THE FUTURE OF WEB FRAMEWORKS

Matt Raible
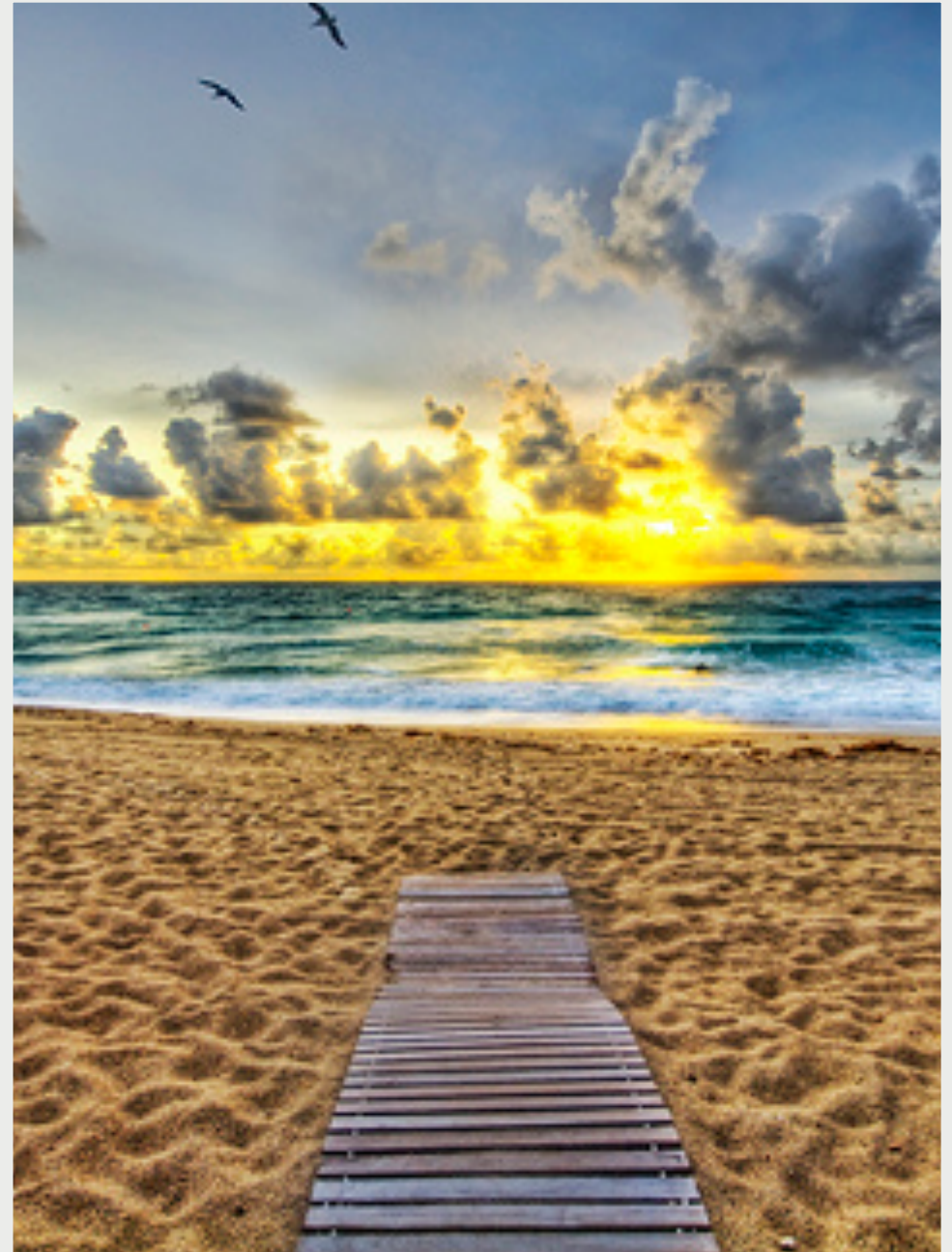
http://raibledesigns.com

INTRODUCTIONS

- Web Framework Usage

- Framework Developer?

- Mobile Developer?

- What would you like to see in future web frameworks?

Blogger on raibledesigns.com
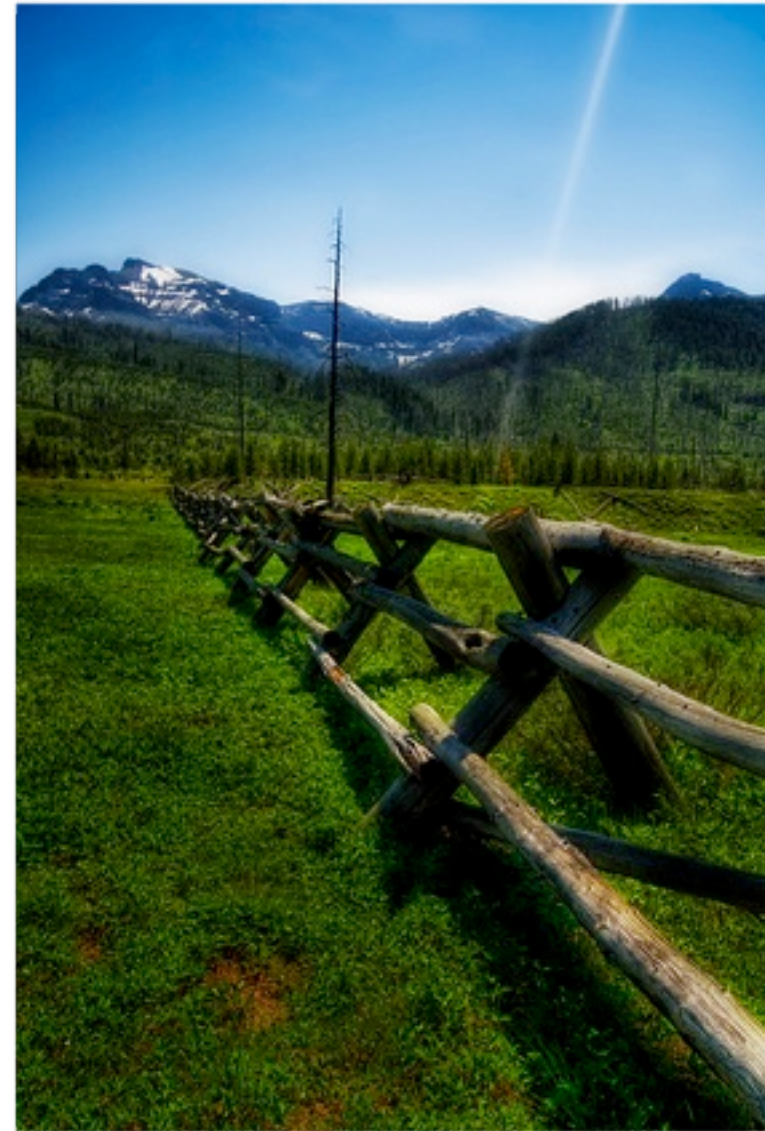
Father, Skier, Cyclist

Web Framework Connoisseur

Montana Native

Founder of AppFuse

Who is **Matt Raible**?

SESSION AGENDA

- How did we get here?

- Where are we going?

- How do we get there?

- 2011++

- Conclusion

- Q and A

HISTORY OF WEB FRAMEWORKS

- Deep History (CGI, etc.)

- Java's Rise
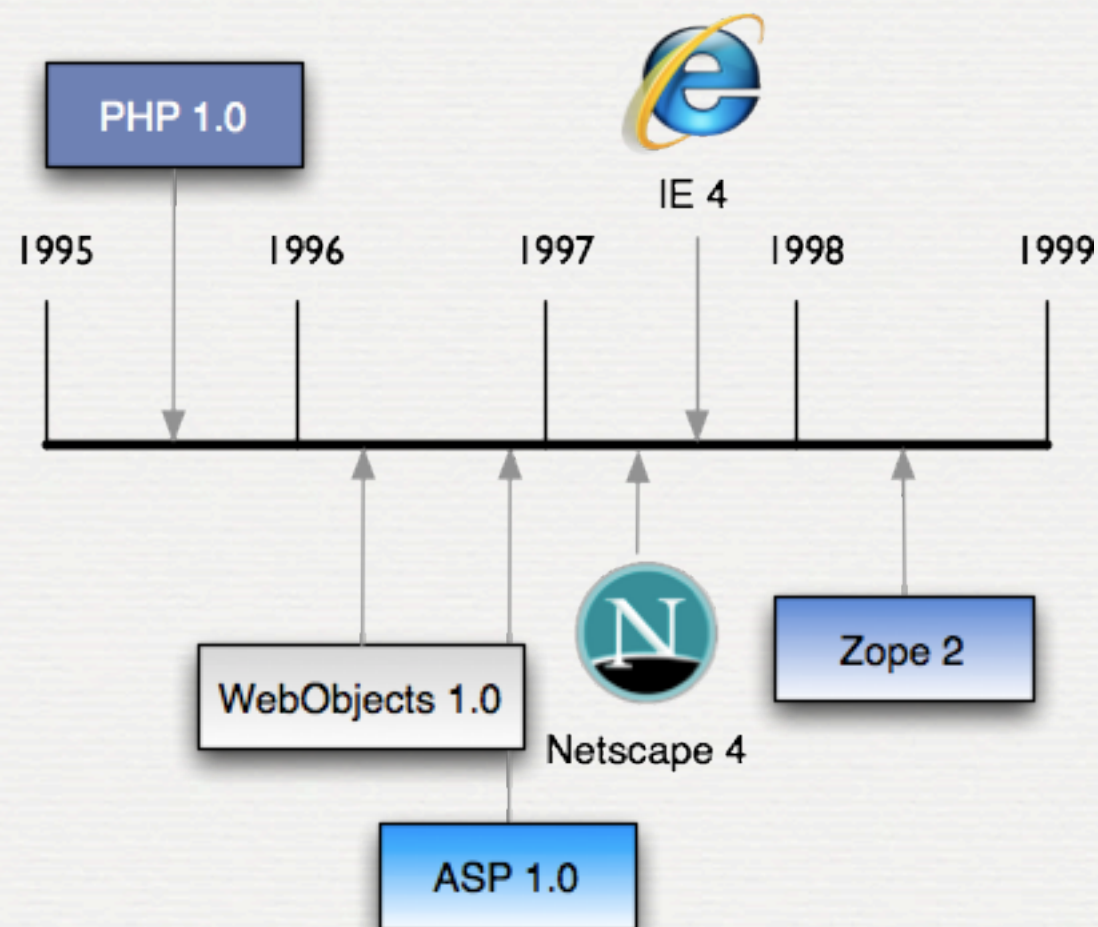
- PHP

- AJAX

- Rails -> Grails

- RESTify!

- SOFEA, APIs, etc.
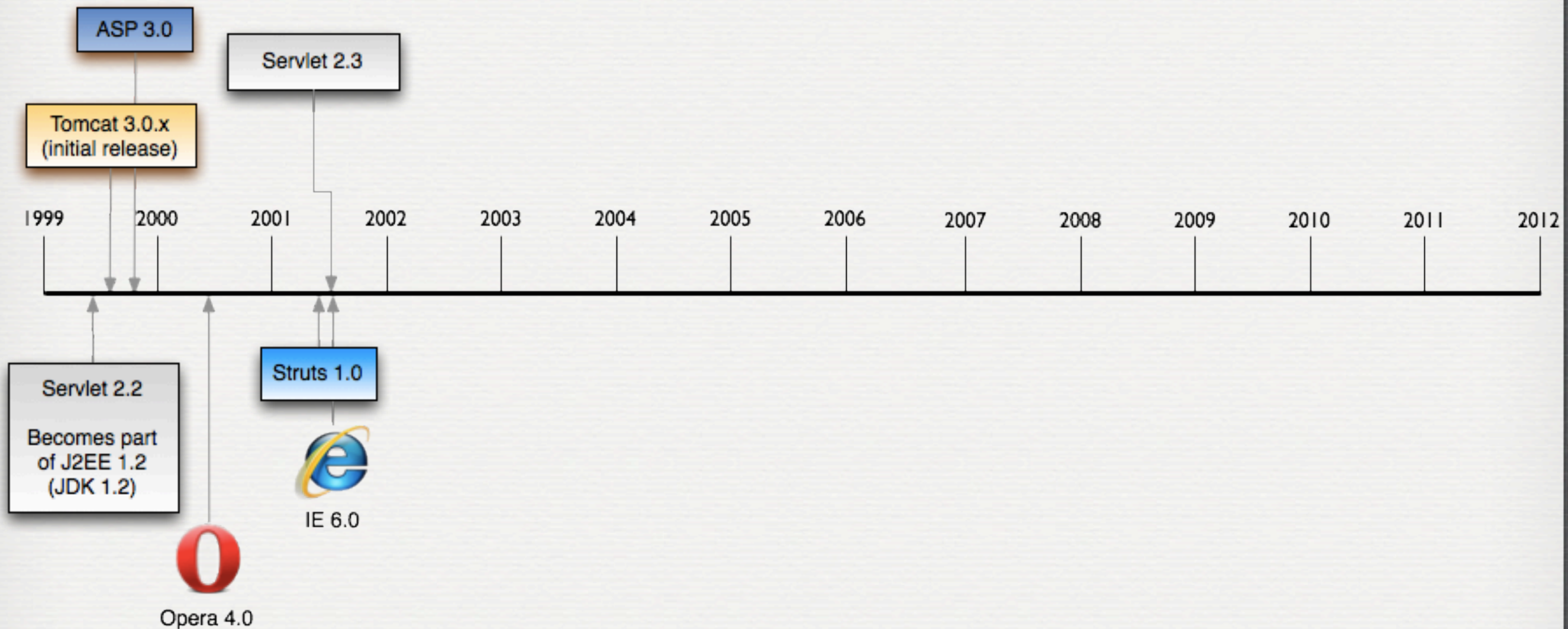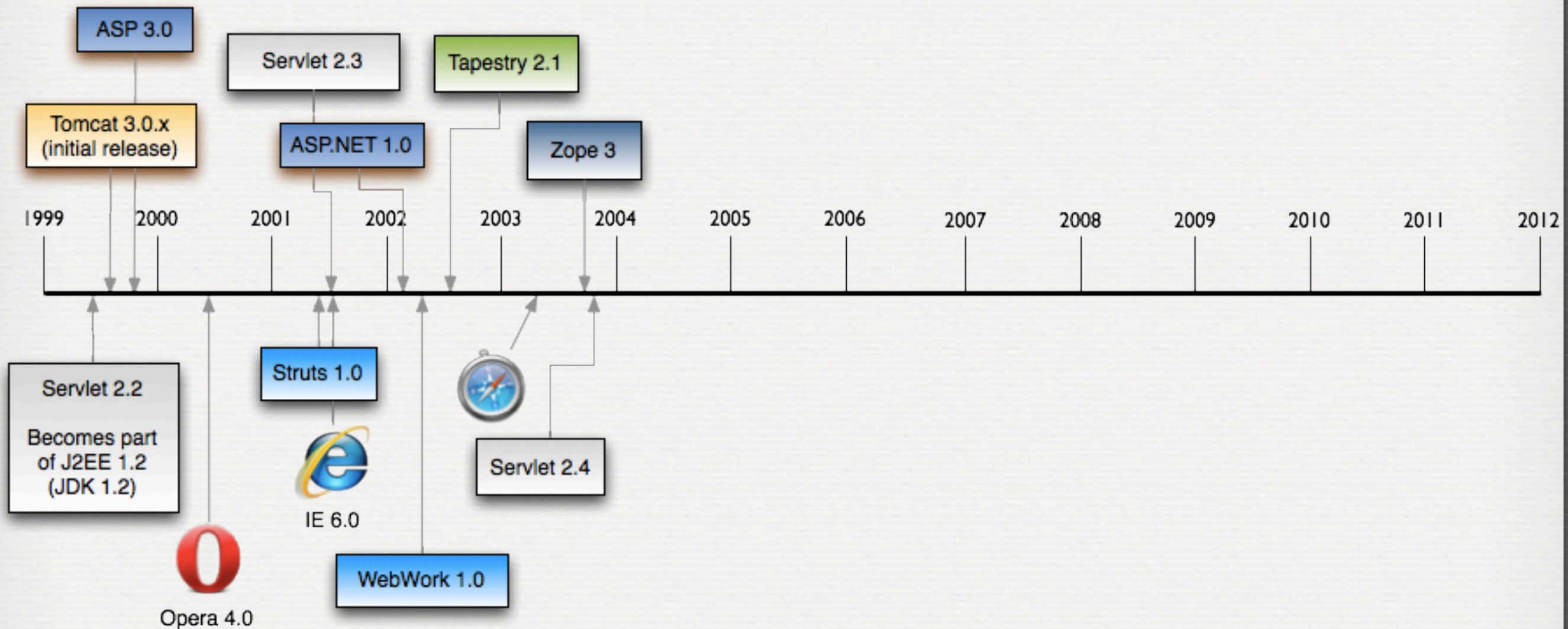
HISTORY OF
WEB FRAMEWORKS

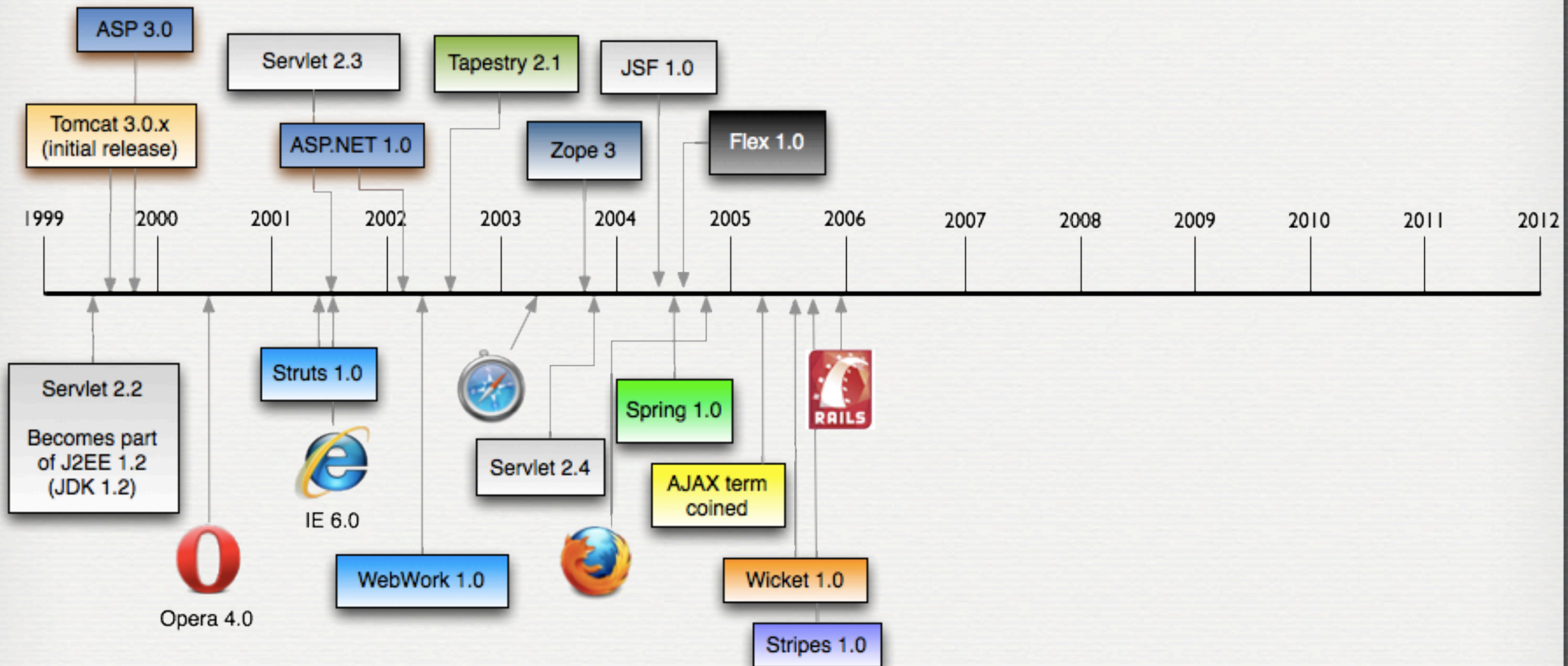# HISTORY OF WEB FRAMEWORKS

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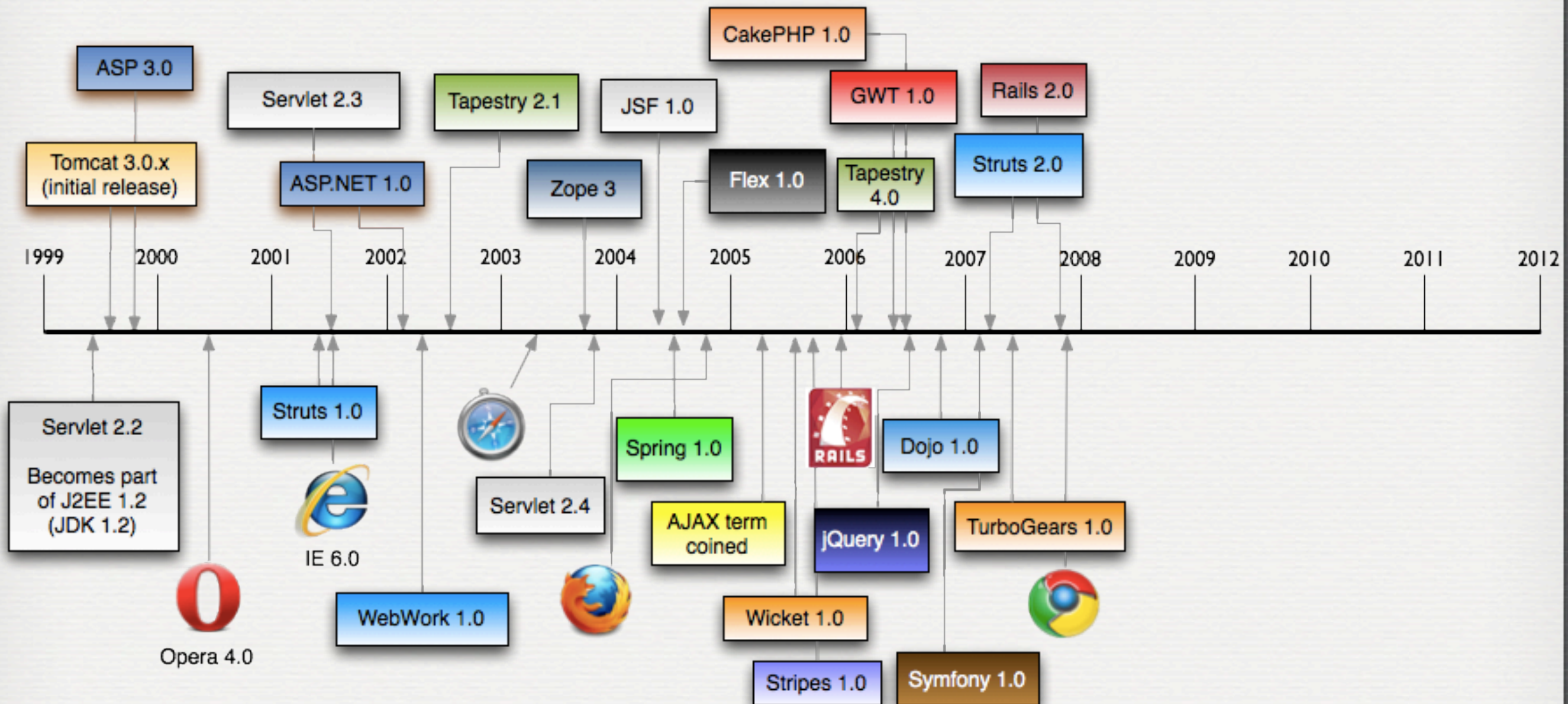
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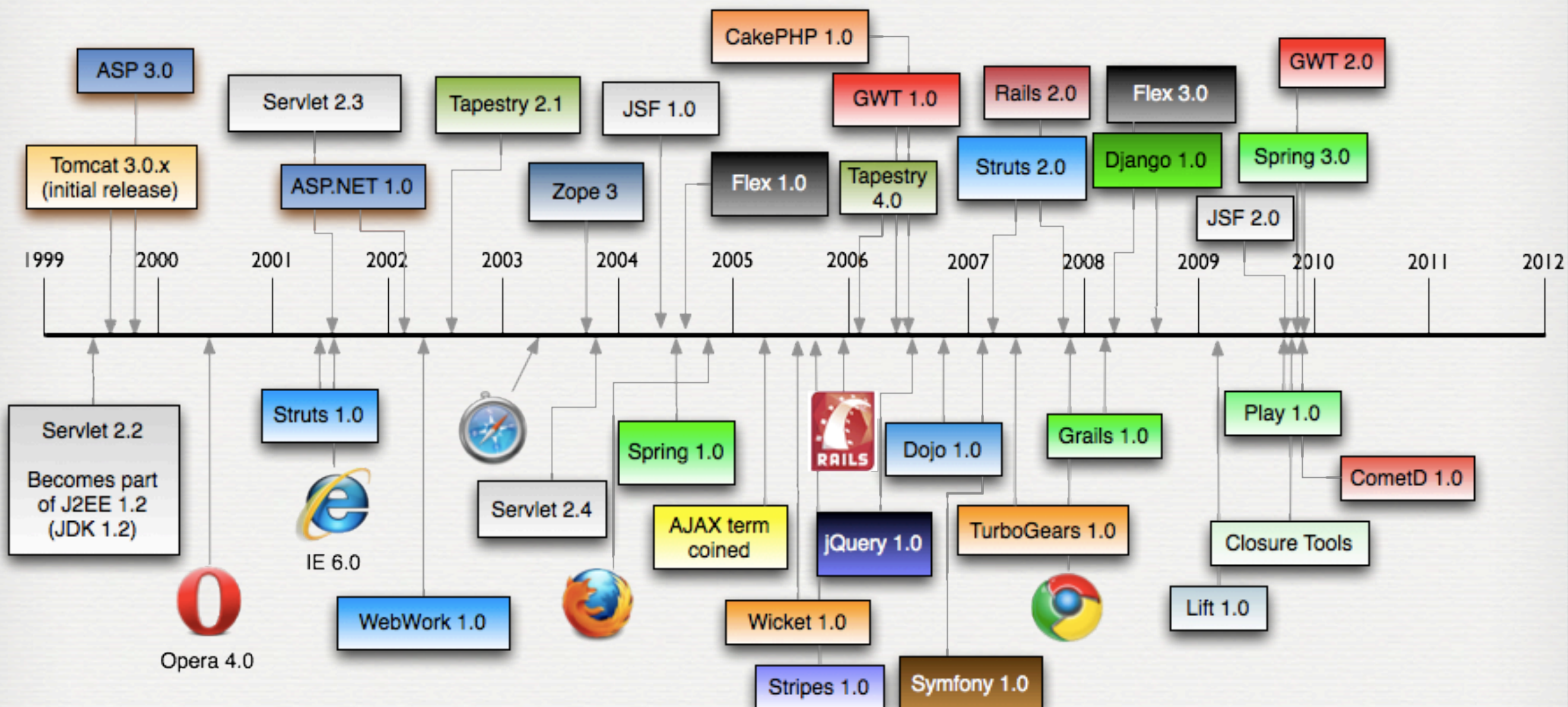
MVC VS. COMPONENTS

Struts

Spring 2.5
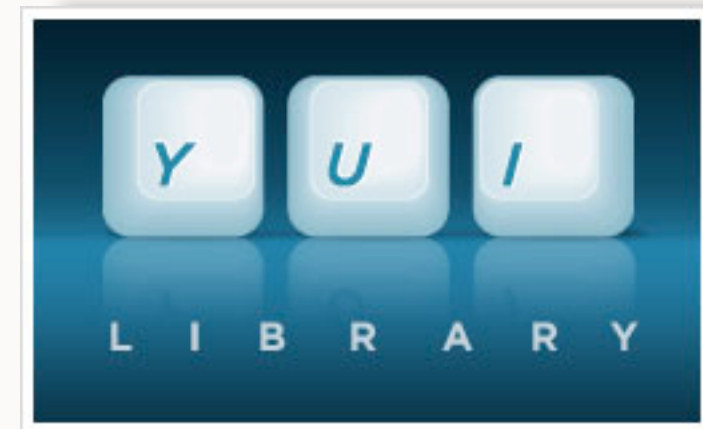
///Stripes

Wicket

tapestry

RAILS

GRAILS

WHAT ARE COMPONENTS?

REST
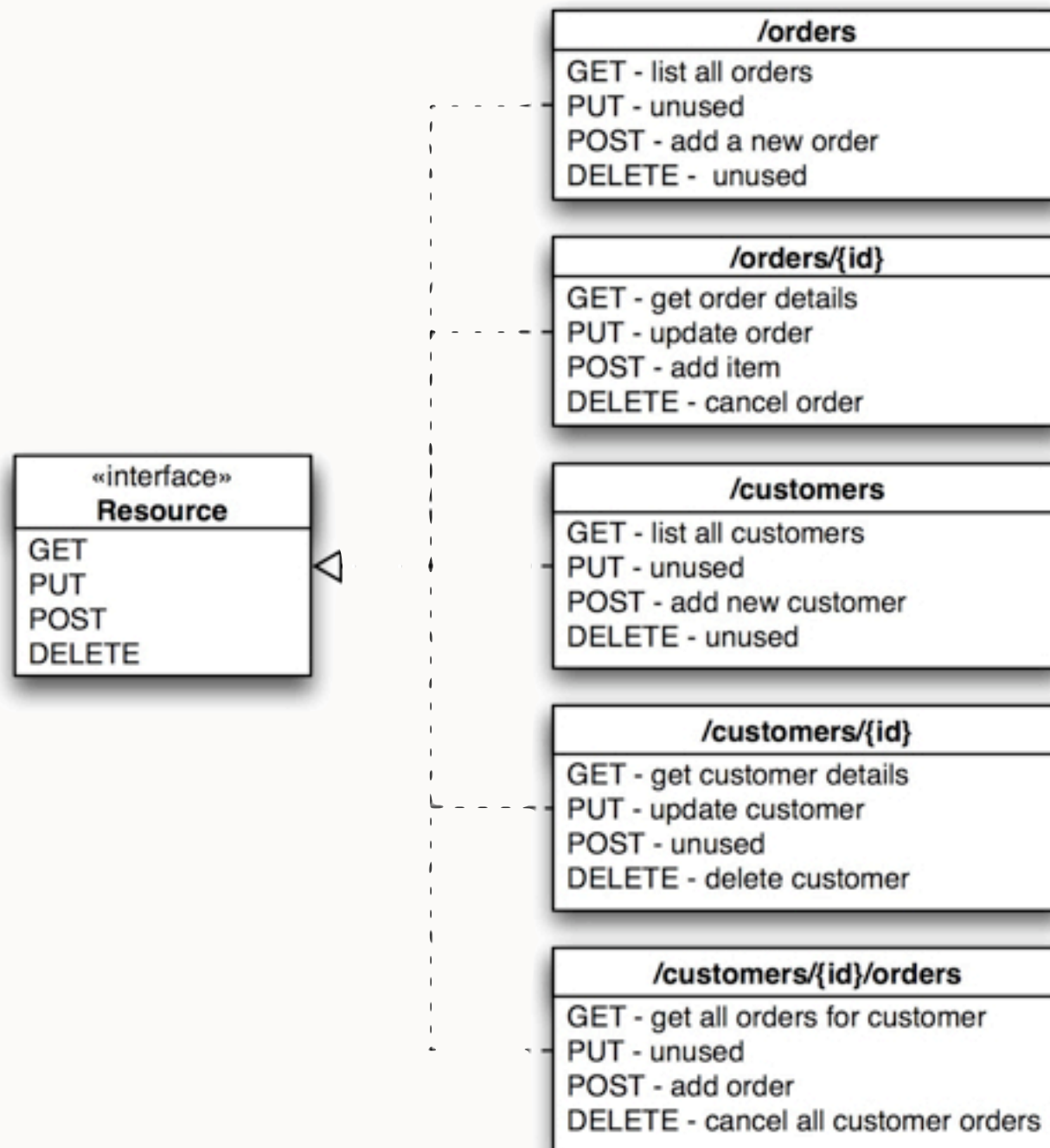
CLUSTERING TO CACHING
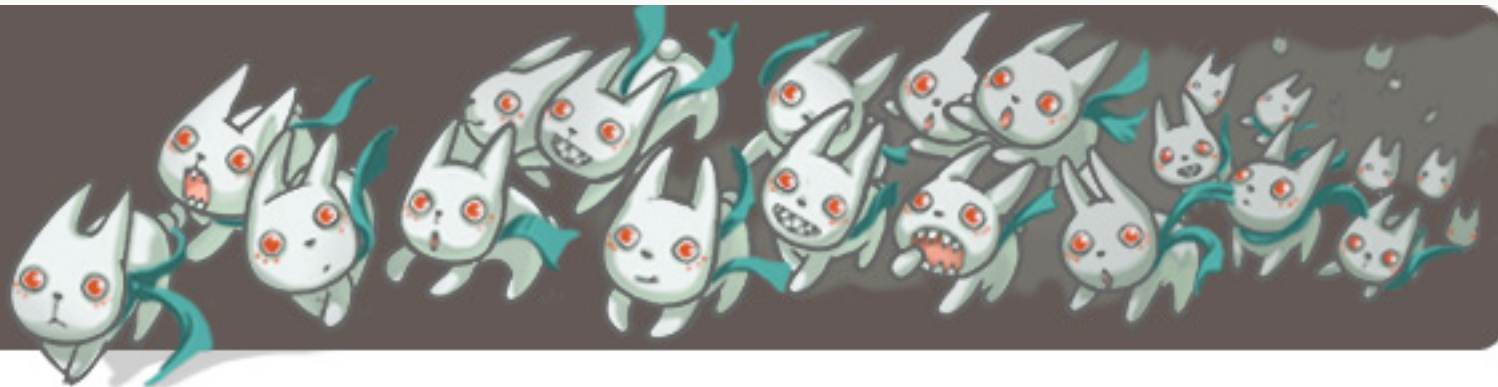
NOSQL

CLOUD
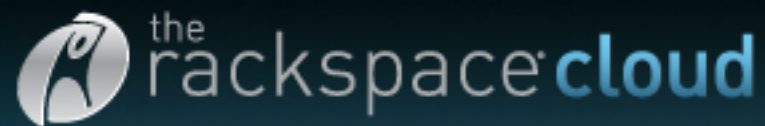
IT'S BEEN PRETTY DAMN AWESOME, EH?

THE FUTURE

What's around the bend?

MOBILE

iPhone
Android
Palm Pre

BROWSERS

Firefox
Safari
Chrome
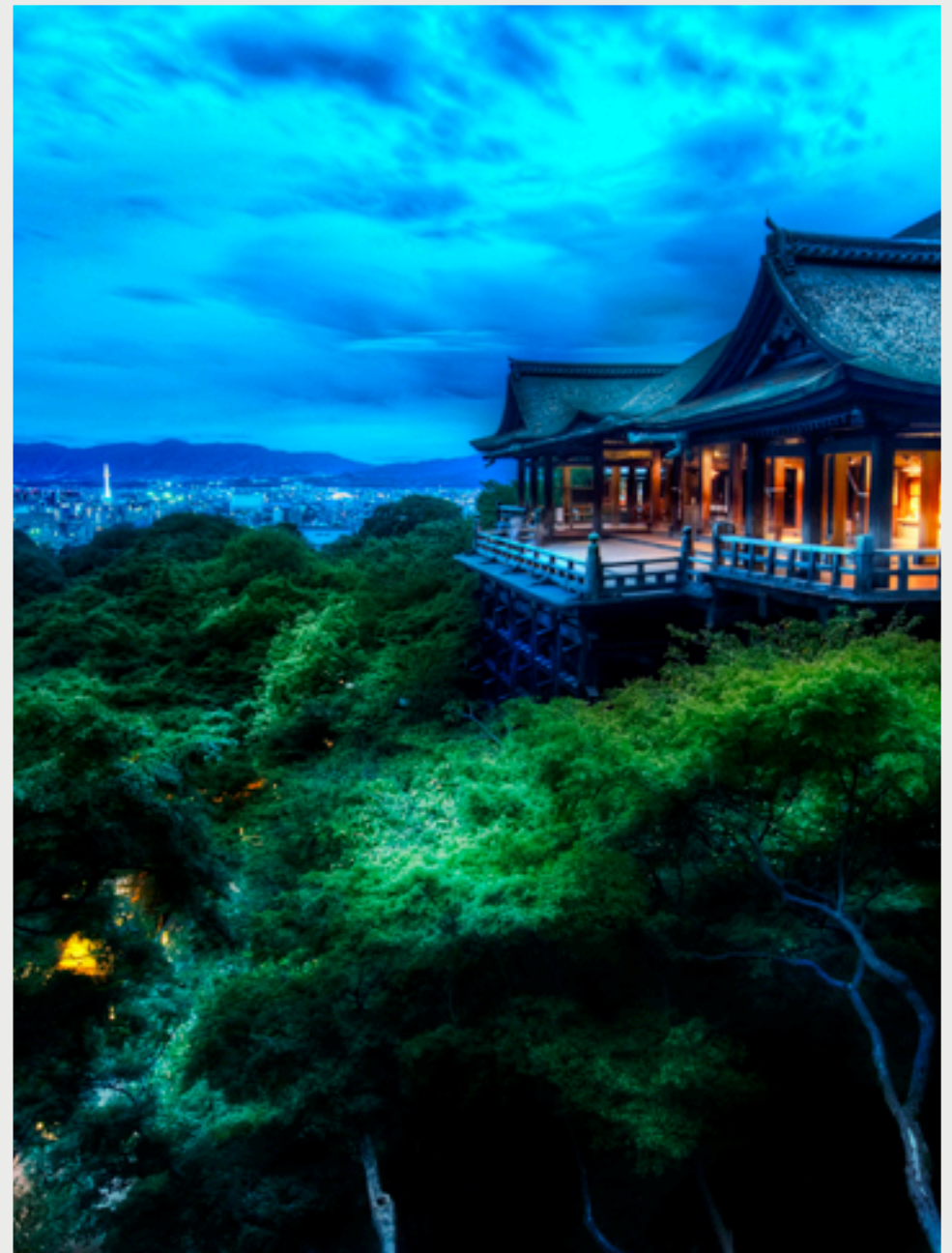
HTML5

Will it eliminate the need for plugins?

SPEED

Client Optimizations
Bandwidth

COMPILERS

GWT
Closure Tools
Cappuccino
HipHop for PHP

DESKTOP WEBAPPS

Adobe Air

Titanium

IPAD

Kids
Books
Video
Internet
Email

VIDEO

Web Browsers on TVs
TV on Laptops
TV on Phones

APP STORES

Facebook
LinkedIn
Google App Marketplace

IS THIS THE FUTURE?

... or the present?

JAVA

IDES

Video: Get Tomorrow Today with NetBeans 6.8

HTML5

HTML5 is being developed as the next major revision of HTML. This code can now be used for new functions that can benefit developers and Internet users.

HTML5 introduces a number of new elements and attributes. Here are the most important of them:

<HTML>

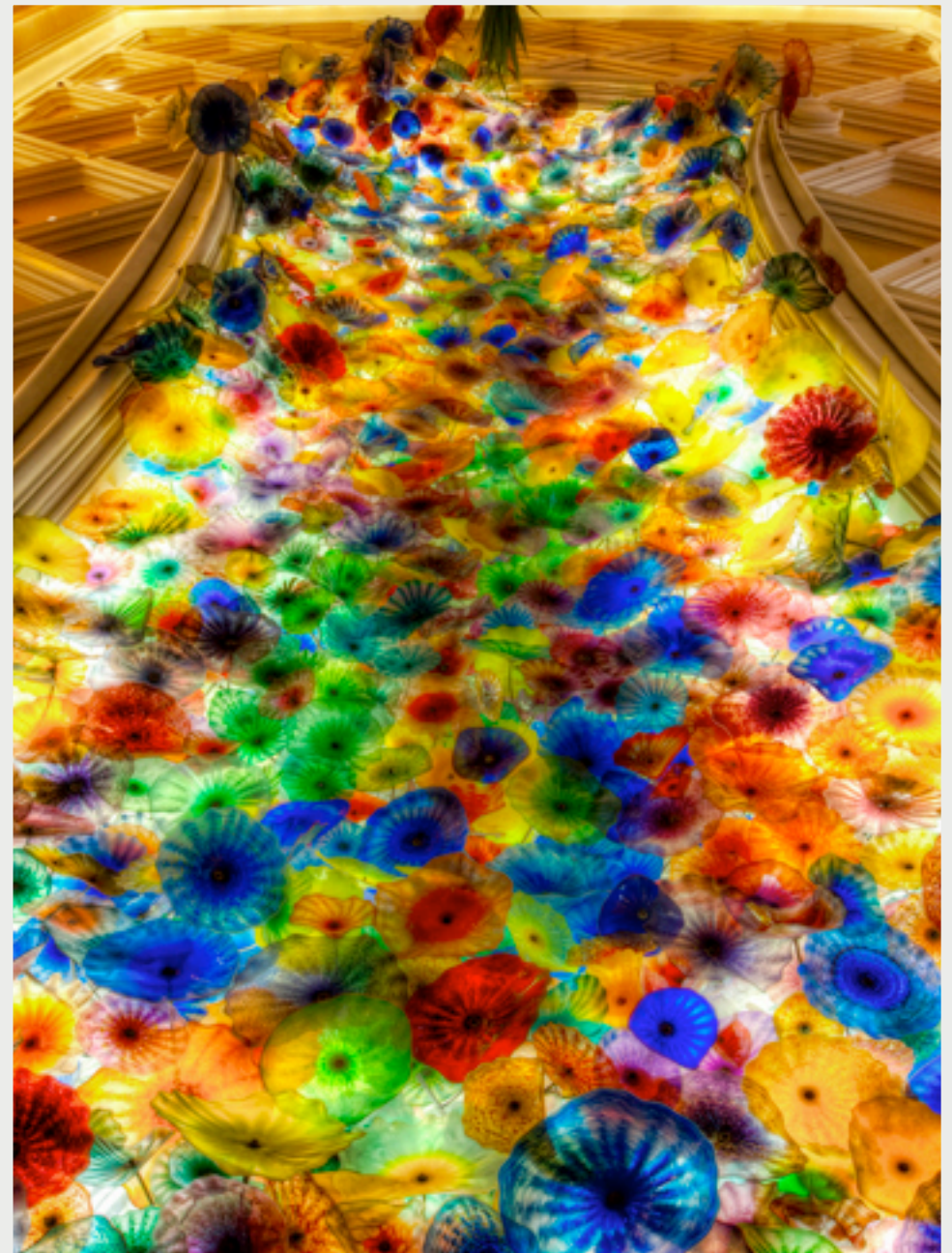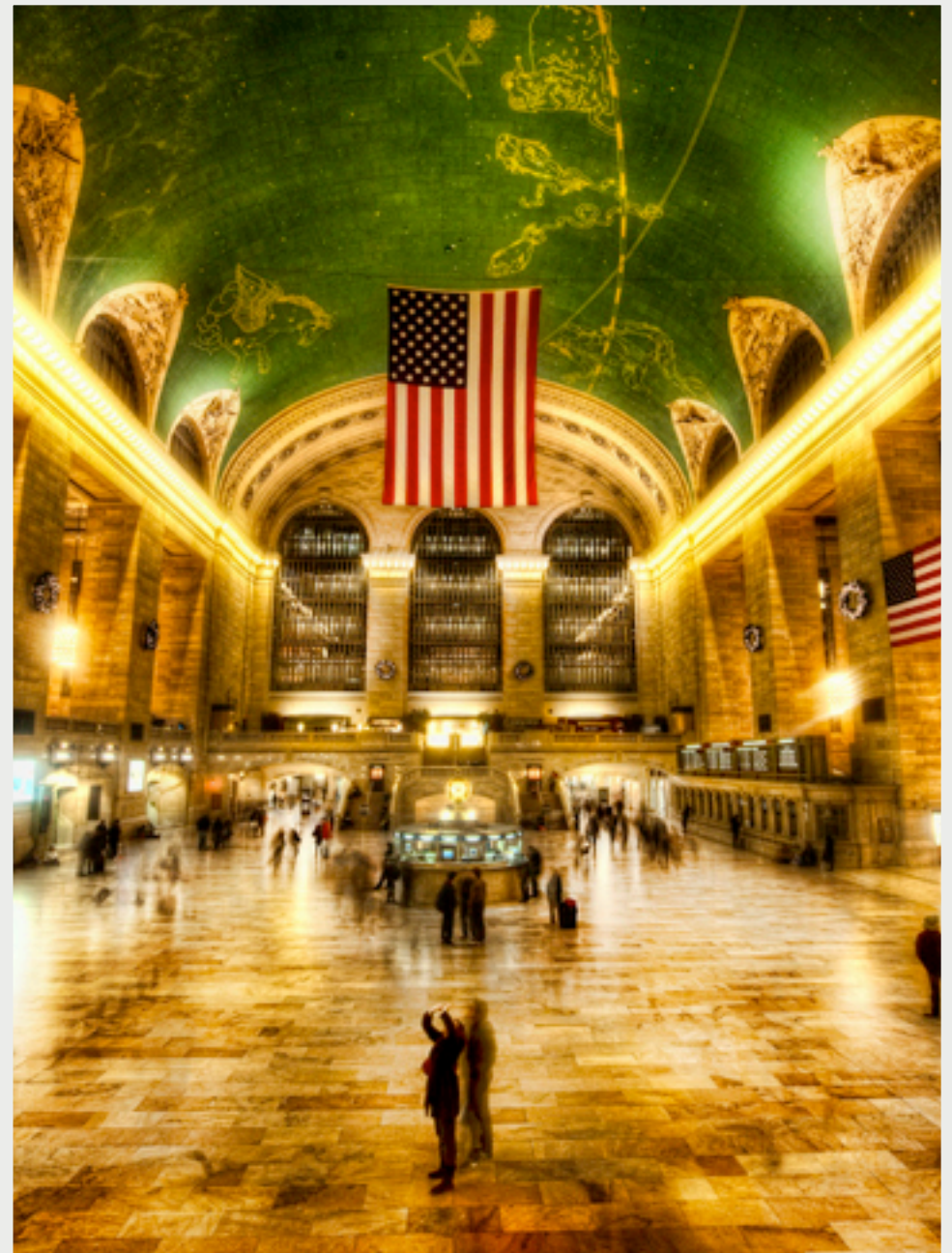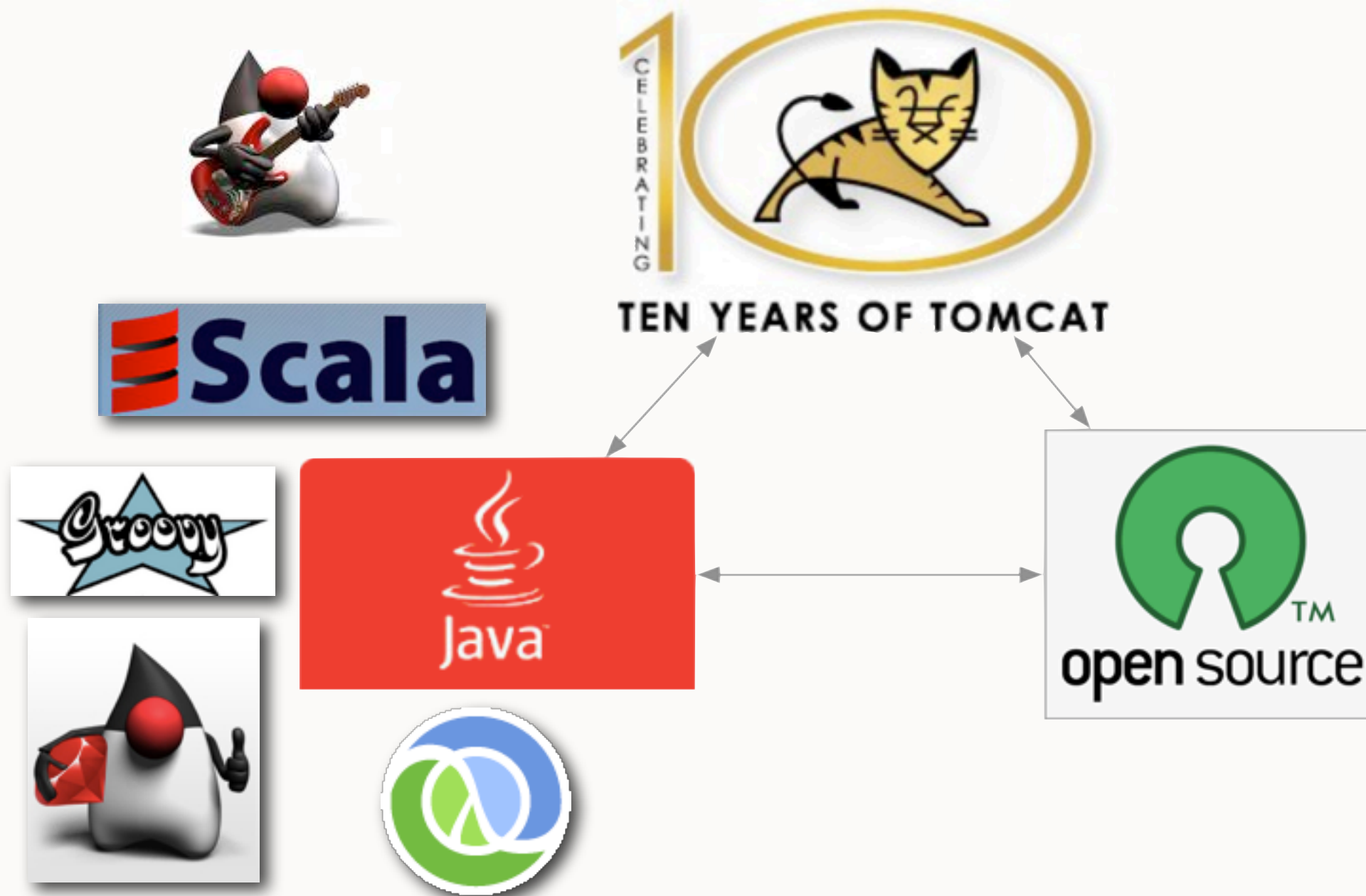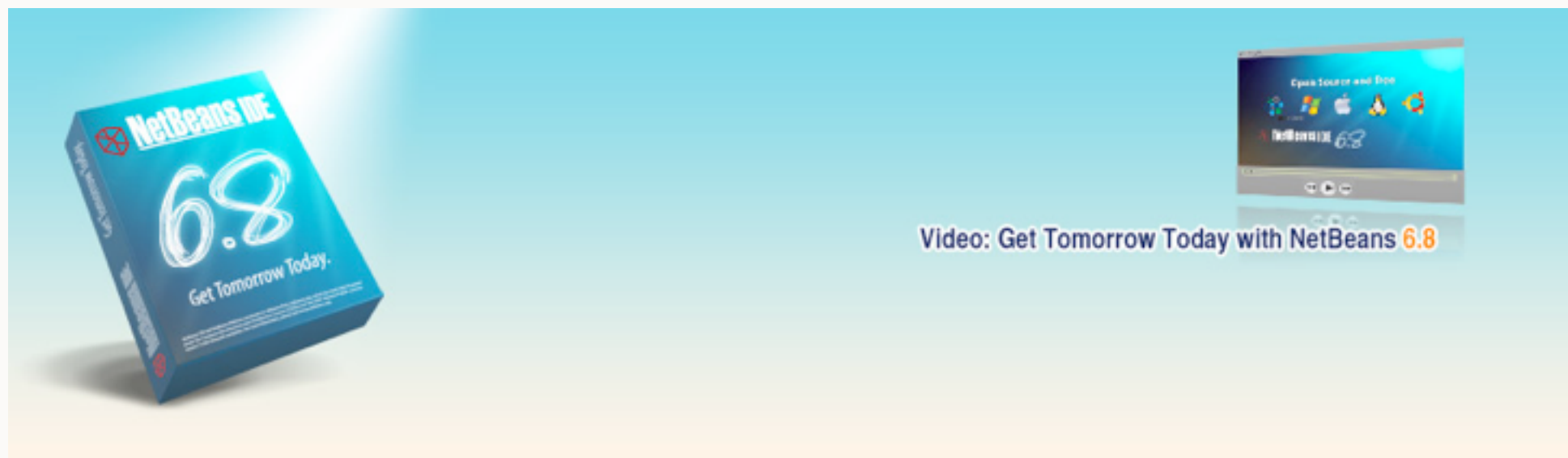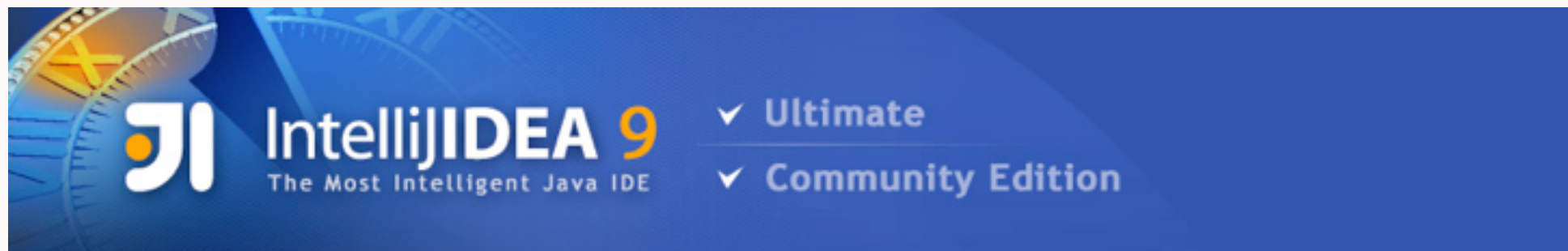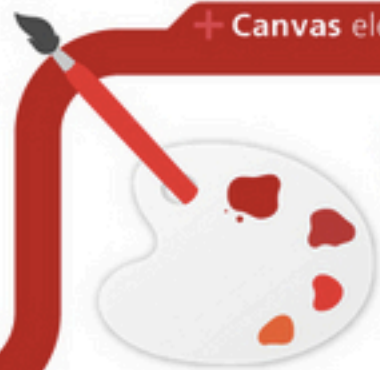How does this matter to you? You will notice that daily web activities such as uploading YouTube videos to your blog and finding a specific store in your browser on your smartphone will become easier. This means you can have a rich experience on a light, portable, universal platform.

+ Canvas element

1 The **canvas element** can be used for rendering graphs, game graphics or other visual images on the fly.

All done without having to rely on plug-ins. The possibilities are endless.

+ Video element

2 Embedding video used to be impossible without third-party plugins such as Apple QuickTime® or Adobe Flash®.

Thanks to **video element**, now it's possible. It is intended by its creators to become the new standard way to show video online.

+ Offline web applications

3 Sniffing a users' location is not a new thing on the web. In fact, most websites already do this by means of IP address detection. But this is not always reliable, so HTML5's **geolocation** is an alternate method of correctly pinpointing a users' location. The new idea is to get the location information from WiFi towers and GPS.

4 The **offline web applications** enable users to continue interacting with web applications and documents even when their network connection is unavailable. The user can, for instance, access email locally without having to connect to the Internet or install an external client.

+ Geolocation

<HTML5>

$ Which one is cheaper?	⚡ More powerful?	✓ More accepted?	💡 More efficient?
Flash X HTML5	Flash X HTML5	Flash X HTML5	Flash X HTML5
❌ Paid ✔ Free	✔ +Effects ❌ -Effects	❌ Limited ✔ Universal	⊖ Efficient ⊖ Efficient

JS ON MOBILE IS SLOW

Thursday, May 6th, 2010

iPad JavaScript Shockingly Slow?

Category: **JavaScript**, **Mobile**, **Performance**

Douglas "My Guns Are Bigger Than Yours" Crockford sent us a pointer to Moonwatcher's post on entitled "My MacBook Pro runs JavaScript 26.7x as fast as my iPad".

JavaScript Performance

Source: globelogger.com

http://ajaxian.com/archives/ipad-javascript-shockingly-slow
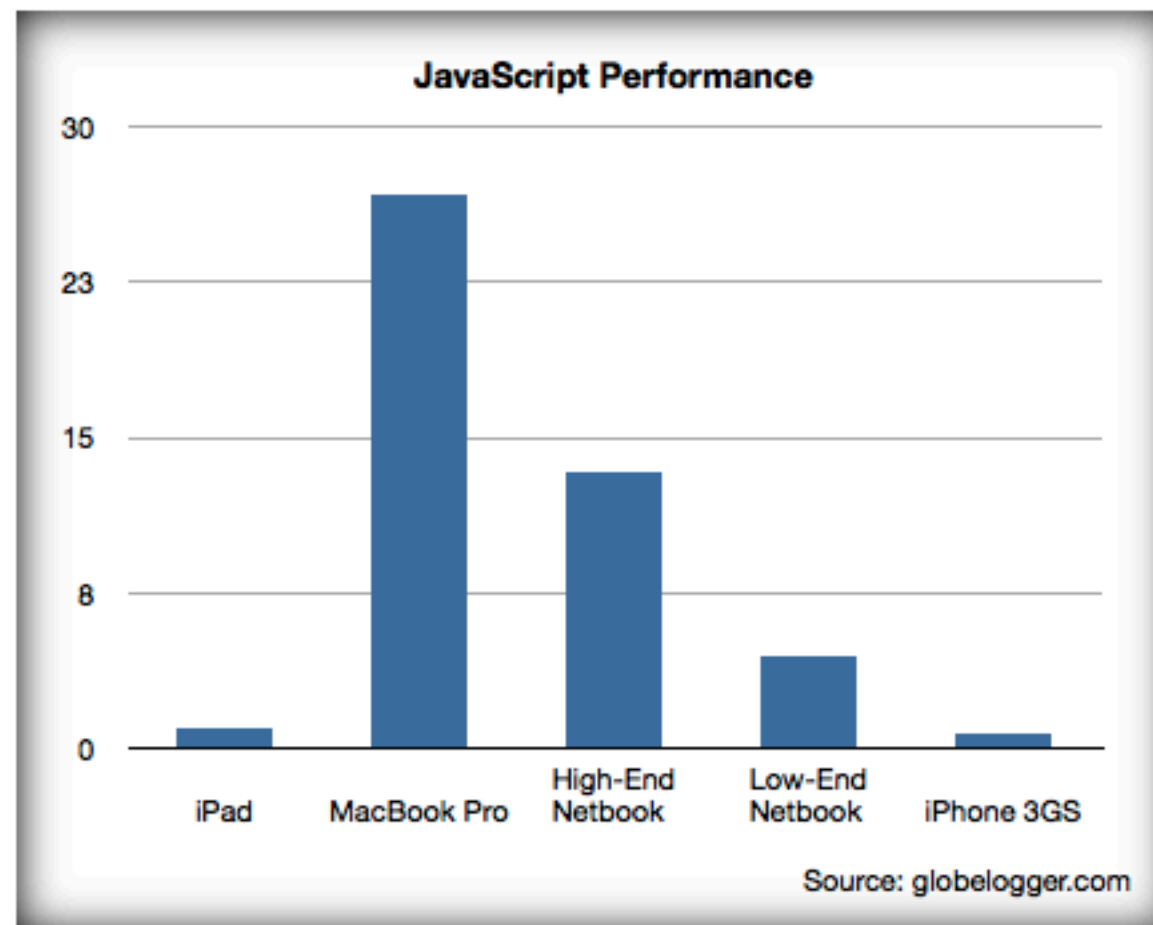
MAKING JS FASTER

Making an iPad HTML5 App & making it really fast

June 4th, 2010 by Thomas Fuchs, 16 comments »

About a month ago or so, Amy and I release a little (literally, it's about 5k) HTML5 iPad App for looking up time zones. I don't mean select-box wasteland like all other time zone sites (who likes select boxes anyway?!), I mean a nicely polished, touch-enabled UI that works offline, too.

The site uses no images ('cept for the ad), no JavaScript framworks, and no external CSS, and fits quite comfortably in a few k's of gzipped HTML.

First visit the site on your iPad (desktop browsers work, too!), and play around with it a bit.

GO NATIVE

iPhone SDK 4 GM seed

With a rich set of over 1500 new APIs, iPhone SDK for iOS 4 provides you with an amazing range of technologies to enhance the functionality of your iPhone and iPod touch apps. iPhone Developer Program members can visit the iPhone Dev Center to download the iPhone SDK 4 GM seed now.

Get Started

iPhone SDK 4 GM seed is available for download to members of the iPhone Developer Program. Not a member? Learn more ▶

Get Android 2.2!

The Android 2.2 platform is now available for the Android SDK, along with new tools, documentation, and a new NDK. For information about new features and APIs, read the version notes.

If you have an existing SDK, add Android 2.2 as an SDK component. If you're new to Android, install the SDK starter package.

FUTURE FRAMEWORKS

- The survivors will...

    - Take site speed seriously

    - Support plugins

    - Build on past success

    - Will be both conservative and edgy

    - Encourage new thinking

    - Support mobile, touch screen and desktop

2011++

- IE 6 dies (hopefully!)

- HTML5 will have issues

- Ajax Frameworks will continue to innovate

- Interest in server-side frameworks will continue, but innovation will slow

- Desktop, Mobile and TV will be done with web technologies

HOW DO WE GET THERE?

- It's all about the APIs.

    - A good API allows for any client

    - Web skills transfer to the desktop - and phones!

    - Speed will continue to be *very* important

- It's all about the Apps.

- Build Them.

MOST IMPORTANTLY

- Hire Smart People
  - Effective Communicators
  - Finishers
- Let them code
- Eliminate Meetings
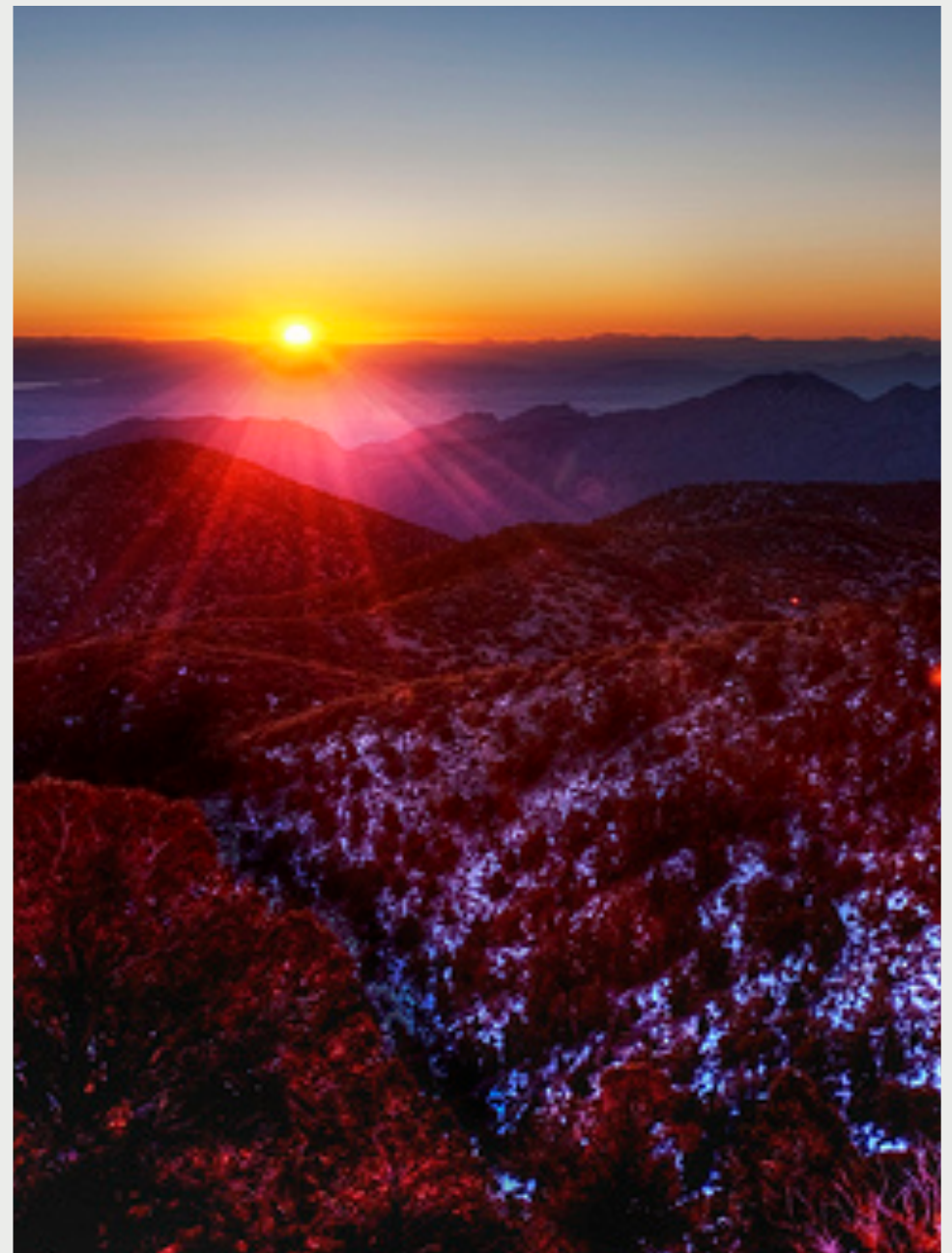- Put them face-to-face and keep it small

CONCLUSION

Web Frameworks can help you build the future. Hire good people. Let them build.

HOT FRAMEWORKS*

- Server
  - Ruby on Rails
  - Grails
  - Spring 3 + JRebel
  - Spring Roo
- Client
  - GWT
  - Flex
  - jQuery

* From a Java Developer's Perspective

QUESTIONS?

Contact Information

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http://twitter.com/mraible

Download Presentation

http://slideshare.net/mraible