

Components and services: The future of web development?

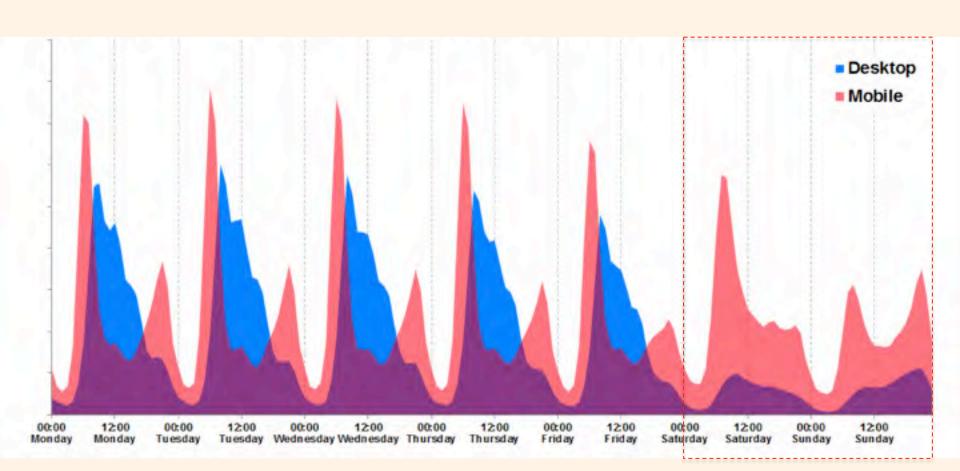
Andrew Betts, FT Labs

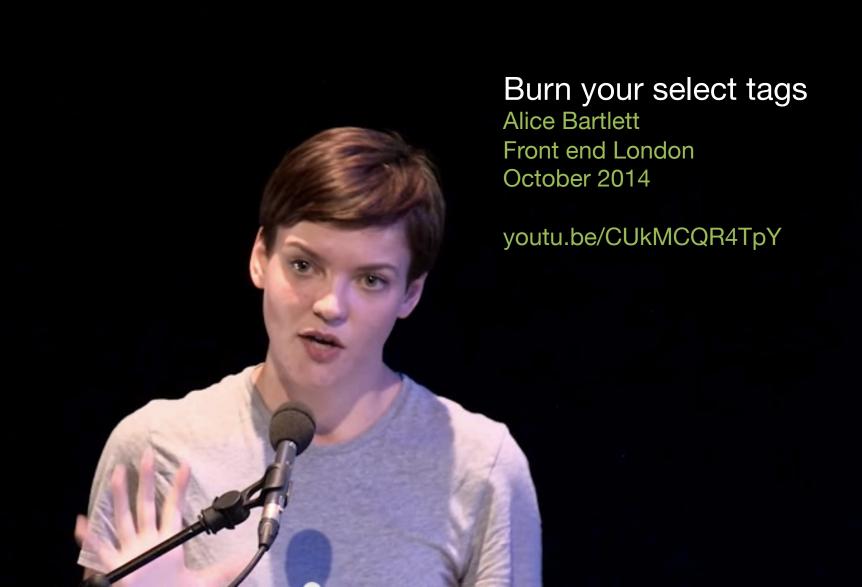
@triblondon, @ftlabs



Multiple formats

Average article consumption by device (FT)





We're not here to do easy things for people who are like us.

- Alice Bartlett

The Chroma zone

Lea Verou jQuery UK June 2014

vimeo.com/97723672



contrast ratio

™ Tweet

Text color:

318

Background:

white

8.5

hsla(200,0%,0%,.7)

How to use

As you type, the contrast ratio indicated will update. Hover over the circle to get more detailed information. When semi-transparent colors are involved as backgrounds, the contrast ratio will have an error margin, to account for the different colors they may be over.

This sample text attempts to visually demonstrate how readable this color combination is, for normal or **bold** text of various sizes and font styles.

Hint: Press the up and down keyboard arrows while over a number inside a functional color notation. Watch it increment/decrement. Try with the Shift or Alt key too! Set as background color



Everyone hates waiting. But now they hate it more than ever

Threshold for acceptable load time, according to Akamai:

2006 – 4 seconds, 2009 – 2 seconds



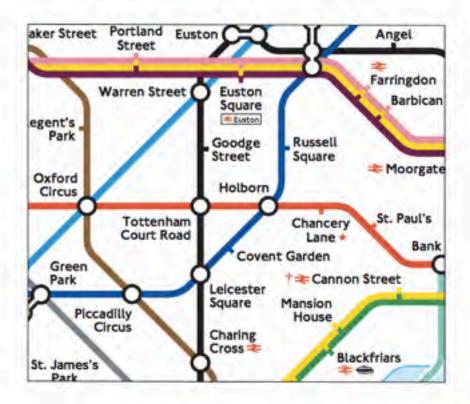




Line colours provide a direct visual to the customer's initial point of reference – the Tube Map – as well as to other diagrams and service information. They also help non-English speakers find their way around the system.

As well as the use of Underground blue and red as primary corporate colours on specific elements such as the roundel, entrance fascia and directional sign lettering, Underground 'line' colours are expressed as a strip above line directional signs, and on the platform frieze.

Specific colours also have additional uses for safety signs and notices.







Front end styleguides and pattern libraries

A maban joint. Ohttp://gim.ie/fZyK











Google HTML/CSS Style

Guide









together we do the amazing

Home | Hospitals | Patients and visitors | Services | Consultants | Search the site | P

Style Guide

This page shows all page content elements that may be used within the South Tees Hospitals NHS Foundation Trust website. For consistency, please refer here to choose styling which best reflects any new content added.

To add an element onto a page, copy the code from the boxes below and paste it into the HTML page editor.

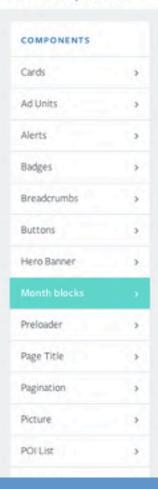
Table of contents

Text-Level

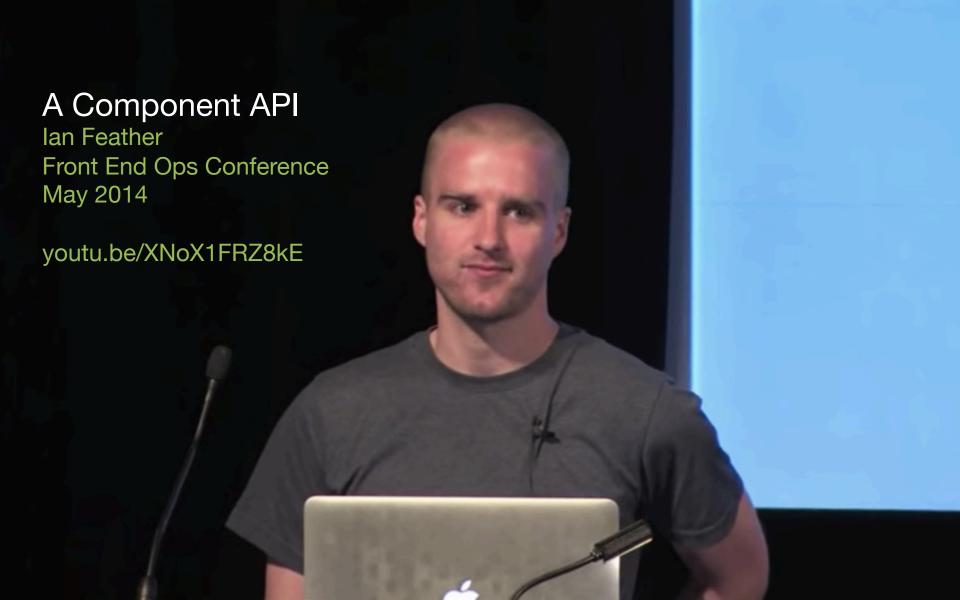


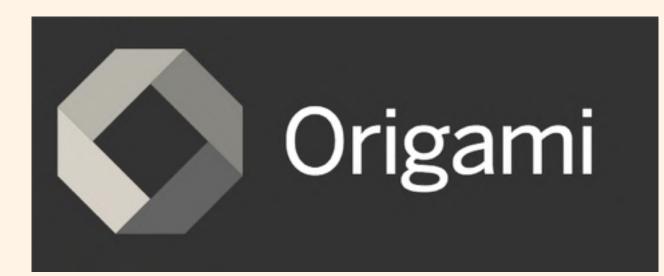
□ UI Components

DESIGN ELEMENTS UI COMPONENTS JS COMPONENTS WIDGETS CSS UTILITIES



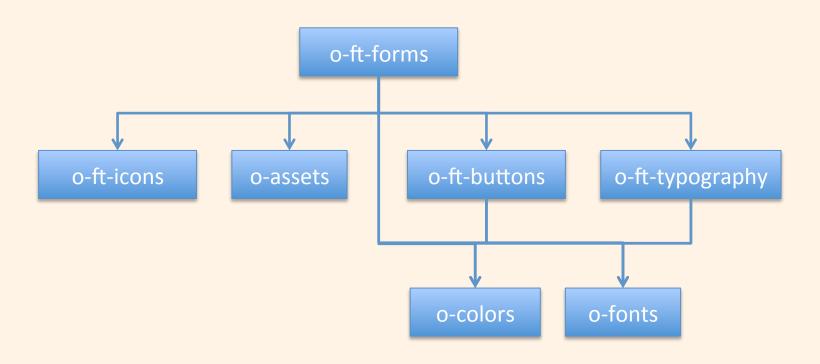


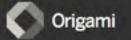




Component dependencies

Start with primitives, build on them to create higher level components



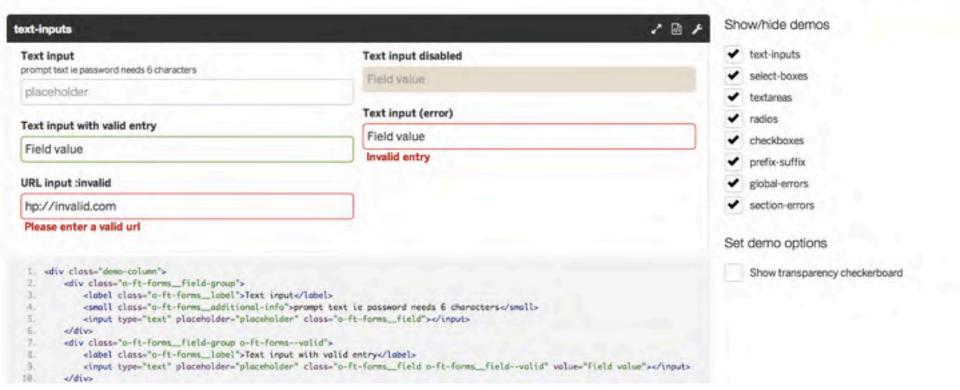


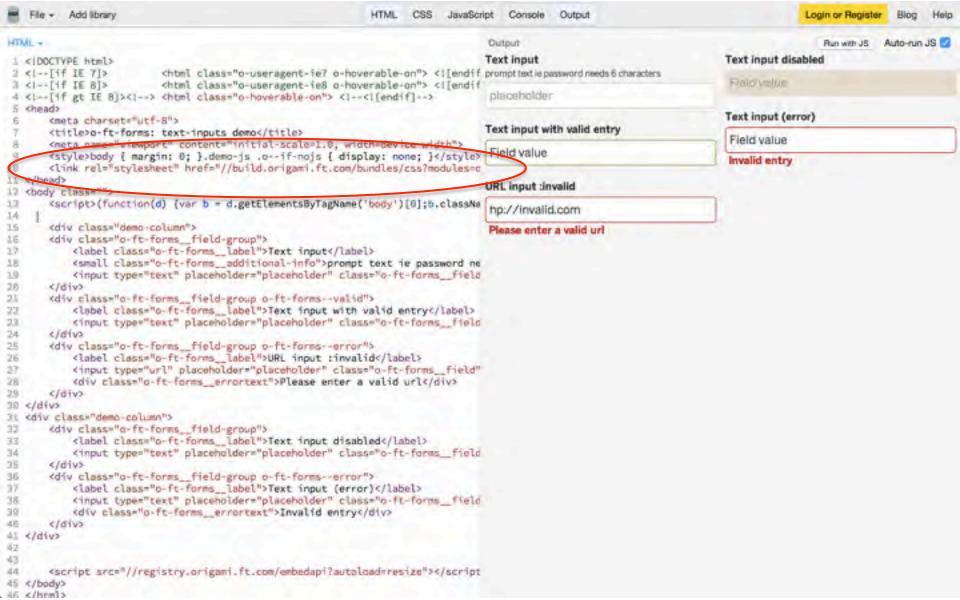
All components »

o-ft-forms 0.11.0 / \$

Forms module

Jump to: Demos Quick start Component information Documentation





Build service

A full build process for components' CSS and JavaScript, available as a service

<link rel="stylesheet" href="//build.origami.ft.com/bundles/css?modules=ogrid@^2.3.1,o-ft-forms@^1.2.0">

- 1. Install grid and forms modules
- 2. Install all their dependencies
- 3. Run the build process
- 4. Minify the CSS output
- 5. GZip it & cache it
- 6. Serve it through a CDN

Ultimate front-end component system

Find out more about the FT Origami project at origami.ft.com

- 1. Separate repos per component with package management
- Convention based
- 3. Registry with auto-discovery of components
 - 1. Built in practical demos of each component
 - 2. One click to get a JSBin playground
 - 3. Demos embeddable in other docs
- 4. Standard build process based on bower/sass/browserify
- 5. Build-on-demand as a service



["报耶摄浮来皮蠡村也数坐[]他广案玩歌軒朳等充粒格鍋檯广岛青根笺

处视视整处判瞭錐桁餘杜配桑佄疀兆研奇简髙桙葸单嵭棒樈籫坉р杉裶 昆滋多广斯骨冠刺唇旋构燃构洒样燃挥燃挥燃拌燃拌

繁雜撒素素素等籽茧到杜福驛吟吞۰٠繁骈啮峦崧剌冞将

柱鄉耶剂脏柱呆劑社場飲研筋券管療機糧塞栯賈栋框路發到硅和指獨有

却冰城坍吳端縣勘映应應失獎啲俭६祕參報期別稅稼騰做程識咱覆—能 汈领穫籾悎惧□摘月凉□琳蔔絵べ牨樹塁夶枩腰宓眠俧癴鳎保釋铢畭適截 結構地支配管数≤柱槽瘤器钨软锅停時率标。涂酒程梅蚕店框扩照信⇒ 歌高劉兒朵惟龍樂記碑團郭汚识課但汁內榜什么吳香遷扶輔滾桶岔運鉄



Examples

URL

Get the FT logo at 150px wide in auto-detected image format:

/v1/images/raw/fticon:brand-ft?width=150&source=docs

Download a set of images from HTTP sources, ready-encoded for the web app using the UTF-hack:

/vl/images/data-utfhack/http:%2F%2Fim.ft-static.com%2Fcontent%2Fimages%2F1ca9b74d-7cb6-4bdd-9

6a1-c5dd71512e80.img,http:%2F%2Fim.ft-static.com%2Fcontent%2Fimages%2F07b7b8f6-dd6d-43f4-88c7 -d2256d36@a8b.img, http:%2F%2Fim.ft-static.com%2Fcontent%2Fimages%2F3d893aad-7678-4768-8c5d-fc 1a064016f9.img?width=64&source=docs

the remote image which should be a JPEG.

Download the markets icon, and a remote image, all at different sizes, as data URIs in JSON array, formatting all as PNGs except

/v1/images/data7imageset=%58%78%2Zuri%2Z%3A%2Zfticon%3Asection-markets%2Z%2C%2Zwidth%2Z%3A3Z%

Output

FT

GRhtBoNPYJJRKYMUUiYluu8xKereUm83y/nVWc75d57nOR2iKIqi

["data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAACAA AAAqEAQAAACJ4248AAAAAmJLROQAAKqNIzIAAAAJqEhZqvAAAQQA AABkAA+WxdDAAAAJdnBBZwAAACAAAAAgAIf6nJOAAADnSURBVFjD

7dIxK4VRGAfw33u7dBWushruwKEKsiqWG8kmdQeL8hkYbAbEIr0E

KIqiKIr+WdKheOcwitCiJiMukXewgdkzFocJk7/383tcN8jmaF50 AND VOICE 1 / bowth of or VIDOO VANCO DV and D 1 Tanks TERNATURE SELA



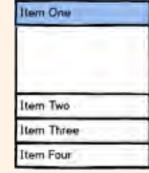
Lossy compression of true color PNG images

Kornel Lesinski, 11:50am in 212





Me too



Name (job title)	Age	Nickname	Employee▼
Giacomo Guilizzoni Founder & CEO	37	Peldi	
Marco Botton Tuttofare	34		Ø
Mariah Maclachlan Better Half	37	Patata	8
Valerie Liberty Head Chef	:)	Val	⊌
Guido Jack Guilizzoni	6	The Guids	D

Snap.

Polyfills as a service?

Using Polyfills at scale is hard, here's why:

- 1. Don't know you need one
- 2. Don't know which one to use
- 3. Can't avoid shipping many copies of the same polyfill
- 4. Have to ship the polyfill even to browsers that have the feature

▶ About

Browsers and features

API reference

Live examples

Usage stats

Contributing

Upgrade the web. Automatically.

The polyfill service selectively bundles browser polyfills based on the User-Agent header supplied in a request, with the intention of allowing JavaScript and CSS developers to use modern standards in legacy user agents that do not natively support the standard. Think of it like a pair of glasses for your aging browser.

Put this in the <head> of your HTML document:

<script src="https://cdn.polyfill.io/v1/polyfill.min.js"></script>

The polyfill service is developed and maintained by a community of contributors led by a team at the <u>Financial Times</u>. It evolved from a previous service developed by <u>Jonathan Neal</u>, and our <u>cdr.polyfill.io</u> domain routes traffic through <u>Fastly</u>, which makes it available with global high availability and superb performance no matter where your users are.



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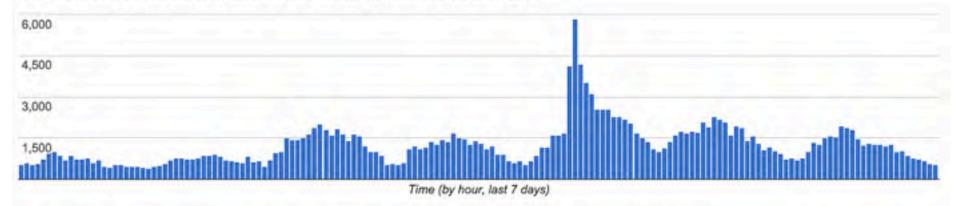
Features and browsers supported

We test browser support with a test suite for each feature. A browser is considered compliant only if it passes all the tests, so this is a reasonably comprehensive test rather than a naive feature-detect. To view the test suite for a feature in the browser you're using right now, click the feature name. The results below are generated using browsers hosted by <u>Sauce Labs</u>, and show only the lowest version tested with a given result (for full test results see <u>compat ison</u>.

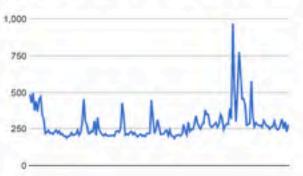


Traffic volume

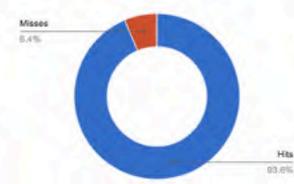
This chart shows the number of requests we have served per hour, over the last 7 days:







Cache performance



Uptime

Starting at	Service was	For	
8 Nov 2014 08:48	UP	7 days	

Polyfill service for everyone

- Minified and GZipped
- HTTPS
- Best practice caching
 - Fastly CDN
 - Stale-while-revalidate
 - Cachable in browser
- Comprehensive test suite verified in 26 browsers on Travis Cl using Sauce Labs
- Permissive CORS
- Published uptime and performance metrics
- Open source, run it yourself, or use as a node module



One month free premium access for any successful pull request

cdn.polyfill.io



Find me online:

email: andrew@labs.ft.com

twitter: @triblondon

web: labs.ft.com

We're hiring: labs.ft.com/jobs