

# Does the browser have a future?

Tim Bray

tbray@textuality.com · tbray.org · @timbray · +TimBray



Left: 1997 Right: 2010



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PHP is a popular general-purpose scripting language that is especially suited to web development.

Fast, flexible and pragmatic, PHP powers everything from your blog to the most popular websites in the world.

## PHP 5.6.0 released »

28 Aug 2014

The PHP Development Team announces the immediate availability of PHP 5.6.0. This new version comes with new features, some backward incompatible changes and many improvements.

### The main features of PHP 5.6.0 include:

- [Constant scalar expressions](#).
- [Variadic functions](#) and argument unpacking using the `...` operator.
- [Exponentiation using the `\*\*` operator](#).
- [Function and constant importing](#) with the `use` keyword.
- `phpdbg` as an interactive integrated debugger SAPI.
- `php://input` is now reusable, and `$HTTP_RAW_POST_DATA` is deprecated.
- [GMP](#) objects now support operator overloading.
- File uploads larger than 2 gigabytes in size are now accepted.

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[5.6.0](#) · [Release Notes](#)

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## Upgrading to PHP 5.6

## Conferences calling for papers

- [ConFoo](#)

## Upcoming conferences

- [php\[world\] in Washington, D.C.](#)
- [Brno PHP Conference 2014](#)
- [PHP Cape Town Conference](#)
- [International PHP Conference 2014](#)

## User Group Events

## Special Thanks



# Web development that doesn't hurt

Ruby on Rails® is an open-source web framework that's optimized for programmer happiness and sustainable productivity. It lets you write beautiful code by favoring convention over configuration.

Rails 4.2.0 beta1: [Active Job](#), [Deliver Later](#), [Adequate Record](#), [Web Console](#)

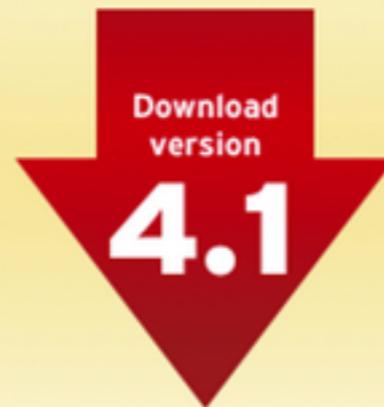
## Get Excited

```
class PostsController <
  # GET /posts
  # GET /posts.xml
  def index
    @posts = Post.find(

    respond_to do |form
      format.html # ind
      format.xml { ren
      format.json { ren
      format.atom
    end
  end
```

[Screencasts & presentations](#)

## Get Started



[4.1.5 released Aug 18, 2014](#)

## Get Better



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## Get Involved

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The Web framework for perfectionists with deadlines.

Django makes it easier to build better Web apps more quickly and with less code.

## Meet Django

Django is a high-level Python Web framework that encourages rapid development and clean, pragmatic design.

Developed by a fast-moving online-news operation, Django was designed to handle two challenges: the intensive deadlines of a newsroom and the stringent requirements of the experienced Web developers who wrote it. It lets you build high-performing, elegant Web applications quickly.

Django focuses on automating as much as possible and adhering to the [DRY principle](#).

Dive in by [reading the overview](#) →

When you're ready to code, read the [installation guide](#) and [tutorial](#).

## Download

Latest release: **1.7**

Open source, [BSD license](#)

## Documentation

[Installation guide](#)

[Tutorial](#)

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## Sites that use Django

### Disqus

Beautiful, real-time, engaging comments threads for your website.

### Instagram

A fast, beautiful and fun photo-sharing app for iOS and Android.

### Mozilla

Makers of Firefox, and defenders of the openness, innovation, and opportunity on the web.

### OpenStack

Open source software for building private and public clouds.

## Weblog

### Call for nominations for the 2014 Malcolm Tredinnick Memorial Prize

by Russell Keith-Magee on Sep. 10, 2014

The Django Software Foundation is calling for nominations for the 2014 Malcolm Tredinnick Memorial Prize.

[Read more](#)

### DjangoCon US 2014 shirt available

by Russell Keith-Magee on Sep. 9, 2014

A shirt for DjangoCon US 2014 is now available!

[Read more](#)

### Django's Inaugural Technical Board Elected

by Tim Graham on Sep. 6, 2014

The Django team has elected the inaugural technical board.

[Read more](#)

### Django 1.7 released

by James Bennett on Sep. 2, 2014

Django 1.7 has been released!

[Read more](#)



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Node.js® is a platform built on **Chrome's JavaScript runtime** for easily building fast, scalable network applications. Node.js uses an event-driven, non-blocking I/O model that makes it lightweight and efficient, perfect for data-intensive real-time applications that run across distributed devices.

Current Version: v0.10.32

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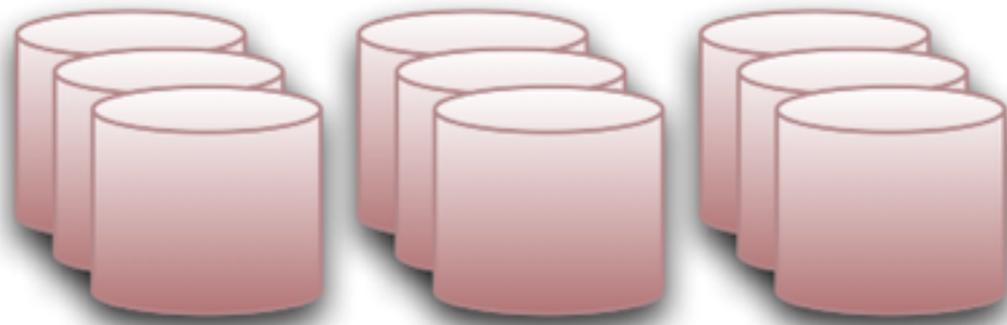


**NODE.JS ON THE ROAD**

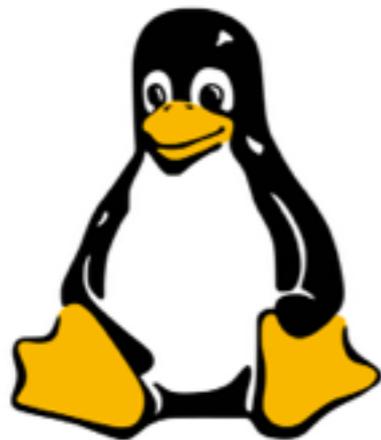
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nodejs.org

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# Web app





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Android APIs | API level: 19

- android
- android.accessibilityservice
- android.accounts
- android.animation
- android.app
- android.app.admin
- android.app.backup
- android.appwidget
- android.bluetooth
- android.content
- android.content.pm
- android.content.res
- android.database
- android.database.sqlite
- ...
- PowerManager
- PowerManager.WakeLock
- Process
- RecoverySystem
- RemoteCallbackList
- ResultReceiver
- StatFs
- StrictMode
- StrictMode.ThreadPolicy
- StrictMode.ThreadPolicy.Builder
- StrictMode.VmPolicy
- StrictMode.VmPolicy.Builder
- SystemClock
- TokenWatcher
- Trace
- UserHandle
- UserManager
- Vibrator**
- WorkSource

public abstract class  
**Vibrator**  
extends [Object](#)

[java.lang.Object](#)  
↳ [android.os.Vibrator](#)

## Class Overview

Class that operates the vibrator on the device.

If your process exits, any vibration you started will stop.

To obtain an instance of the system vibrator, call `getSystemService(String)` with `VIBRATOR_SERVICE` as the argument.

## Summary

Public Methods	
abstract void	<a href="#">cancel()</a> Turn the vibrator off.
abstract boolean	<a href="#">hasVibrator()</a> Check whether the hardware has a vibrator.
abstract void	<a href="#">vibrate(long[] pattern, int repeat)</a> Vibrate with a given pattern.
abstract void	<a href="#">vibrate(long milliseconds)</a> Vibrate constantly for the specified period of time.

Inherited Methods

- ▶ From class [java.lang.Object](#)

[developer.android.com/reference/android/os/Vibrator.html](http://developer.android.com/reference/android/os/Vibrator.html)



# Functional thinking with Erlang

```
counter_loop(Count) ->  
  receive  
    { incr } ->  
      counter_loop(Count + 1);  
    { report, To } ->  
      To ! { count, Count },  
      counter_loop(Count)  
  end.
```

```
incr(Counter) ->  
  Counter ! { incr }.  
  
find_count(Counter) ->  
  Counter ! { report, self() },  
  receive  
    { count, Count } ->  
      Count  
  end.
```

## Scalable parallel counters!

[tbray.org/ongoing/When/200x/2007/09/21/Erlang](http://tbray.org/ongoing/When/200x/2007/09/21/Erlang)



# Clojure

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Clojure is a dynamic programming language that targets the Java Virtual Machine ([and the CLR](#), and [JavaScript](#)). It is designed to be a general-purpose language, combining the approachability and interactive development of a scripting language with an efficient and robust infrastructure for multithreaded programming. Clojure is a compiled language – it compiles directly to JVM bytecode, yet remains completely dynamic. Every feature supported by Clojure is supported at runtime. Clojure provides easy access to the Java frameworks, with optional type hints and type inference, to ensure that calls to Java can avoid reflection.

Clojure is a dialect of Lisp, and shares with Lisp the code-as-data philosophy and a powerful macro system. Clojure is predominantly a functional programming language, and features a rich set of immutable, persistent data structures. When mutable state is needed, Clojure offers a software transactional memory system and reactive Agent system that ensure clean, correct, multithreaded designs.

I hope you find Clojure's combination of facilities elegant, powerful, practical and fun to use.

The primary forum for discussing Clojure is the [Google Group](#) – please join us!

clojure.org

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# Object-Oriented Meets Functional

Have the best of both worlds. Construct elegant class hierarchies for maximum code reuse and extensibility, implement their behavior using higher-order functions. Or anything in-between.

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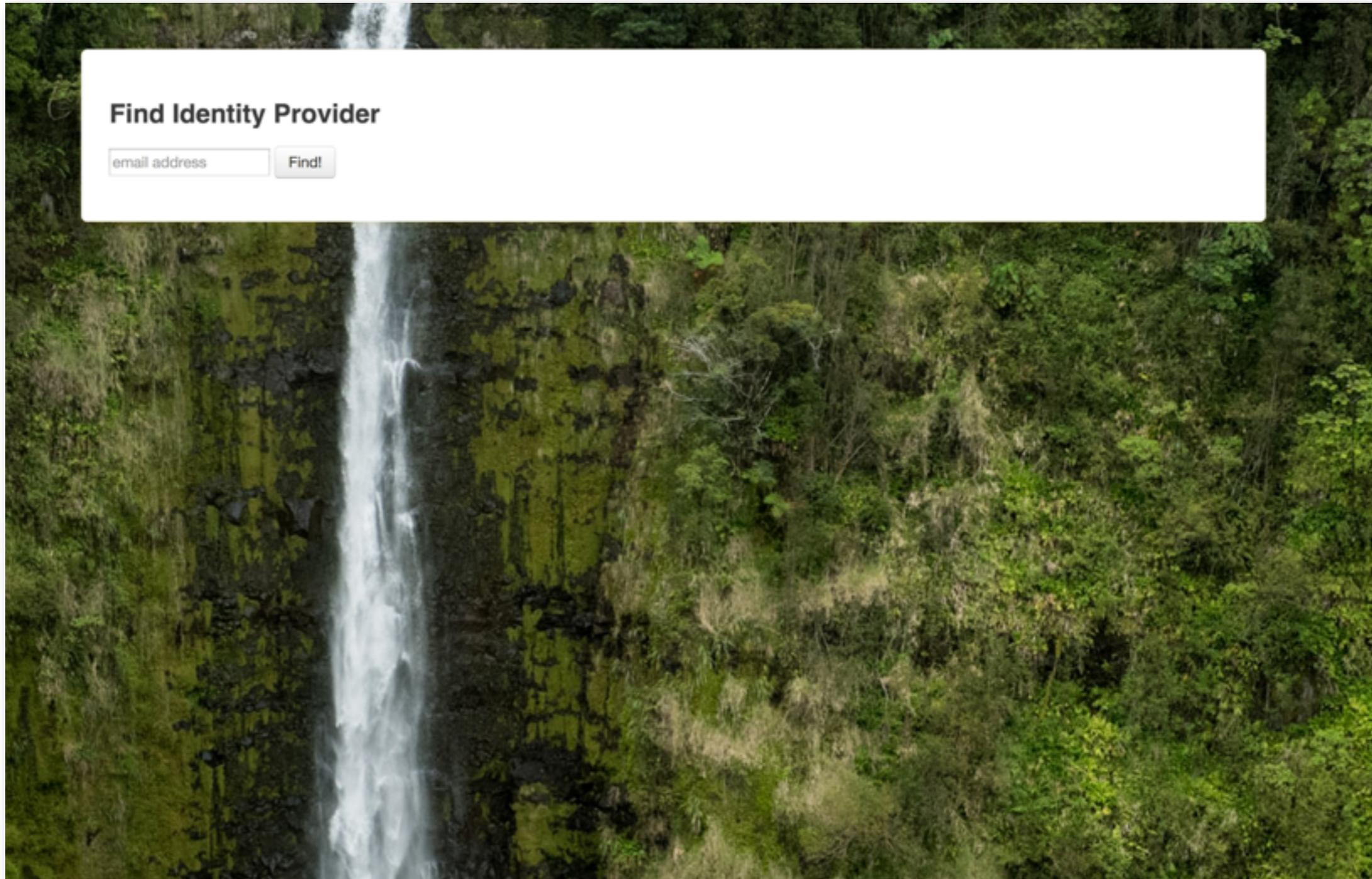
-  *Milestones, nightlies, etc.*
-  *All Previous Releases*

Scala  
2.11.2

[API DOCS](#)

*API: Current | Nightly*

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-  *Scala Documentation*
-  *Language Specification*

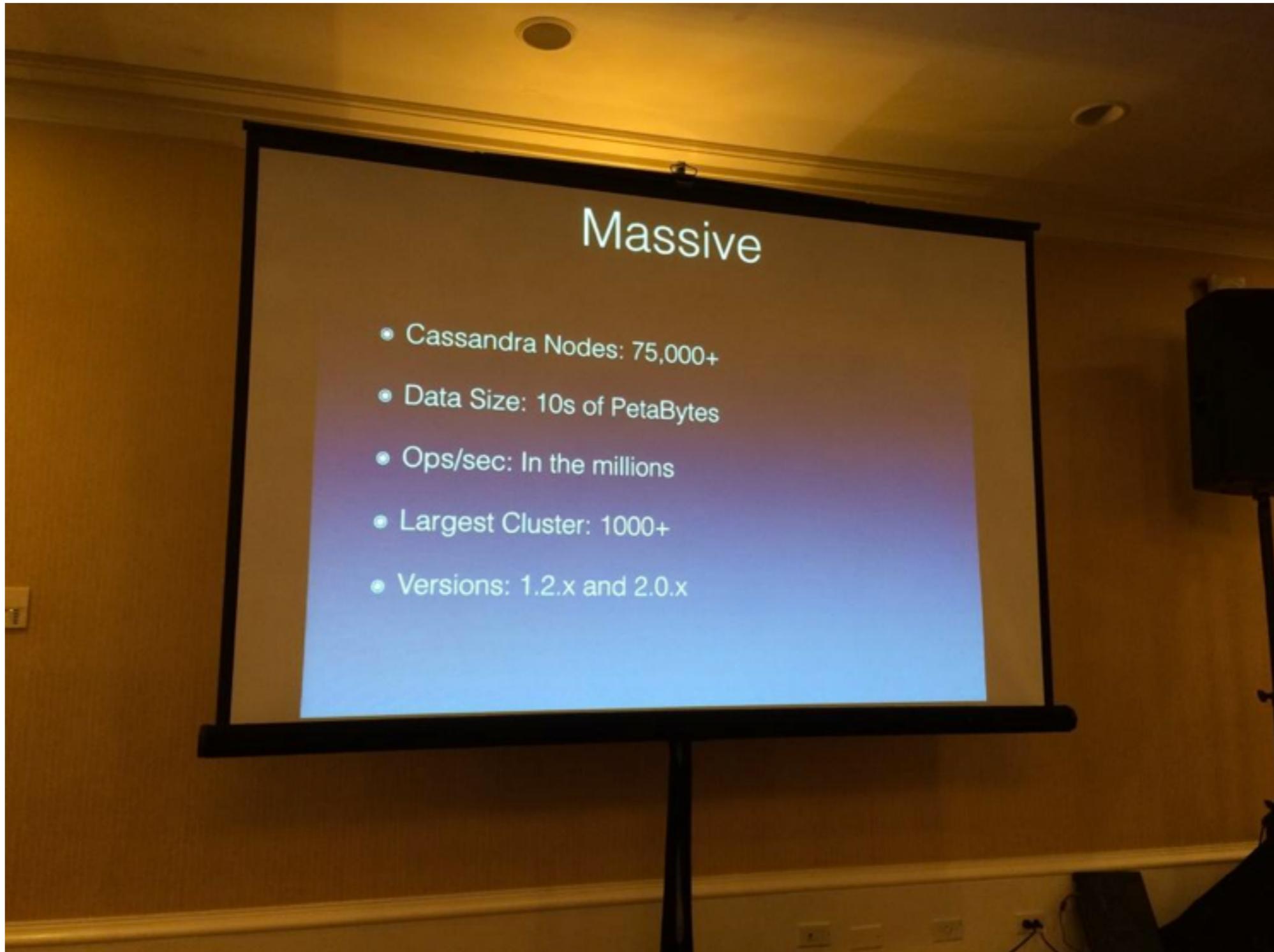


[findIDP.appspot.com](http://findIDP.appspot.com)

```

c := make(chan SearchResult)
go timeout(c)
for _, searcher := range Searchers {
    go searcher.Search(email, c, handles)
}
bestStrength := -1
outstanding := len(Searchers)
bestResult = SearchResult{TimeoutType, []IDP{}}
for outstanding > 0 {
    result := <-c
    outstanding--
    if result.rtype == TimeoutType {
        break // timed out, don't wait for trailers
    }
    if len(result.idps) == 0 {
        continue // a result that found nothing, ignore it
    }
    resultClass := ResultStrengths[result.rtype]
    if resultClass.verified {
        bestResult = result
        break // verified results trump all others
    }
    if resultClass.strength > bestStrength {
        bestStrength = resultClass.strength
        bestResult = result
    } else if resultClass.strength == bestStrength {
        bestResult.idps = merge(bestResult.idps, result.idps)
    }
}
}
...
func timeout(c chan SearchResult) {
    time.Sleep(2000 * time.Millisecond)
    c <- SearchResult{rtype: TimeoutType}
}

```



[twitter.com/levwalkin/status/510197979542614016/photo/1](https://twitter.com/levwalkin/status/510197979542614016/photo/1)

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[play.google.com/store/apps/top/category/GAME](https://play.google.com/store/apps/top/category/GAME)



PhoneGap

About Developer Community Apps Enterprise

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# Easily create apps using the web technologies you know and love: **HTML, CSS, and JavaScript**

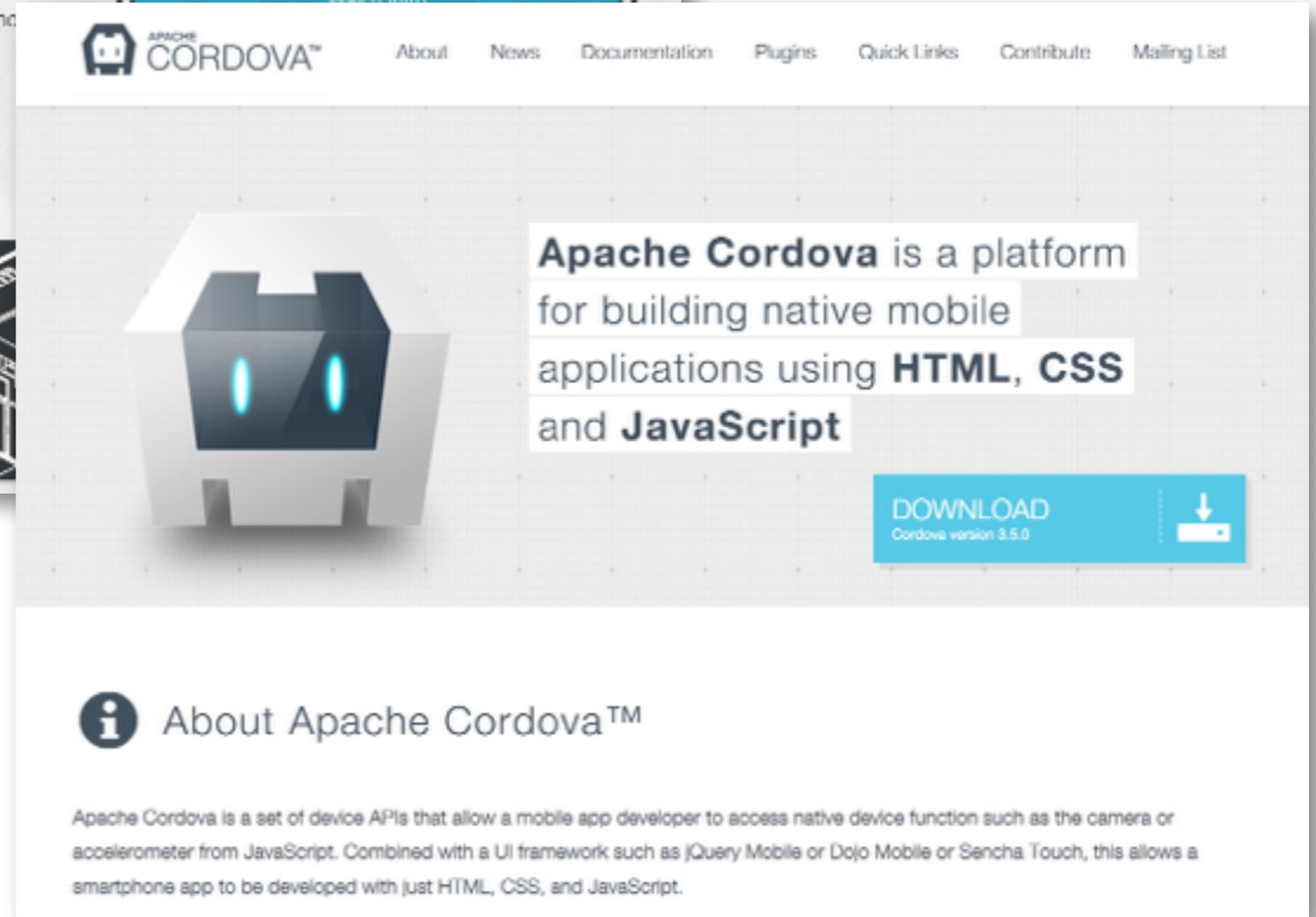
PhoneGap is a free and open source framework that allows you to create mobile apps using standardized web APIs for the platforms you care about.

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## PhoneGap Day 2014

US: Friday, Oct 24th in San Francisco

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## Apache Cordova is a platform for building native mobile applications using **HTML, CSS** and **JavaScript**

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### About Apache Cordova™

Apache Cordova is a set of device APIs that allow a mobile app developer to access native device function such as the camera or accelerometer from JavaScript. Combined with a UI framework such as jQuery Mobile or Dojo Mobile or Sencha Touch, this allows a smartphone app to be developed with just HTML, CSS, and JavaScript.

phonegap.com, cordova.apache.org

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By Joshua Pramis — February 28, 2013

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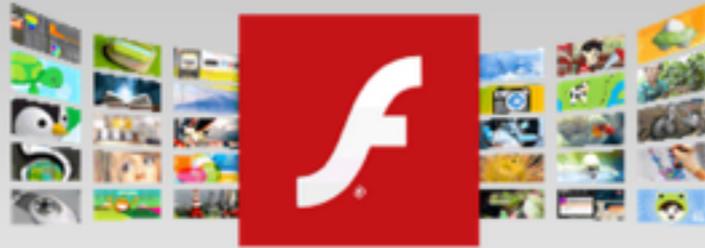


[www.digitaltrends.com/mobile/mobile-phone-world-population-2014/](http://www.digitaltrends.com/mobile/mobile-phone-world-population-2014/)



Step: 1 of 3

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### About:

Adobe® Flash® Player is a lightweight browser plug-in and rich Internet application runtime that delivers consistent and engaging user experiences, stunning audio/video playback, and exciting gameplay.

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[www.microsoft.com/silverlight/](http://www.microsoft.com/silverlight/)

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## JavaFX - The Rich Client Platform

JavaFX is the next step in the evolution of Java as a rich client platform. It is designed to provide a lightweight, hardware-accelerated Java UI platform for enterprise business applications. With JavaFX, developers can preserve existing investments by reusing Java libraries in their applications. They can even access native system capabilities, or seamlessly connect to server-based middleware applications.

As of JDK 7u6 JavaFX is included with the standard JDK and JRE bundles. Please download the JDK or JRE to use JavaFX.

### ANNOUNCEMENTS

**JDK 8 (with JavaFX) Now Available** - Use JavaFX to build rich applications.

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**Scene Builder 2.0 early access is now available**

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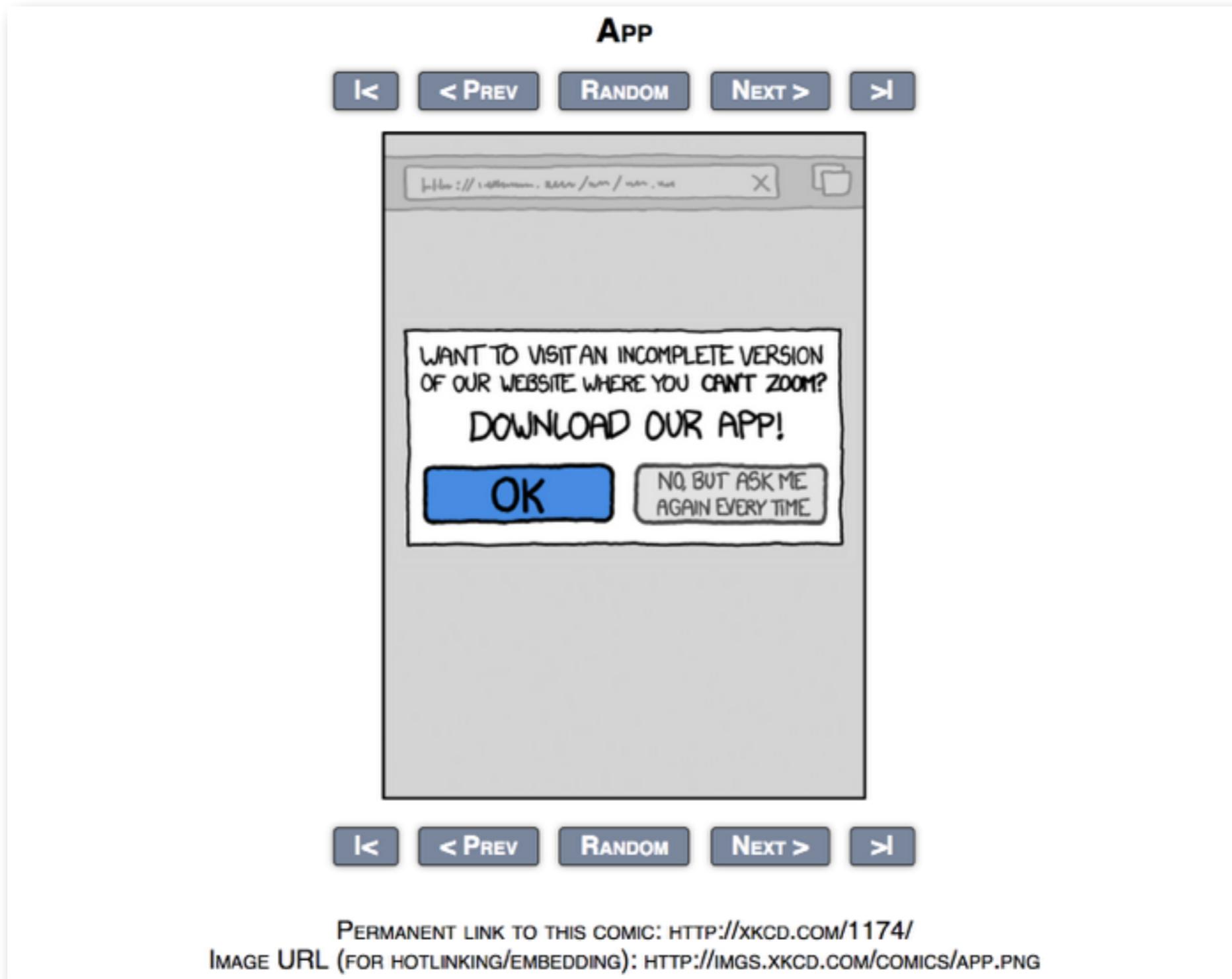
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Jim...



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"Any modal message—full-screen or alert—that interrupts user flow to ask them to download your app suffers from #doorslam #ux antipattern." [Thus Spake @Aral](#)

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24 Feb 2014

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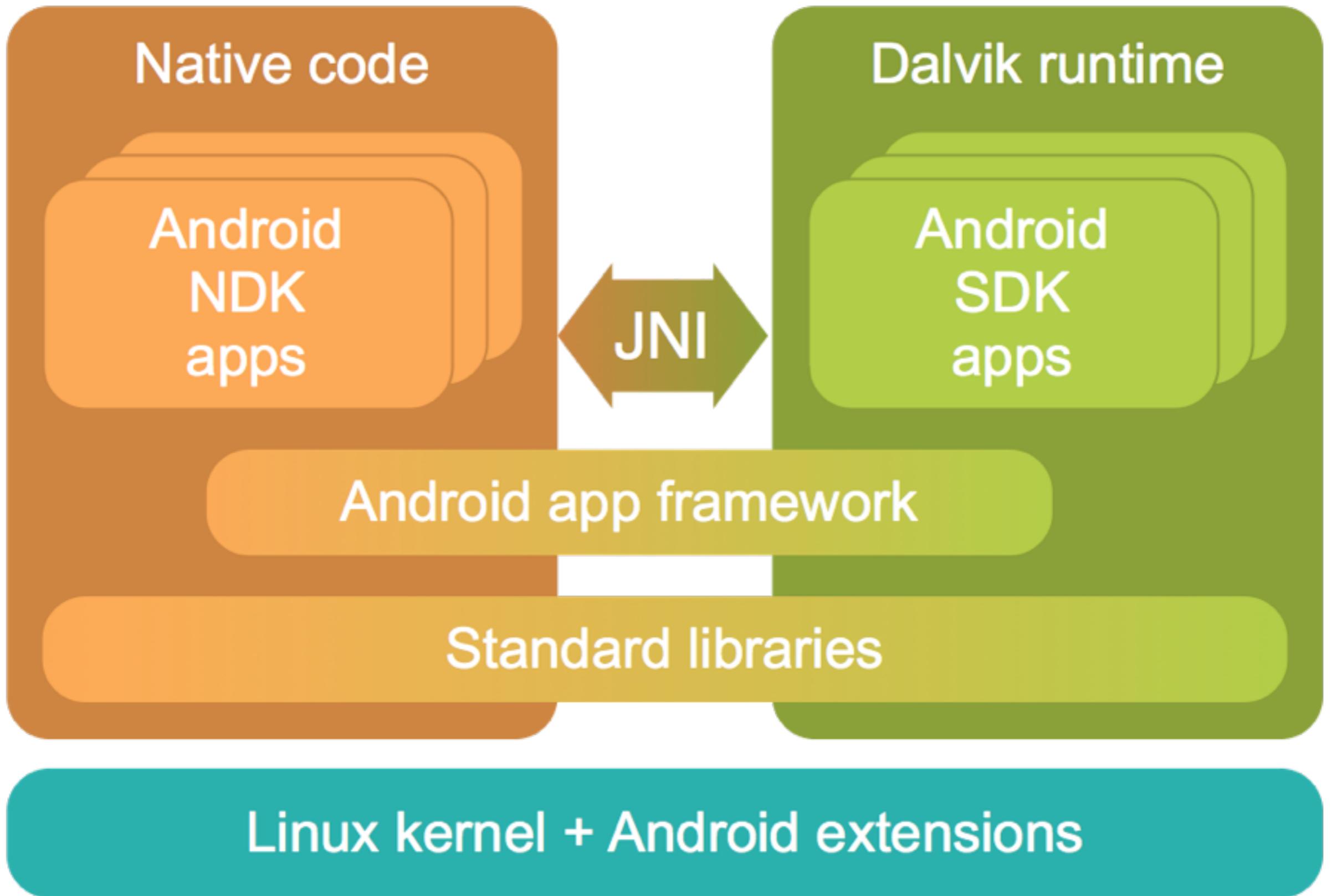
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v1.11.1 or v2.1.1

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[How jQuery Works →](#)

**What is jQuery?**  
jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. With a combination of versatility and extensibility, jQuery has changed the way that millions of people write JavaScript.

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## Backbone.js (1.1.2)

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### Introduction

### Upgrading

### Events

- on
- off
- trigger
- once
- listenTo
- stopListening
- listenToOnce
- [Catalog of Built-in Events](#)

### Model

- extend
- constructor / initialize
- get
- set
- escape
- has
- unset
- clear
- id
- idAttribute
- cid
- attributes
- changed
- defaults
- toJSON
- sync
- fetch
- save
- destroy
- **Underscore Methods (6)**
- validate
- validationError



# BACKBONE.JS

Backbone.js gives structure to web applications by providing **models** with key-value binding and custom events, **collections** with a rich API of enumerable functions, **views** with declarative event handling, and connects it all to your existing API over a RESTful JSON interface.

The project is [hosted on GitHub](#), and the [annotated source code](#) is available, as well as an online [test suite](#), an [example application](#), a [list of tutorials](#) and a [long list of real-world projects](#) that use Backbone. Backbone is available for use under the [MIT software license](#).

You can report bugs and discuss features on the [GitHub issues page](#), on Freenode IRC in the [#documentcloud](#) channel, post questions to the [Google Group](#), add pages to the [wiki](#) or send tweets to [@documentcloud](#).

*Backbone is an open-source component of [DocumentCloud](#).*

## Downloads & Dependencies (Right-click, and use "Save As")

**Development Version (1.1.2)**

60kb, Full source, tons of comments

**Production Version (1.1.2)**

6.5kb, Packed and gzipped  
([Source Map](#))

**Edge Version (master)**

Unreleased, use at your own risk

build passing

backbonejs.org

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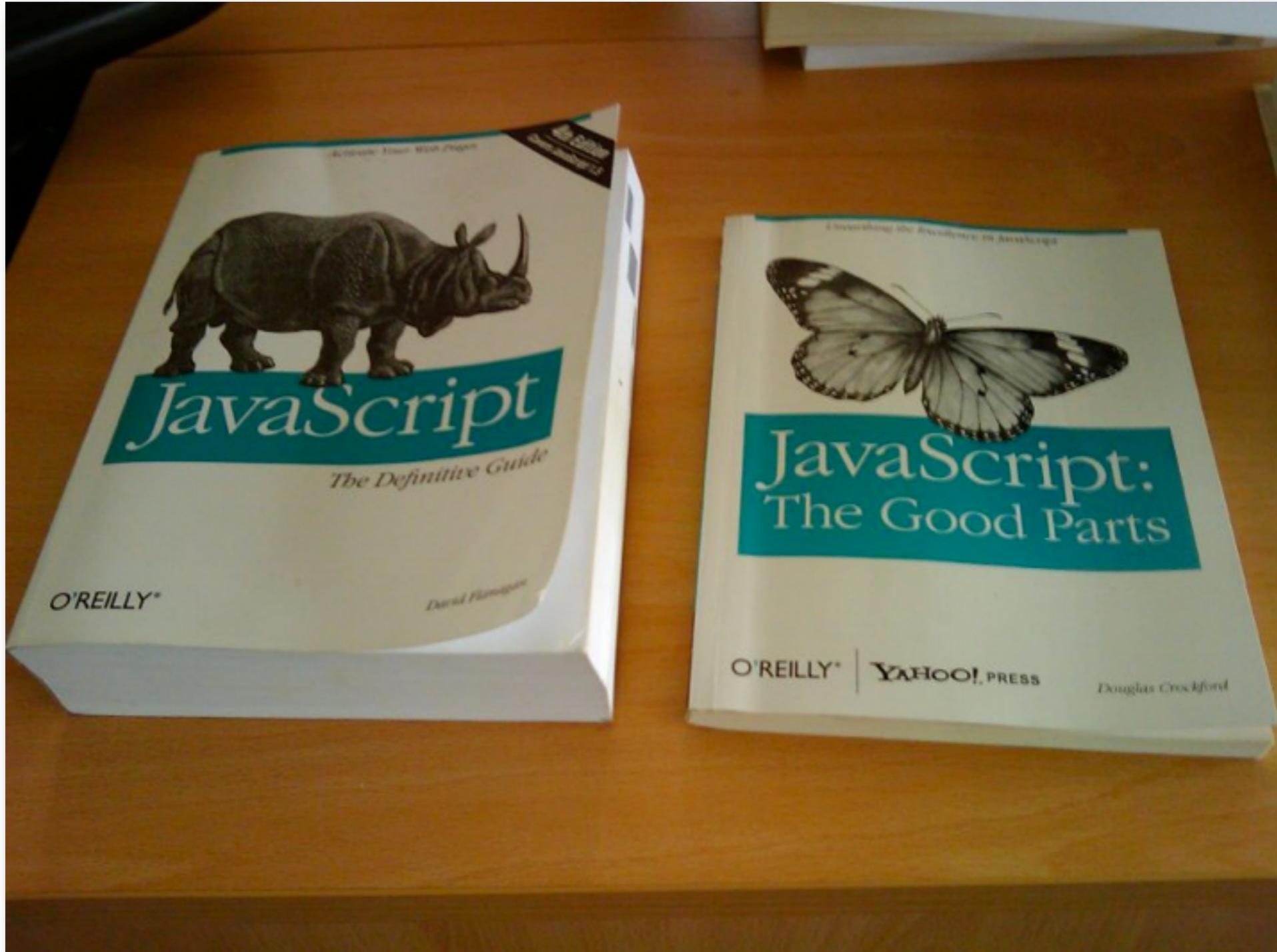


## Welcome to the future

Web Components usher in a new era of web development based on encapsulated and interoperable custom elements that extend HTML itself. Built atop these new standards, Polymer makes it easier and faster to create anything from a button to a complete application across desktop, mobile, and beyond.

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[polymer-project.org](https://polymer-project.org)



[nermal.org/misc/javascript.jpg](http://nermal.org/misc/javascript.jpg)

# End-to-end productivity with Dart

Dart is a cohesive, scalable platform for building apps that run on the [web](#) (where you can use [Polymer](#)) or on [servers](#) (such as with [Google Cloud Platform](#)). Use the Dart language, libraries, and tools to write anything from simple scripts to full-featured apps.

↓ [DOWNLOAD DART + EDITOR \(MAC\)](#)

CURRENT STABLE VERSION OF DART: 1.6.0

[news.dartlang.org](#) [Docker images for Dart now available](#)

## See Dart

🕒 ABOUT 5 MINUTES

Dart is class based and object oriented, without being dogmatic.

▶ [See code](#)

## Write Dart

🕒 UNDER AN HOUR

Follow this code lab to create a Dart web app, even if you've never written a web app before.

▶ [Write code](#)

## Dive deep

🕒 ABOUT 1 DAY

Dart has lots of [tools](#), [libraries](#), and documentation, plus a developer community.

▶ [Learn more](#)

# asm.js

an extraordinarily optimizable, low-level subset of JavaScript

[specification](#) (work in progress)

[frequently asked questions](#)

[big web app? compile it!](#) – slide deck by [@kripken](#)

asmjs.org

[TABLE OF CONTENTS](#)[TRY COFFEESCRIPT](#)[ANNOTATED SOURCE](#)

**CoffeeScript is a little language that compiles into JavaScript.** Underneath that awkward Java-esque patina, JavaScript has always had a gorgeous heart. CoffeeScript is an attempt to expose the good parts of JavaScript in a simple way.

The golden rule of CoffeeScript is: *"It's just JavaScript"*. The code compiles one-to-one into the equivalent JS, and there is no interpretation at runtime. You can use any existing JavaScript library seamlessly from CoffeeScript (and vice-versa). The compiled output is readable and pretty-printed, will work in every JavaScript runtime, and tends to run as fast or faster than the equivalent handwritten JavaScript.

[coffeescript.org](http://coffeescript.org)

[Table of Contents](#)[Try It](#)[Annotated Source](#)[Iced Features](#)

**Iced**CoffeeScript is a superset of [CoffeeScript](#). The `iced` interpreter is a drop-in replacement for the standard `coffee` interpreter; it will interpret almost all existing CoffeeScript programs.

IcedCoffeeScript (ICS) adds two new keywords: `await` and `defer`. These additions simply and powerfully streamline asynchronous control flow, both on the server and on the browser. Say goodbye to callback pyramids; say adios to massive code rewrites when synchronization requirements change slightly. Say hello to clean, readable, maintainable control flow for network and asynchronous operations!

The golden rule of CoffeeScript was: *"It's just JavaScript"*. ICS is doing something deeper. It's selectively running code through a continuation-passing style conversion. Original-style CoffeeScript will compile as before, but code using the new ICS features will be less recognizable. Still, the compiled output is readable and pretty-printed, passes through [JavaScript Lint](#) without warnings.

[maxtaco.github.io/coffee-script](http://maxtaco.github.io/coffee-script)

“ Vertically and horizontally centering a <div> with CSS is the hardest problem in computer science.

- Gregor Rothfuss

[plus.google.com/+GregorJRothfuss/posts/5Z1kezgiCvm](https://plus.google.com/+GregorJRothfuss/posts/5Z1kezgiCvm)



# Getting started

An overview of Less, how to download and use, examples and more.

less v1.7.5 has been released - [See what's new](#)

[Getting Started](#)[Using Less](#)[Command-line With Rhino](#)[Client-side usage](#)[Get Less.js](#)[License FAQs](#)

## Getting Started

Less is a CSS pre-processor, meaning that it extends the CSS language, adding features that allow variables, mixins, functions and many other techniques that allow you to make CSS that is more maintainable, themable and extendable.

Less runs inside Node, in the browser and inside Rhino. There are also many 3rd party tools that allow you to compile your files and watch for changes.

For example:

lesscss.org

Your laptop needs more Sass. Grab a set of Sass stickers now.



[INSTALL](#)

[LEARN SASS](#)

[BLOG](#)

[DOCUMENTATION](#)

[GET INVOLVED](#)

[LIBSASS](#)

# CSS with superpowers



Sass is the most mature, stable, and powerful professional grade CSS extension language in the world.

[Current Release: Selective Steve \(3.4.4\)](#)

[Release Notes](#)

[Fork on Github](#)

sass-lang.com

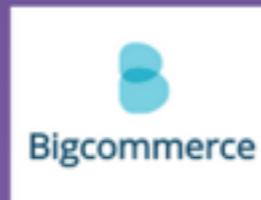
*Textuality*



Bootstrap is the most popular HTML, CSS, and JS framework for developing responsive, mobile first projects on the web.

[Download Bootstrap](#)

Currently v3.2.0



Open an online store  
Launch your own  
successful online store in  
minutes. Try it free for 15  
days.

ads via Carbon

getbootstrap.com

Bourbon Neat Bitters Refills All maintained by the design team at thoughtbot



GITHUB EXAMPLES DOCS

A **lightweight** semantic **grid** framework for **Sass** and **Bourbon**.

```
<!-- HTML markup for the section right below this code block -->
<section>
  <aside>What is it about?</aside>
  <article>Neat is an open source semantic grid framework built on top of Sass and Bourbon...</article>
</section>
```

neat.bourbon.io

# 禪

## ZEN GRIDS

A responsive grid system  
built with the power of [Sass](#)

**Limitless layouts...**



**...one simple system**



**Design  
responsive,  
adaptive or fixed-  
width**



**No more Math!  
Let Sass do the  
work.**



**Unburden your  
mind! Free your  
creativity!**

**Writing CSS for web page layouts is hard.**

Writing your layout in Sass with Zen Grids is easy.

∀ x ∃ x.js



*Textuality*

I recently worked on a 6 month long project... We were tasked with building out an internal data analytics tool that would let non-technical folks slice and dice data in one of our primary data stores.

I think we assumed going in that the server-side piece would be where we spent most of our time, but it was actually trivial given the incredible tool set you have to work with on the server. ...

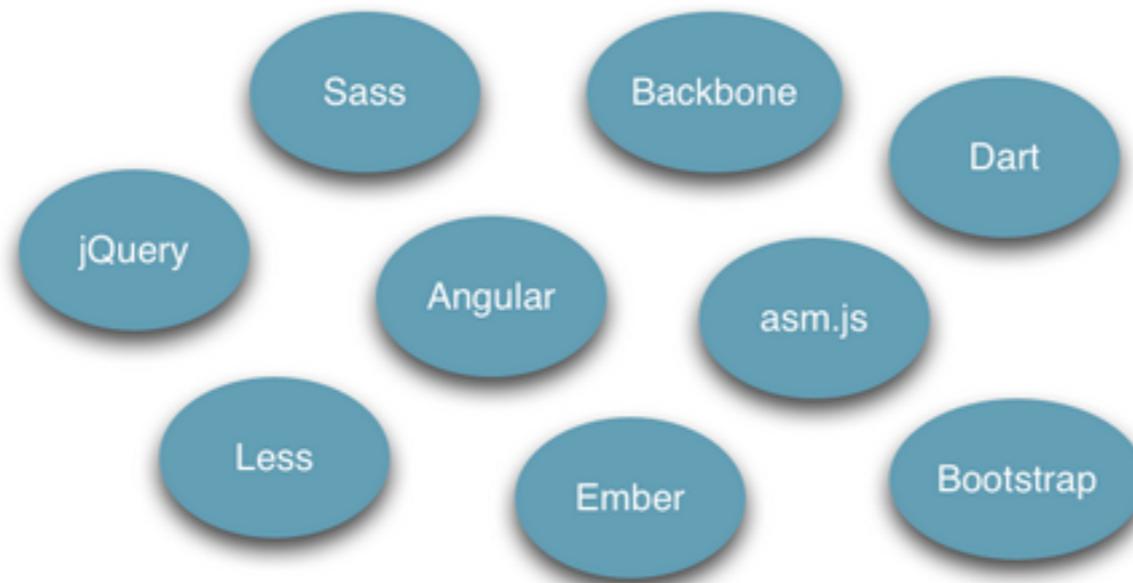
We really ran into problems when it came to building a web app to display this data. All of the developers besides myself needed to first learn javascript and jquery, which aren't altogether difficult to learn, but have some really strange quirks. And then CSS/Sass, which can be really conceptually difficult for newcomers ("No, you can't just do height: 100%;. Why? Well...", "Yes, it is strange that your div is behind your other div even though it has a higher z-index", "You need to clearfix that outer div to fix the way all those things are floating over each other. What's a clearfix? It's another well accepted hack." etc). And then Backbone, and Marionette to make Backbone better. And requireJS, because javascript doesn't have a linker. And of course, you need to package and minimize this stuff together, because you wind up having to load 1MB of javascript into the page before you can click a button... Thank god this was an internal tool, because the idea of making this thing work for IE is terror-inducing.

The number of WTF's per person per day was probably 5-10x higher on the frontend piece...

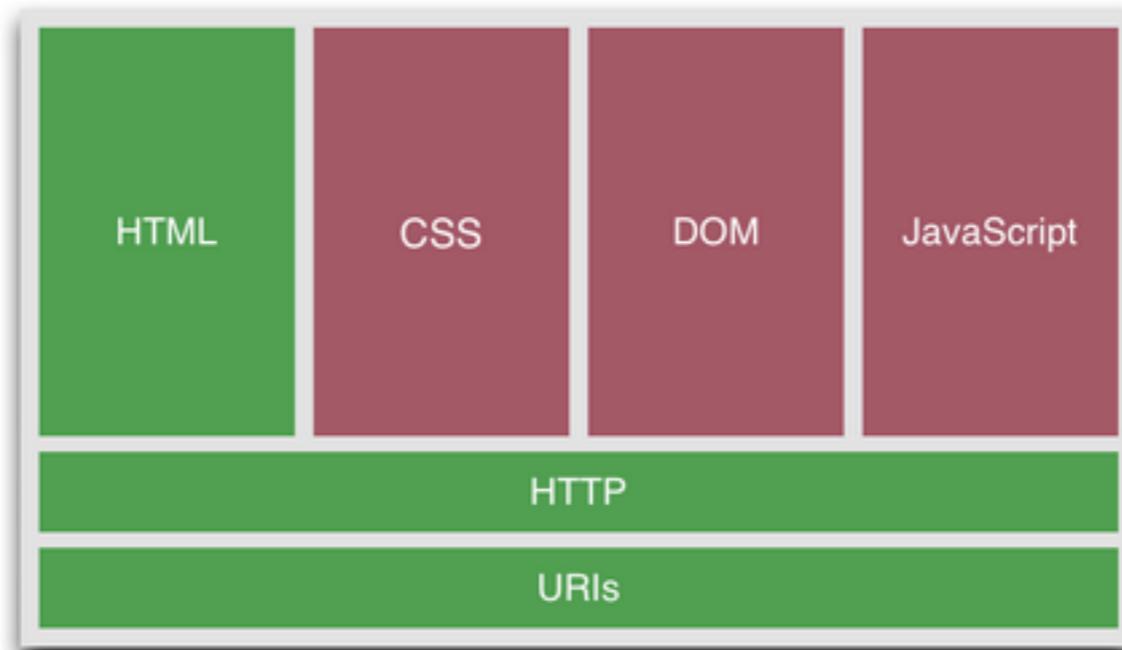
[reddit.com/r/programming/comments/1useus/software\\_in\\_2014\\_ongoing\\_by\\_tim\\_bray/celdofq](https://reddit.com/r/programming/comments/1useus/software_in_2014_ongoing_by_tim_bray/celdofq)



Opabinia regalis



These exist to work around the problems with those.



These parts are not very good.

***So Fix them!!!***

These parts are basically OK.

Modern Browser

[twitter.com/timbray/status/433362625276018689](https://twitter.com/timbray/status/433362625276018689)

