Reaching For Stars: Why Images Matter

Vitaly Friedman (illustrations by Simon C Page, Nelson Cash)
March 1st, 2017 @ ImageCon, San Francisco, USA
Vitaly Friedman, editor-in-chief and co-founder of SmashingMag
Colorful Inspiration For Gray Days: Illustration And Photography At Their Best

By Veerle Pieters

If it's still snowy where you live, then you're probably tired of the cold weather by now. Winter may be in full swing but that shouldn't stop us from hunting for inspiration. While the gray days always seem to find a way to make us more and more anxious for springtime to finally arrive, it's also a time we can use to reflect on our work and perhaps better decide what it is that we hope to improve or change in the next months.
Veerle Pieters wrote 7 MONTHS AGO

Breaking Out Of The Box: Design Inspiration (July 2016) 3 comments

# Design 3  # Illustrations 2  # Inspiration 5

Emerson Loustau wrote 7 MONTHS AGO

How To Make WordPress Easy To Maintain For Your Clients 11 comments
Designing for the Web today is like visualizing a tesseract. We craft user-centric, responsive experiences by manipulating the shadows of a tesseract.

— Tim Brown, Typekit
State of Images
If we want to stand out — to outperform our competitors — we need to delight customers with a remarkable design and a unique, charming personality. Be slow and mindful. With an unprecedented attention to detail.

— à la Mogens Møller
We should underpromise, overdeliver. Capture attention and guide it skillfully. On the web today, it all boils down to one single thing: outstanding *storytelling* through great *art direction*.

— à la Mogens Møller
Arthur Rackham, “Goldilocks and the three bears”
Demand is off the charts! Fares have increased to get more Ubers on the road.

5.0x
THE NORMAL FARE

₹750 MINIMUM FARE
₹7.50 / MIN  ₹65 / KM
MailChimp
Hi, I’m Freddie. It’s fun to be me!
Is it fun to be you?

I love eating bananas for breakfast.
I love riding the bus to school.
Color the bus yellow.

I love cooking with my family.
I love dreaming about rocket ships.

Draw the planets you visit in your dreams.
I love making top-secret forts in my room.

I love being me!
Do you love being you?
We should underpromise, overdeliver. Capture attention and guide it skillfully. On the web today, it all boils down to one single thing: outstanding *storytelling* through great *art direction*.

— à la Mogens Møller
We should underpromise, overdeliver. Capture attention and guide it skillfully. On the web today, it all boils down to one single thing: outstanding storytelling through great art direction.

— à la Mogens Møller
State Of Images (2017)

- photos get bigger, screens larger (4K/5K),
- high-res images have a high payload (65.7%),
- responsive images up and running,
- wide support, inconsistent behavior,
- not all images are created equal,
- image bloat costs performance (Parallax),
- start render time difficult to measure,
- user context often impossible to predict.
Native resolution of Ultra HDTV, or 4K (2160p).
4K screens can serve 8-megapixel images.
7x more pixels than HD
Native resolution of Retina 5K iMac (2880p). Apple’s default resolution setting is 2560×1440. 5K screens can serve 14.7-megapixel images.
8K screens can serve **33-megapixel** images (4320p). A heavily compressed desktop wallpaper is 11.7 MB.
Zanussi Lindo300 ZWF01483WR 10Kg Washing Machine with 1400 rpm - White

- All eyes are on this! 28 shoppers have viewed it in the last two hours.
- This is a great choice! It was last bought just 52 minutes ago.

Add to basket

Customer reviews

4.7 / 5 (167 reviews) Read more

Key product information

- 10kg drum capacity - great for large households
- Adds more water to the wash for cleaner results
- Quieter, longer lasting
- Wash your clothes in a speedy 30 minutes
- Dimensions (cm) - H86 x W60 x D60
SanDisk Ultra High Speed 32GB microSD Memory Card with Adapter - Gray/Red (SDSDQUI-032G-T46)

GBP 10.98 LIST: GBP 16.15 (SAVE 32%)

quantity:
- 1 +

add to cart

notes
- Prices, promotions, styles and availability may vary by store and online.
- This item must be returned within 30 days of the ship date. See return policy for details.
Considered purchase
Shades of Images

- logos, branding, advertising
- icons, emoji and illustrations
- vector and photography
- charts and graphs
- maps and interactive 3D views
- animation, interaction, states
- formats, compression, algorithms
- accessible fallback
Responsive Images in Practice
Eric Portis
Do you use responsive images with `<picture>`, srcset and sizes frequently in production?

- 20% Yes, mostly srcset+sizes
- 9% Yes, mostly `<picture>`
- 6% Yes, all of them!
- 65% No, not really.

1,382 votes • 4 days left
Do you optimize your image delivery by serving your images with .webp?

- 3% Yes, all the time!
- 3% Yes, sometimes.
- 3% Just a few times.
- 91% No, not really.

615 votes - 6 days left
State Of Images (2017)

- Photos get bigger, screens larger (4K/5K),
- High-res images have a high payload (65.7%),
- Responsive images up and running,
- Wide support, inconsistent behavior,
- Not all images are created equal,
- Image bloat costs performance (Parallax),
- Start render time difficult to measure,
- User context often impossible to predict.
Responsive Image Breakpoints Generator

Easily generate the optimal responsive image dimensions

One image for all screen resolutions and different devices is not enough. An image per pixel is too much - so how can someone automatically choose the optimal responsive image sizes? Learn more...

Breakpoints generation settings

- Resolution: From 200 to 1400
- Size step: 5KB, 25KB, 45KB, 65KB, 85KB
- Maximum images: Quantity 20
- Retina resolution: Include double resolution (DPR 2.0) images

Art-direction - Image aspect-ratio and view-port ratio

- Desktop: Original 40%
- Small laptop: 40%
- Tablets: 40%
- Smartphones: 40%
Regain creative control of your images.

Imagine a cloud-based tool that allows you to resize multiple images (yes, entire folders) right before your eyes. No scripts, no guesswork. Scale, crop, edit and preview, before your final images are ever created.

real quotes from satisfied customers

"I love the service, it saved me a lot of time!"
## Containers

The `.container` class is used to horizontally constrain content at the highest level. It has an exact width of 1024px. It should be used to wrap all content, ensuring that it stays within the maximum width of the page. Also includes padding on the left and right side to prevent content from resting against the edge of small screens.

In this example, the blue background on `.module` spans the width of the screen, while the `.container` inside constrains content to the target width. The `.fullwidth` class on `.module` gives the containing element a minimum width equal to our minimum page width. This prevents an issue where the background doesn’t extend to the edge of the page when the browser is more narrow than the page and a user scrolls to the right.

```html
<div class="module fullwidth" style="background: blue;">
    <div class="container">
        <p>Content goes here.</p>
    </div>
</div>
```

In this example, `.container` can be the top level element because there is no background (or border, or other visual treatment) that must span the screen outside of the width of the container.

```html
<div class="container">
    <p>Content without a background goes here.</p>
</div>
```
<table>
<thead>
<tr>
<th>Type</th>
<th>A1ty Color</th>
<th>Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Title 1 · 44/56</strong></td>
<td><img src="image" alt="Rauch #FFBA9F 3.06:1" /></td>
<td><img src="checkbox" alt="8 · tiny" /></td>
</tr>
<tr>
<td><strong>Title 2 · 32/36</strong></td>
<td><img src="image" alt="A1ty Bobu #00A699 3.03:1" /></td>
<td><img src="checkbox" alt="16 · small" /></td>
</tr>
<tr>
<td><strong>Title 3 · 24/28</strong></td>
<td><img src="image" alt="A1ty Arches #0C642D 3.0:1" /></td>
<td><img src="checkbox" alt="24 · base" /></td>
</tr>
<tr>
<td></td>
<td><img src="image" alt="A1ty Hof #66DB4B 9:14:1" /></td>
<td><img src="checkbox" alt="48 · large" /></td>
</tr>
<tr>
<td></td>
<td><img src="image" alt="A1ty Foggy #767576 4.54:1" /></td>
<td><img src="checkbox" alt="64 · x-large" /></td>
</tr>
</tbody>
</table>

*Large · 19/24
Regular · 17/22
Small · 14/18*
User Marquee
Optional caption


Paragraph two
Description: America’s early beginnings are etched into the earth of Boston, a traditional New England city.
```javascript
var size = window.getComputedStyle(document.body, ':after').getPropertyValue('content');
if (size == 'desktop') {
  // Load some more content.
}
```
Navigation

Android

iOS

Pages

Nav for...arquees

Nav for...arquees

Nav for...arquees

Collaps...arquees

Collaps...arquees
Hello, Alex.

Your trip to Monte Rio is in 3 days.

Recent Searches

San Francisco

Recently Viewed

2 Bedroom Flat with Home Office

Magic Cabin
Showing 56 flows

Narrow your selection with the filters above.

Try out different combinations of Device Type, User Flow and Language.

If you leave a filter empty, you'll see all screens for that attribute.

You can save views by...
Fahr nicht nur hin.
Lebe dort.

Video anschauen

Letzte Suchen

San Francisco
2 Gäste

Paris
May 2 - May 16, 1 Gast + 1 Filter
Boîte de réception

Alertes

Laissez un com... il y a 2 jours
Laissez un commentaire s...
Alerte

Messages
An image isn’t an image. Today, it’s a family of image variants. We talk about creating design systems for front-end. Should we start thinking of behavior and appearance of images the same way?
The Perfect Workflow

To deal with the overhead of responsive images, companies have to automate their image workflows.

— Create a project for a website or page,
— Upload all images in a high resolution,
— Define settings, aspect ratios, DPR, compression, formats,
— Set a focal point on images with a visual editor,
— Define accessible labels and alternate text,
— Automatically crop/reisze/optimize/generate all images,
— Markup / CSS are automatically generated,
— Download all images and markup in a .zip,
The Perfect Workflow

To deal with the overhead of responsive images, companies have to automate their image workflows.

- Download all images and markup in a .zip,
- Live preview displays the behavior in-browser,
- Integration in CMS: automatic updates of markup/CSS,
- Integration in Dropbox: automatic sharing/syncing,
- Maintenance easy through managing a project,
- Enable context-aware resizing for finer adjustments,
- Supporting `<picture>`, `srcset`, `sizes`, `image-set`, `formats`. 
To get my CSSblob version of my masthead, I opened it up in Photoshop and divided it up into regions of colour. Because most of the objects in this image run top to bottom, I made vertical slices. Very conveniently for me, those regions all occurred at 25% intervals:
The next step was to sample each colour and plug them into a CSS gradient:

```css
linear-gradient(to right, #8073e3 0%, #251d16 50%, #3f302b 75%, #100b09 100%)
```
This means that, if this image ever fails to load again, we see this:

![CSS Wizardry homepage](https://csswizardry.com)

Front-end Architecture and Performance Engineering

Consultancy
I provide CSS and performance consultancy to companies of all sizes across the globe. From advice on how to work better as a team, to how to scale a large codebase; how to rationalise the design process, to how to write better quality responsive UIs.

Development
I work on products and long running projects, focusing on scalability, maintainability, performance, and more. I usually join product teams for short, initial kick-off sprints in order to set up architectures and workflows, and to leave teams self-sufficient.

Workshops
I run workshops and training sessions for existing teams, getting them up to scratch and prepared for writing and managing front-ends that they expect to grow. Performance concerns, workflows, design process, and more, tailored to your company, products, and team.

View full size/quality (144KB)

Not a huge difference, but certainly less blunt than a completely flat image: it’s enough to add a little bit of texture and hint at the general composition of the missing images.
Smooth image loading by upscaling

By Nick Fisher

The site soundcloud.com is a single-page application that displays a multitude of users' images. At SoundCloud, we use a technique to make the loading of an image appear smooth and fast. When displaying an image on screen, we want it to display to the user as fast as possible. The images display in multiple locations from a tiny avatar on a waveform to a large profile image. For this reason, we create each image in several sizes. If you are using Gravatar, this technique also applies because you can fetch arbitrarily-sized images by passing the desired size in a query parameter (\(s\)).

The technique uses the browser's cache of previously loaded images. When displaying a large avatar image, first display a smaller version that is stretched out to full size.
...Given two *identical* images that are displayed *at the same size* on a website, one can be much smaller than the other in file size if it’s *heavily compressed* and its dimensions are *much larger* than the original.

— Daan Jobsis
600×400px file, 0% JPEG quality, displayed in **600×400** (file size 7 Kb)
600×400px file, 0% JPEG quality, displayed in 300×200 (file size 7 Kb)
300×200px file (21 Kb)
80% JPEG quality
displayed in 300×200

600×400px file (7 Kb)
0% JPEG quality
displayed in 300×200
<table>
<thead>
<tr>
<th>Device</th>
<th>PPI</th>
<th>Tested</th>
<th>Working</th>
<th>Browsers</th>
</tr>
</thead>
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<tr>
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<td>264</td>
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<td>Yes</td>
<td>Safari, Chrome</td>
</tr>
<tr>
<td>Apple iPhone 4 / 4S</td>
<td>325</td>
<td>Yes</td>
<td>Yes</td>
<td>Safari, Chrome</td>
</tr>
<tr>
<td>Apple MacBook Pro 15 &quot;Retina Display&quot;</td>
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<td>Yes</td>
<td>Yes</td>
<td>Safari</td>
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<td>Archos 10.1 G9</td>
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<td>Yes</td>
<td></td>
</tr>
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<td>HTC ChaCha</td>
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<td>Yes</td>
<td></td>
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<tr>
<td>HTC One V</td>
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<td>Yes</td>
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<td>Yes</td>
<td>Mobile Internet Explorer 9</td>
</tr>
<tr>
<td>Nokia Lumia 900</td>
<td>217</td>
<td>Yes</td>
<td>No</td>
<td>Mobile Internet Explorer 9</td>
</tr>
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<td>Samsung Galaxy Ace</td>
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<tr>
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<td>Samsung Galaxy SIII</td>
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<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Samsung Galaxy Tab 2 10.1</td>
<td>149</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Samsung Galaxy Xcover</td>
<td>158</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Samsung Note</td>
<td>285</td>
<td>Yes</td>
<td>Yes</td>
<td></td>
</tr>
</tbody>
</table>
The devil is in the details

Detail is probably one of the most important values for a designer, an eye for detail should be in our DNA. As a perfectionist I like my designs to be pixel perfect. I am allergic for "aggies" and ugly compressed artifacts in icons and images on websites. Apple’s Retina revolution is an interesting evolution that is turning the design world upside down. The Retina display has a high enough pixel density to prevent pixelation to be noticeable to the human eye. Therefore a Retina display is a lot sharper and more pleasant to look at. Apple has doubled the amount of horizontal and vertical pixels on the iPhone, The New iPad, and now also on the new MacBook Pro. The Retina revolution is irreversible, and other companies have already started or will also start implementing this new Retina technology.

Nowadays pixel perfection can be obtained with techniques like @font-face and CSS3. Making fonts, borders, shadows, and gradients sparkle on your screen. These elements are based on vectors or mathematical expressions which allows them to be scaled to enormous sizes without creating distortion. This does not count for rasterized images which consist of pixels. An image that looks good on a normal display will appear blurry on a Retina display. The Retina display blows up the image, it doubles the amount of pixels. There is not enough data for the image to be displayed.
Aftonbladet’s Images Strategy

- Design specification defined *main requirements*:
  - Optimization of the mobile version,
  - The pages should be easy to cache,
  - A single HTML file to be served to all users,
  - All images on a content delivery network (CDN),
  - No complexity in the image-serving logic,
  - Serving different image versions to different devices.

- **Solution**: Loading images with JavaScript after HTML and CSS have fully loaded.
• **30% JPEG quality**: bright-red areas don’t compress well.

• Editors *can select* compression rates, but aggressive compression is a default.
• The homepage on a mobile device has 40 images.

• On average, the “large” screen has 650 Kb, “medium” — 570 Kb, “small” — 450 Kb.
• The original photo has 1600px width, 971 Kb. Quality 60 brings the size down to 213 Kb.
• Blurring unimportant parts of the photo brings the size down to 147 Kb.
Sequential JPEG

Progressive JPEG

Images taken from http://www.pixeltech.net/article/1374757887-use-progressive-jpeg-to-improve-user-experience
Default Scan Levels

# Initial DC scan for Y,Cb,Cr (lowest bit not sent)
\[0,1,2: 0-0, 0, 1;\]

# First AC scan: send first 5 Y AC coefficients, minus 2 lowest bits:
\[0: 1-5, 0, 2;\]

# Send all Cb,Cr AC coefficients, minus lowest bit:
# (chroma data is usually too small to be worth subdividing further;
# but note we send Cr first since eye is least sensitive to Cb)
\[2: 1-63, 0, 0;\]
\[1: 1-63, 0, 0;\]

# Send remaining Y AC coefficients, minus 2 lowest bits:
\[0: 6-63, 0, 2;\]

# Send next-to-lowest bit of all Y AC coefficients:
\[0: 1-63, 2, 1;\]

# At this point we've sent all but the lowest bit of all coefficients.

# Send lowest bit of DC coefficients
\[0,1,2: 0-0, 1, 0;\]

# Send lowest bit of AC coefficients
\[2: 1-63, 1, 0;\]
\[1: 1-63, 1, 0;\]

# Y AC lowest bit scan is last; it's usually the largest scan
\[0: 1-63, 1, 0;\]
# Initial DC scan for Y,Cb,Cr (lowest bit not sent)
0,1,2, 0-0, 0, 1 ;

# First AC scan: send first 5 Y AC coefficients, minus 2 lowest bits:
0 : 1-5, 0, 2 ;

# Send all Cr,Cb AC coefficients, minus lowest bit:
# (chroma data is usually too small to be worth subdividing further;
# but note we send Cr first since eye is least sensitive to Cb)
0: 1-63, 0, 0 ;
1: 1-63, 0, 0 ;

# Send remaining Y AC coefficients, minus 2 lowest bits:
0: 6-63, 0, 2 ;

# Send next-to-lowest bit of all Y AC coefficients:
0 : 1-63, 2, 1 ;

# At this point we've sent all but the lowest bit of all coefficients.
# Send lowest bit of DC coefficients
0,1,2, 0-0, 1, 0 ;

# Send lowest bit of AC coefficients
0: 1-63, 1, 0 ;
1: 1-63, 1, 0 ;

# Y AC lowest bit scan is last; it's usually the largest scan
0 : 1-63, 1, 0 ;
1st Scan Layer Has Small Byte Size

Ships Fast & Shows Soon
1 # Interleaved DC scan for Y,Cb,Cr:
   0, 1, 2: 0-0, 0, 1 ;
   initial DC for all channels

4 # AC scans:
   0: 1-27, 0, 0 ;
   half of all brightness values

   2: 1-63, 0, 0 ;
   1: 1-63, 0, 0 ;
   all remaining color channel values

9 # Remaining Y coefficients
   0: 28-63, 0, 0 ;
   2nd half of brightness channel
### Progressive JPEGs via HTTP2

<table>
<thead>
<tr>
<th>Load Time</th>
<th>First Byte</th>
<th>Start Render</th>
<th>Visually Complete</th>
<th>Speed Index</th>
<th>DOM Elements</th>
<th>Result (error code)</th>
<th>Document Complete</th>
<th>Fully Loaded</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.180s</td>
<td>0.118s</td>
<td>0.436s</td>
<td>3.500s</td>
<td>1537</td>
<td>75</td>
<td>0</td>
<td>3.180s 21</td>
<td>3.213s 21</td>
</tr>
<tr>
<td>RUM First Paint</td>
<td>domContentLoaded</td>
<td>loadEvent</td>
<td>0.822s</td>
<td>0.646s - 0.646s (0.000s)</td>
<td>3.468s - 3.470s (0.002s)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Optimized Progressive JPEGs via HTTP2

<table>
<thead>
<tr>
<th>Load Time</th>
<th>First Byte</th>
<th>Start Render</th>
<th>Visually Complete</th>
<th>Speed Index</th>
<th>DOM Elements</th>
<th>Result (error code)</th>
<th>Document Complete</th>
<th>Fully Loaded</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.486s</td>
<td>0.120s</td>
<td>0.471s</td>
<td>3.800s</td>
<td>1445</td>
<td>75</td>
<td>0</td>
<td>3.486s 21</td>
<td>3.590s 21</td>
</tr>
<tr>
<td>RUM First Paint</td>
<td>domContentLoaded</td>
<td>loadEvent</td>
<td>0.735s</td>
<td>0.648s - 0.648s (0.000s)</td>
<td>3.766s - 3.768s (0.002s)</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
A Bash script to automate adaptive JPEG compression using common CLI tools

Adept - the adaptive JPG Compressor
Improved JPEG encoder.

- **Branches:** 8
- **Commits:** 3,486
- **Releases:** 7
- **Contributors:** 24

- Merge pull request #207 from mozilla/jpg-yuv-classup
- cmake-scripts: Win: Enable testing cross-compiled builds
- doohml: Bump TurboJPEG C API revision to 1,5
- java: Merge remote-tracking branch 'libjpeg-turbo/master' into libjpeg-turbo
- moS: Win: Enable testing cross-compiled builds
- release: Merge remote-tracking branch 'libjpeg-turbo/master' into libjpeg-turbo
- sharedlib: Merge libjpeg-turbo r1390
- simd: Merge remote-tracking branch 'libjpeg-turbo/master' into libjpeg-turbo
- testimages: 12-bit JPEG support
- win: Merge remote-tracking branch 'libjpeg-turbo/master' into libjpeg-turbo
- .gitauthors: Script for git-svn reinitialization
What if you have a large photo that requires a transparent shadow? PNG is too large in file size, and JPEG isn’t good enough in quality. **Trick:** create a regular non-transparent JPG and an 8-bit PNG (alpha mask) and load both images inside an SVG container.
- **hero-image.svg:**

```xml
<svg xmlns="http://www.w3.org/2000/svg"
     xmlns:xlink="http://www.w3.org/1999/xlink"
     viewBox="0 0 560 1388">
  <defs>
    <mask id="canTopMask">
      <image width="560" height="1388" xlink:href="can-top-alpha.png"/>
    </mask>
  </defs>
  <image mask="url(#canTopMask)" id="canTop" width="560" height="1388"
        xlink:href="can-top.jpg"></image>
</svg>
```
• hero-image.svg:

```xml
<svg xmlns="http://www.w3.org/2000/svg"
xmlns:xlink="http://www.w3.org/1999/xlink" viewbox="0 0 560 1388">
  <defs>
    <mask id="canTopMask">
      <image width="560" height="1388" xlink:href="can-top-alpha.png">
        </image>
    </mask>
  </defs>
  <image mask="url(#canTopMask)" id="canTop" width="560" height="1388"
        xlink:href="can-top.jpg"></image>
</svg>
```

• HTML/CSS:

```html
<img src="hero-image.svg" />, background: url("hero-image.svg")
```
September 7, 2014

USING SVG TO SHRINK YOUR PNGS

Wouldn’t it be great if you could get the compression of a JPEG and keep the transparency of a PNG? Well, you can, sort of. Here’s a little trick that I discovered while working on the new Sapporo Beer website.

Notice how the beer can on the Sapporo website has a transparent area (it’s hard to notice but there’s a video playing behind it). As a PNG, the beer can would have the transparency of an SVG, but PDFs don’t support PNGs.
JPG+PNG to SVG Mask

Combine the transparency of a PNG with the compression of a JPEG. Based on the idea from Using SVG to Shrink Your PNGs, but adapted to use data URIs instead of external images. Include on your page as inline SVG, using an `<img src="image.svg" />` tag, or as a background-image.

Tested in the latest versions of Chrome, Firefox and Safari. This SVG technique's compatibility via an `<img />` tag or as a background-image may not be perfect. See this pen to test on your browser. Inline seems to be the best option for compatibility, in which case you should use external assets so that they can be cached. Please fork or comment to improve.

To get started, upload two images:

- One as your primary image, named whatever (Try this one:)
- One as a mask (a black and white PNG is best, just like this:) with `-mask` or `-alpha` in the filename.

Upload:

Images: [Choose Files] No file chosen

Make sure the mask has `-mask` or `-alpha` in the filename.

Example:

![Image: strong 53px x 18px](image.png)  ![Mask:](mask.png)  ![Output:](output.png)
CSS:

body {
  font-family: 'Elena Regular',
  AvenirNext, Avenir, /* iOS */
  'Roboto Slab', 'Droid Serif', /* Android */
  'Segoe UI', /* Microsoft */
  Georgia, 'Times New Roman', serif; /* Fallback */
}


<table>
<thead>
<tr>
<th>Font</th>
<th>Device Targeted</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;-apple-system&quot; (San Francisco)</td>
<td>iOS Safari, macOS Safari, macOS Firefox</td>
</tr>
<tr>
<td>BlinkMacSystemFont (San Francisco)</td>
<td>macOS Chrome</td>
</tr>
<tr>
<td>Sego UI</td>
<td>Windows</td>
</tr>
<tr>
<td>Roboto</td>
<td>Android, Chrome OS</td>
</tr>
<tr>
<td>Oxygen / Oxygen-Sans</td>
<td>KDE</td>
</tr>
<tr>
<td>Fira Sans</td>
<td>Firefox OS</td>
</tr>
<tr>
<td>Droid Sans</td>
<td>Older versions of Android</td>
</tr>
<tr>
<td>Ubuntu</td>
<td>Ubuntu</td>
</tr>
<tr>
<td>Cantarell</td>
<td>GNOME</td>
</tr>
<tr>
<td>Helvetica Neue</td>
<td>macOS versions &lt; 10.11</td>
</tr>
<tr>
<td>Arial</td>
<td>Any</td>
</tr>
<tr>
<td>sans-serif</td>
<td>Any</td>
</tr>
</tbody>
</table>
• CSS:

```css
body {
  font-family: 'Elena Regular', /* Web font */
  AvenirNext, Avenir, /* iOS */
  -apple-system, BlinkMacSystemFont, /* macOS San Francisco */
  Roboto Slab, 'Droid Serif', /* Android */
  'Segoe UI', /* Microsoft */
  Oxygen-Sans, /* KDE */
  Ubuntu, /* Ubuntu */
  Cantarell, /* GNOME */
  Georgia, 'Times New Roman', serif; /* Fallback */
}
```
• CSS:

```css
.lowBattery {
  font-family: /* 'Elena Regular' */ /* Web font */
  AvenirNext, Avenir, /* iOS */
  -apple-system, BlinkMacSystemFont, /* macOS San Francisco */
  Roboto Slab', 'Droid Serif', /* Android */
  'Segoe UI', /* Microsoft */
  Oxygen-Sans, /* KDE */
  Ubuntu, /* Ubuntu */
  Cantarell, /* GNOME */
  Georgia, 'Times New Roman', serif; /* Fallback */
}
```
In this example, we watch for changes both to the charging status (whether or not we’re plugged in and charging) and for changes to the battery level and timing. This is done by listening for the chargingchange, levelchange, chargingtimechange, dischargingtimechange events.

```javascript
navigator.getBattery().then(function(battery) {
  function updateAllBatteryInfo() {
    updateChargeInfo();
    updateLevelInfo();
    updateChargingInfo();
    updateDischargingInfo();
  }
  updateAllBatteryInfo();

  battery.addEventListener('chargingchange', function(){
    updateChargeInfo();
  });

  function updateChargeInfo() {
    console.log('Battery charging? ' + (battery.charging ? 'Yes' : 'No'));
  }

  battery.addEventListener('levelchange', function() {
    updateLevelInfo();
  });

  function updateLevelInfo() {
    console.log('Battery level: ');
  }
});
```
State Of Images (2017)

- photos get bigger, screens larger (4K/5K),
- high-res images have a high payload (65.7%),
- responsive images up and running,
- wide support, inconsistent behavior,
- not all images are created equal,
- image bloat costs performance (Parallax),
- start render time difficult to measure,
- user context often impossible to predict.
The **design process** is weird and complicated because it involves people and systems, which often are weird and complicated.

— à la Mark Boulton
Patty Toland, FilamentGroup, "Design Consistency for RWD", https://t.co/Tboq4MuQ5
Responsive Icons
Fly with us

Whether it's your first flight or simply your latest, we work to anticipate your every need.

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Fly to Yangon, Myanmar and Hanoi, Vietnam

From 3 August 2016, we will begin a daily circular service from Dubai to Yangon and Hanoi
神戸マラソンについて | Q・B・Bのサポート | チーズをチカラに | ベビーチーズ何個分？ | プレゼント | Q・B・Bブログ

TOP RUNNER Q・B・B

Q・B・Bブログ | Q・B・Bのマラソン担当者が、スポーツやチーズに関する裏知識やトピックスを随時紹介します。
Clockwise Rightwards and Leftwards Open Circle Arrows With Circled One Overlay (also known as U+1F502, &#x1f502; or \u1f502).
Person Raising Both Hands in Celebration (also known as Festivus Miracle Emoji, U+1F64C, &#1f64c; or \u1f64c).
Reimagining single-page applications with *progressive enhancement*

What's the difference between a *web page* and a *web application*? Though we tend to identify documents with reading and applications with interaction, most *web-based applications* are of the blended variety.

Users can consume information and perform tasks in the same place. Regardless, the way we approach building web applications usually dispenses with some of the simple virtues of the readable web. Single-page applications tend to take the form of runtimes. JavaScript executables deployed like popup shops into vacant
Is the internet killing creativity?

The internet is a wonderful place (mostly). An unprecedented revolution in communication, it continues to empower more people to publish and share their knowledge than any other phenomenon in history. It is a limitless playground of ideas and unbridled creativity. Or is it?

Posted in Coding, CSS, Design, HTML

Free Photoshop tools for web designers

High-impact, minimal-effort, cross-browser testing
Is the internet killing creativity?

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Posted in Coding

CSS, Design, HTML.
My name is

Glen Maddern

and I do rad web stuff

ARTICLES

CSS Modules
Welcome to the Future - 2015-08-19

Interoperable CSS
A CSS standard for the Loader Age - 2015-06-21

JavaScript in 2015
These are all the same emoji!

This is what the “grinning face with smiling eyes” emoji looks like on devices for each of these platforms:

Apple  Google  Microsoft  Samsung  LG  HTC  Twitter  Facebook  Mozilla  Emoji One
People's Emotion/Sentiment Rankings for 😁

Number of People that Gave Each Ranking

<table>
<thead>
<tr>
<th>Negative</th>
<th>Neutral</th>
<th>Positive</th>
</tr>
</thead>
<tbody>
<tr>
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<td>4</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>0</td>
</tr>
</tbody>
</table>

Legend:
- Negative
- Neutral
- Positive
“Blissfully happy” or “ready to fight”: Varying Interpretations of Emoji

Hannah Miller, Jacob Thebault-Spieker, Shuo Chang, Isaac Johnson, Loren Terveen, Brent Hecht
GroupLens Research, University of Minnesota
Minneapolis, MN 55455, USA
{hmiller, thebault, schang, ijohnson, terveen, bhecht}@cs.umn.edu

Abstract
Emoji are commonly used in modern text communication. However, as graphics with nuanced details, emoji may be open to interpretation. Emoji also render differently on different viewing platforms (e.g., Apple’s iPhone vs. Google’s Nexus phone), potentially leading to communication errors. We explore whether emoji renderings or differences across platforms give rise to diverse interpretations of emoji. Through an online survey, we solicit people’s interpretations of a sample of the most popular emoji characters, each rendered for multiple platforms. Both in terms of sentiment and semantics, we analyze the variance in interpretation of the emoji, quantifying which emoji are most (and least) likely to be misinterpreted. In cases in which participants rated

Most commonly-used emoji are encoded in the Unicode standard for indexing characters. There are currently 1,282 emoji in the Unicode standard, and for each of these, the Unicode Consortium provides a code and name (e.g., U+1F600 for “grinning face”) but not the actual graphic. This is the same as is the case for Unicode text characters: for example, the Unicode character U+0041 indexes the Latin capital letter ‘A’, but it does not indicate specifically how the ‘A’ should look. Instead, a font renders the Unicode characters a particular way: the appearance of this text that you are reading is dictated by the Times New Roman font.
```
<div class="emoji-toggle emoji-happy">
  <input type="checkbox" id="toggle1" class="toggle">
  <div class="emoji">
```
```css
// Base class
.emoji-toggle {
  position: relative;
  width: 60px;
  margin: 40px auto;
}
.well {
```
```html
  Happy 😊  Mad
  Plane ✈️  Train
  Burger 🍔  Pizza
  Thumbs Up 👍  Thumbs Down
  Loves Me 💘  Loves Me Not
```
Responsive Iconography

- simplify icons for smaller screens
- save vertical space by inlining navigation
- choose larger icons for critical actions
- accordion icons should be large
- emoji can seece up an interface.
Find the product you want

Select one
Select two
Select three
Select four

Product title
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam et velit sit amet. Donec posuere.

Product title
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam et velit sit amet. Donec posuere.

Product title
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Find the product you want

- Select one
- Select two
- Select three

- Checkbox one
- Checkbox two
- Checkbox three
- Checkbox four
Інтернет магазин

Стартові пакети
Смартфони
Мобільні телефони
Планшети
Ноутбуки
Телевізори
Модеми і роутери
Аксесуари

Укр
Рус

16
Акції
Оплата
Доставка
**Book Flights**

- **From:**
- **To:**
- **Date of departure:**
- **Date of return:**
- **Quantity of passengers:**
  - Adults
  - Youth 12-24 year
  - Children 2-11 year
  - Infants up to 2 years
  - Number of adults:
  - Number of youth:
  - Number of children:
  - Number of infants:

- **Redeem points**

- **Order**

Please be prepared to provide documents proving card holder’s payment authorization at the request of Belavia Representative. Should you refuse or in the case of impossibility to provide the documents requested the airline reserves the right to cancel e-ticket.

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  - return from 99 EUR
- **Kiev** from Minsk:
  - return from 139 EUR

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- About the airline
- Services
- News
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**News**

“Belavia” increases the frequency of flights between Minsk and Moscow.

On January 20, 2015 “Belavia” will start the sixth daily frequency of flights to Moscow (Domodedovo Airport). Flights will be carried out in the daytime mainly on the new Embraer-190LR aircraft in two-class arrangement.
NO!!!
seriously, you really shouldn't
Carousel Interaction Stats - June 2013 Update
Jul 8th, 2013 | Comments

Carousels continue to be a hot topic. The numbers I posted back in January resulted in quite a bit of discussion. Out of curiosity, I decided to revisit the data now that I have more data to pull from. The following numbers are from January 1 through June 30, 2013. We’ll be looking at the same five sites which include ND.edu and four un-named Notre Dame sites.

ND.edu
Feature are not randomized. New items go into position one and typically fall off the end. However, sometimes newer items are pulled out of rotation before older, and other times older items are returned to position one.

- Homepage visits: 3,755,297
- Percentage that clicked a feature: 1.07%

Percentage of total clicks for each position:
- Position 1: 89.1%
- Position 2: 3.1%
- Position 3: 2.4%
Featured Holiday Deals in Home

- $9.19 (23% off) Whitmor 6044-13-CTF White Crystal Collection Over-The-Door Hanger
- $7.99 (20% off) Whitmor 6026-341 Natural Wood Collection Skirt Hanger
- $15.88 (68% off) Divatex Home Fashions Royal Opulence Satin Full Sheet Set
- $14.99 (50% off) Maytex Blake Chenille Fabric Shower Curtain, Blake
- $39.39 (27% off) Lasko 751320 Ceramic Tower Heater with Remote Control
Summary

- never hide important actions
- define priorities for navigation items
- thumbs drive interactions
- consider curtain navigation for complex UIs
- use tabs at the bottom as filters
- combine filters and navigation in one
- adjust the view and fidelity if necessary
- consider tagging/filters instead of sections
- accordions always work well
BOTH EQUALLY SUCK
<table>
<thead>
<tr>
<th>Company</th>
<th>Last Trade</th>
<th>Trade Time</th>
<th>Change</th>
<th>Prev Close</th>
<th>Open</th>
<th>Bid</th>
<th>Ask</th>
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</tr>
</thead>
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<td>GOOG Google Inc.</td>
<td>597.74</td>
<td>12:12PM</td>
<td>14.81 (2.54%)</td>
<td>582.93</td>
<td>597.95</td>
<td>597.73 x 100</td>
<td>597.91 x 100</td>
<td>731.10</td>
<td>Spanning cell</td>
<td></td>
</tr>
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<td>381.02</td>
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<td>191.58 x 100</td>
<td>240.32</td>
<td>Spanning cell</td>
<td></td>
</tr>
<tr>
<td>ORCL Oracle Corporation</td>
<td>31.15</td>
<td>12:44PM</td>
<td>1.41 (4.72%)</td>
<td>29.74</td>
<td>30.67</td>
<td>31.14 x 6500</td>
<td>31.15 x 3200</td>
<td>36.11</td>
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<td></td>
</tr>
<tr>
<td>MSFT Microsoft Corporation</td>
<td>25.50</td>
<td>12:27PM</td>
<td>0.66 (2.67%)</td>
<td>24.84</td>
<td>25.37</td>
<td>25.50 x 71100</td>
<td>25.51 x 17800</td>
<td>31.50</td>
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## Demo

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<td>YHOO Yahoo! Inc.</td>
<td>15.81</td>
<td>12:25PM</td>
<td>0.11 (0.67%)</td>
<td>15.70</td>
<td>15.94</td>
<td>15.79 x 6100</td>
</tr>
<tr>
<td>GOOG Google Inc.</td>
<td>597.74</td>
<td>12:12PM</td>
<td>14.81 (2.54%)</td>
<td>582.93</td>
<td>597.95</td>
<td>597.73 x 100</td>
</tr>
</tbody>
</table>
Responsive Table Layouts

Grid Layout using Element Queries

These table styles are a cleaned up version of some table styles from a fantasy sports web app. The original table styles were written using regular CSS `@media` queries, but as soon as the tables needed to be added to a layout with a sidebar or other content we had to re-do the breakpoints all the time and we ended up with a lot of duplicate code.

These tables use `@element` queries instead, via EQCSS.js, so the responsive breakpoints are based on the width of the `<table>` elements themselves rather than the width of the browser. This way this one set of responsive styles should be able to style a `<table>` placed into any layout.

```
<table data-table=col-six>
  <tr>
    <th>Name</th> <th>X Axis</th> <th>Y Axis</th> <th>Z Axis</th> <th>Speed</th> <th>Time</th> <th>Finish</th>
  </tr>
  <tr>
    <td>Test Flight 3</td> 
    <td>77°</td> 
    <td>78°</td> 
    <td>90°</td> 
    <td>55m/s</td> 
    <td>1:20</td> 
    <td>458</td> 
  </tr>
</table>

<table data-table=col-five>
  <tr>
    <th>Name</th> <th>X Axis</th> <th>Y Axis</th> <th>Z Axis</th> <th>Speed</th> <th>Time</th>
  </tr>
  <tr>
    <td>Test Flight 2</td> 
    <td>80°</td> 
    <td>94°</td> 
    <td>30°</td> 
    <td>200m/s</td> 
    <td>0:45s</td> 
  </tr>
</table>
```
<table>
<thead>
<tr>
<th>Name</th>
<th>X Axis</th>
<th>Y Axis</th>
<th>Z Axis</th>
<th>Speed</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Flight 1</td>
<td>120°</td>
<td>40°</td>
<td>157°</td>
<td>1503m</td>
<td></td>
</tr>
<tr>
<td>Test Flight 3</td>
<td>77°</td>
<td>78°</td>
<td>90°</td>
<td>55m</td>
<td>1:20</td>
</tr>
<tr>
<td>Test Flight 2</td>
<td>80°</td>
<td>94°</td>
<td></td>
<td></td>
<td>0:45</td>
</tr>
<tr>
<td>Test Flight 1</td>
<td>120°</td>
<td>40°</td>
<td>157°</td>
<td>1503m</td>
<td></td>
</tr>
<tr>
<td>Test Flight 3</td>
<td>77°</td>
<td>78°</td>
<td>90°</td>
<td>55m</td>
<td>1:20</td>
</tr>
<tr>
<td>Test Flight 2</td>
<td>80°</td>
<td>94°</td>
<td>30°</td>
<td>200m</td>
<td>0:45</td>
</tr>
<tr>
<td>Test Flight 1</td>
<td>120°</td>
<td>40°</td>
<td>157°</td>
<td>1503m</td>
<td>1:05</td>
</tr>
</tbody>
</table>
### 2009 Employee Sales by Department

<table>
<thead>
<tr>
<th></th>
<th>food</th>
<th>auto</th>
<th>household</th>
<th>furniture</th>
<th>kitchen</th>
<th>bath</th>
<th>flooring</th>
<th>plumbing</th>
<th>electrical</th>
<th>hardware</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mary</td>
<td>190</td>
<td>160</td>
<td>40</td>
<td>120</td>
<td>39</td>
<td>70</td>
<td>40</td>
<td>120</td>
<td>30</td>
<td>70</td>
</tr>
<tr>
<td>Tom</td>
<td>3</td>
<td>40</td>
<td>30</td>
<td>45</td>
<td>35</td>
<td>49</td>
<td>30</td>
<td>45</td>
<td>35</td>
<td>49</td>
</tr>
<tr>
<td>Brad</td>
<td>10</td>
<td>180</td>
<td>10</td>
<td>85</td>
<td>25</td>
<td>79</td>
<td>10</td>
<td>85</td>
<td>25</td>
<td>79</td>
</tr>
<tr>
<td>Kate</td>
<td>40</td>
<td>80</td>
<td>90</td>
<td>25</td>
<td>15</td>
<td>119</td>
<td>40</td>
<td>80</td>
<td>90</td>
<td>25</td>
</tr>
<tr>
<td>Donald</td>
<td>45</td>
<td>35</td>
<td>49</td>
<td>30</td>
<td>3</td>
<td>40</td>
<td>30</td>
<td>46</td>
<td>35</td>
<td>49</td>
</tr>
<tr>
<td>Mark</td>
<td>49</td>
<td>30</td>
<td>3</td>
<td>40</td>
<td>39</td>
<td>45</td>
<td>35</td>
<td>49</td>
<td>45</td>
<td>35</td>
</tr>
<tr>
<td>Samantha</td>
<td>30</td>
<td>45</td>
<td>35</td>
<td>49</td>
<td>49</td>
<td>30</td>
<td>3</td>
<td>40</td>
<td>45</td>
<td>35</td>
</tr>
<tr>
<td>Harold</td>
<td>30</td>
<td>30</td>
<td>3</td>
<td>40</td>
<td>45</td>
<td>35</td>
<td>45</td>
<td>36</td>
<td>49</td>
<td>49</td>
</tr>
</tbody>
</table>
```html
<table class="table table-header-rotated">
  <thead>
    <tr>
      <th class="rotate">Column header 1</th>
      <th class="rotate">Column header 2</th>
      <th class="rotate">Column header 3</th>
      <th>Column header 4</th>
      <th>Column header 5</th>
      <th>Column header 6</th>
    </tr>
  </thead>
  <tbody>
    <tr>
      <td>Row header 1</td>
      <td></td>
      <td></td>
      <td></td>
      <td></td>
      <td></td>
    </tr>
    <tr>
      <td>Row header 2</td>
      <td></td>
      <td></td>
      <td></td>
      <td></td>
      <td></td>
    </tr>
    <tr>
      <td>Row header 3</td>
      <td></td>
      <td></td>
      <td></td>
      <td></td>
      <td></td>
    </tr>
  </tbody>
</table>
```
From the calendar on the left, select the date on which you wish to start your trip. On the right, click on the date on which you would like to return.

**Flights**

- **Outbound flight**

  August 2014

- **Return flight**

  August 2014
Distagon T* FE 35mm F1.4 ZA  
SEL35F14Z  
⭐⭐⭐⭐⭐ (5)  
RRP £1,509.00
ingl. VAT)

Sonnar T* E 24mm F1.8 ZA  
SEL24F18Z  
⭐⭐⭐⭐⭐ (2)  
RRP £839.00
ingl. VAT)

Sonnar T* FE 35mm F2.8 ZA  
SEL35F28Z  
⭐⭐⭐⭐⭐ (14)  
RRP £699.00
ingl. VAT)

Distagon T* 24mm F2 ZA SSM  
SAL24F20Z  
⭐⭐⭐⭐⭐ (1)  
RRP £1,889.00
ingl. VAT)
APPLIED FILTERS

Max price: £6808  ○  35mm Full Frame  ○  Travel and Landscapes  ○  ZEISS Lenses  ○  Prime Lenses

Reset

Compare Lenses

Distagon T* FE 35mm F1.4 ZA
SEL35F14Z

Sonnar T* FE 35mm F2.8 ZA
SEL35F28Z

Distagon T* 24mm F2 ZA SSM
SAL24F20Z

RRP £1,889.00 (incl. VAT)
RRP £699.00
RRP £1,509.00 (incl. VAT)
Responsive Tables

- prioritize important columns
- use steppers for navigation
- visualize content
- reposition headings
- adjust the level of fidelity
- extract content and “redesign” it.
Cheapest flights from Barcelona

<table>
<thead>
<tr>
<th>Destination</th>
<th>Price</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mallorca</td>
<td>€ 12.98</td>
<td>One way</td>
</tr>
<tr>
<td>Menorca</td>
<td>€ 12.98</td>
<td>One way</td>
</tr>
<tr>
<td>Santander</td>
<td>€ 12.98</td>
<td>One way</td>
</tr>
<tr>
<td>Valladolid</td>
<td>€ 12.98</td>
<td>One way</td>
</tr>
<tr>
<td>Vigo</td>
<td>€ 12.98</td>
<td>One way</td>
</tr>
</tbody>
</table>
Live election results: track the votes in Michigan, Mississippi, Idaho and Hawaii

Data via Associated Press. Last checked 7:51

Explore more coverage of the 2016 presidential election

<table>
<thead>
<tr>
<th>HI</th>
<th>ID</th>
<th>MI</th>
<th>MS</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>Sanders</td>
<td>Clinton</td>
</tr>
<tr>
<td>Trump</td>
<td>Cruz</td>
<td>Trump</td>
<td>Trump</td>
</tr>
</tbody>
</table>

**Hawaii**

<table>
<thead>
<tr>
<th>REPUBLICANS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Statewide results</strong> 45/45 precincts (100%) reporting</td>
</tr>
<tr>
<td>Donald Trump</td>
</tr>
<tr>
<td>Ted Cruz</td>
</tr>
<tr>
<td>Marco Rubio</td>
</tr>
</tbody>
</table>
pledged delegates: 772  superdelegates: 472

state-by-state breakdown

<table>
<thead>
<tr>
<th>State</th>
<th>Delegates</th>
</tr>
</thead>
<tbody>
<tr>
<td>WA</td>
<td>10</td>
</tr>
<tr>
<td>ID</td>
<td>1</td>
</tr>
<tr>
<td>MT</td>
<td>1</td>
</tr>
<tr>
<td>ND</td>
<td>1</td>
</tr>
<tr>
<td>MN</td>
<td>43</td>
</tr>
<tr>
<td>IL</td>
<td>21</td>
</tr>
<tr>
<td>WI</td>
<td>5</td>
</tr>
<tr>
<td>MI</td>
<td>72</td>
</tr>
<tr>
<td>NY</td>
<td>40</td>
</tr>
<tr>
<td>MA</td>
<td>62</td>
</tr>
<tr>
<td>VT</td>
<td>4</td>
</tr>
<tr>
<td>NH</td>
<td>15</td>
</tr>
<tr>
<td>OR</td>
<td>5</td>
</tr>
<tr>
<td>NV</td>
<td>24</td>
</tr>
<tr>
<td>WY</td>
<td>4</td>
</tr>
<tr>
<td>SD</td>
<td>1</td>
</tr>
<tr>
<td>IA</td>
<td>30</td>
</tr>
<tr>
<td>IN</td>
<td>7</td>
</tr>
<tr>
<td>OH</td>
<td>12</td>
</tr>
<tr>
<td>PA</td>
<td>18</td>
</tr>
<tr>
<td>NJ</td>
<td>9</td>
</tr>
<tr>
<td>CT</td>
<td>14</td>
</tr>
<tr>
<td>CA</td>
<td>53</td>
</tr>
<tr>
<td>UT</td>
<td>2</td>
</tr>
<tr>
<td>CO</td>
<td>36</td>
</tr>
<tr>
<td>NE</td>
<td>13</td>
</tr>
<tr>
<td>MO</td>
<td>12</td>
</tr>
<tr>
<td>KY</td>
<td>3</td>
</tr>
<tr>
<td>WV</td>
<td>74</td>
</tr>
<tr>
<td>VA</td>
<td>74</td>
</tr>
<tr>
<td>MD</td>
<td>15</td>
</tr>
<tr>
<td>DE</td>
<td>4</td>
</tr>
<tr>
<td>AZ</td>
<td>5</td>
</tr>
<tr>
<td>NM</td>
<td>6</td>
</tr>
<tr>
<td>KS</td>
<td>10</td>
</tr>
<tr>
<td>AR</td>
<td>27</td>
</tr>
<tr>
<td>TN</td>
<td>49</td>
</tr>
<tr>
<td>NC</td>
<td>7</td>
</tr>
<tr>
<td>SC</td>
<td>44</td>
</tr>
<tr>
<td>DC</td>
<td>19</td>
</tr>
<tr>
<td>OK</td>
<td>18</td>
</tr>
<tr>
<td>LA</td>
<td>45</td>
</tr>
<tr>
<td>MS</td>
<td>32</td>
</tr>
<tr>
<td>AL</td>
<td>49</td>
</tr>
<tr>
<td>GA</td>
<td>84</td>
</tr>
<tr>
<td>HI</td>
<td>5</td>
</tr>
<tr>
<td>AK</td>
<td>-</td>
</tr>
<tr>
<td>TX</td>
<td>169</td>
</tr>
<tr>
<td>FL</td>
<td>21</td>
</tr>
</tbody>
</table>
Wer zieht ins Weiße Haus ein?

Zahl der Wahlmänner, die Clinton und Trump laut aktuellen Umfragen in den einzelnen Bundesstaaten für sich gewinnen können.


In Kombination mit den jüngsten Umfragen auf Bundesebene verdichtet sich der Eindruck, dass Clinton sich durch ihren Auftritt während der Debatte am Montag von Trump absetzen konnte. Demnach hat sie derzeit bundesweit wieder einen Vorsprung von drei bis fünf Prozentpunkten – und das obwohl der republikanische Präsidentschaftskandidat noch am Tag der Debatte mit Clinton
### Republican Primary
Trump won Alabama, according to A.P.

<table>
<thead>
<tr>
<th>CANDIDATES</th>
<th>VOTE</th>
<th>PCT.</th>
<th>DELEGATES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Donald J. Trump</td>
<td>371,735</td>
<td>43.4%</td>
<td>36</td>
</tr>
<tr>
<td>Ted Cruz</td>
<td>180,608</td>
<td>21.1</td>
<td>13</td>
</tr>
<tr>
<td>Marco Rubio</td>
<td>199,802</td>
<td>18.7</td>
<td>1</td>
</tr>
<tr>
<td>Ben Carson</td>
<td>87,517</td>
<td>10.2</td>
<td>—</td>
</tr>
<tr>
<td>John Kasich</td>
<td>37,970</td>
<td>4.4</td>
<td>—</td>
</tr>
<tr>
<td>Other</td>
<td>18,834</td>
<td>2.2</td>
<td>—</td>
</tr>
</tbody>
</table>

856,166 votes, 100% reporting (2,314 of 2,314 precincts)

### Democratic Primary
Clinton won Alabama, according to A.P.

<table>
<thead>
<tr>
<th>CANDIDATES</th>
<th>VOTE</th>
<th>PCT.</th>
<th>DELEGATES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hillary Clinton</td>
<td>309,928</td>
<td>77.8%</td>
<td>44</td>
</tr>
<tr>
<td>Bernie Sanders</td>
<td>76,399</td>
<td>19.2</td>
<td>9</td>
</tr>
<tr>
<td>Other</td>
<td>11,837</td>
<td>3.0</td>
<td>—</td>
</tr>
</tbody>
</table>

398,184 votes, 100% reporting (2,314 of 2,314 precincts)
Winner called by A.P.

---

**Maps:**
- **Alabama Primary Results**
- **Democratic Primary Results**

Waiting for ap.lijt.com...
Meeting with President of Argentina Cristina Fernandez de Kirchner

15 hours ago
Adaptive Map

A map experience that defaults to a text link to Google Maps, loads in a static map image for small screens and an iframe map for larger screens.

Read more about Adaptive Maps

← More Responsive Patterns
DATA NEVER SLEEPS
The Makers, Movers and Screwups of the Internet

THE MOBILE WEB RECEIVES
YOUTUBE USERS UPLOAD
EMAIL USERS SEND
GOOGLE RECEIVES
OVER
217
347
2.083
571
180
NEW BLOGS
NEW LANGUAGES
NEW USERS
NEW PHOTOS
NEW VERSIONS
NEW POSTS

EVERY MINUTE
OF THE DAY

APPLE RECEIVES ABOUT
3,125
100,000
NEW USERS
NEW PHOTOS
NEW BLOGS
NEW TWITTER USERS
NEW INSTAGRAM USERS
NEW SHARED CONTENT
NEW APPS
NEW VERSIONS

BY TWITTER
BY INSTAGRAM
BY FACEBOOK

NEW BLOGS
NEW LANGUAGES
NEW USERS
NEW PHOTOS
NEW VERSIONS
NEW POSTS

2.1 BILLION PEOPLE

NEW PHOTOS
NEW VERSIONS
NEW POSTS
ВВОД ДАННЫХ БАНКОВСКОЙ КАРТЫ

Номер карты / Card Number

0000 1231 2313 3313

Срок действия (ММ / ГГ) / Valid Thru (MM / YY)

MM / YY

Имя держателя карты / Card Holder Name

VITALY FRIEDMAN

CVC2 / CVV

Мы никогда не запрашиваем PIN-код банковской карты!
Стоит ли пользоваться обучающими сервисами для инвесторов

Чего ждать от рубля после заседания ОПЕК

Удастся ли странам ОПЕК ослабить доллар

Плюсы и минусы хранения денег и ценностей в банковской ячейке

Валютный калькулятор

5000

Конвертировать
Matchweek 13
Premier League
All times shown are your local time

Saturday 26 November

BUR 1 – 2 MCI →
HUL 1 – 1 WBA →
LEI 2 – 2 MID →
LIV 2 – 0 SUN →
SWA 5 – 4 CRY →
CHE 2 – 1 TOT →

Sunday 27 November

WAT 0 – 1 STK →
ARS 3 – 1 BOU →
MUN 1 – 1 WHU →

News

Sims delight at 'perfect' Saints debut
19-year-old midfielder grasps opportunity to shine with assist on first Premier League appearance for Southampton

Puel lauds impressive Sims debut
Puel: Important three points
Saints support Rainbow Laces campaign
Hull City 0-2 Chelsea

HT: Half Time: 0-0

Kick Off: 16:00

Willian 61'
Diego Costa 67'
Diego Costa 61'

Assists:

Hull City:

CHE:

Events:

35 41 42 HT 63 65 67 72 79 85 88 89 FT
THE CASPER MATTRESS

Springy latex and high-density memory foams come together to create one perfect sleep surface.

★★★★ 1/5 4.4/5 (6217) | Ready to Ship

Dimensions: 76” X 80” X 10”

<table>
<thead>
<tr>
<th>TWIN</th>
<th>TWIN XL</th>
<th>FULL</th>
</tr>
</thead>
<tbody>
<tr>
<td>QUEEN</td>
<td>KING</td>
<td>CAL KING</td>
</tr>
</tbody>
</table>

$950

ADD TO CART

FREE SHIPPING AND RETURNS ON ALL ORDERS
Rollpark

Revolutionary temporary & semi-permanent parking solution

Explore
Junko’s Story
SURVIVING HIROSHIMA’S ATOMIC BOMB

I am Junko Morimoto.
I now live in Sydney, but I was born and brought up in Hiroshima. When the bomb exploded on the morning of August 6 1945, I was a 13-year-old schoolgirl. I lived 1.7 kilometres away from where the bomb fell.
21 traffic information

27.11.16 05:00 - 26.03.17
Linie 854: Haltestelle Steg im Tösstal Bahnhof nicht bedient
Responsive Maps and Charts

- divide content into visual/textual views
- turn a `<select>` drop-down into a map
- prompt a list view for small tap areas
- integrate autosuggest with the map
- make maps tap-friendly despite geography
- load maps/lightboxes conditionally
- reposition labels and exploration points.
Look Ma! I broke that HTML!

SHOW MODAL
BMW'NİZİ SEÇİN

1. BMW 1 Serisi 5-Kapı

2. BMW 2 Serisi Coupé, BMW 2 Serisi Active Tourer, BMW 2 Serisi Gran Tourer

3. BMW 3 Serisi Sedan, BMW 3 Serisi Gran Turismo

4. [Sekil]
For Milk Street’s Thanksgiving, we took the down-home elements of a midcentury feast and gave them a bit of 21st-century sophistication.

Brown ale-basted turkey, sweet potato gratin with vanilla bean and bay leaves, easy-bake herbed stuffing, charred Brussels sprouts and an intensely flavorful pumpkin tart make for an elegant, low-stress Thanksgiving dinner.

Try out our foolproof pie dough →

SEE THE RECIPES
Shop the Perfect Shelf Online

Tylko Shelf

344 €
Includes VAT

1 star

Silent Pattern Gradient Grid

Motion 100%

Width 151 cm

Height 71 cm

Depth 32 cm

Material
White Plywood

Tylko’s Coming To Your Town

Tylko is currently only available in Europe. If you leave your email with us, we’ll hold a dedicated shipping spot for you when we launch in your country!
StubHub app uses VR to show how good (or bad) your seats are

Maybe you should upgrade to Club Level after all.

Nicole Lee, @nicole
03.31.16 in Personal Computing
Builders and Steppers

- break down the task in small steps
- each step is a full-screen experience
- each step is an accordion (open/collapsed)
- let users define settings to filter output
- optimize for quick input (autocomplete)
- steppers are often better than input
- accordions always work well.
Meeting with President of Argentina Cristina Fernandez de Kirchner

15 hours ago
Concert to celebrate 70th Victory anniversary

Vladimir Putin attended a concert The Roads of Great Victory on Red Square that concluded the gala events to celebrate the 70th anniversary of Victory in the Great Patriotic War of 1941–1945.

May 9, 2015  22:10
Red Square, Moscow
"We pay tribute to all those who fought to the bitter for every street, every house and every frontier of our Motherland."

Transcripts, May 9, 2015

Parade to mark the 70th anniversary of the Great Victory
3 days ago

Concert to celebrate 70th Victory anniversary

Vladimir Putin attended a concert The Roads of Great Victory on Red Square that concluded the gala events to celebrate the 70th anniversary of victory in the Great Patriotic War of 1941–1945.

May 9, 2015 22:10 Red Square, Moscow
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Great Espresso Machine
Maria from Boca Raton, FL on 09/13/2014 – Verified Buyer

It is one of the best espresso machine that I ever had. It take me a while before I set up the grinder but after... what a cream! Very helpful customer support of Breville. You can make nice cappuccino like a bar. It is worth the price!

5.0 Stars
The best coffee ever!!
Susan from Laurinburg, NC on 08/04/2015 – Verified Buyer

It took several times to practice but finally figured out how to make the best latte ever! I would highly recommend this coffee maker if you love specialty coffee and are tired of the pod coffee. The machine is somewhat loud but no cares if the coffee is awesome. The initial cost seems a lot but when you add up the costs of pods and creamer, you will end up spending more.

5.0 Stars
Loving this machine
Ren Afrom Fernie, BC on 12/16/2014 – Verified Buyer

What a well thought out machine! It was a little bigger than we expected but we are loving it. Everything has a place and it works great. Easy to use. Love the red!!!

5.0 Stars
Siter
Johnathan from Fort Lauderdale, FL on 10/15/2014 – Verified Buyer

The BEST! What a great espresso maker. I would rate it a 10 if possible.

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- $-
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Bloomberg Businessweek Design 2016

April 11, 2016
Yerba Buena Center
San Francisco

#BWDESIGN2016

Featuring:
and more!
Proofreaders' Marks

**Operational Signs**
- 🅿️ Delete
- 🏴 Close up; delete space
- 🍏 Delete and close up (use only when deleting letters within a word)
- 🎧 Let it stand
- 🌟 Insert space
- 🎢 Make space between words equal; make space between lines equal
- 🎉 Insert hair space
- 🎓 Letterspace
- 🎯 Begin new paragraph
- 🎯 Indent type one em from left or right
- 🔽 Move right
- 🔽 Move left
- 🌰 Center
- 🎯 Move up
- 🎯 Move down
- 🎯 Flush left
- 🎯 Flush right
- 🌟 Straighten type; align horizontally

**Typographical Signs**
- 📑 Set in italic type
- 🎯 Set in roman type
- 🎯 Set in boldface type
- 🎯 Set in lowercase
- 🎯 Set in capital letters
- 🎯 Set in small capitals
- 🎯 Wrong font; set in correct type
- 🎯 Check type image; remove blemish
- 🎯 Insert here or make superscript
- 🎯 Insert here or make subscript

**Punctuation Marks**
- 🎯 Insert comma
- 🎯 Insert apostrophe or single quotation mark
- 🎯 Insert quotation marks
- 🎯 Insert period
- 🎯 Insert question mark
- 🎯 Insert colon
- 🎯 Insert semicolon
Collaboration is a hot topic, especially in the market of workplace or productivity applications, but as a buzzword it is far too easily bandied about. Recent improvements in technology have made it easy to bolt networking on to any app, but, as with most software, solving the technical problem is only part of the solution. What's required to fully realise what's now possible is a thorough understanding of the user needs, how they relate to collaboration, and be led by designing for them.

I'm going to tell you why most collaboration solutions are unfit for purpose and how, at Poetica, we've approached solving the user experience part of the equation.

What is collaboration?

Collaboration is simply people working together. It also comes with the added benefit of producing better outcomes than if someone works alone. Sounds simple; but anyone who's worked in a team will know that collaboration isn't straightforward.

It's still early days for networked apps
A Robotic Home That Knows When You’re Hungover

A company is developing apartment buildings with sensors, automated appliances, and the ability to learn an owner's habits.

by Will Knight

01 The Effects of Fukushima Linger after Five Years, but Not from Radiation

While hundreds died in the evacuation, none perished as a result of exposure to radiation.

by Richard Martin

02 The Danger of the Universal Basic Income

Giving everyone a “basic income” is the latest trendy idea sweeping Silicon Valley. It's a terrible solution to a real problem.
TRUMP CONCERNED HIS RALLIES ARE NOT VIOLENT ENOUGH

Robert Mackey
EXPLORE THE WORLD'S WIDEST COLLECTION OF SINGLE CASK WHISKIES
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Redesigning the Country Selector

Turning standard drop-downs into advanced auto-complete fields

During our recent checkout study we found several usability issues when using a drop-down for your country selector: a lack of overview, unclear sorting, scrolling issues, inconsistent UIs, a lack of context on mobile devices, and finally, they break the user’s tab-flow.

So we took it upon ourselves to redesign the country selector.

Using principles of progressive enhancement we turn a standard drop-down into an advanced auto-complete field. This means the drop-down remains accessible, while providing a much better experience in modern browsers – handling typos, multiple spelling sequences, synonyms and prioritization.

You can read the more about the design process and usability aspects in our article on Smashing Magazine: Redesigning the Country Selector.

To be notified about future improvements, follow the project on GitHub.
Simpler tariffs, easier choices

All energy tariffs have changed to a simpler structure and each customer will only have to choose from four per supplier. This will make it easier to compare tariffs and chose the one that is best for you.

Interactive energy bill

Our interactive energy bill helps to explain each part of an energy bill, including the new tariff information you will be seeing on bills in the coming months. Follow the orange light bulbs to see descriptions of each area. You can also download a copy of the bill, which includes explanations of each area (PDF 2MB).
Rich Cahill

Interaction Designer

Final year
Sex & the Sea

– 13. August 2017
114 000 м²
ТРЦ на Хорошевском шоссе, Москва
Открытие в 2016 году
12,7 млн посетителей в год, 260 магазинов

137 000 м²
ТРЦ «Океания», Москва
Открытие в 2016 году
18,5 млн посетителей в год, 300 магазинов

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THE F2 FREESTYLERS TAKE ON THE MUSEUM
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25 DAYS OF EXCHANGE

THE TRADE, DESIGN, AND COMMERCE OF HOLIDAY GIFT-GIVING

(Illustrations by Jordan Coelho)
**00 Introduction**

**WORK & CO**

WORK & CO CREATES DIGITAL PRODUCTS AND SERVICES THAT DEFINE GREAT BRANDS.

**Premier Research** — Work & Co set out to do something different with their new company by having senior focused teams — each project team includes at least one company partner who is actively engaged doing the work.

Download full report

**01 Expertise**

**All Of Our Secrets**

We only make digital products & services.
Product Strategy, User Research, Design, Technology, Analytics & Optimization: everything you need to make a successful digital product or service, and nothing more.

Prototypes, not presentations.
In our experience, the biggest ideas usually come from hard work during iterative design and development. Fermeter Research called our way of working “a model to follow.”

One team: Client + Work & Co.
We ask our clients to participate directly with us in an intensely collaborative process based on specific measures of success: rapid prototyping, and continuous testing and improvement. The result is...

01 Expertise and Practice Areas

02 Client List

03 Virgin America Case Study

04 Company Leadership

05 Facts About Our Company

06 News: Entrepreneur Working 24/7
When Gmail debuted that year, privacy advocates were immediately up in arms. We wrote to investigate your office in Washington, D.C., because Google's "Gmail" service was considered a major threat to privacy. We learned that Gmail would allow the U.S. government to access your email without a warrant, effectively being forced into the keyword-scanning system.

Google made money by scanning the contents of your email for keywords that it used to serve targeted ads.

Claiming that Gmail's system ran afoul of the state's Wiretap Act, Figueras put forward a bill requiring Google to obtain an explicit consent before any scanning could happen.

Google and its co-founders Sergey Brin and Larry Page scoffed at Figueras's fears and were skeptical that the company was retaining data on users.

Brin: "What happens if [censored] comes into your home?"

"I know that his definition of privacy and my definition of privacy were VERY different, but then exploded—and all that went away."

"And AL GORE played the negotiator—saying that the bill would go away."

"If [censored] is here, it can all go away."

"Google was a senator to Google. He was a Fellow Dew. Fellow VP..."

"Can you imagine going in? Here I am, and these two rock stars will start—put AL!"

"We were trying to alert people where technology was heading and let them participate in the conversation."

"And at least give their thumbs up or thumbs down, not just (have it) forced on us and say, 'This is the way it's going to be.'"
THE BOAT

BASED ON THE STORY BY NAM LE
ADAPTATION BY MATT HUYNH
PRODUCED BY SBS
PETS RECORDINGS:
MORE THAN JUST ANOTHER DANCE LABEL

In 2019, Polish producer duo Gozi 'N' Dozi decided to start an imprint to promote their new sound. The label was Peta Recordings. The output was immediately refreshing, charming and arresting, and the mission from the start was to push music they loved, regardless of whether it would sell or not. They didn't want to be just another dance label. And they're certainly not.
Structure

Norwegian contemporary crafts and design

12–17 April 2016
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SEE OUR WORK
THE INSIDE STORY OF WHEN RUN-DMC MET AEROSMITH AND CHANGED MUSIC FOREVER
An example from Struik's *Lectures on Classical Differential Geometry*

p. 23

This procedure is simply a generalization of the method used in Sects. 1-3 and 1-4 to obtain the equations of the osculating plane and the osculating circle. Let \( f(u) \) near \( P(u = u_0) \) have finite derivatives \( f^{(i)}(u_0), i = 1, 2, \ldots, n + 1 \). Then if we take \( u = u_1 \) at \( A \) and write \( h = u_1 - u_0 \), then there exists a Taylor development of \( f(u) \) of the form (compare Eq. (1-5)):

\[
f(u_1) = f(u_0) + hf'(u_0) + \frac{h^2}{2!}f''(u_0) + \cdots + \frac{h^{n+1}}{(n+1)!}f^{(n+1)}(u_0) + o(h^{n+1}).
\]

Here, \( f(u_0) = 0 \) since \( P \) lies on \( \Sigma_2 \), and \( h \) is of order \( AP \) (see theorem Sec. 1-2); \( f(u_1) \) is of order \( AD \). Hence necessary and sufficient conditions that the surface has a contact of order \( n \) at \( P \) with the curve are that at \( P \) the relations hold:

\[
f(u) = f'(u) = f''(u) = \cdots = f^{(n)}(u) = 0; \quad f^{(n+1)}(u) \neq 0.
\]
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Jen Simmons
Executive producer and host of The Web Ahead

Nearly packed in a gorgeously designed book... and packed with end techniques and patterns from the most experienced designers and developers. The book isn’t a collection of tricks and workarounds — it should be a resource you could apply to your websites today, too.
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Passphrase (e.g. honey-jar-carrot-cake)

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Your (fancy) email

Memorable passphrase (no restrictions!)

Keep me meowed in (argh, signed in?)

Sign into your dashboard ➔

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