5.– 8. September 2011 in Nürnberg



Wissenstransfer par excellence

Klassenkampf

Enterprise IT vs. WWW

Stefan Tilkov

innoQ Deutschland GmbH

Herbstcampus

Stefan Tilkov | innoQ Web vs. Enterprise IT













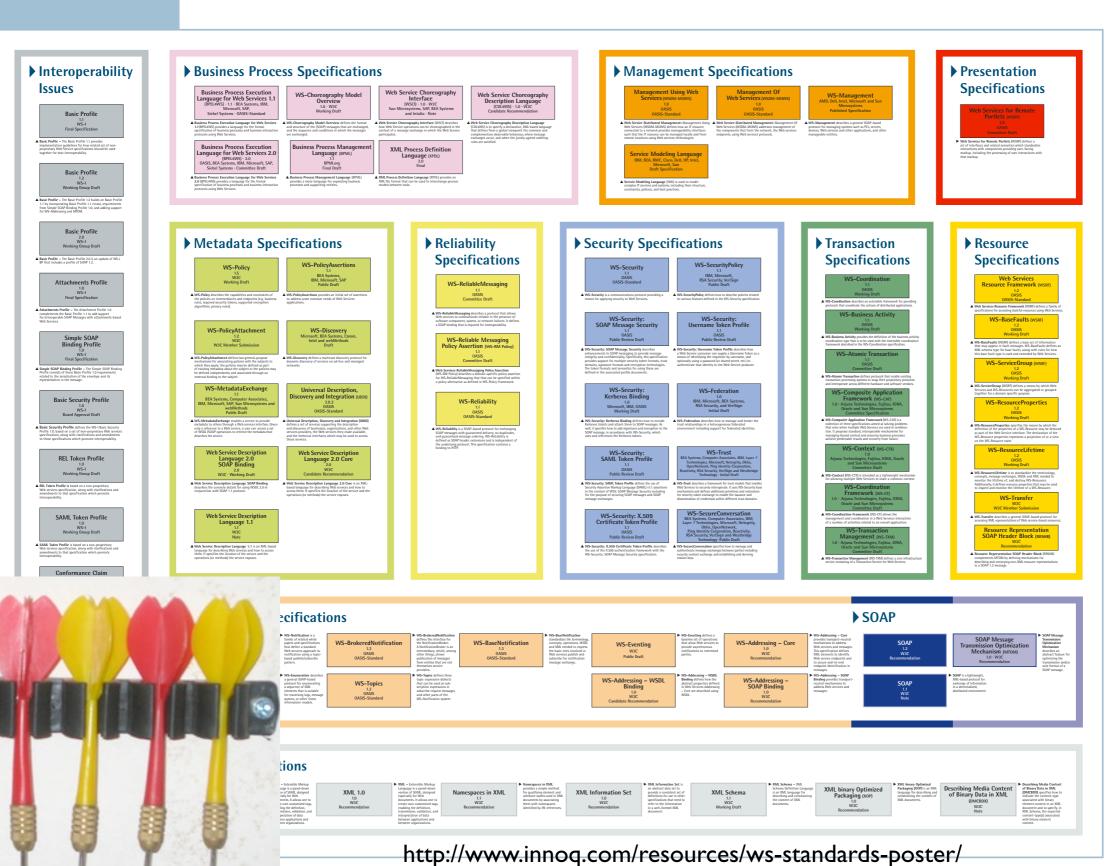






"Add the missing parts to the Web"

Web Services Standards Overview







innoQ Deutschland GmbH Halskestraße 17 D-40880 Ratingen Phone +49 21 02 77 162-100 innoQ Schweiz GmbH Gewerbestrasse 11 CH-6330 Cham Phone +41 41 743 01 11

Show me the interoperable, full and free implementations of WS-* in Python, Perl, Ruby and PHP. You won't see them, because there's no intrinsic value in WS-* unless you're trying to suck money out of your customers. Its complexity serves as a barrier to entry at the same time that it creates "value" that can be sold.

Mark Nottingham, formerly BEA, former chair of the WS-Addressing WG http://www.mnot.net/blog/2006/05/10/vendors



http://soa-expertenwissen.de





URIs Identifies Resources

http://example.com/orders?year=2008

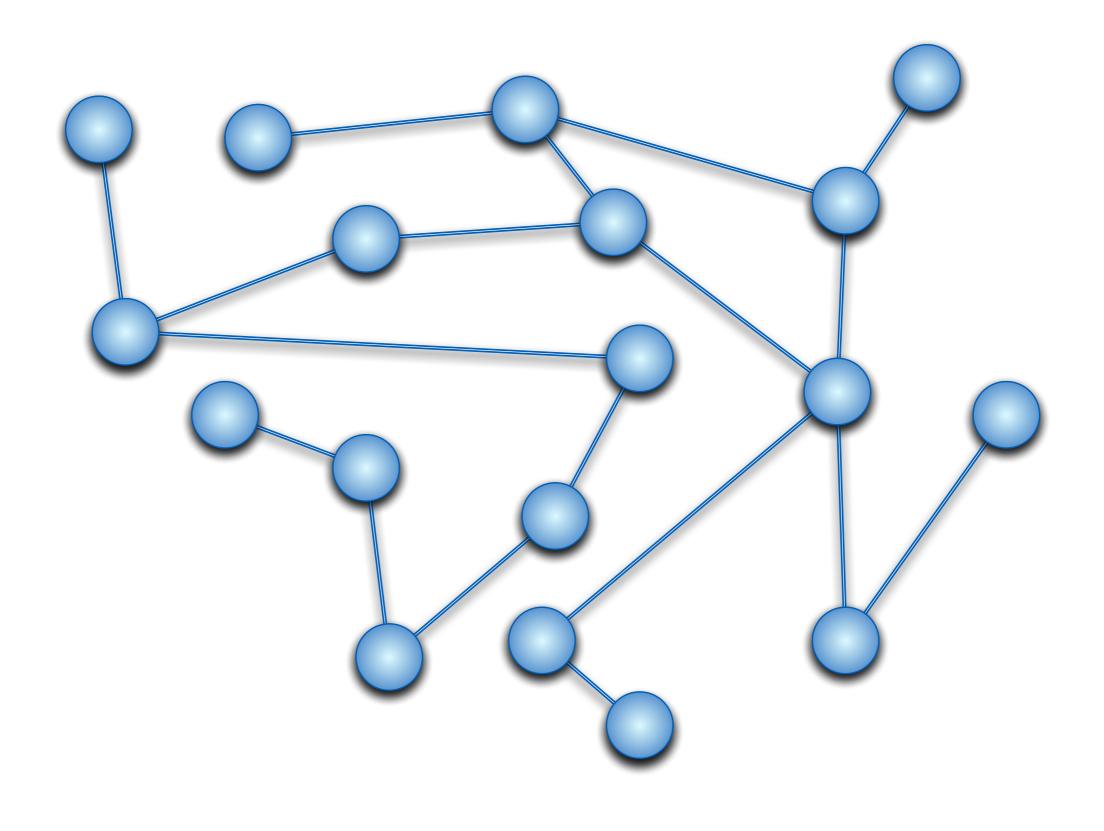
http://example.com/customers/1234

http://example.com/orders/2007/10/776654

http://example.com/products/4554

http://example.com/processes/sal-increase-234

Resources are Linked



Representations in different Formats

XML

HTML

XHTML

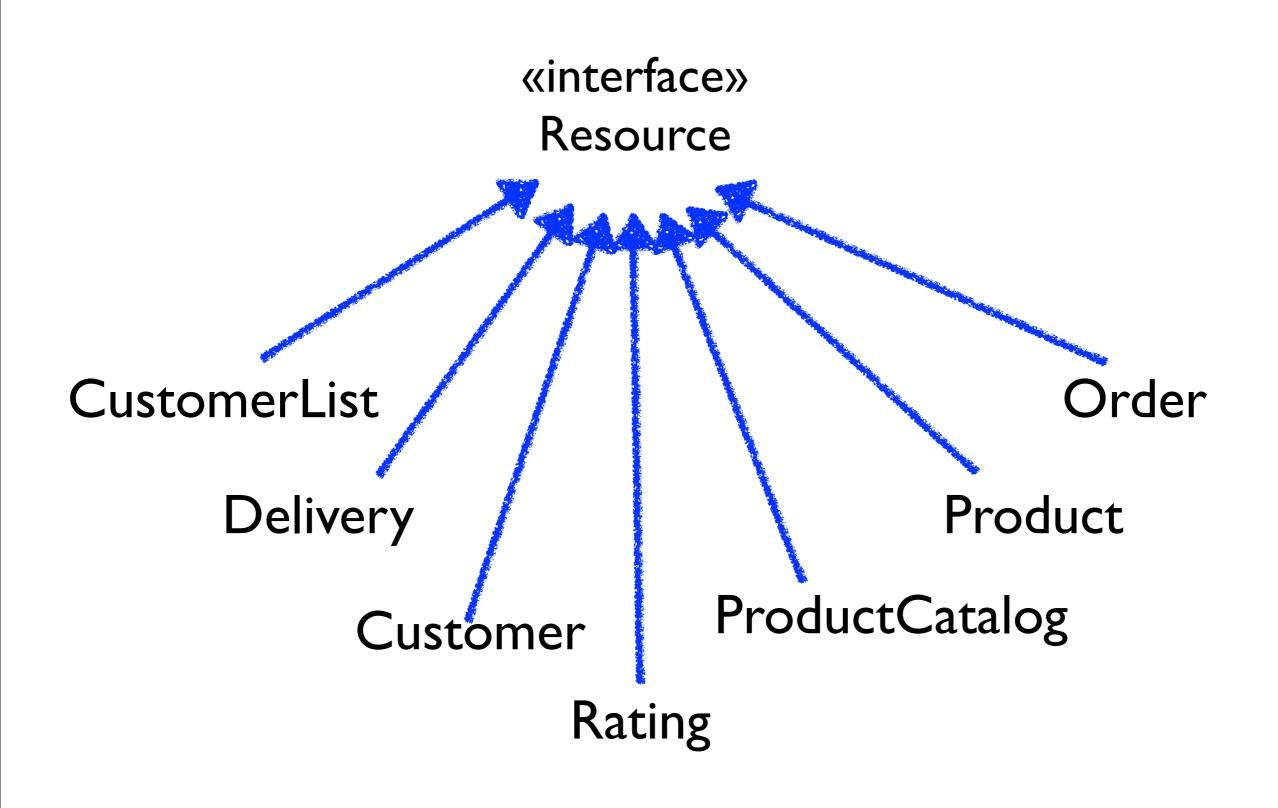
PDF

Plain Text

Binary

YAML

JSON



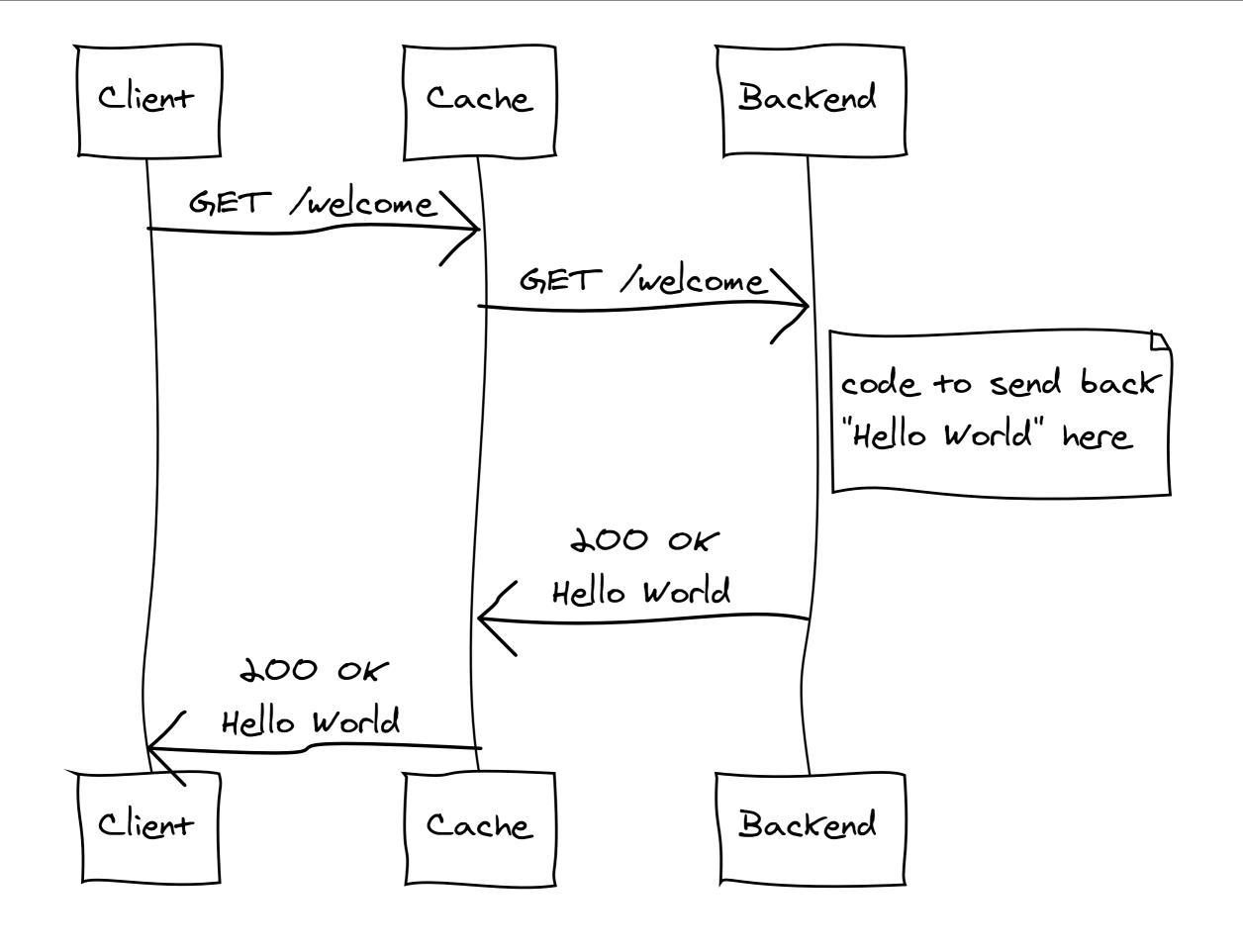
«interface» Resource

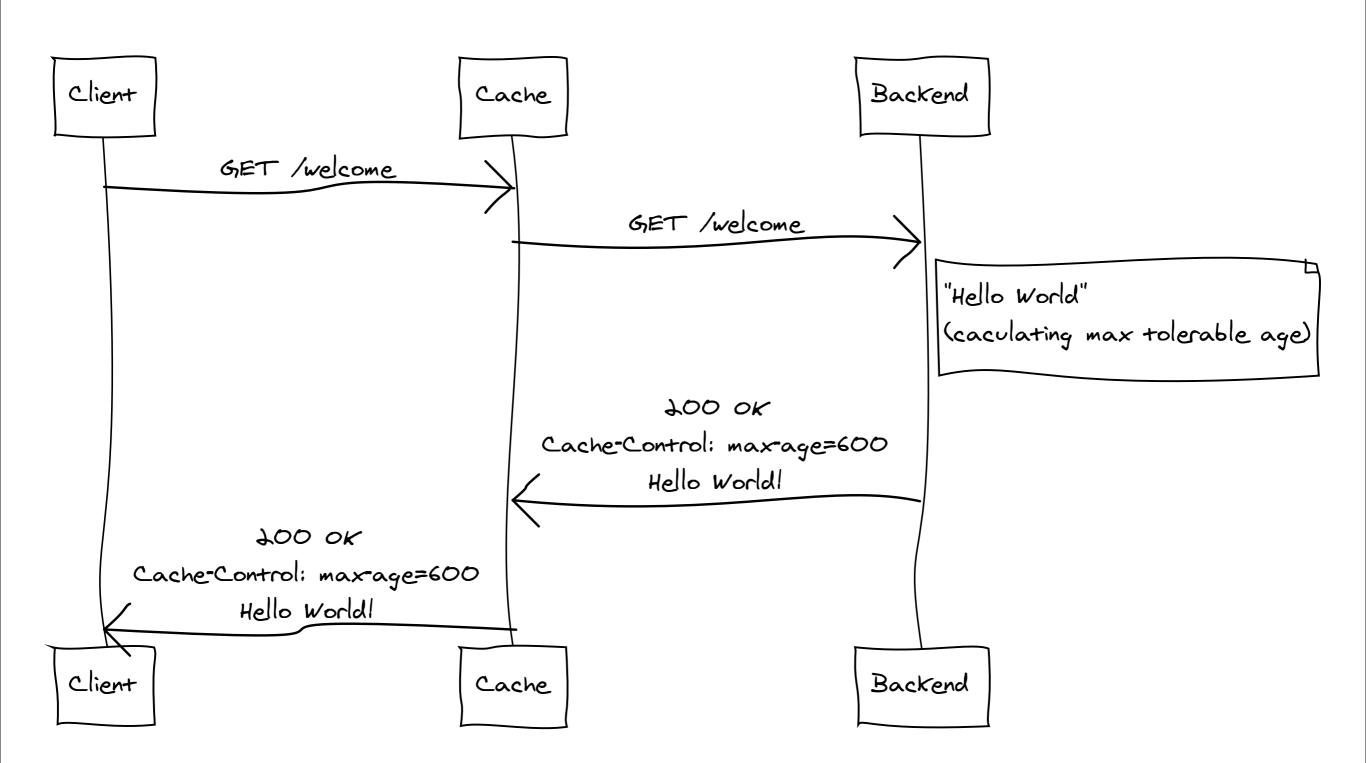
GET
PUT
POST
DELETE

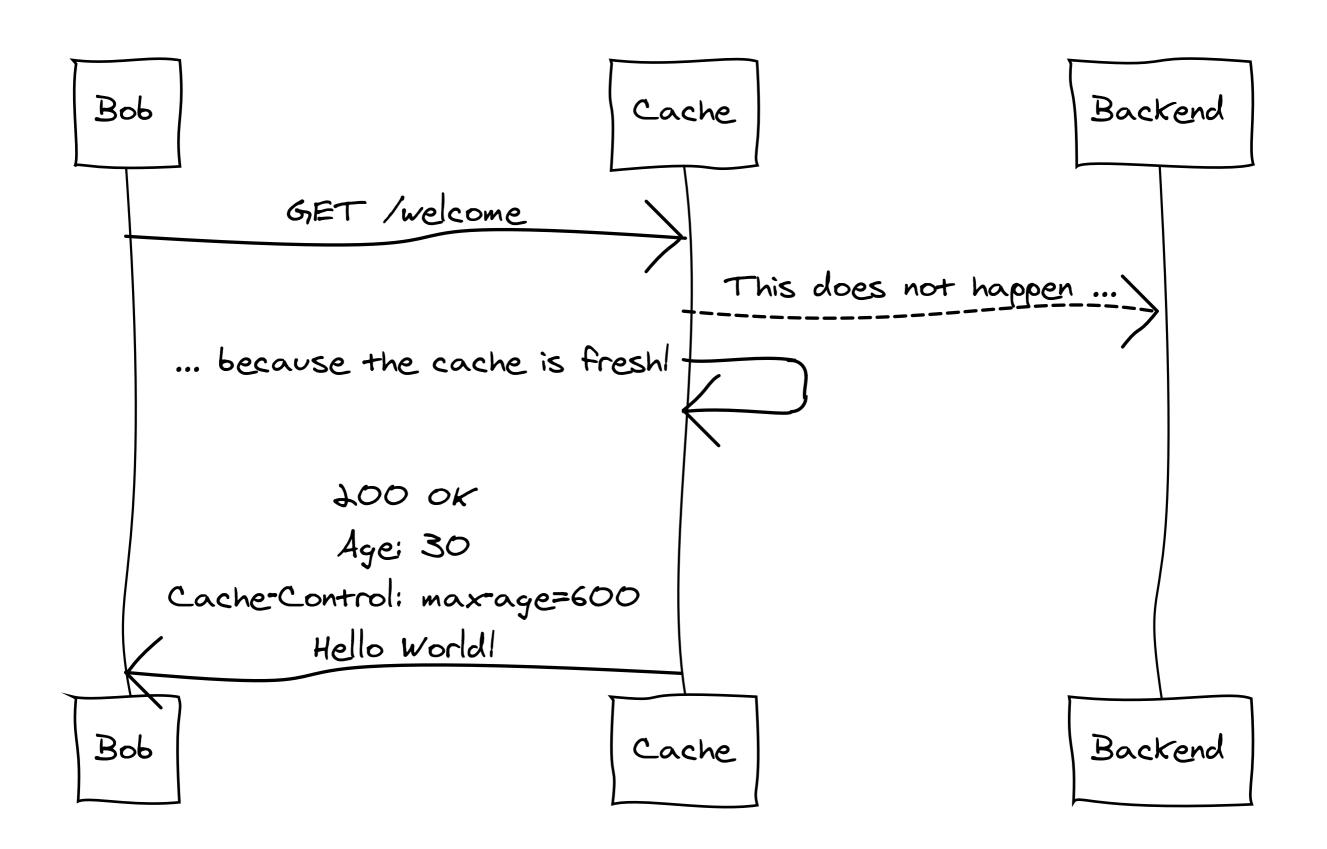


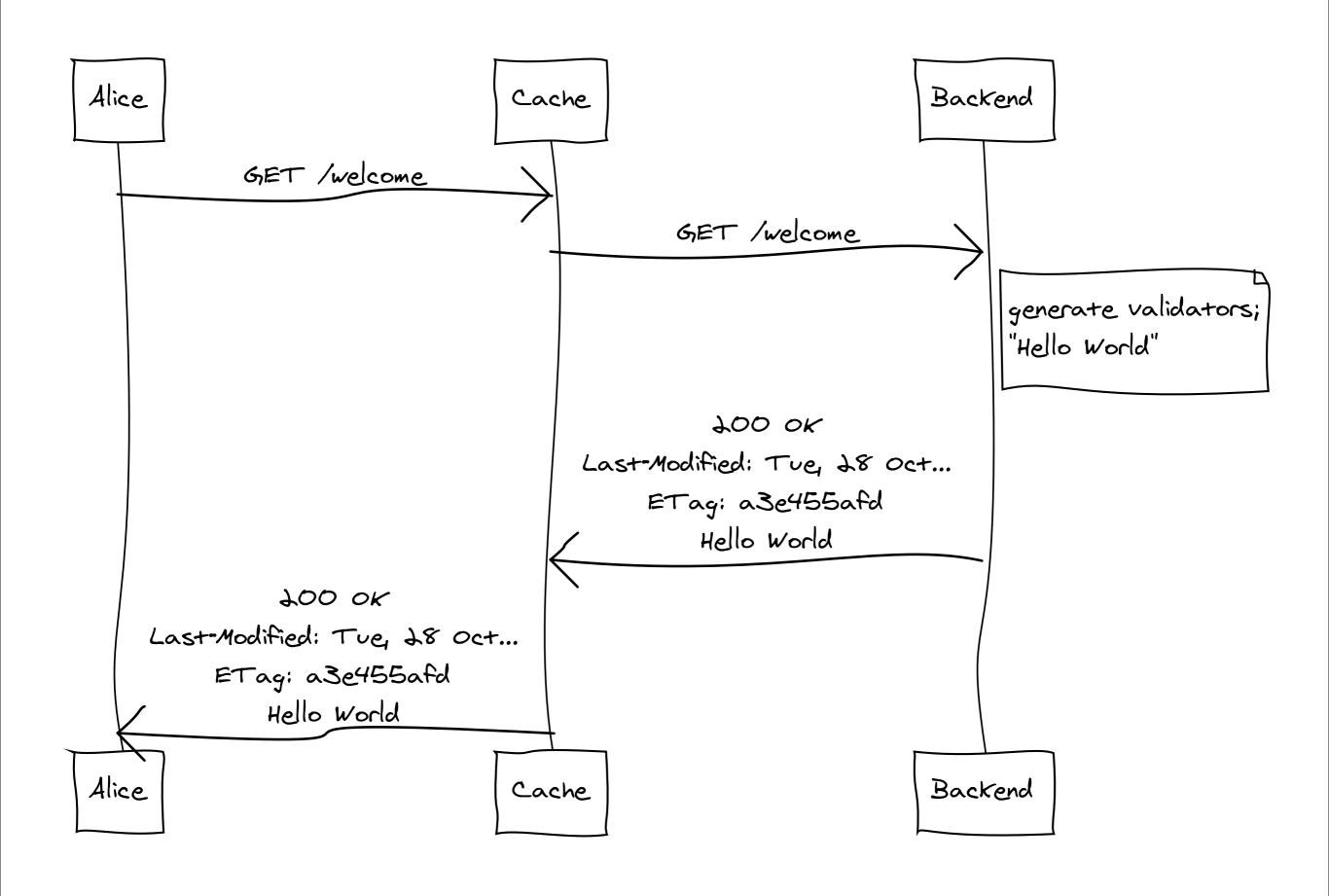
"I do think the REST-afarians are missing an opportunity by not driving home the secret sauce that is HTTP GET. [...] **GET** is one of the most optimized pieces of distributed systems plumbing in the world.

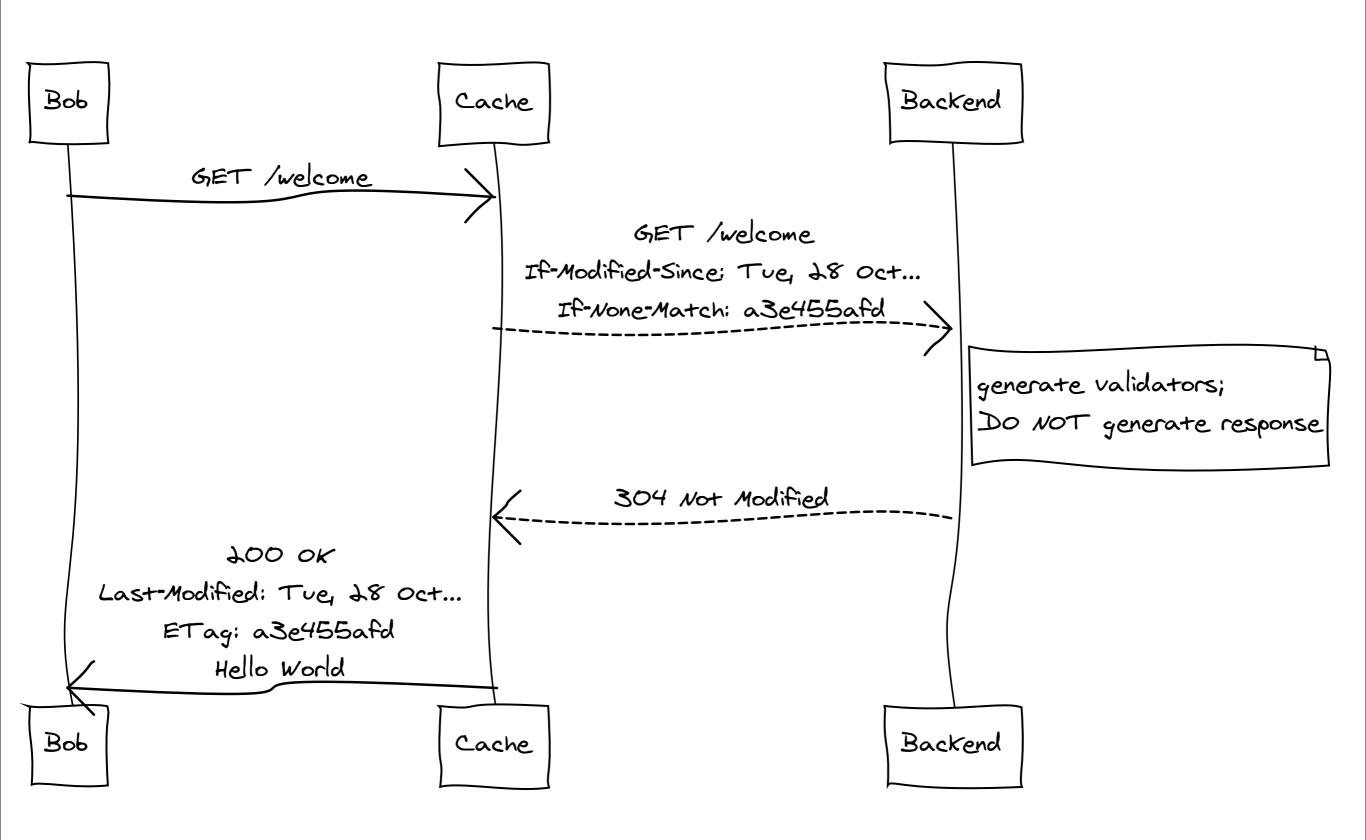
Don Box, Co-inventor of SOAP













(a.k.a. The SOAP Way)

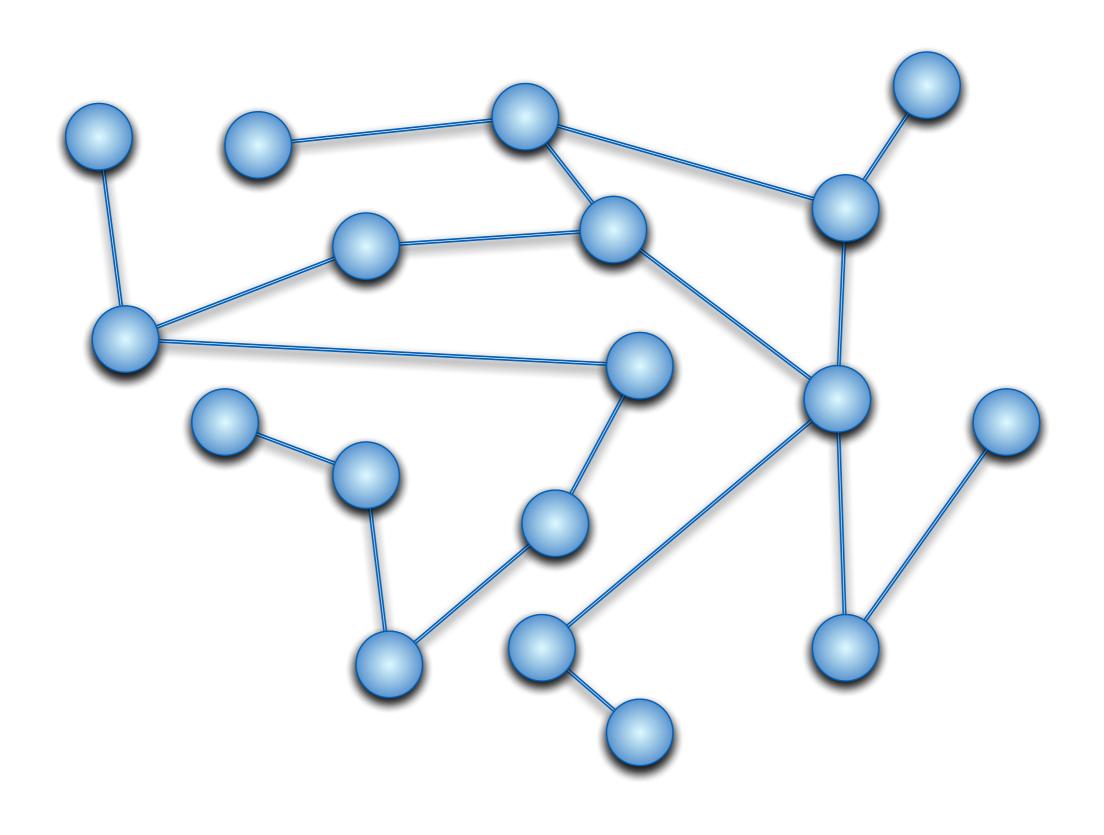
POST(http://example.com/CustomerMgmt) <soap:Envelope</pre> xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"> <soap:Body> cdeleteCustomer xmlns="http://example.com/ns1"> <customerId>13</customerId> </ns:deleteCustomer> </soap:Body> </soap:Envelope> Method Endpoint

"Endpoint"?





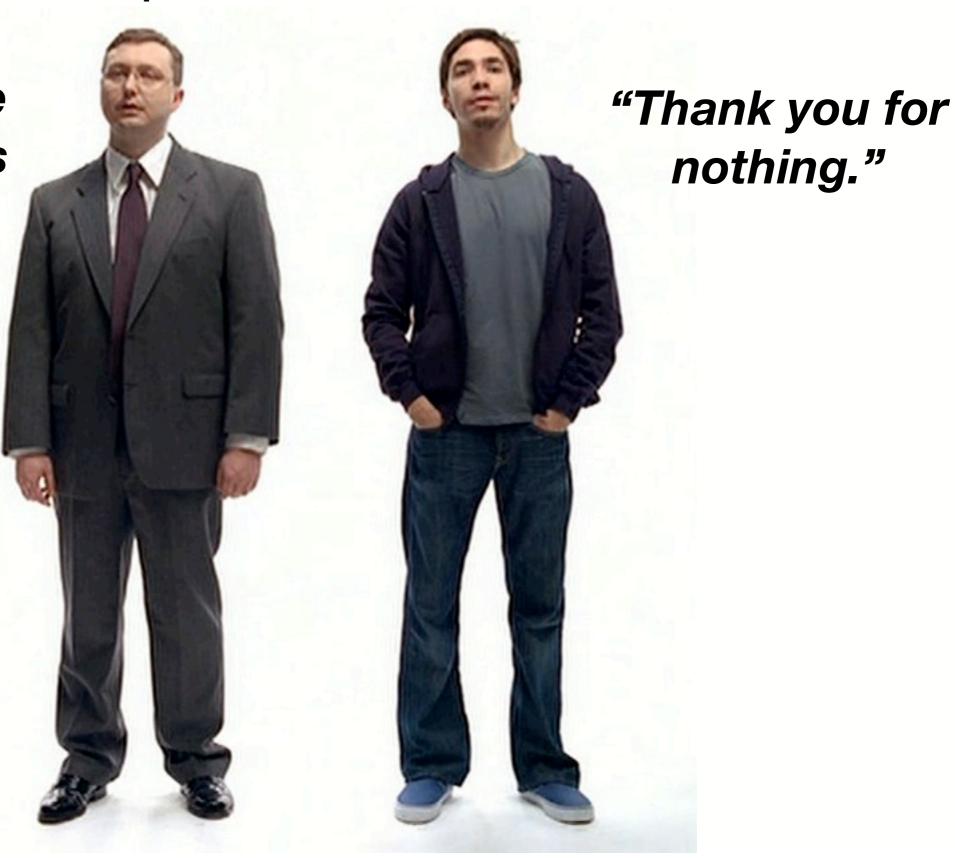
Wednesday, September 7, 11





Web

"Here are the missing parts of the Web!"





http://rest-http.info











facebook





Microsoft®

Resources and URIs **Pretty URLs Bookmarks** Collaboration Caching Links/Hypermedia **Notification via Feeds**

Web Sites vs. Web Applications

Using the Web vs. Abusing the Web

There should be no applications

OrderEntryForm

ProductMaintenanceForm

CustomerView

Order

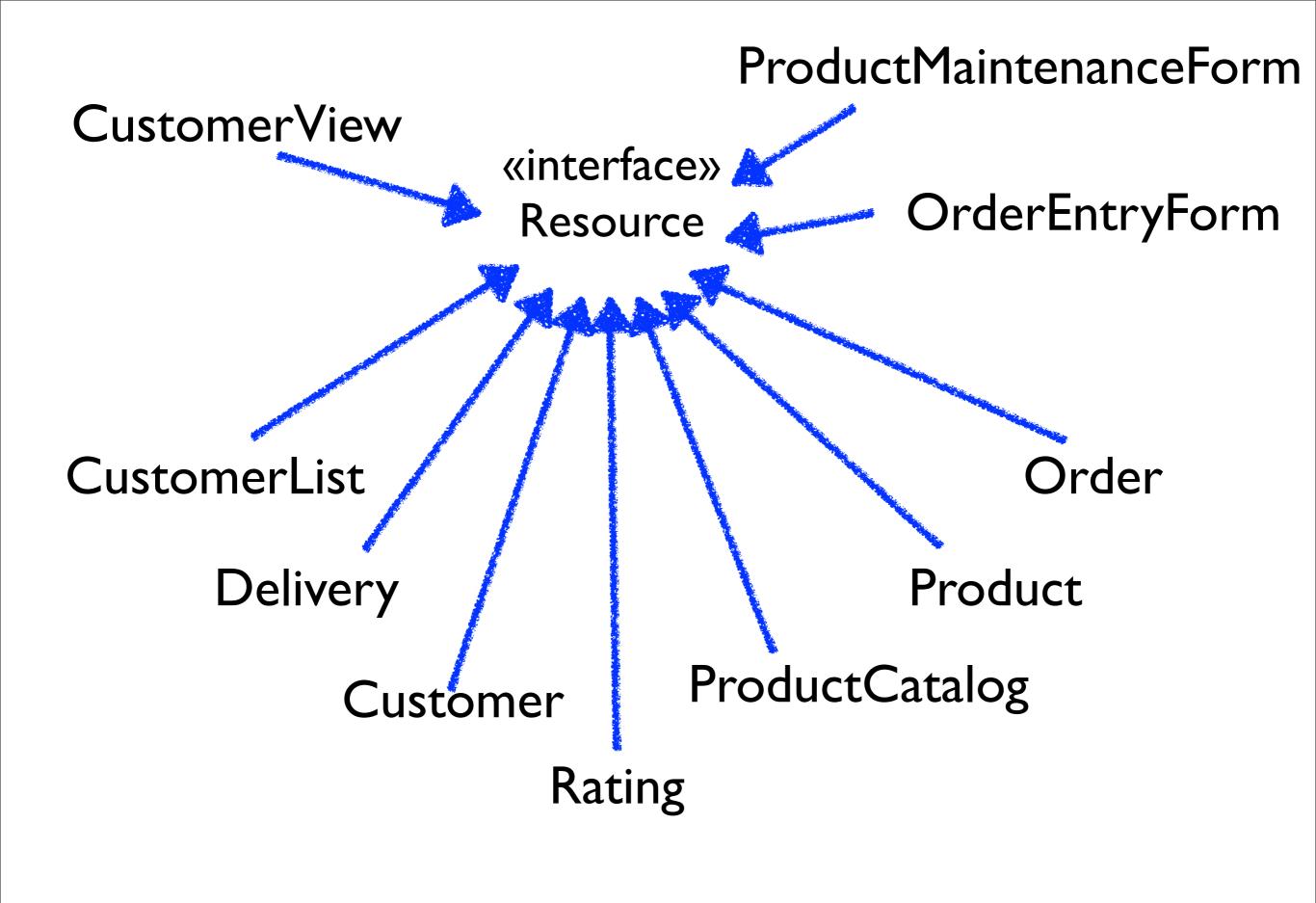
Delivery

CustomerList

Customer

Product

ProductCatalog



Internet vs. Enterprise

One is a gigantic, uncontrollable anarchy of heterogeneous systems with varying quality that evolve independently and constantly get connected in new and unexpected ways.

The other is a worldwide, publicly accessible series of interconnected computer networks that transmit data by packet switching using the standard Internet Protocol (IP).

Web Results 1 - 10 of about 61

Basel II – Wikipedia 🔨 🗙 - [Translate this page]

Der Terminus Basel II bezeichnet die Gesamtheit der Eigenkapitalvorschriften, die vom Basler Ausschuss für Bankenaufsicht in den letzten Jahren ...
de.wikipedia.org/wiki/Basel II - 72k - Cached - Similar pages -

Bundesbank - Bankenaufsicht - Basel II Translate this page]

Basel II - Die neue Baseler Eigenkapitalvereinbarung ... Während der im Jahr 1998 begonnenen Entwicklung des Basel II Regelwerkes standen die Aufsicht und ... www.bundesbank.de/bankenaufsicht/bankenaufsicht_basel.php - 27k - Cached - Similar pages - ©

Bundesbank - Bankenaufsicht - Basel II - Säule 2: Aufsichtliches ... Translate this page]

Die drei Saeulen von Basel 2 Im Rahmen dieser so genannten zweiten Säule, die als integraler Bestandteil des neuen Kapitalakkords gleichberechtigt neben den ... www.bundesbank.de/bankenaufsicht/bankenaufsicht_basel_saeule2.php - 17k - Cached - Similar pages - P

More results from www.bundesbank.de »

Basel-II.info - Steuerkanzlei Christian Reichling, Köln - [Translate this page]

Ausführliche Informationen zum Thema Basel II – neue Bedingungen für Firmenkredite, Rating und Tipps.

www.foerderland.de/353.0.html - 48k - Cached - Similar pages - P

Der Deutsche Industrie- und Handelskammertag (DIHK) ist die Spitzenorganisation der 80 Industrie- und Handelskammern (IHKs) in Deutschland.

www.dihk.de/inhalt/informationen/news/schwerpunkte/rating/basel.html - 6k - Cached - Similar pages - P



Search

Advanced Search Preferences

Results 1 - 10 of about (Web

Versicherungsnehmer: Hans Müller Translate this page]

Hans Müller, 40880 Ratingen, Kunde seit dem 1.3.2001, letzte Aktualisierung 1.1.2009 ... crm.example.com/customers/4711 - 72k - Cached - Similar pages -

Kfz-Haftpflicht Hans Müller Translate this page]

Kfz.-Haftpflicht für ME-HM 123, abgeschlossen 1.1.2005, Halter: Hans Müller, Audi A4 ... bestand.example.com/lv/26621 - 72k - Cached - Similar pages -

Risiko LV Anne Müller Translate this page]

Risiko LV Anne Müller, 40880 Ratingen, abgeschlossen 1.1.2004, Begünstiger: Hans Müller, Versicherungssumme: €200.000 ...

bestand.example.com/lv/26621 - 72k - Cached - Similar pages -





URIs Clients

HTTP Web Servers

HTML Caching Proxies

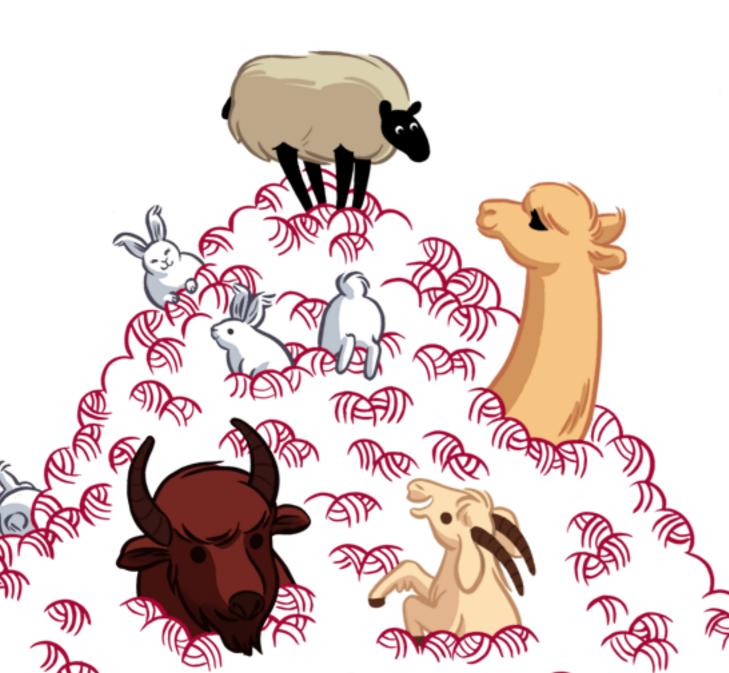
CSS CDN

Javascript Syndication



Wednesday, September 7, 11





4 Million pageviews/day
3.6 million pageviews/day

480 Dévétopers 2.3 million projects

On weekends &

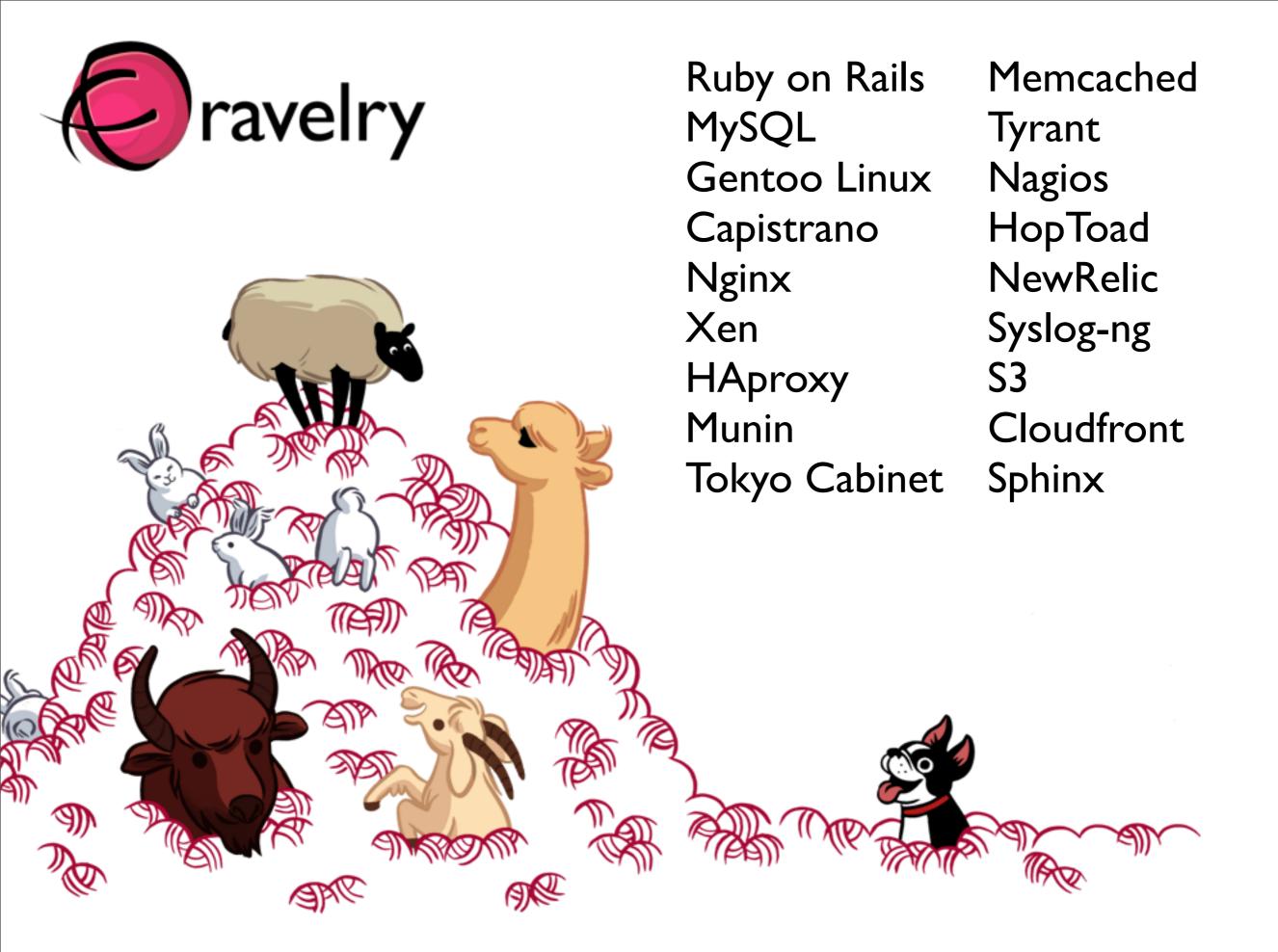
13 million private messages

EMEN LINES (Flickr)

70,000 active users/day

900 new sign ups/day

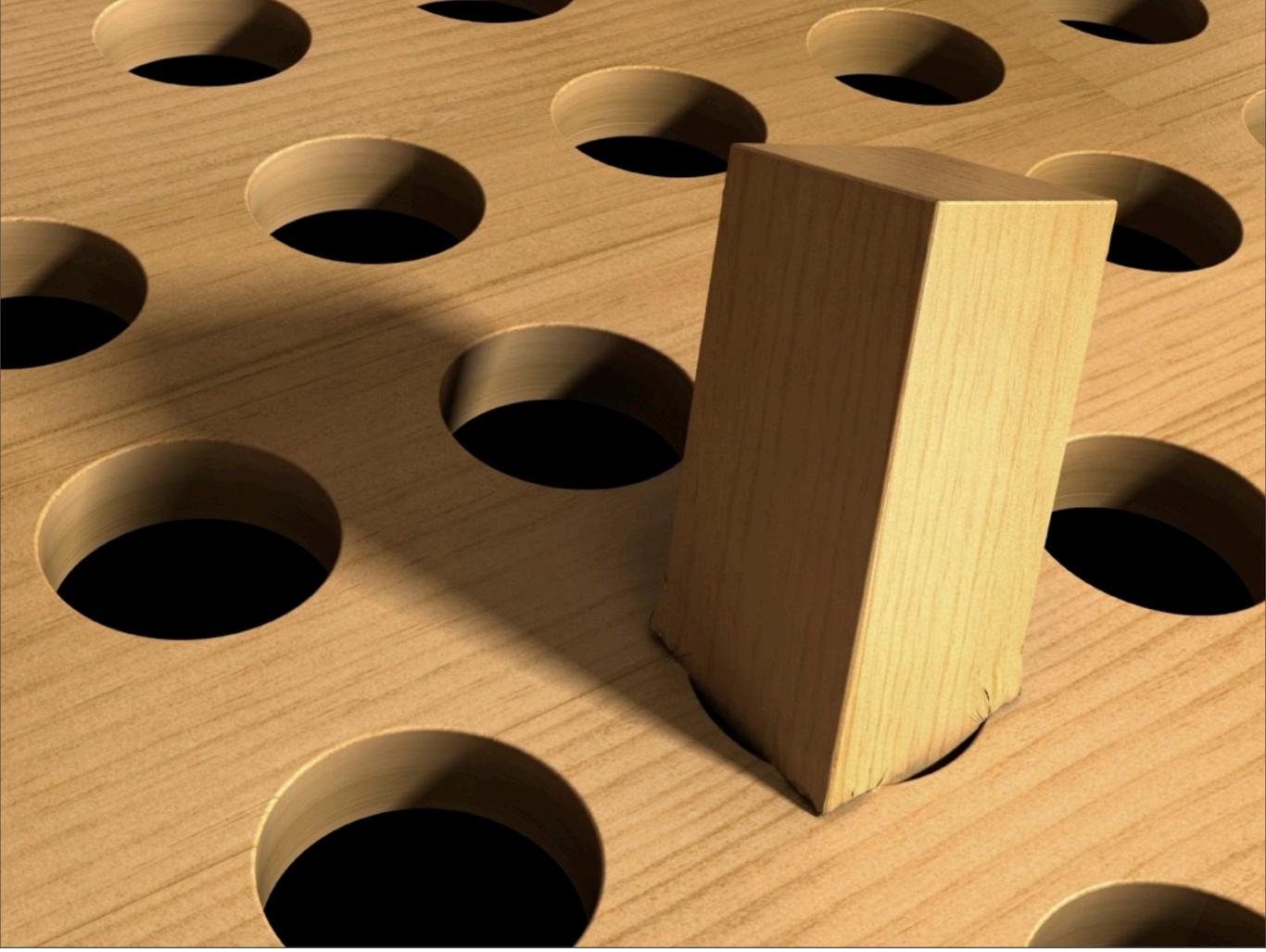
50,000 new forum posts/day



What I'm writing here is the single most important take-away from my Sun years, and it fits in a sentence: The community of developers whose work you see on the Web, who probably don't know what ADO or UML or JPA even stand for, deploy better systems at less cost in less time at lower risk than we see in the Enterprise.

> Tim Bray ng-It-Wrong

http://www.tbray.org/ongoing/When/201x/2010/01/02/Doing-It-Wrong



Wednesday, September 7, 11



Paraphrasing Dare Obasanjo, see http://tinyurl.com/dare-enterprise



Incidental Complexity vs. Accidental Complexity

Portal Server

Portlets

Web Framework

Transfer Objects

Session Beans

JAXB Java Beans

XML Stock Quotes



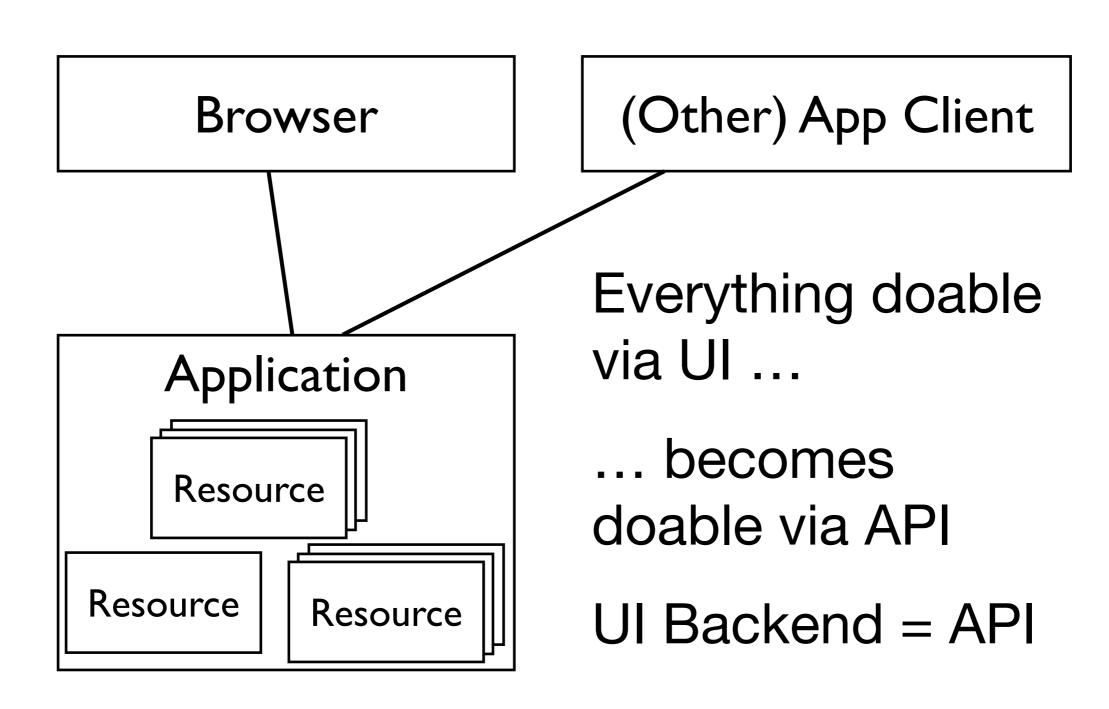




Adobe Flash/Air Microsoft Silverlight Java FX

Client Applications (RCP & Native)

Single Resource Model





We've been there

before ...



Embrace the Web, Don't fight it

Web Uls first, Client apps second

Standardize on the outside, not on the inside



If you can't link to it, does it exist?

If you can't build *real* Web apps with it, is it worth your time?

Vielen Dank!





innoQ Deutschland GmbH

Halskestr. 17 D-40880 Ratingen

Phone: +49 21 02 77 172-100

innoQ Schweiz GmbH

Gewerbestr. 11 CH-6630 Cham

Phone: +41 41 02 743 01 11

www.innoq.com info@innoq.com

Stefan Tilkov stefan.tilkov@innoq.com http://www.innoq.com/blog/st/ @stilkov

Phone: +49 170 471 2625