俺的フロントレンド2013総括

と、コラボ 2013/12/18

CyberAgent, Inc. Ayumu Sato

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Ayumu Sato

佐藤 歩 (さとう あゆむ)

@ahomu

フロントエンド(エンジニア|ブロガー|スピーカー)

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FRONTREND

新・3大 2013 フロントレンド

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新・３大「Frontendのトレンド」

2013年7月6日

High Performance Web Frontend

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スマートフォンサイトの読み込み速度を改善するために

2013年8月16日金曜日 | 19:50

多くのユーザーがその手軽さや利便性から、スマートフォンからの検索を行っていますが（英語）、携帯端末向けのページではその読み込みに平均して 7 秒以上かかっていることがわかっています（英語）。この読み込み時間が 1 秒以下になることはユーザーにとっても理想的な（[illegible]の方向性を向いており、インダリングを高速化するガイドライン（[illegible]も参照）を同時にまとめました。このガイドラインにしたがって、PageSpeed インサイト ツールも更新しました。

"above the fold" コンテンツを優先的に扱う

たとえばこちらのレポート（英語）によると、ページの読み込みに 1 秒以上かかった場合、[illegible]体験を提供してサイトを利用してもらうため、今回策定したガイドラインではいわゆる "above the fold" と呼ばれる、ユーザーが最初に目にする、スクロールしなくても表示されるエリアのコンテンツを少しでも早く提供する（その他のコンテンツはバックグラウンドで読み込みを進める）ことを重視しました。また "above-the-fold" エリアをレンダリングするのに必要な HTML や CSS, JavaScript は非常に重要なレンダリング パス（critical rendering path（英語））として知られています。

携帯端末上でのユーザーに最初に見えるコンテンツの読み込み時間を 1 秒未満にするためのベストプラクティスをここでご紹介します。

- 200 ms 以内にレスポンスを返すようにする
- リダイレクトの数は極力少なくする
- 最初のレンダリング時のデータのやり取りを極力少なくする
- ユーザーに最初に見えるコンテンツを表示するのに必要となる JavaScript および CSS を外部参照せずにインライン化する
- ブラウザのレイアウト、レンダリング時間を考慮に入れる （200 ms）
- JavaScript の実行とレンダリング時間を最適化しておく

今回公開したガイドライン では上記のような項目についてより詳しくご紹介していますのでぜひ御覧ください。また、ご自身のサイトでの改善状況については PageSpeed インサイト ツール でご確認いただけます。

ご意見・ご感想は、ウェブマスター ヘルプフォーラム までお寄せください。

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http://googlewebmastercentral-ja.blogspot.jp/2013/08/making-smartphone-sites-load-fast.html

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?
!

High Performance Web Frontend

http://www.flickr.com/photos/tbisaacs/2407175368

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Render

Compute

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遅いサイトはクソ

クソなので
あります

Web Frontend

Rendering Performance

Knowledge & Tips

http://www.flickr.com/photos/ryanready/4996206922

非力なWebと
装飾コスト

The Button

The_Button.css

```
.the_button {

  width: 200px;
  height: 50px;

  background: linear-gradient
              (top, #48a2fb, #005cc2);
  border-radius: 5px;
  box-shadow: 0 3px 5px rgba(0,0,0,0.6)
}
```

Layout

Paint

(none)
100 %

shadow+dotted
403 %

box-shadow
328 %

shadow+radius
2074 %

border-radius
466%

radius+dotted
9892 %

dotted-border
125 %

all mix!!
11654 %

http://havelog.ayumusato.com/develop/performance/e560-css_rendering_with_skia_debugger.html

パフォーマンス
&
実行環境の理解

新・３大「Frontendのトレンド」

2013年2月9日

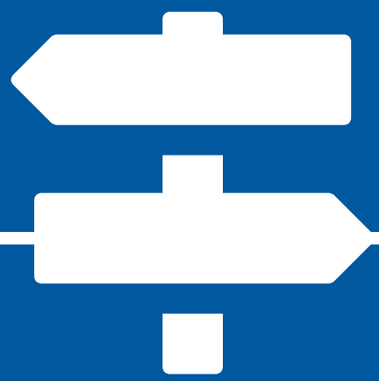
jQuery to Backbone JS Architecture

jQuery to Backbone

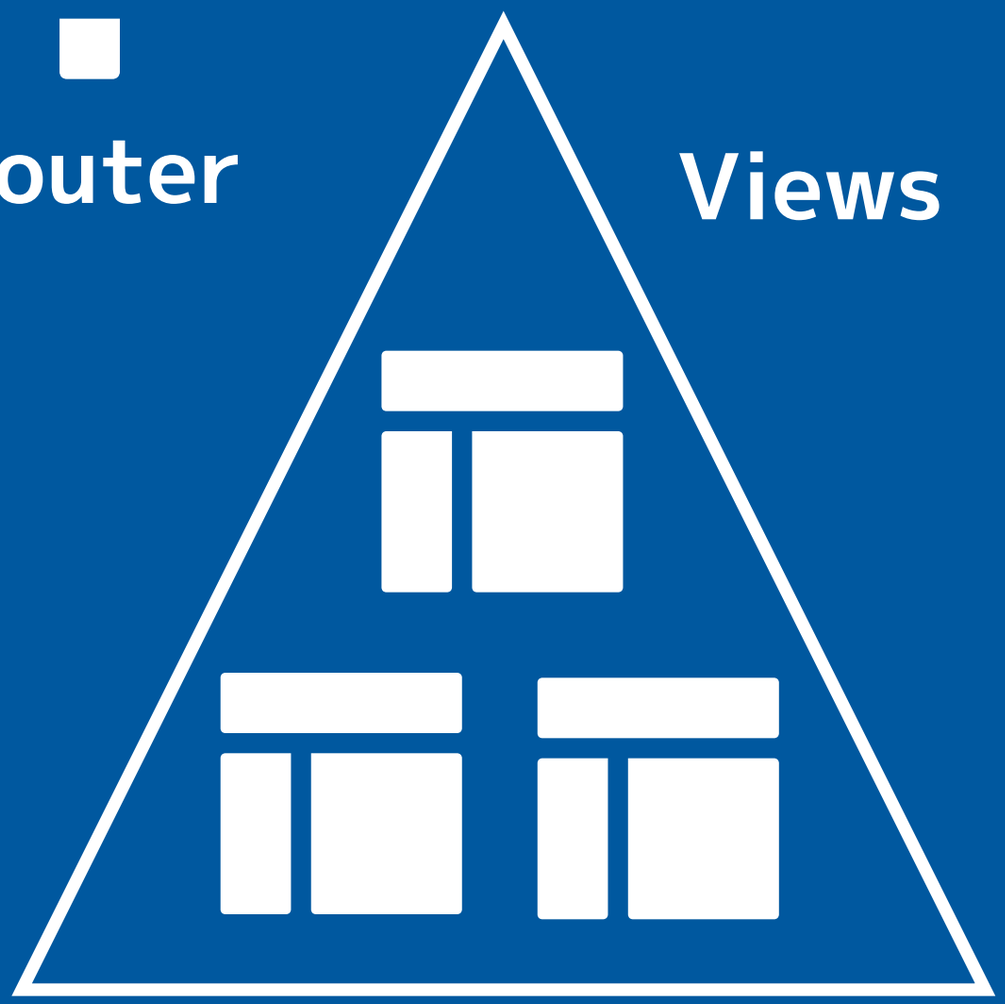
アーキテクチャを意識したJavaScript入門

http://www.flickr.com/photos/vagawi/2257918524

Backbone



Router



Views

via. Backbonification - Migrating NewsBlur From DOM Spaghetti to Backbone.js
https://speakerdeck.com/samuelclay/backbonification-migrating-newsblur-from-dom-spaghetti-to-backbone-dot-js?slide=12

まず有権者に

訴えたいのは

Backbone Angular どちらが良いか？

It Depends

時と場合による

次のトレンドが
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なのであります

JSを巡る
アーキテクチャは
既に境界が曖昧

+ mongodbをフォローする tumblr.

mongoDB

{ name: mongo, type: DB }

The MEAN Stack: MongoDB, ExpressJS, AngularJS and Node.js

APRIL 30, 2013

97 Comments

By Valeri Karpov, Kernel Tools engineer at MongoDB and and co-founder of the Ascot Project.

A few weeks ago, a friend of mine asked me for help with PostgreSQL. As someone who's been blissfully SQL- free for a year, I was quite curious to find out why he wasn't just using MongoDB instead. It turns out that he thinks MongoDB is too difficult to use for a quick weekend hack, and this couldn't be farther from [illegible] and NodeJS (the FinTech Hackathon [illegible] reason to use anything else for your next hackathon or REST API hack.

First of all, there are huge advantages to using a uniform language throughout your stack. My team uses a [illegible] By coding with [illegible] performance gains in both the software itself and in the productivity of our developers. With MongoDB, we can store our documents in a JSON- like format, write JSON queries on our ExpressJS and NodeJS based server, and seamlessly pass JSON documents to our AngularJS frontend. Debugging and database administration become a lot easier when the objects stored in your database are essentially identical to the objects your client Javascript sees. Even better, somebody working on the client side can easily understand the server side code and database queries; using the same syntax and objects the whole way through frees you from having to consider multiple sets of language best practices and reduces the barrier to entry for understanding your codebase. This is especially important in a hackathon setting: the team may not have much experience working together, and with such little time to integrate all the pieces of your project, anything that makes the development process easier is gold.

Another big reason to go with MongoDB is that you can use it in the same way you would a MySQL database (at least at a high level). My team likes to describe MongoDB as a "gateway drug" for NoSQL databases because it is so easy to make the transition from SQL to MongoDB. I wish someone had told me this when I first starting looking into NoSQL databases, because it would have saved me a lot of headaches. Like many people, I was under the impression that CouchDB would be easier to use, while the performance improvements from MongoDB were something I could take advantage only once I had gotten my feet wet with CouchDB. Instead, CouchDB ended up being much more difficult to work with than I anticipated, largely

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http://coding.smashingmagazine.com/2013/11/21/introduction-to-full-stack-javascript/

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An Introduction To Full-Stack JavaScript

By Alejandro Hernandez

November 21st, 2013 JavaScript, Techniques, Tools

68 Comments

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Node.js and the new web front-end

Posted at October 7, 2013 07:00 am by Nicholas C. Zakas
Tags: Architecture, JavaScript, Node.js, Web Server

Front-end engineers have a rather long and complicated history in software engineering. For the longest time, that stuff you sent to the browser was "easy enough" that anyone could do it and there was no real need for specialization. Many claimed that so-called web developers were nothing more than graphic designers using a different medium. The thought that one day you would be able to specialize in web technologies like HTML, CSS, and JavaScript was laughable at best – the UI was, after all, one thing one could just hack together in a work.

JavaScript was the technology that really started to change the perception of web developers, changing [illegible] engineers turned their noses up at became the driving force of the Internet. CSS and HTML then came along for the ride as more browsers were introduced, creating cross-browser incompatibilities that very clearly defined the need for front-end engineers. Today, front-end specialists are one of the most sought after candidates in the world.

The two UI layers

Even after the Ajax boom, the front-end engineer was seen as primarily working with technologies inside of a browser window. HTML, CSS, and JavaScript were the main priorities and we would only touch the back-end (web server) in order to ensure it was properly outputting the front-end. In a sense, there were two UI layers: the one in the browser itself and the one on the server that generated the payload for the browser. We had very little control over the back-end UI layer and were often beholden to back-end engineers' opinions on how frameworks should be put together – a world view that rarely took into consideration the needs of the front-end.

Node UI Layer

http://www.nczonline.net/blog/2013/10/07/node-js-and-the-new-web-front-end/

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drafts

This page summarizes the relationships among specifications, whether they are finished standards or drafts. Below, each title links to the most recent version of a document.

Web Components

http://www.w3.org/standards/techs/components#w3c_all

Drafts

through the W3C Recommendation Track process. Others may be published as Group Notes or become obsolete specifications.

Last Call Drafts

2013-10-24	**Custom Elements** This document describes the method for enabling the author to define and use new types of DOM elements in a document.

Other Working Drafts

2013-06-06	**Introduction to Web Components** Provides an overview of Web Components.

システム全体に

適応する地力

新・３大「Frontendのトレンド」

2013年x月y日

Language Barrier

言語の壁

Language Barrier

Stack Overflow is a question and answer site for professional and enthusiast programmers. It's 100% free, no registration required.

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Here's how it works:

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http://chiebukuro.yahoo.co.jp

役に立つ質問

- ブレンドコーヒーとアメリカンコーヒーの違いって何？

ブレンドコーヒーは、その名の通り複数数のコーヒー豆をブレンドして、望みの味わいを作り出したもの。ブレンドによって生まれる、味わいの変化や膨らみなど...

- 結婚式でブーケを受け取るのは、なぜ女性なんでしょうか？ ...
- 定期預金、積立預金…の違いやメリットデメリットを教えて下さ...
- フィギュアスケートのジャンプの種類の違いは

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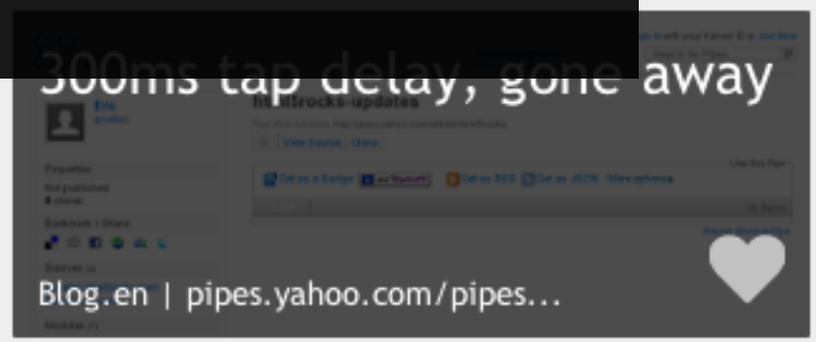

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An Introduction To Full-Stack JavaScript

By Alejandro Hernandez

November 21st, 2013 JavaScript, Techniques, Tools

68 Comments

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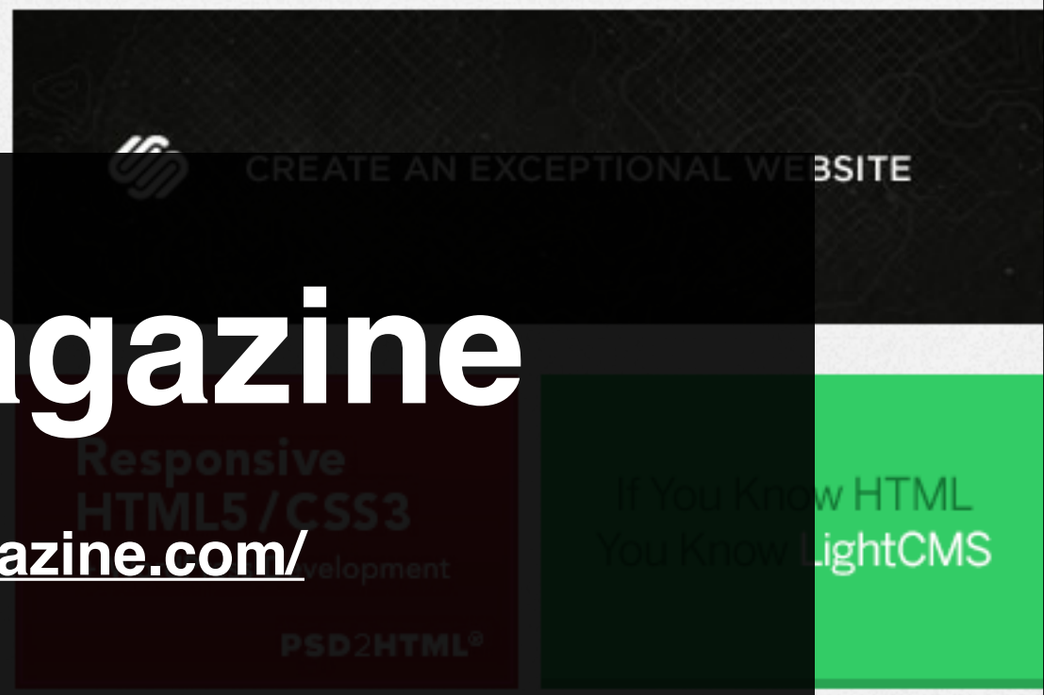

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by MIKE PICK · 16 Comments

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Every click interaction in mobile browsers is hampered with a 300ms delay, but that's gone in Chrome 32 for mobile-optimised sites!

The Front-end of Middle-earth: A walkthrough of multi-device development

In this article we discuss the challenges, problems and solutions we encountered when creating the rest of the HTML5 experience for Middle-earth.

Using Your Terminal From The DevTools

How to access a complete terminal from inside the Chrome Developer Tools

Vim.js

13 Dec 2013 | By Alex Young | 0 Comments | vim emscripten editors

Surely the very reason Emscripten was created?

Finally, my worlds have collided! In case you didn't know, I regularly write a Vim blog. It's surprisingly easy to find things to say about this 22 year old text editor, and it's been my main tool for writing code and articles for a long time. Vim.js (GitHub: coolwanglu / vim.js) by Lu Wang is an Emscripten port of Vim, allowing you to use Vim in a browser.

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React vs FruitMachine: layout!

by Andrew Betts, 12 October 2013

Facebook's React client-side component layout engine bears a striking resemblance to our own Fruit machine client side component layout engine. We build the same solution using both, compare the approaches and discuss what problem we're both trying to

Thoughts from Edge 2

2 October 2013

The second iteration of our web technologies conference, Edge, took place in New York City last week. Here, event curator Andrew Betts talks about the motivations for the event, how it went and what we can

time.

About

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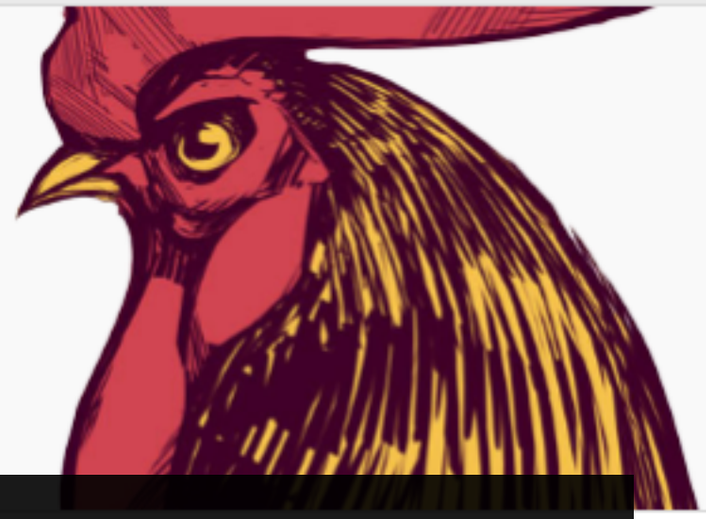

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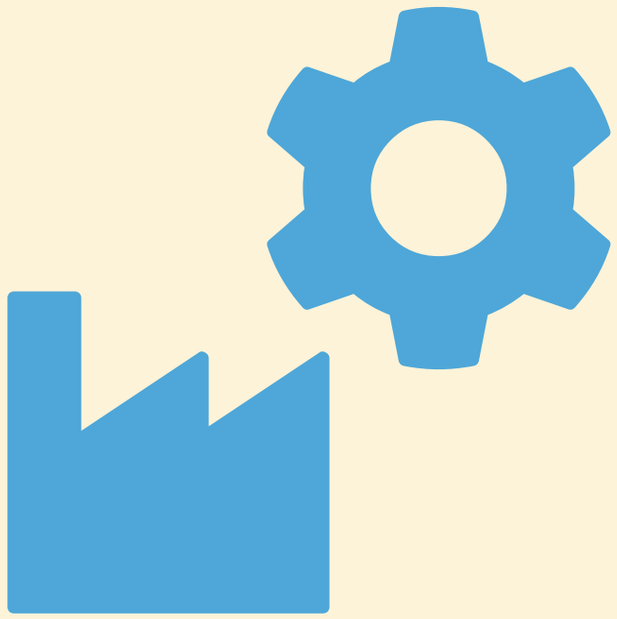
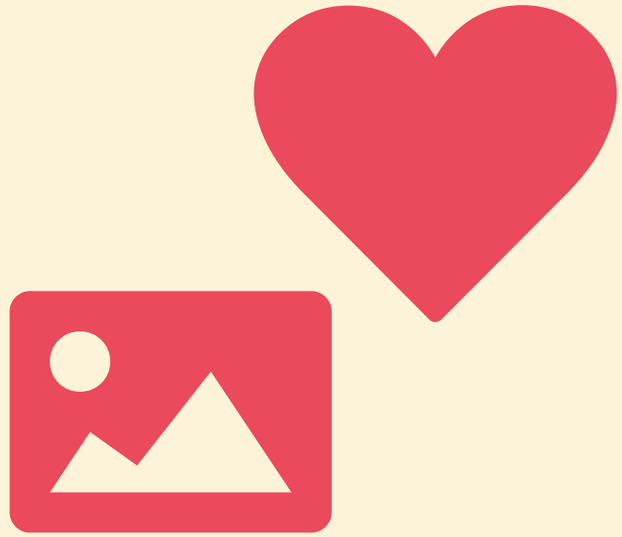
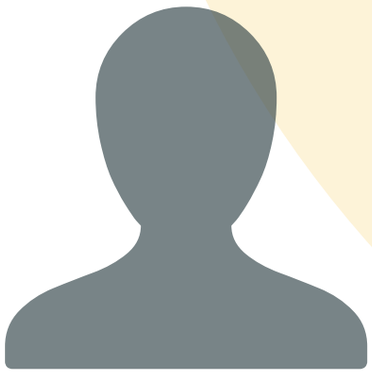
System Architecture



Product Quality





Engineer

Frontend

Designer

フロント生存戦略

- フロントの専門性でイニシアチブを持て
- 仲立ちとバランス感覚を重んじよ
- ポートフォリオを見直し続けよ

Thank you

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