

DESIGNING THE HI-DPI WEB





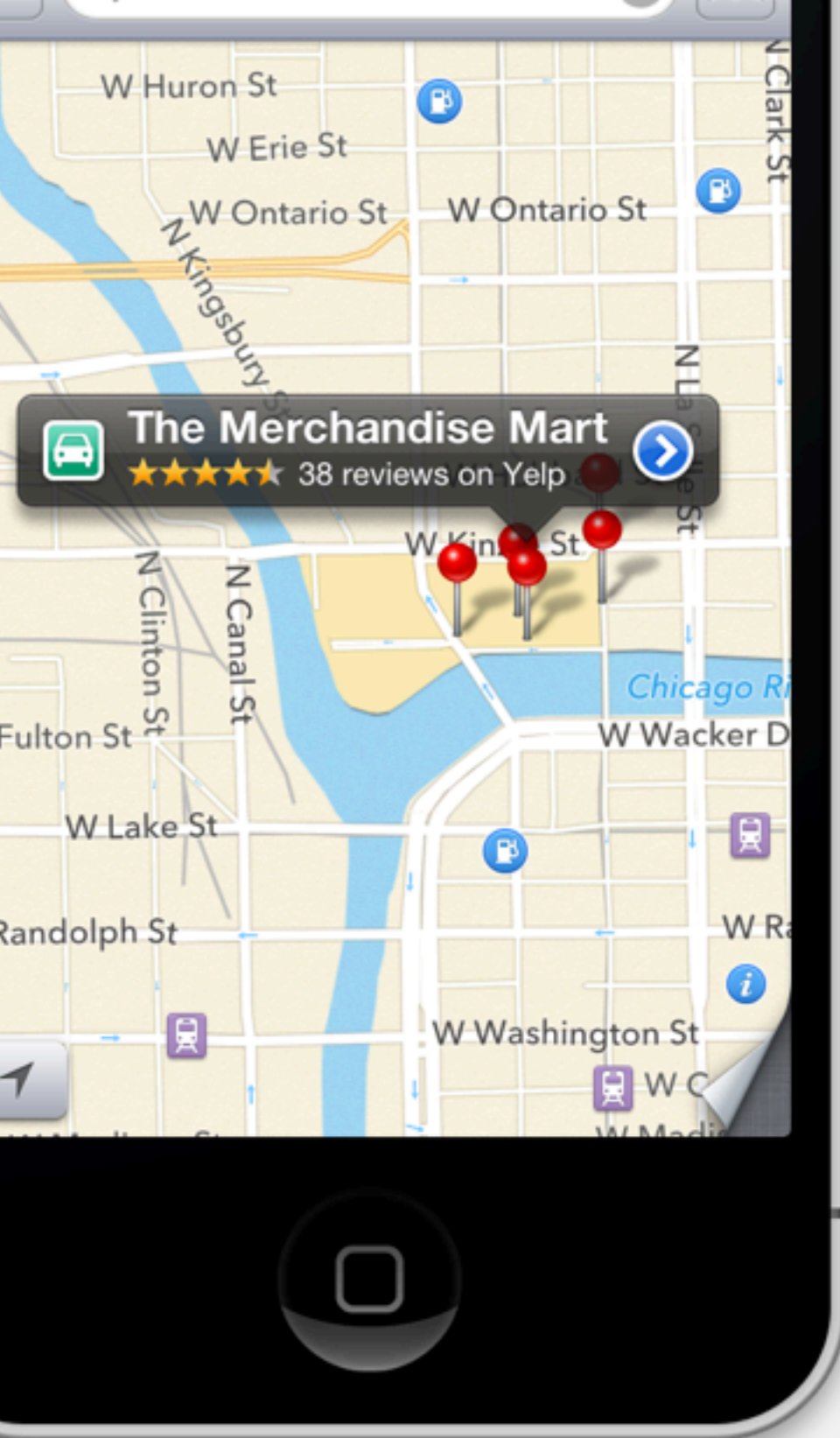
HELLO MY NAME IS
DAVID DEMAREE

@ddemaree on your favorite
social network



WHAT IS

“HI-DPI”

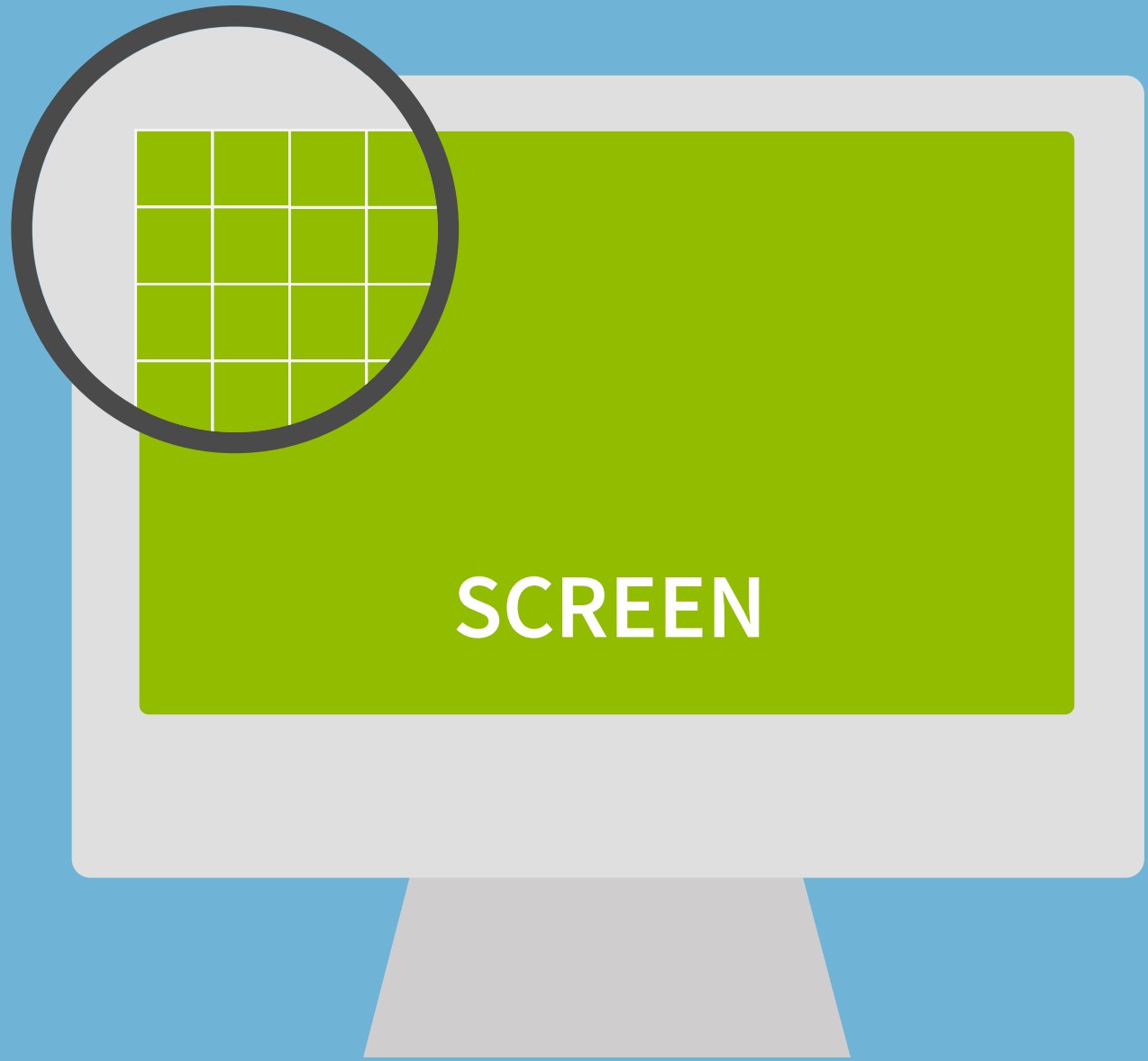


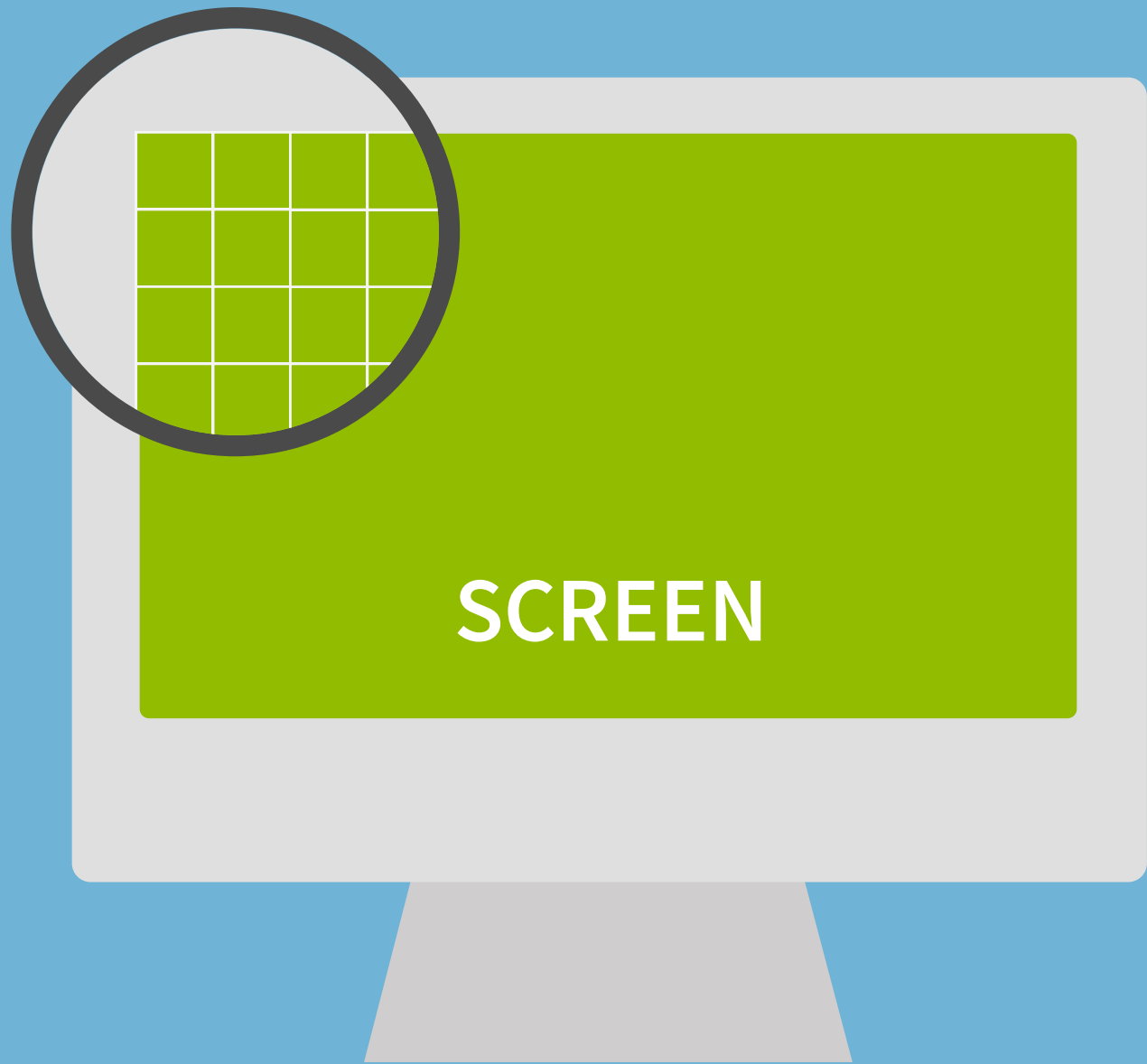
Hi-DPI device characteristics

A high density display

Typically > 160 pixels per inch

Scaled UI graphics





Scaling factor

Ratio of screen pixels to CSS pixels on a single dimension

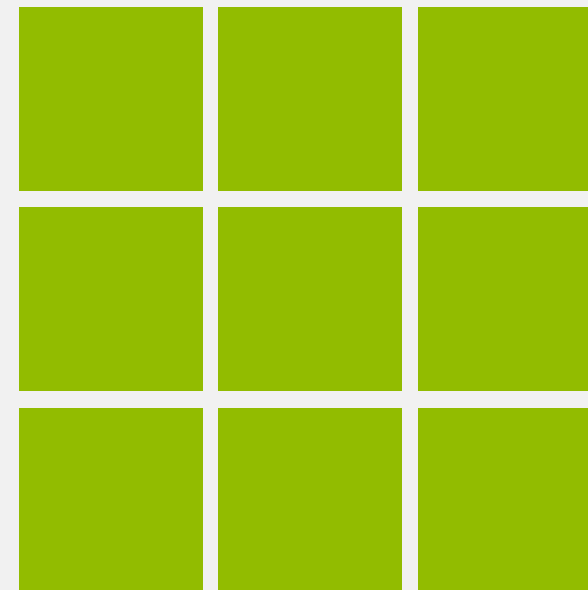
CSS



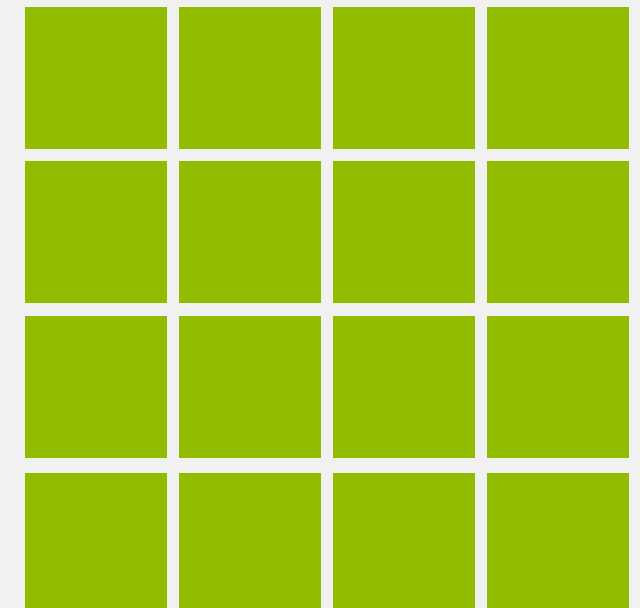
Standard (1x)



Android
'hdpi' (1.5x)



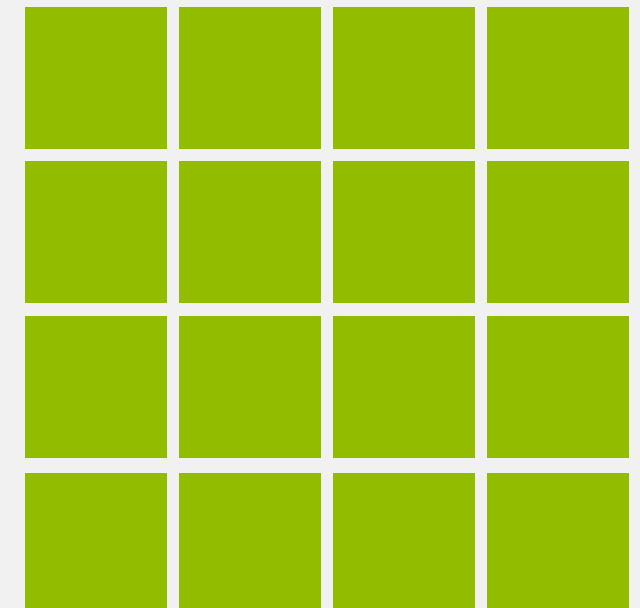
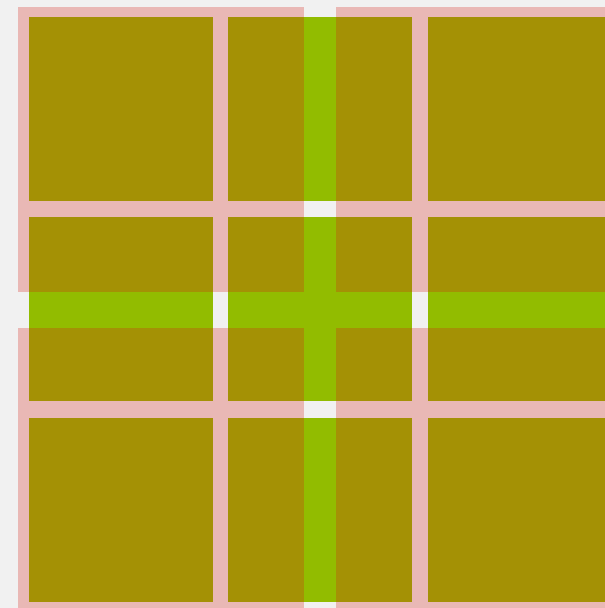
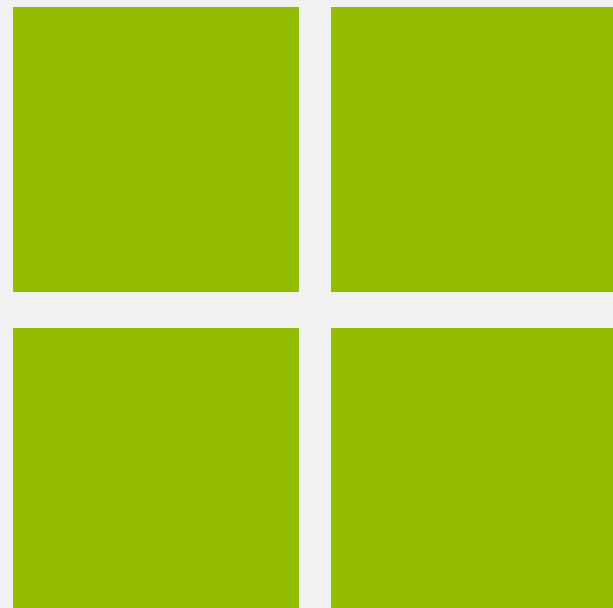
'Retina'/
'xhdpi' (2x)



There is no such thing as half a screen pixel, therefore artwork is blended/scaled on Android



CSS



24px Source Sans Pro

Designing the Hi-DPI Web

24px Source Sans Pro

Designing the Hi-DPI Web

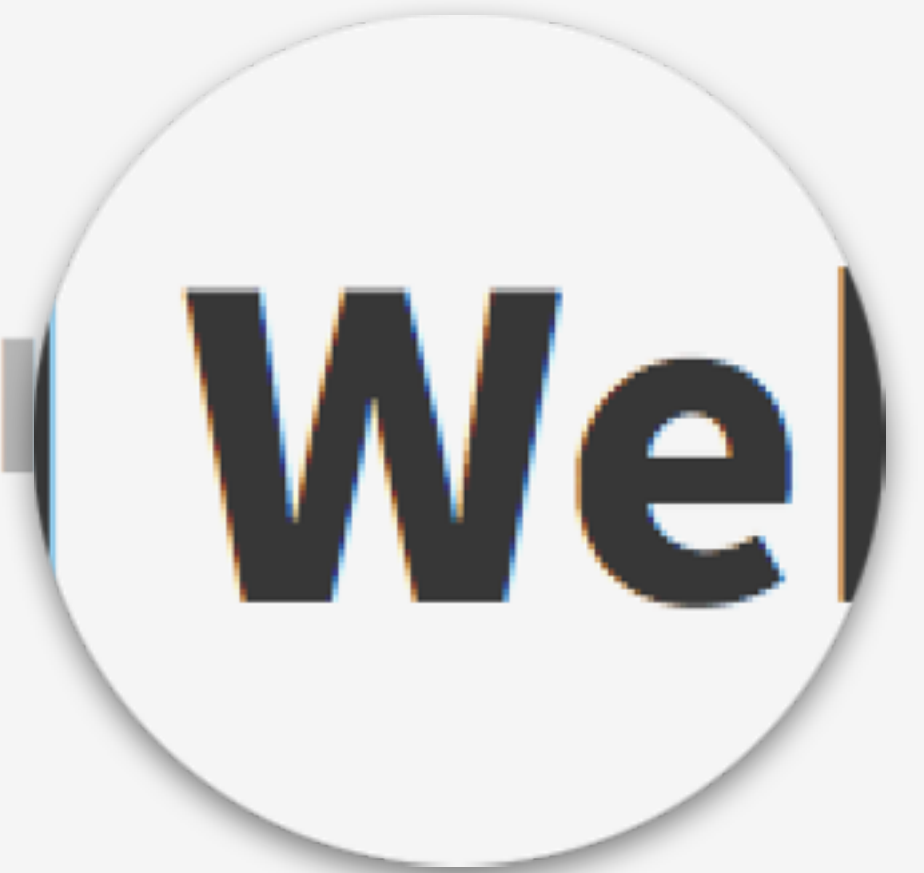
24px Source Sans Pro

Designing the Hi-DPI



24px Source Sans Pro

Designing the Hi-DPI



Retina “disasters”



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Manage & Refill Prescriptions

[Refill from account](#)[Refill with Rx number](#)[View order status](#)[Get a flu shot](#)

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Transfer Rx

Get \$25 Walgreens card†

Express Scripts members may be able to fill prescriptions at Walgreens.



Blurry photo



**Manage & Refill
Prescriptions**

Rasterized text

Refill from account

Refill with Rx number

View order status

Get a flu shot

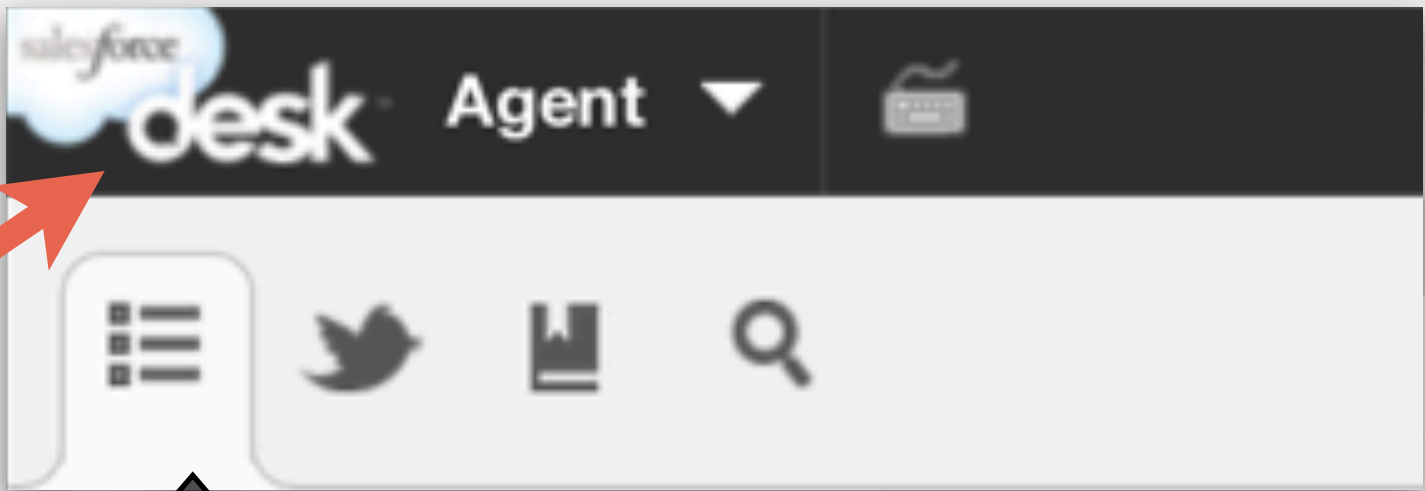
Image buttons

 **David Demaree**
3 Assigned Cases

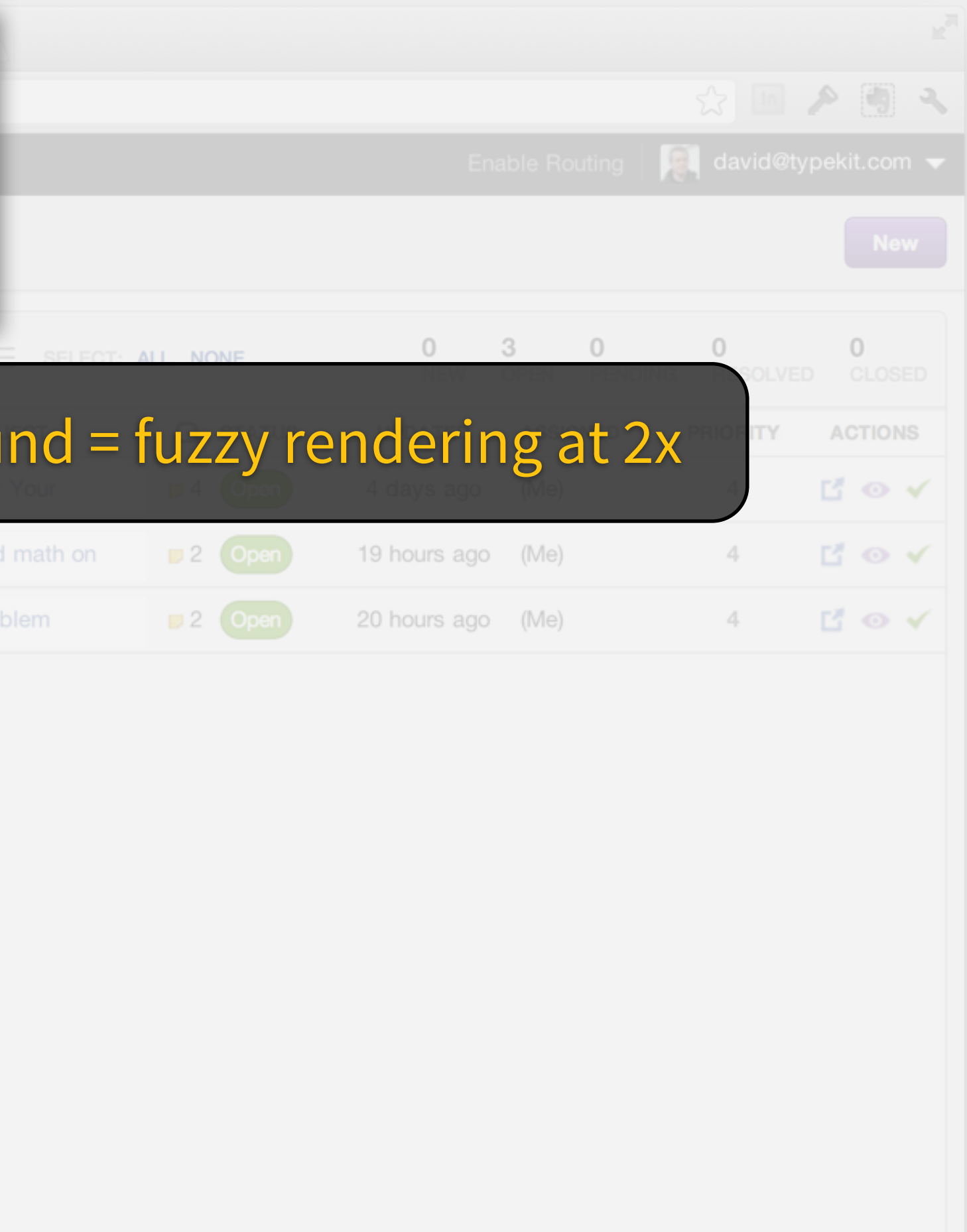
- My Active Cases** 3
- Unassigned Cases 13
- Partner tickets 3
- Stale Partner Tickets
- Enterprise tickets 1
- Stale Enterprise Tickets
- Business Tickets
- Stale Business Tickets
- Account Issues 1

Priority - Highest SELECT: ALL NONE 0 NEW 3 OPEN 0 PENDING 0 RESOLVED 0 CLOSED

CUSTOMER	SUBJECT	STATUS	UPDATED	ASSIGNED	PRIORITY	ACTIONS
		4 Open	4 days ago	(Me)	4	
		2 Open	19 hours ago	(Me)	4	
		2 Open	20 hours ago	(Me)	4	



Fine detail + dark/black background = fuzzy rendering at 2x





SELECT COUNTRY:

UNITED STATES

UNITED KINGDOM

GERMANY

JAPAN 日本

CHINA 中国

ALL OTHER COUNTRIES



TUMI

SELECT COUNTRY:

UNITED STATES

UNITED KINGDOM

GERMANY

JAPAN 日本

CHINA 中国

Rendered using Cufon
(HTML5 Canvas)



Why you should
support hi-DPI devices



Future friendly



Future friendly

Fit & finish



Future friendly

Fit & finish

Clearer text/graphics aid
usability



Future friendly

Fit & finish

Clearer text/graphics aid
usability



Why you might *not*
support hi-DPI devices

Bandwidth



Bandwidth

Legacy browser/device
support



Bandwidth

Legacy browser/device
support

Your site looks good
enough at 1x



HI-DPI RULES OF THUMB

CSS & web fonts
where possible

HI-DPI RULES OF THUMB

CSS & web fonts
where possible

SVG or icon fonts
where appropriate

HI-DPI RULES OF THUMB

CSS & web fonts
where possible

SVG or icon fonts
where appropriate

Responsive images
as needed

css3

CSS3 Browser Support



iOS



CSS3 colors (rgba, hsla)

9+



Border radius

9+



Multiple backgrounds

9+



Box shadow

9+



2D/3D transforms

9+



2D only

Text shadow

10+



Gradients

10+



Border images



Text stroke



Masks





Manage & Refill Prescriptions

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Refill with Rx number

View order status

Get a flu shot



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Get a flu shot



Manage & Refill Prescriptions

Refill from account

Refill with Rx number

View order status

Get a flu shot



Manage & Refill Prescriptions

Refill from account

Refill with Rx number

View order status

Get a flu shot

Full CSS3 support (Chrome)



Manage & Refill Prescriptions

Refill from account

Refill with Rx number

View order status

Get a flu shot

No/limited support (IE 7-8)

Vendor prefixes

You hate 'em, right?

```
.navigation-bar {  
  background-color: #04aef4;  
  background-image: -webkit-gradient(linear, left top, left bottom,  
    color-stop(0%, #04aef4), color-stop(100%, #048ac2));  
  background-image: -webkit-linear-gradient(top, #04aef4, #048ac2);  
  background-image: -moz-linear-gradient(top, #04aef4, #048ac2);  
  background-image: -ms-linear-gradient(top, #04aef4, #048ac2);  
  background-image: -o-linear-gradient(top, #04aef4, #048ac2);  
  background-image: linear-gradient(top, #04aef4, #048ac2);  
  color: white;  
  border-bottom: 1px solid #ccc;  
  display: table;  
  width: 100%;  
}
```

Use Sass

A

LIST
apart

FOR PEOPLE WHO
MAKE WEBSITES

NOVEMBER 29, 2011

Getting Started with Sass

by **DAVID DEMAREE**

Published in: [CSS](#), [Scripting](#)

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CSS' simplicity has always been one of its defining, most welcome features. CSS style sheets are just long lists of rules, each consisting of a selector and some styles to apply. But as our web browser applications got bigger and become more complex, and target a wider range of devices and screen sizes, this simplicity—so welcome as we first started to move away from

bit.ly/sassintro

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include discussions

Topics

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Snapshot

The best way to understand how Sass works is to try it for yourself, by writing some SCSS styles and seeing what comes out. That said, all of my source code examples are available on GitHub for your reference, along with their compiled CSS output, so you can see how all of these neat new features translate into usable style sheets.

SASS + COMPASS

```
#linear-gradient {  
  @include background-image(linear-gradient(left top, white, #dddddd));  
}
```

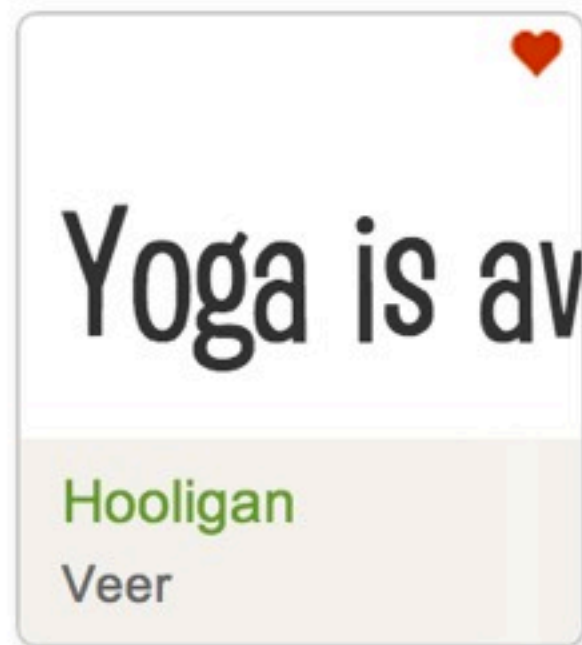
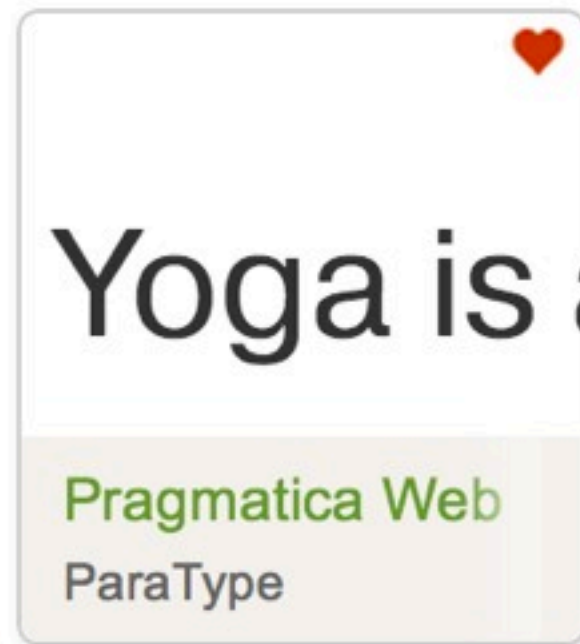
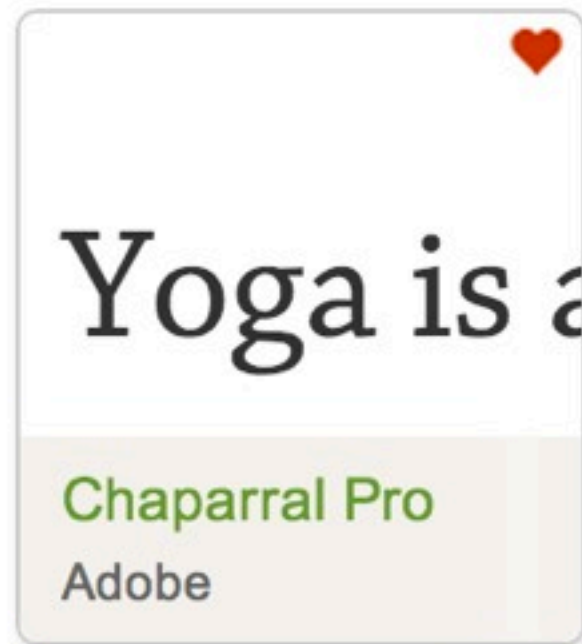
SASS + COMPASS

```
#linear-gradient {  
  @include background-image(linear-gradient(left top, white, #dddddd));  
}
```

COMPILES TO CSS

```
#linear-gradient {  
  background-image: -webkit-gradient(linear, 0% 0%, 100% 100%, color-  
stop(0%, #ffffff), color-stop(100%, #dddddd));  
  background-image: -webkit-linear-gradient(left top, #ffffff, #dddddd);  
  background-image: -moz-linear-gradient(left top, #ffffff, #dddddd);  
  background-image: -o-linear-gradient(left top, #ffffff, #dddddd);  
  background-image: linear-gradient(left top, #ffffff, #dddddd);  
}
```

WEB FONTS



Web font advantages

Real, native browser text

Scales to any size

Robust cross-browser support

RUBYCONF 2012
HTTP://RUBYCONF.ORG/

*** TICKET PURCHASE ***

=====
2012-09-19 15:03:12 -0600
=====

----- CUSTOMER INFORMATION -----

DAVID DEMAREE
DDEMAREE@ADOBE.COM
ADOBE SYSTEMS
1842 N HUMBOLDT BLVD
60647

----- PAYMENT INFORMATION -----

DAVID DEMAREE
[REDACTED] MASTERCARD

----- TICKET INFORMATION -----

SECOND PLACE (SECOND PLACE)
CONFIRMATION # [REDACTED] \$350.00
DAVID DEMAREE
ADOBE SYSTEMS
MEN'S XL

----- TOTAL -----

1 TICKET \$350.00

=====
YOUR CREDIT CARD STATEMENT WILL READ
"BUSYCONF, LLC"
=====

*Thank you!
Here's your receipt.*



RUBYCONF 2012
HTTP://RUBYCONF.ORG/

*** TICKET PURCHASE ***

=====

2012-09-19 15:03:12 -0600

=====

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----- TOTAL -----

1 TICKET \$350.00

=====

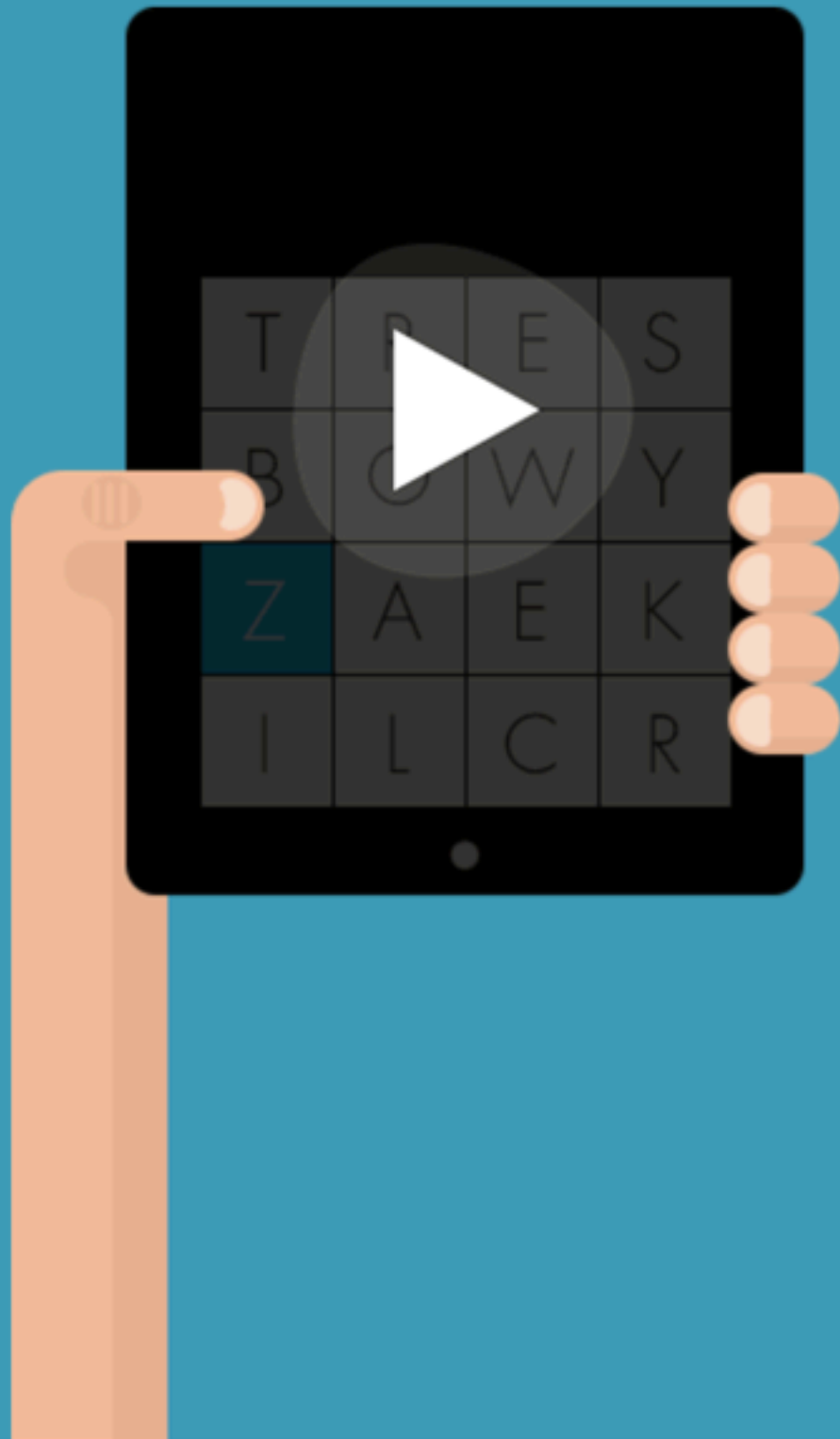
YOUR CREDIT CARD STATEMENT WILL READ
"BUSYCONF, LLC"

=====

*Thank you!
Here's your receipt.*

BusyConf.com
Simple receipt page made delightful
through creative use of web fonts

Sites we like



SPELLTOWER

A GAME OF WORDS

FIND & ELIMINATE WORDS

4 PUZZLING MODES

LONGER WORDS, LARGER REWARDS

TACKLE TILES & KEEP YOUR TOWER LOW



LBVD

/ LIGHTS, CAMERA, HAM!



/ A BIG BANK JOB



/ WILL WORK FOR FREE

IDEAS THAT WORK

Luck, unfortunately, does not count as financial planning.



/ HOWARD LUCK GOSSAGE

THE "HEY HONEY" TEST



Every hit series has a blooper reel.

/ THE ALL-AMERICAN HAM

EMPOWERED BIRDS

Who says they don't make 'em like they used to?

DEVIL'S MUSIC



Sometimes advertising is the last thing we do.



How do you sell phones? Allow us to demonstrate.

/ GARDEN GROWTH

The Coop is Chicago's favorite
coworking spot. We have desks for rent
by the day, week or month.

We're affordable, fun and gosh darnit people like us. [Join now!](#)

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Lunchin' & Learnin'



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Curious about

Challenges



Challenges

Serving multiple font formats



Challenges

Serving multiple font formats

Cross-platform rendering

Font loading & fallbacks

Licensing





Hundreds of commercial typefaces

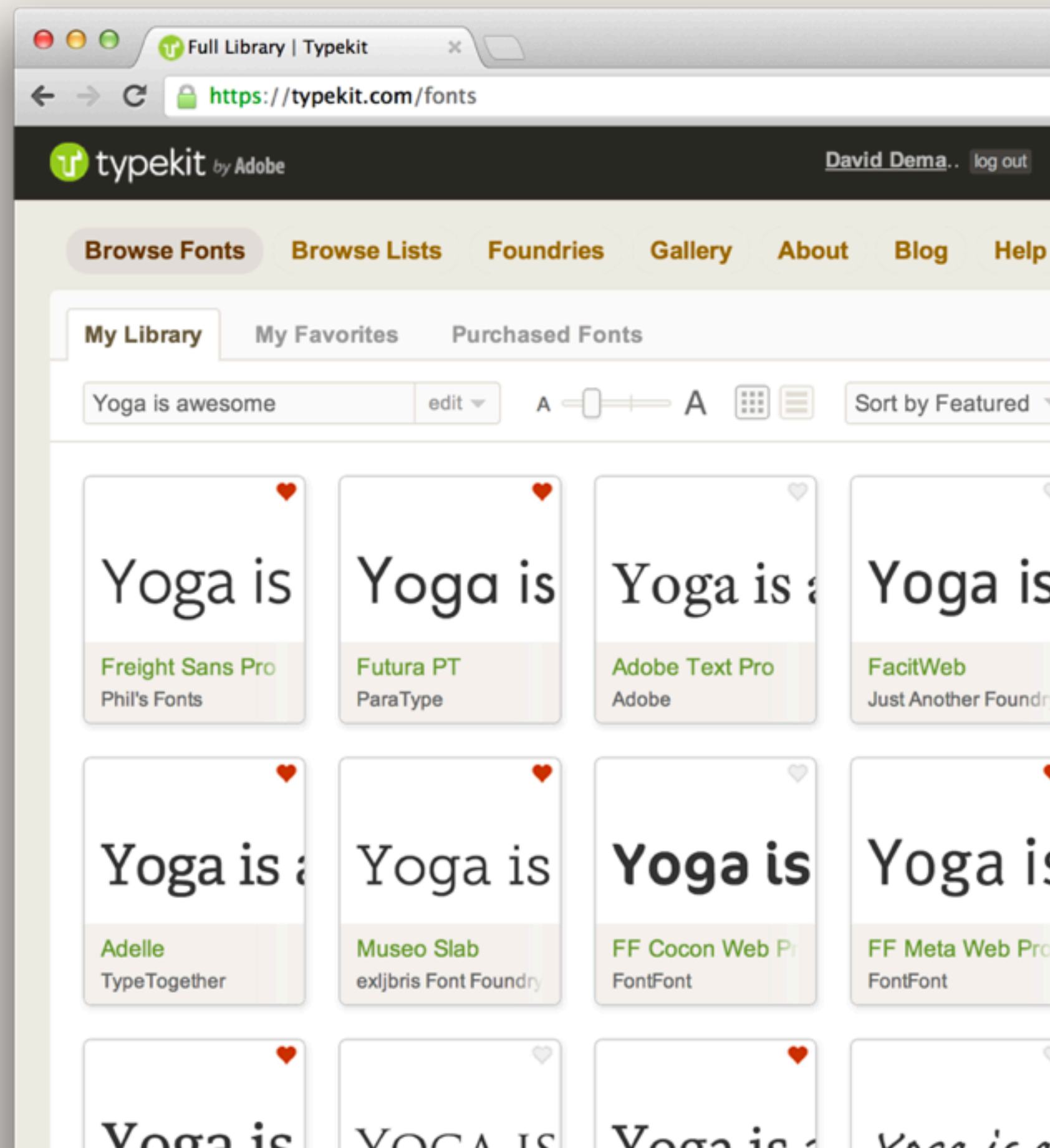
Licensing + CDN hosting included

Unlimited websites +

500,000 pageviews for \$49/yr

Also included with

Adobe Creative Cloud membership



Adobe Edge Web Fonts

New free font service powered by Typekit technology

Hundreds of free/open-source fonts, including **Cooper Black**

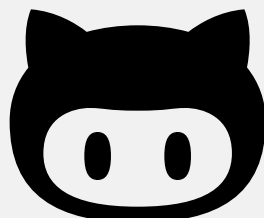
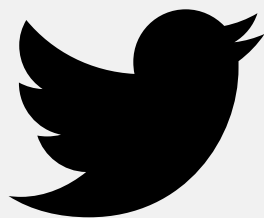
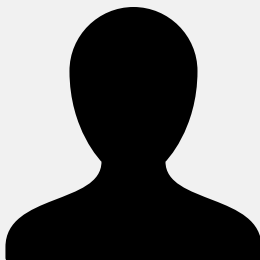
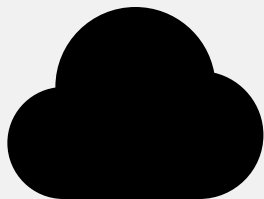
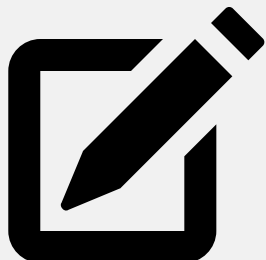
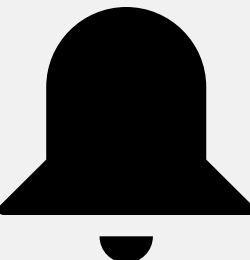
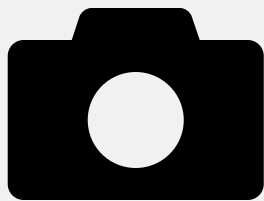
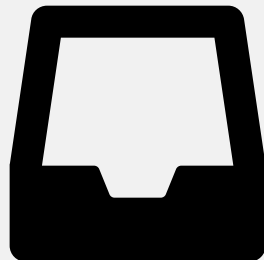
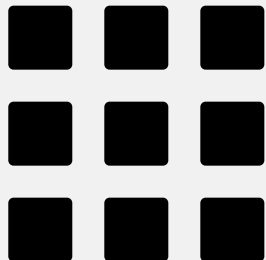
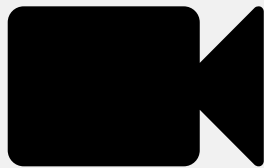
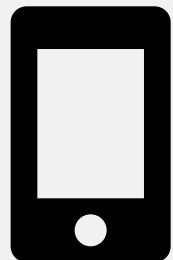
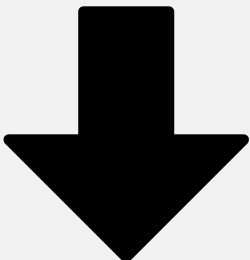
No signup required

Integrated into Edge Tools & Services



ICON FONTS

Icon glyphs from SS Standard & SS Social by Symbolset





David Demaree

ddemaree

- Adobe Systems
- Chicago, U.S.A.
- ddemaree@adobe.com
- http://demaree.me/
- Joined on Feb 26, 2008

22 followers 49 starred 13 following

Organizations



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GiftBox

Simple gift tracker for iOS

Last updated 8 days ago

Objective-C ★ 1 0



i18n

forked from svenfuchs/i18n

Internationalization (i18n) library for Ruby

Last updated 3 months ago

Ruby ★ 1 101



annotations

Extracts and displays source code annotations, e.g. "# TODO: Something"

Last updated 4 months ago

Ruby ★ 2 1



BubbleWrap

forked from rubymotion/BubbleWrap

Cocoa wrappers and helpers for RubyMotion (Ruby for iOS) - Making Cocoa APIs more Ruby like, one API at a time. Fork away and send your pull requests.

Last updated 4 months ago

Ruby ★ 1 106



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GiftBox

Simple gift tracker for iOS

Last updated 8 days ago

Objective-C

★ 1

🔗 0



i18n

forked from svenfuchs/i18n

Internationalization (i18n) library for Ruby

Last updated 3 months ago

Ruby

★ 1

🔗 101



Annotations

Extracts and displays source code annotations, e.g. "# TODO: Something"

Last updated 4 months ago

Ruby

★ 2

🔗 1



BubbleWrap

forked from rubymotion/BubbleWrap

Cocoa wrappers and helpers for RubyMotion (Ruby for iOS) - Making Cocoa APIs more Ruby like, one API at a time. Fork away and send your pull requests.

Last updated 4 months ago

Ruby

★ 1

🔗 106



Total spent

\$0.00



No expenses found

Try another category, perhaps?



```
<!-- Look, ma, no extra markup -->
```

```
<div class="blank-slate">
```

```
  <h2>No expenses found</h2>
```

```
  <p>Try another category, perhaps?</p>
```

```
</div>
```

```
.blank-slate:before {
```

```
  color: #999;
```

```
  content: '\1F4E5'; /* Unicode code point */
```

```
  display: block;
```

```
  font-family: 'SSStandard'; /* Icon font */
```

```
  font-size: 300%;
```

```
}
```

te

Sep 2, 2012

Category

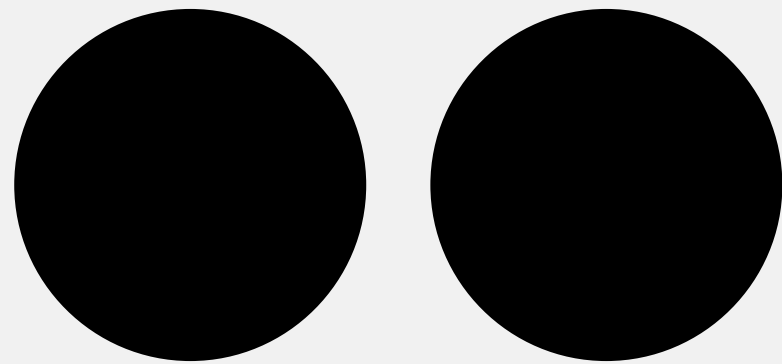
Gadgets

✕ Delete this expense

```
<button class="delete-btn">  
  <span class="ss-icon ss-close"></span>  
  Delete this expense  
</button>
```

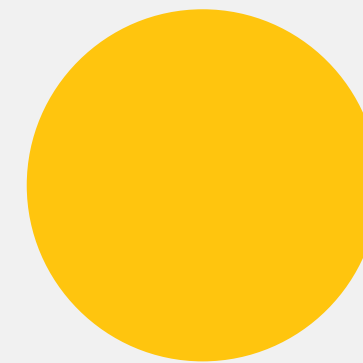
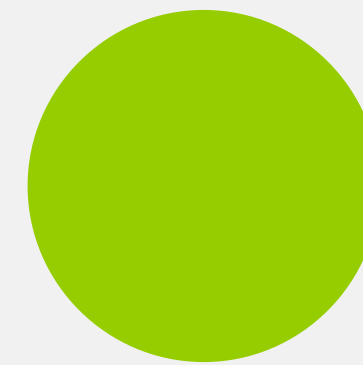
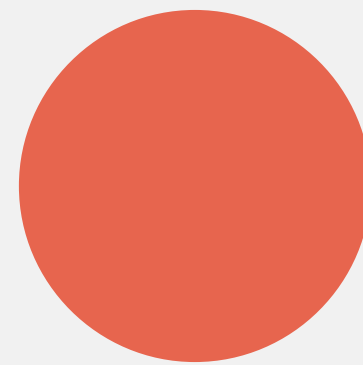
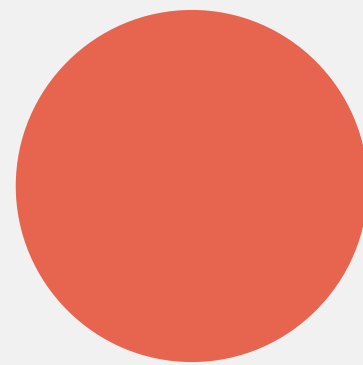
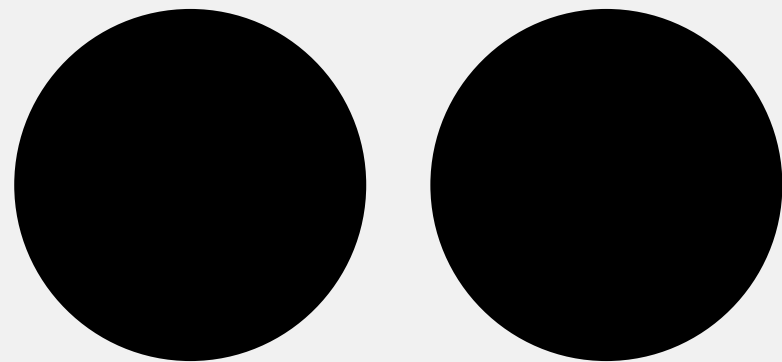
Single color only

```
font-family: 'SSSocial'  
content: 'flickr'
```



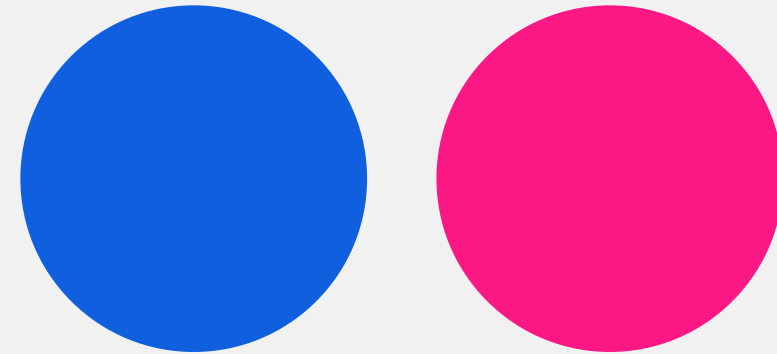
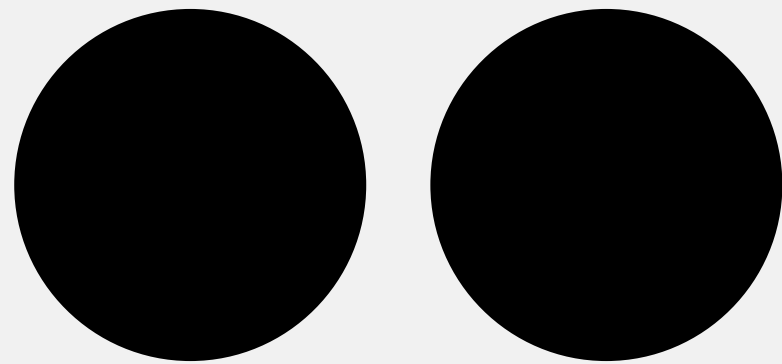
Single color only

font-family: 'SSSocial'
content: 'flickr'



Single color only

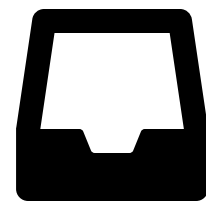
font-family: 'SSSocial'
content: 'flickr'



Flickr's actual logo is rendered in 2 colors, which icon fonts don't support

Accessibility

Generated content is invisible to search engines, but not to assistive devices

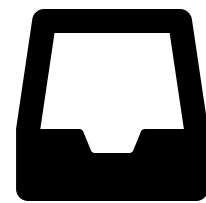


Inbox

```
<span class="ss-icon ss-inbox"></span> Inbox
```

Accessibility

Generated content is invisible to search engines, but not to assistive devices



Inbox

```
<span class="ss-icon ss-inbox"></span> Inbox
```

This will be read by VoiceOver on iOS as:

“Inbox Tray, Inbox.”

ALL ICONS BELOW ARE THE PICTOS FONT. THERE ARE NO IMAGES.



Using the Pictos Font and CSS3 you can make some awesome & lightweight toolbars.
Try clicking the icons. View in Webkit for best results. Zero images used.



Complex lighting, shadowing and gradient effects made possible by CSS3

[See Examples](#)

ALL ICONS BELOW ARE THE PICTOS FONT. THERE ARE NO IMAGES.

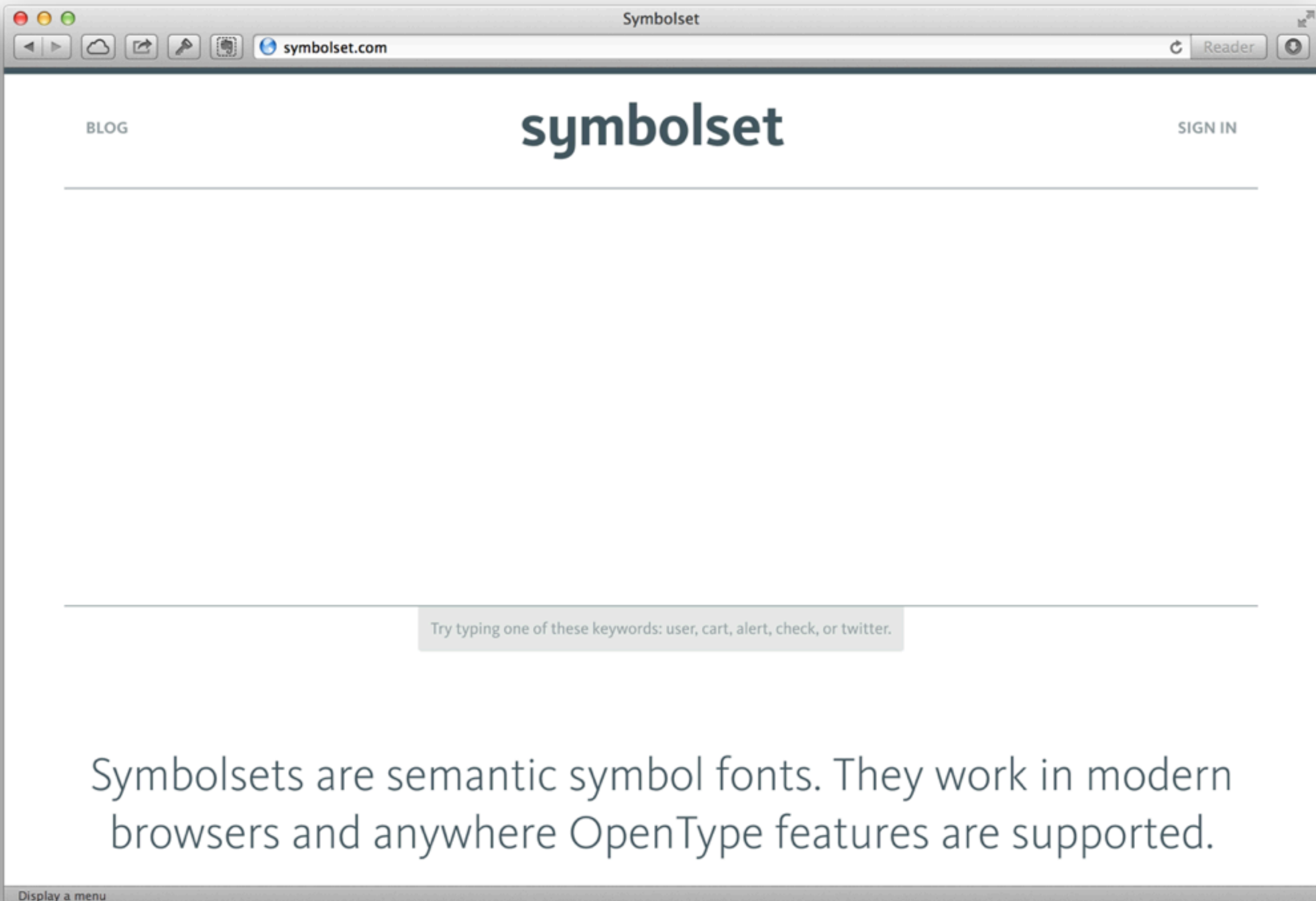


Using the Pictos Font a
Try clicking the i

“Capital D, link”



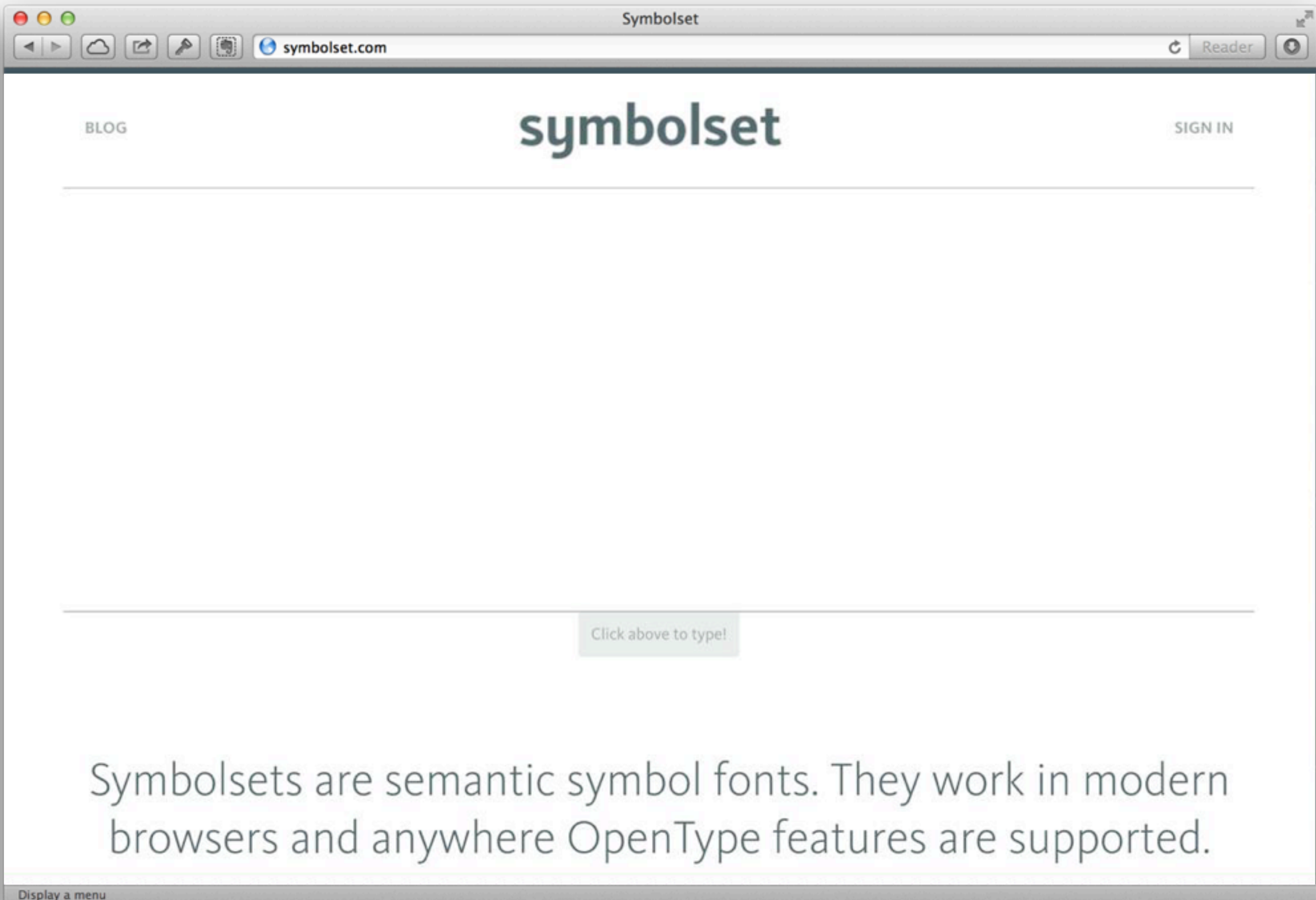
Complex lighting, shadowing and gradient effects made possible by CSS3



symbolset

Try typing one of these keywords: user, cart, alert, check, or twitter.

Symbolsets are semantic symbol fonts. They work in modern browsers and anywhere OpenType features are supported.



symbolset

Click above to type!

Symbolsets are semantic symbol fonts. They work in modern browsers and anywhere OpenType features are supported.

SVG



Adobe Illustrator CS6



typekit

SVG
4 KB



typekit

PNG @1x - 220×70px
3 KB



typekit

PNG @2x - 440×140px
6 KB

SVG browser support



9-10



iOS



4.0



7-8



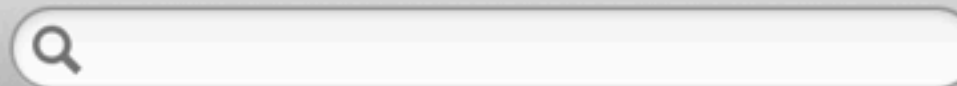
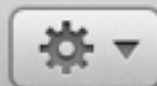
2-3

These browsers/devices will see no image, or else will need a bitmap fallback

```
#logo {  
  /* 1x PNG for IE 7-8/Android 2-3 */  
  background-image: url('/assets/logo.png');  
  
  /* SVG for everyone else */  
  background-image: url('/assets/logo.svg');  
}
```



Typekit Logo



FAVORITES

- Dropbox
- All My Files
- AirDrop
- Applications
- Desktop
- Documents
- Downloads
- Movies
- Music
- Pictures

SHARED

- Elvis

DEVICES

- Remote Disc

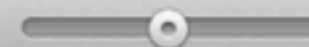


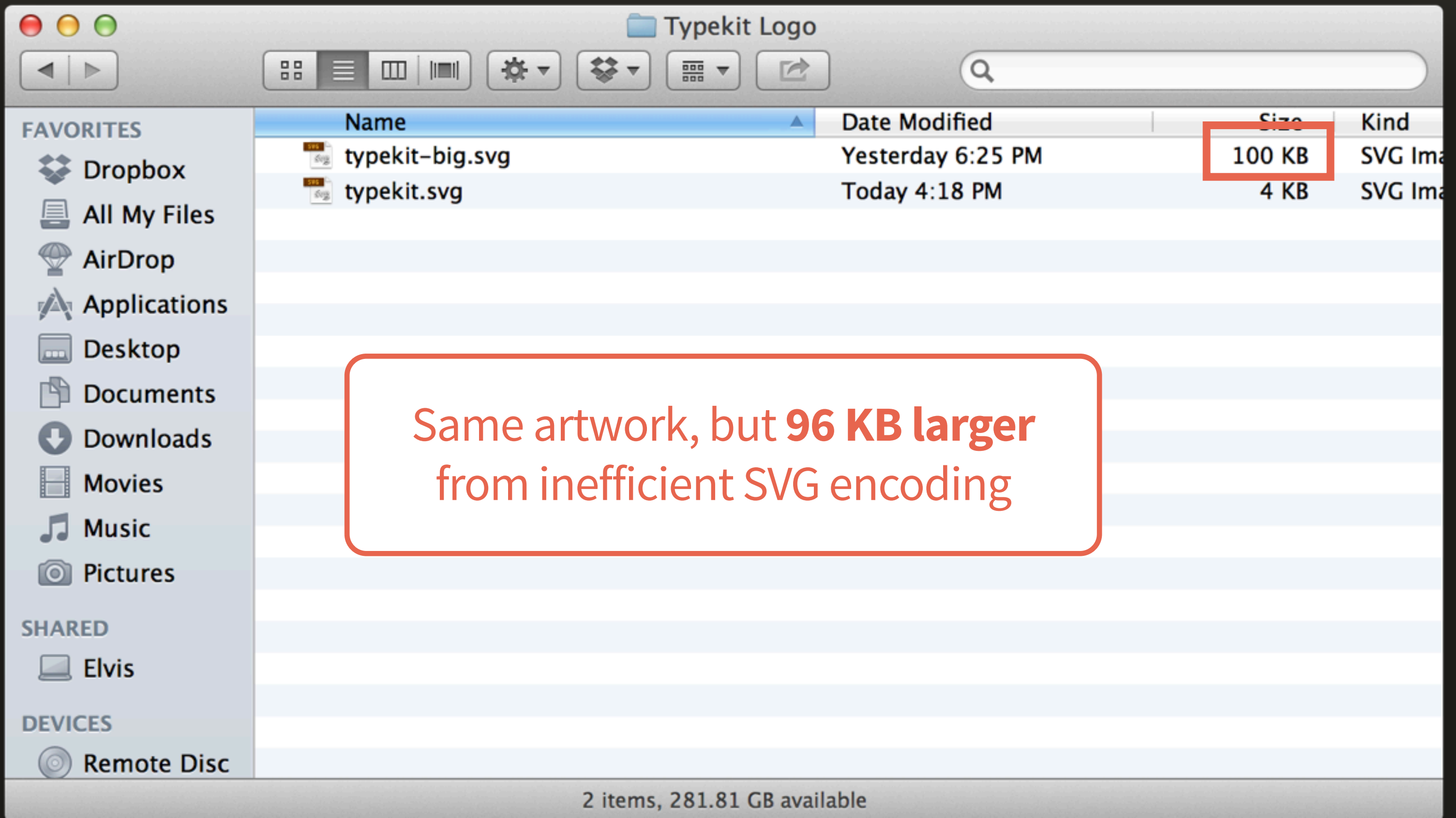
typekit-big.svg



typekit.svg

2 items, 281.81 GB available





SVG Profiles: SVG 1.1

- SVG 1.0
- ✓ SVG 1.1
- SVG Tiny 1.1
- SVG Tiny 1.1 +
- SVG Basic 1.1
- SVG Tiny 1.2

Fonts

Type:

Subsetting:

Options

Image Location: Embed Link

Advanced Options

CSS Properties: Presentation Attributes

Decimal Places: 3 Encoding: Unicode (UTF-8)

Optimize for Adobe SVG Viewer Output fewer <tspan> elements

Include Slicing Data Use <textPath> element for Text on Path

Include XMP

Description

i Hold the cursor over a setting for additional information.

TIP: Use “SVG Tiny” profile when exporting artwork



RESPONSIVE IMAGES

The bad news

There is no single solution (yet) for serving high-resolution images

Proposed web standards

Easy, native responsive image support coming to a browser near you at some point

Proposed `<picture>` syntax

Not implemented by any browser as of Oct 2012

```
<picture>  
  <source srcset="small-1.jpg 1x, small-2.jpg 2x">  
  <source media="(min-width: 18em)"  
    srcset="med-1.jpg 1x, med-2.jpg 2x">  
  <source media="(min-width: 45em)"  
    srcset="large-1.jpg 1x, large-2.jpg 2x">  
  <!-- fallback for legacy browsers -->  
    
</picture>
```

Proposed <picture> syntax

Not implemented by any browser as of Oct 2012

```
<picture>  
  <source srcset="small-1.jpg 1x, small-2.jpg 2x">  
  <source media="(min-width: 18em)"  
    srcset="med-1.jpg 1x, med-2.jpg 2x">  
  <source media="(min-width: 45em)"  
    srcset="large-1.jpg 1x, large-2.jpg 2x">  
  <!-- fallback for legacy browsers -->  
    
</picture>
```

Media query syntax

Proposed <picture> syntax

Not implemented by any browser as of Oct 2012

```
<picture>  
  <source srcset="small-1.jpg 1x, small-2.jpg 2x">  
  <source media="(min-width: 18em)"  
    srcset="med-1.jpg 1x, med-2.jpg 2x">  
  <source media="(min-width: 45em)"  
    srcset="large-1.jpg 1x, large-2.jpg 2x">  
  <!-- fallback for legacy browsers -->  
    
</picture>
```

New image set syntax

Proposed `<picture>` syntax

Not implemented by any browser as of Oct 2012

```
<picture>  
  <source srcset="small-1.jpg 1x, small-2.jpg 2x">  
  <source media="(min-width: 18em)"  
    srcset="med-1.jpg 1x, med-2.jpg 2x">  
  <source media="(min-width: 45em)"  
    srcset="large-1.jpg 1x, large-2.jpg 2x">  
  <!-- fallback for legacy browsers -->  
    
</picture>
```

Proposed image-set syntax

Available today in Chrome, Safari 6, iOS 6

```
#selector {  
  background-image: url(no-image-set.png);  
  background-image: -webkit-image-set(url(myimage.jpg) 1x,  
                                       url(myimage-hires.jpg) 2x);  
  /* other prefixes for -moz, -o and -ms go here */  
}
```

What are our
options *today*?

Just serve one resolution

Different kinds of images
require different solutions

Different kinds of images
require different resolutions



FOUR SEASONS
Hotels and Resorts

[Find a Hotel or Resort](#)

[Meetings & Events](#)

[Weddings](#)

[Residences](#)

[Gift Cards](#)

[Romance Offer](#)

[My Account & Reservations](#)

[English](#)



MAY WE RECOMMEND

ST. PETERSBURG

OPENING IN 2013

LOCAL TIME

05:14 PM

LOCAL TEMPERATURE

15°C / 59°F

[SELECT YOUR DESTINATION](#)

[Existing Reservation? Find it here](#)

[MAKE A RESERVATION](#)



Select a Destination

CHECK IN: 10/04/2012

CHECK OUT: 10/05/2012



FOUR SEASONS
Hotels and Resorts

Small, finely detailed logos look bad on Retina, especially on dark backgrounds

MAY WE RECOMMEND

ST. PETERSBURG OPENING IN 2013

LOCAL TIME

05:14 PM

LOCAL TEMPERATURE

15°C / 59°F

SELECT YOUR DESTINATION

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MAY WE RECOMMEND

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LOCAL TIME

05:14 PM

LOCAL TEMPERATURE

15°C / 59°F

SELECT YOUR DESTINATION

Existing Reservation? [Find it here](#)

MAKE A RESERVATION

1280×486px photo looks okay on Retina



Destination



CHECK IN: 10/04/2012



CHECK OUT: 10/05/2012





Sample photo @ 1x
1280×486 = **193 KB**



Sample photo @ 1x
1280×486 = **193 KB**



Sample photo @ 2x
2560×972 = **602 KB**



Ryan Carver

rcarver

210px Gravatar photo @2x

Typekit

San Francisco

<http://ryancarver.com/>

Joined on Mar 05, 2008

Repositories

Public Activity

Filter rcarver's repositories...

All So



mysql-inspector

Tools for identifying changes to a MySQL schema

Last updated 6 days ago



dotfiles

forked from [holman/dotfiles](#)

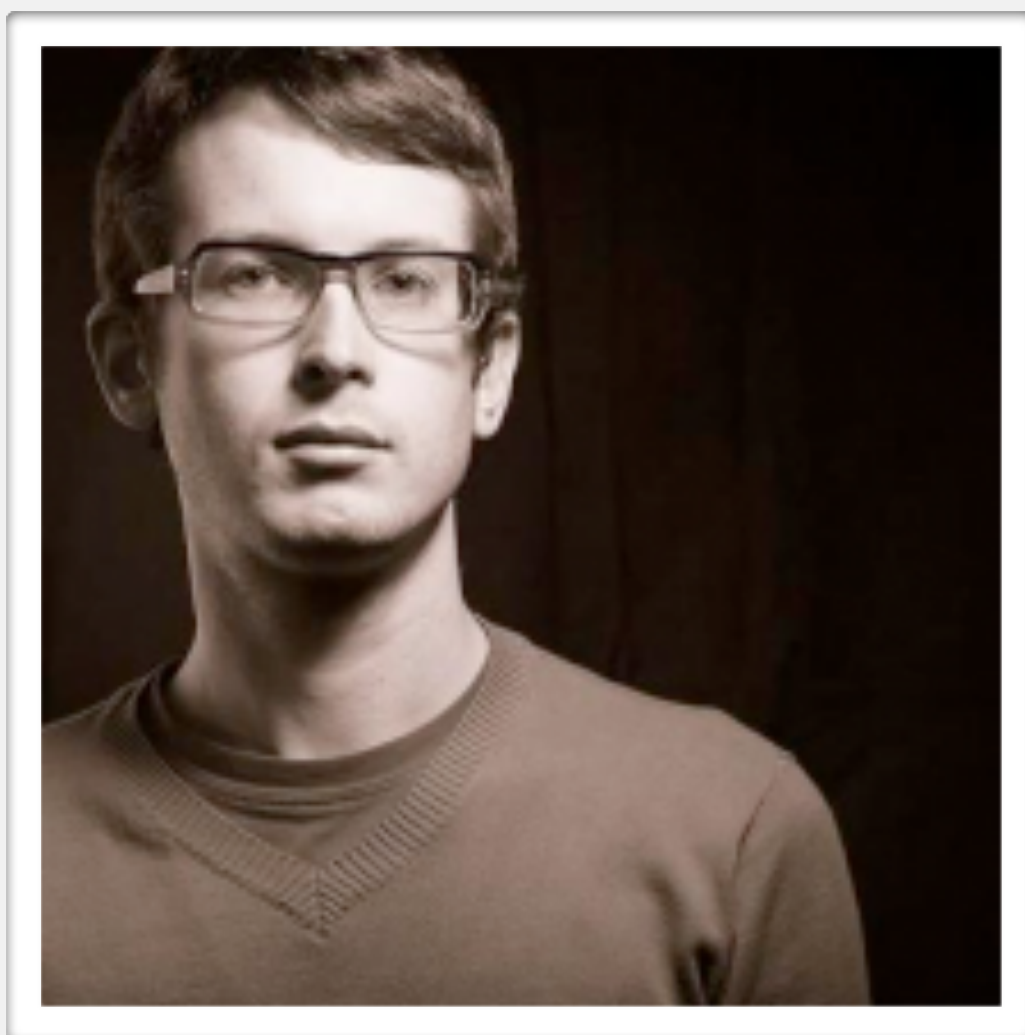
@holman does dotfiles

Last updated 10 days ago

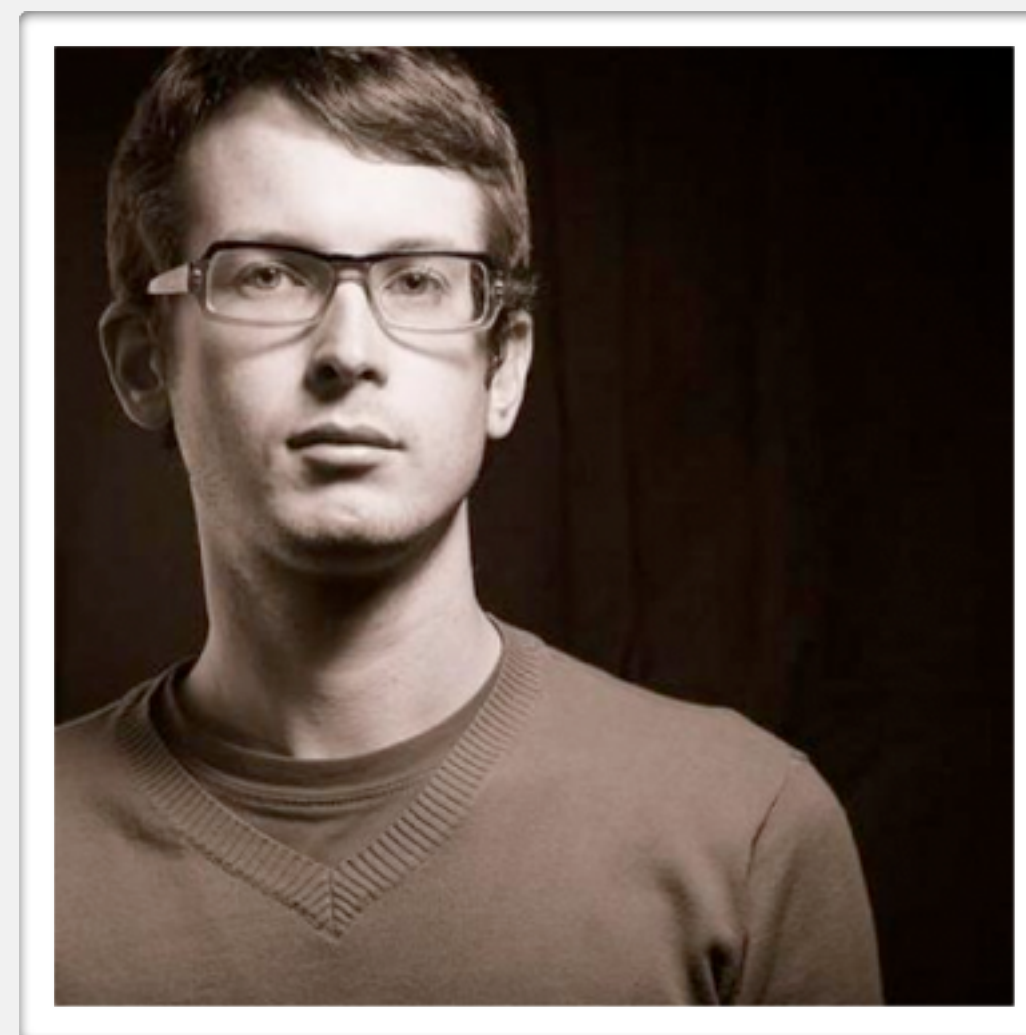


config

A modern, distributed provisioning tool.



1x Gravatar
58 KB



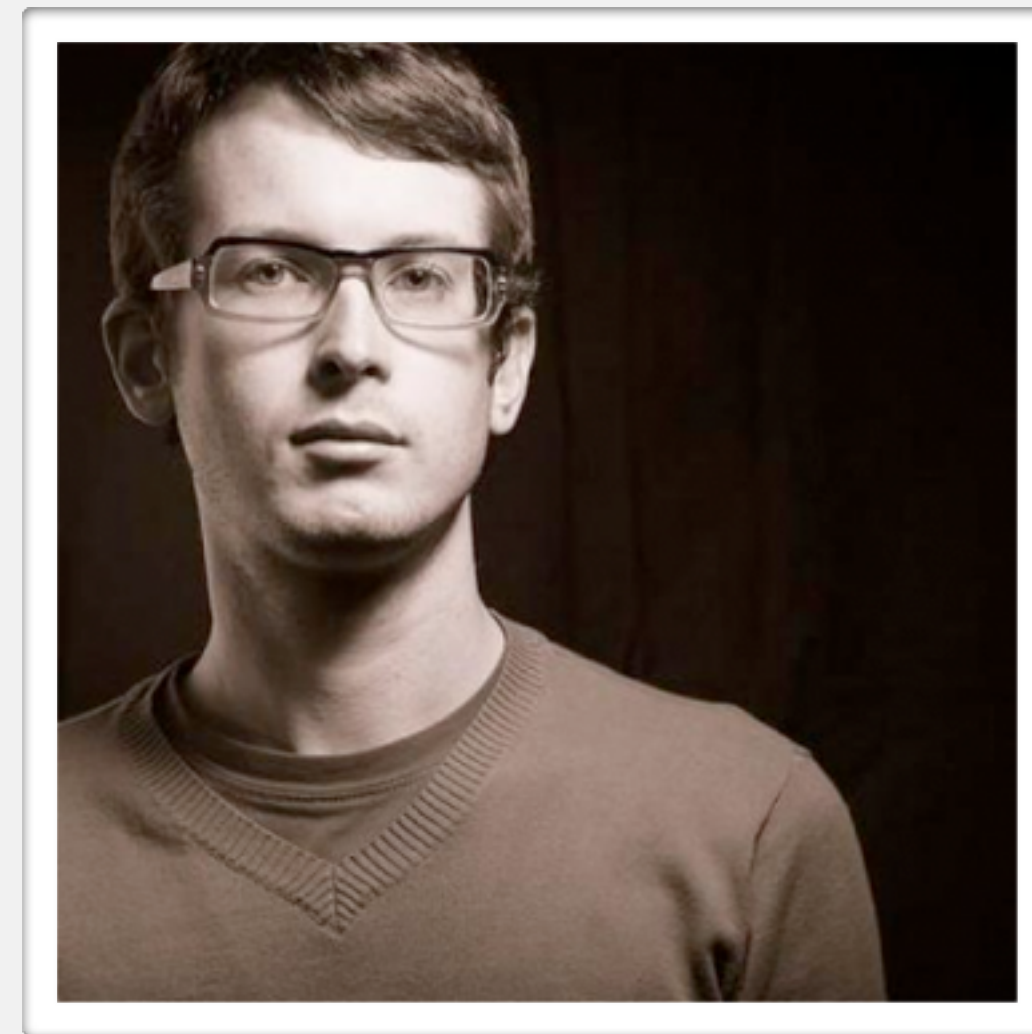
2x Gravatar
188 KB



1x Gravatar
58 KB



1.5x Gravatar
117 KB



2x Gravatar
188 KB

CSS @media queries

@media queries + background-size

```
#logo {  
  background-image: url(/assets/logo.png);  
  background-size: 400px, 200px;  
}
```

```
@media screen and (-webkit-min-device-pixel-ratio: 1.5) {  
  #logo {  
    background-image: url("/assets/logo@2x.png");  
  }  
}
```

@media queries + background-size

```
#logo {  
  background-image: url(/assets/logo.png);  
  background-size: 400px, 200px;  
}
```

background-size fixes the image at its 1x size (in CSS pixels), otherwise 2x versions would be twice as large.

```
@media screen and (-webkit-min-device-pixel-ratio: 1.5) {  
  #logo {  
    background-image: url("/assets/logo@2x.png");  
  }  
}
```

@media queries + background-size

```
#logo {  
  background-image: url(/assets/logo.png);  
  background-size: 400px, 200px;  
}
```

```
@media screen and (-webkit-min-device-pixel-ratio: 1.5) {  
  #logo {  
    background-image: url("/assets/logo@2x.png");  
  }  
}
```

Just like width breakpoints in a responsive grid, media queries establish *pixel density breakpoints* for replacing 1x images with higher-quality ones

@media queries + background-size

```
#logo {  
  background-image: url(/assets/logo.png);  
  background-size: 400px, 200px;  
}
```

```
@media screen and (-webkit-min-device-pixel-ratio: 1.5) {  
  #logo {  
    background-image: url("/assets/logo@2x.png");  
  }  
}
```

It wouldn't be CSS if there weren't f\$%&ing vendor prefixes


@media

```
only screen and (-webkit-min-device-pixel-ratio: 2),  
only screen and ( min--moz-device-pixel-ratio: 2),  
only screen and ( -o-min-device-pixel-ratio: 2/1),  
only screen and ( min-device-pixel-ratio: 2),  
only screen and ( min-resolution: 192dpi),  
only screen and ( min-resolution: 2dppx) {  
/* Retina-specific stuff here */
```

```
}
```



 **AppApp**  

Backlog

- Users can sign in using Facebook or Twitter
- Users should be warned if another user has the same email address
- Users can add their own custom labels
- Apps list/leaderboard should update in real time
- Choose the right font for body text 


Add a card...

Bugs/Issues

- Add Dagny to colophon
- Animations are choppy/too fast 

Add a card...

To Do

- The app should make inane conversation with the user 
- Full/better list of descriptive labels
- App page shows top tags, with percent scores
- Users can flag apps for deletion
- Admin stuff
- Apps include information about which user added them

Done

- Users can log in via Facebook
- Users can rate app stars
- Users can tag app descriptive labels ("classy")
- Users can add a new app
- "My review" button should say "Add my review" if not reviewed, "Change my review" otherwise
- App page shows

Members

- 
- 

Boards

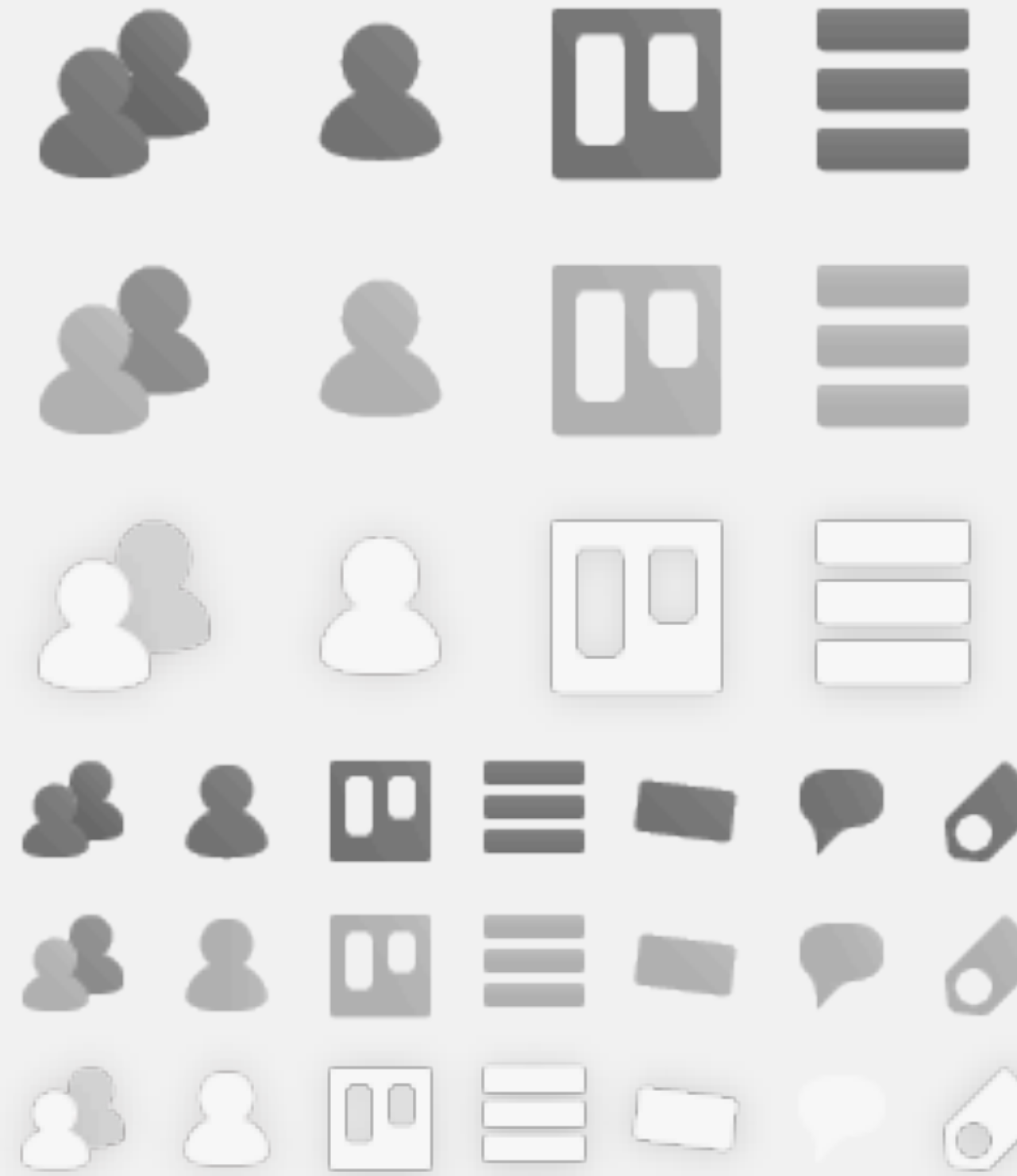
- 
- 
- 

Activity

- 

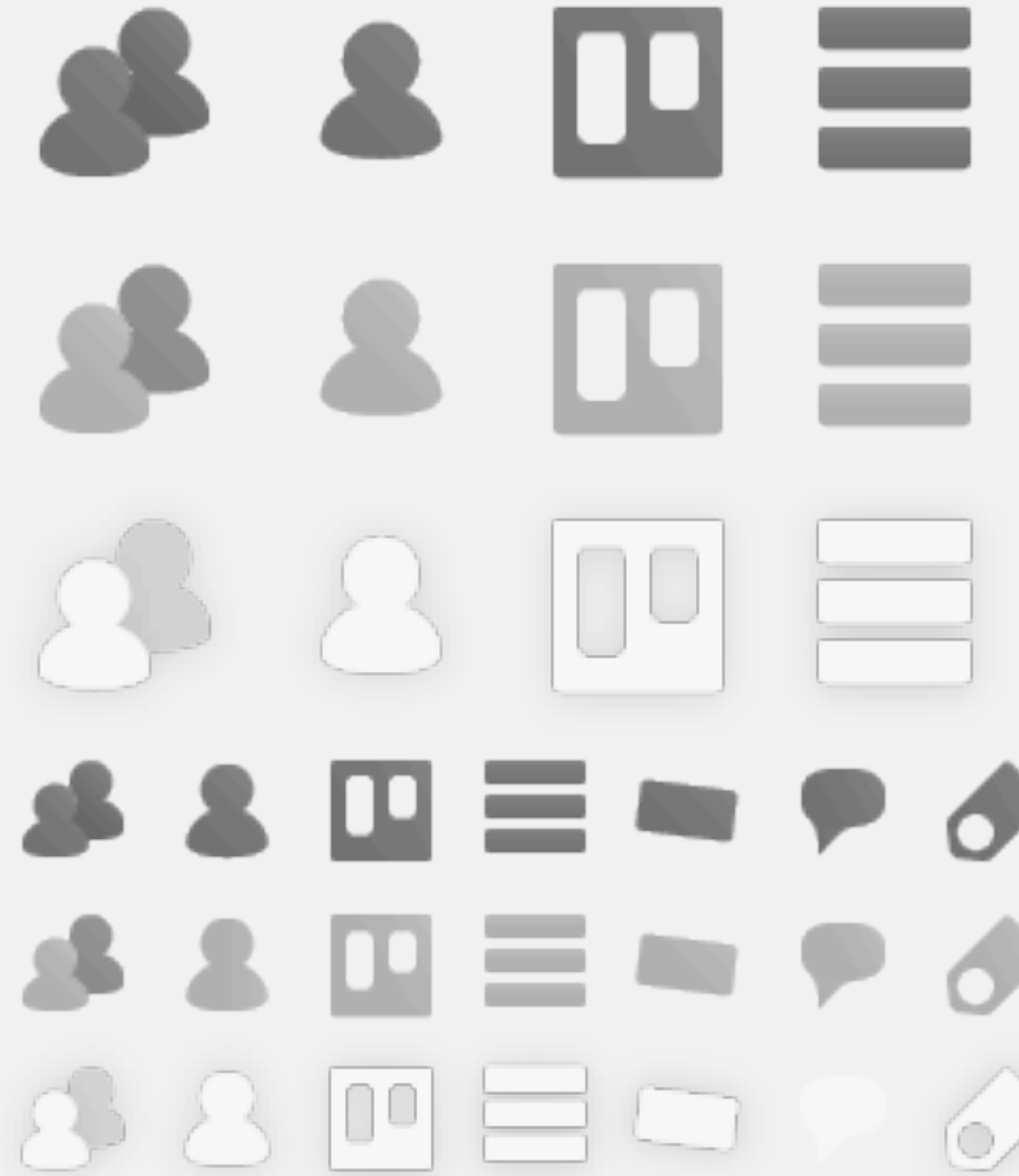
Responsive CSS sprites

```
.app-icon {  
  background-image: url(icons.png);  
}  
  
@media screen and (min-device-pixel-ratio: 1.5) {  
  .app-icon {  
    background-image: url(icons@2x.png);  
    /* Size of 1x sprite set */  
    background-size: 750px 144px;  
  }  
}
```



Responsive CSS sprites

```
.app-icon.logo {  
  /* All other measurements in CSS px */  
  background-position: -648px -90px;  
  width: 82px;  
}
```



HTML + JavaScript

devicePixelRatio property

Available in WebKit browsers + Opera

```
// Returns the scaling factor, e.g. 1.5 or 2
if((window.devicePixelRatio === undefined ? 1 »
    : window.devicePixelRatio) > 1) {
    document.cookie='HTTP_IS_RETINA=1;path=/' ;
}
```

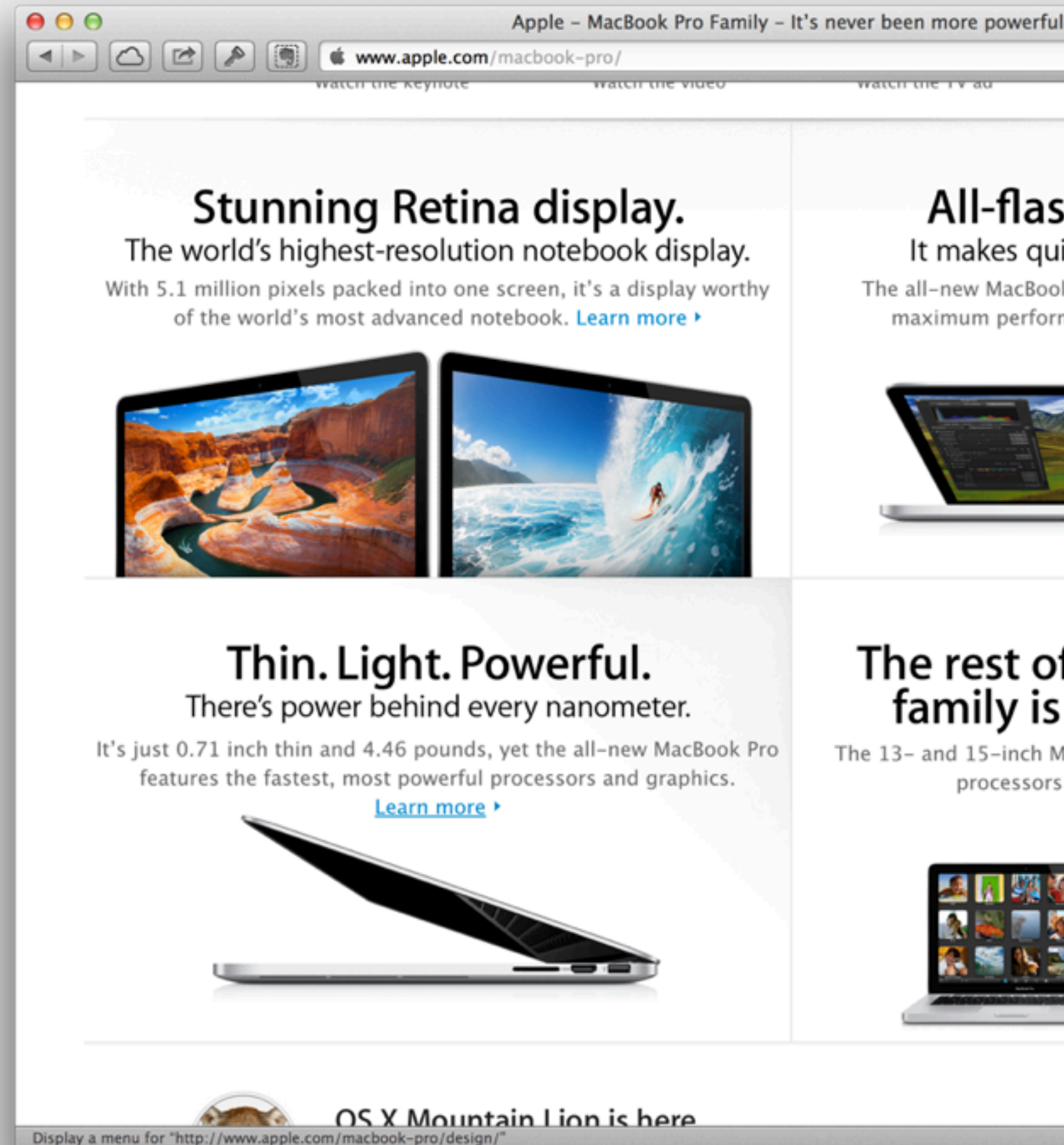
Sets a cookie 'HTTP_IS_RETINA' if scaling factor > 1

Naïve JavaScript replacement on Apple.com

Changes the src attribute of all `` tags inside a container

Uses data attributes to track opt into replacement, track which images have been replaced

Loads *both* 1x and 2x versions, with noticeable “flash of non-Retina content”



PUBLIC scottjehl / picturefill

Watch

★ Star

953

Fork

71

Code

Network

Pull Requests 5

Issues 14

Wiki

Graphs

A Responsive Images approach that you can use today! — Read more

Clone in Mac

ZIP

HTTP

Git Read-Only

git://github.com/scottjehl/picturefill.git

Read-Only access

branch: master

Files

Commits

Branches 5

Tags

Downloads

Latest commit to the master branch

Merge pull request #39 from wturrell/readme-browser-prefix-note

scottjehl authored 2 months ago

commit a169e655ca

picturefill /

name	age	message	history
external	3 months ago	updated text on large image. Fixes #14 [scottjehl]	
README.md	3 months ago	Added new pull request on for browser prefix for HD images [wturrell]	
index.html	6 months ago	This branch is a div-based equivalent of the picture element markup p... [scottjehl]	

github.com/scottjehl/picturefill

Picturefill polyfills the proposed `<picture>` syntax using `<div>` elements and JavaScript

```
<div data-picture>
  <div data-src="external/imgs/pie.jpg"></div>
  <div data-src="external/imgs/pie@1.5x.jpg"
        data-media="(min-device-pixel-ratio: 1.5)"></div>
  <div data-src="external/imgs/pie@2x.jpg"
        data-media="(min-device-pixel-ratio: 2)"></div>

  <!-- Fallback content for non-JS browsers -->
  <noscript></noscript>
</div>
```


No silver bullets

Use the most appropriate strategy for
each kind of image

Use the most appropriate strategy for each kind of image

Whenever possible, use CSS

Use the most appropriate strategy for each kind of image

Whenever possible, use CSS

Try serving only one resolution

Use the most appropriate strategy for each kind of image

Whenever possible, use CSS

Try serving only one resolution

Use Picturefill if true responsive images are needed

THANK YOU



BYE MY NAME WAS
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