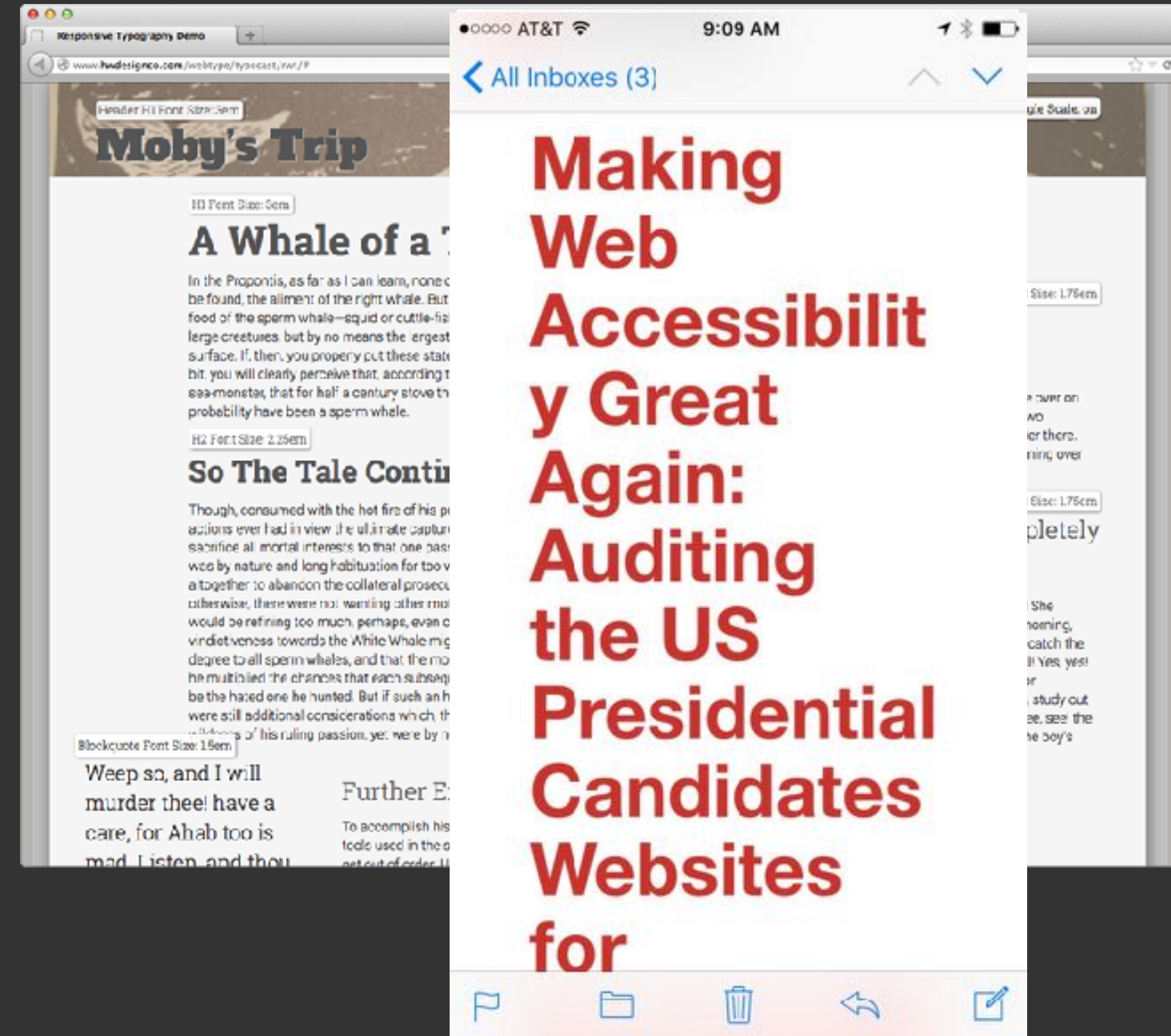
Getting better, but not there yet

# Proportion: *A Matter of Scale*





What works in print...



Works in print.



	Print	Desktop (large)	Desktop	Tablet (large)	Tablet (small)	Phone
<b>Body</b> <ul style="list-style-type: none"> <li>Font size:</li> <li>Line height:</li> <li>Line length:</li> </ul>	<ul style="list-style-type: none"> <li>12pt</li> <li>1.25</li> <li>60-75</li> </ul>	<ul style="list-style-type: none"> <li>16px (1em)</li> <li>1.375</li> <li>60-75</li> </ul>	<ul style="list-style-type: none"> <li>16px (1em)</li> <li>1.375</li> <li>60-75</li> </ul>	<ul style="list-style-type: none"> <li>16px (1em)</li> <li>1.375</li> <li>60-75</li> </ul>	<ul style="list-style-type: none"> <li>16px (1em)</li> <li>1.25</li> <li>60-75</li> </ul>	<ul style="list-style-type: none"> <li>16px (1em)</li> <li>1.25</li> <li>35-40</li> </ul>
<b>H1</b> <ul style="list-style-type: none"> <li>Font size:</li> <li>Line height:</li> </ul>	<ul style="list-style-type: none"> <li>36pt (3em)</li> <li>1.25</li> </ul>	<ul style="list-style-type: none"> <li>48px (3em)</li> <li>1.05</li> </ul>	<ul style="list-style-type: none"> <li>48px (3em)</li> <li>1.05</li> </ul>	<ul style="list-style-type: none"> <li>40px (2.5em)</li> <li>1.125</li> </ul>	<ul style="list-style-type: none"> <li>32px (2em)</li> <li>1.25</li> </ul>	<ul style="list-style-type: none"> <li>32px (2em)</li> <li>1.25</li> </ul>
<b>H2</b> <ul style="list-style-type: none"> <li>Font size:</li> <li>Line height:</li> </ul>	<ul style="list-style-type: none"> <li>24pt (2em)</li> <li>1.25</li> </ul>	<ul style="list-style-type: none"> <li>36px (2.25em)</li> <li>1.25</li> </ul>	<ul style="list-style-type: none"> <li>36px (2.25em)</li> <li>1.25</li> </ul>	<ul style="list-style-type: none"> <li>32px (2em)</li> <li>1.25</li> </ul>	<ul style="list-style-type: none"> <li>26px (1.625em)</li> <li>1.15384615</li> </ul>	<ul style="list-style-type: none"> <li>26px (1.625em)</li> <li>1.15384615</li> </ul>
<b>H3</b> <ul style="list-style-type: none"> <li>Font size:</li> <li>Line height:</li> </ul>	<ul style="list-style-type: none"> <li>18pt (1.5em)</li> <li>1.25</li> </ul>	<ul style="list-style-type: none"> <li>28px (1.75em)</li> <li>1.25</li> </ul>	<ul style="list-style-type: none"> <li>28px (1.75em)</li> <li>1.25</li> </ul>	<ul style="list-style-type: none"> <li>24px (1.5em)</li> <li>1.25</li> </ul>	<ul style="list-style-type: none"> <li>22px (1.375em)</li> <li>1.13636364</li> </ul>	<ul style="list-style-type: none"> <li>22px (1.375em)</li> <li>1.13636364</li> </ul>
<b>H4</b> <ul style="list-style-type: none"> <li>Font size:</li> <li>Line height:</li> </ul>	<ul style="list-style-type: none"> <li>14pt (1.16666667em)</li> <li>1.25</li> </ul>	<ul style="list-style-type: none"> <li>18px (1.125em)</li> <li>1.22222222</li> </ul>	<ul style="list-style-type: none"> <li>18px (1.125em)</li> <li>1.22222222</li> </ul>	<ul style="list-style-type: none"> <li>18px (1.125em)</li> <li>1.22222222</li> </ul>	<ul style="list-style-type: none"> <li>18px (1.125em)</li> <li>1.11111111</li> </ul>	<ul style="list-style-type: none"> <li>18px (1.125em)</li> <li>1.11111111</li> </ul>
<b>Blockquote</b> <ul style="list-style-type: none"> <li>Font size:</li> <li>Line height:</li> </ul>	<ul style="list-style-type: none"> <li>24pt (2em)</li> <li>1.45833333</li> </ul>	<ul style="list-style-type: none"> <li>24px (1.5em)</li> <li>1.45833333</li> </ul>	<ul style="list-style-type: none"> <li>24px (1.5em)</li> <li>1.45833333</li> </ul>	<ul style="list-style-type: none"> <li>24px (1.5em)</li> <li>1.45833333</li> </ul>	<ul style="list-style-type: none"> <li>20px (1.25em)</li> <li>1.25</li> </ul>	<ul style="list-style-type: none"> <li>20px (1.25em)</li> <li>1.25</li> </ul>

# Units of Measure



# The (r)EMs have it

- From the very start, pixels-per-inch have differed between Mac & Windows, and it's only grown from there
- Reference Pixel Dimensions != Screen Resolution
- Type, set at 100%, will always be readable
- 100% is equivalent to 16px on desktop browsers (but not necessarily on phones)
- EM=1 unit of the current size of type

The text that follows *should* appear the same size.

This is a paragraph set at 2em

This is a paragraph set at 2rem

The text that follows has a wrapper around it with `font-size` set to 1.5em.

This is a paragraph set at 2em

This is a paragraph set at 2rem

# A visual comparison of EMs and REMs



*let's go code*

**Fine Tuning (of devils & details)**



# Fractions

Automatically converts  $1 / 2$  to a nice tasty fraction. Only could be better with frosting. Enabled: Sabon Italic with Fractions & Old Style Figures (like having one's cake and eating it too)

✓ Feature: On

## *Swedish Hardtack*

*1 cup water*

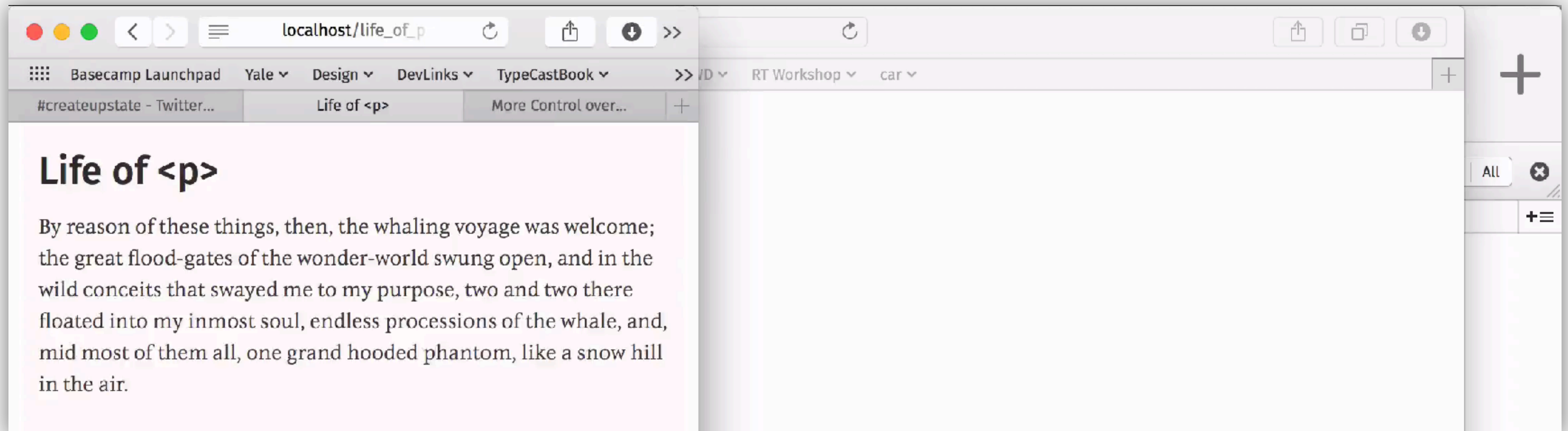
*1  $\frac{1}{2}$  oz vegetable oil*

*1  $\frac{1}{2}$  oz honey*

*1  $\frac{1}{2}$  cups rye & 1  $\frac{1}{2}$  cups whole wheat flour*

*1  $\frac{1}{2}$  tbsp. brewer's yeast (optional)*

*$\frac{1}{4}$  tsp. salt*





## Life of <p>

By reason of these things, then, the whaling voyage was welcome; the great flood-gates of the wonder-world swung open, and in the wild conceits that swayed me to my purpose, two and two there floated into my inmost soul, endless processions of the whale, and, mid most of them all, one grand hooded phantom, like a snow hill in the air.

*let's go code*



# Subsets & Internationalization



[Back to Cloud Dashboard](#)

[Cloud User Guide](#)

# AS220

4

Font styles

1

Domains

0.000 gb

Bandwidth this month

DEVELOPMENT

Project Mode



Tools

**Fonts Delivered** This project includes fonts from these families:

This project weighs **113k**



▼ Gotham

113k (4 font styles)

Styles

Character Set

Stylistic Sets

Font Tools

ABC

Uppercase Style

Capital Letters



abc

Lowercase Style

Lowercase Letters



123

Number Style

Lining Figures



123

Fractions & Scientific

None



!&?

Punctuation

Standard



ÀBÇ

Latin Accents

Basic Latin Accents



ΑΒΓ

Greek Characters

None





**Fonts Delivered**
This project includes fonts from these families:

This project weighs **113k**



▼ Gotham
113k (4 font styles)

Styles

Character Set

Stylistic Sets

Font Tools

ABC	Uppercase Style	Capital Letters	?
abc	Lowercase Style	Lowercase Letters	?
123	Number Style	Lining Figures	?
123	Fractions & Scientific	None	?
!&?	Punctuation	Standard	?
ÀBÇ	Latin Accents	Basic Latin Accents	?
ΑΒΓ	Greek Characters	None	?
АБВ	Cyrillic Characters	None	?
AV	Kerning	On	?
✓	Custom Character Set	SPORTMNEYP/p	?

Cancel

Save changes

**Fonts Available**
These are fonts you’ve licensed, but aren’t using in this project:



+ Quarto

*let's go code*



# thank you

## Slides

<http://bit.ly/jprwtworkshop>

## Code

<http://bit.ly/jpatypicode>

<https://github.com/TypeNetwork/fb-Amstelvar>

<http://koe.berlin/variablefont/>

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colophon:

Bodoni & Fira Sans

