



The
Web

& STANDARDS



Innovate
Standardise
Implement



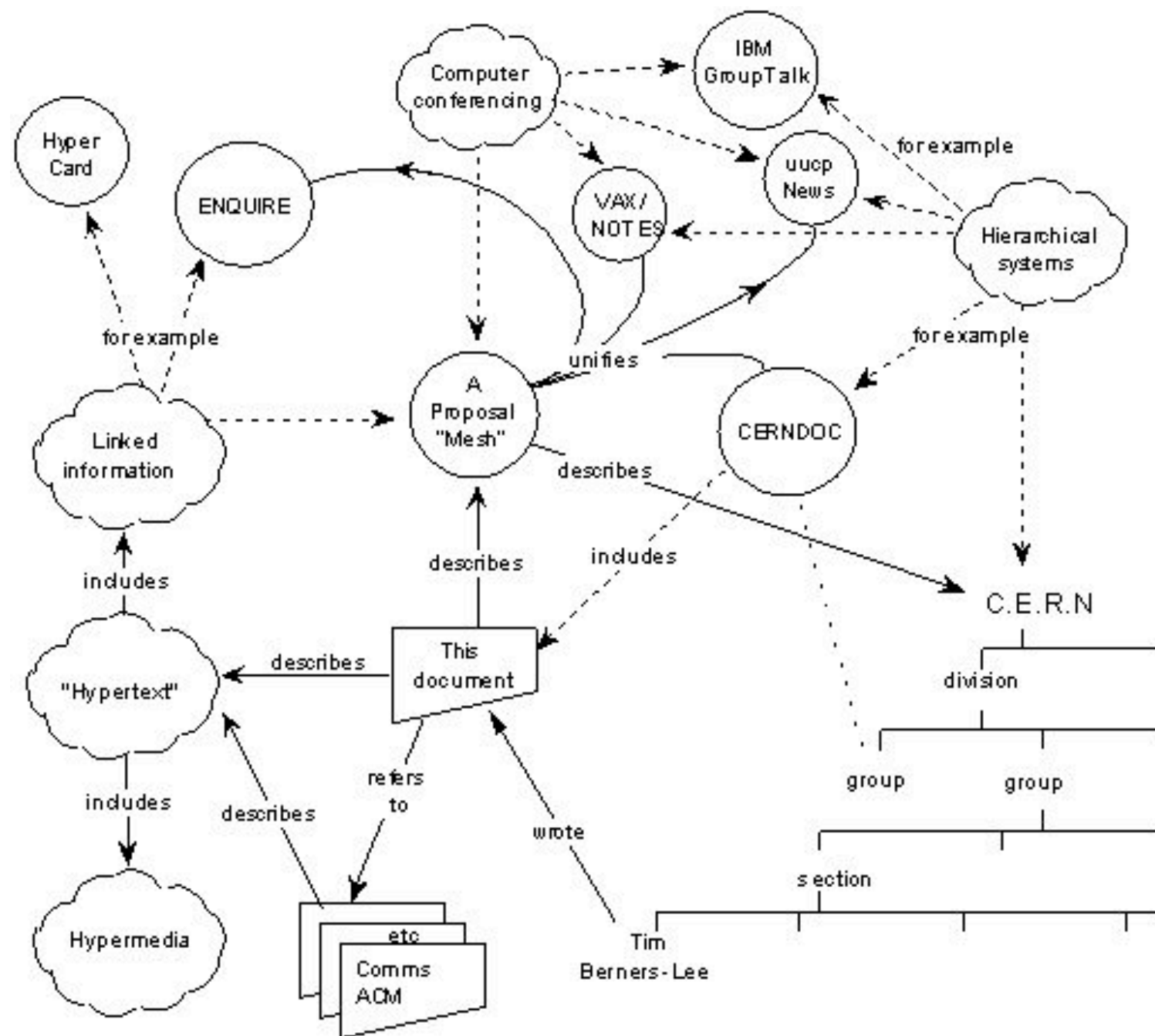




1989



CERN



EUROPEAN ORGANISATION FOR NUCLEAR RESEARCH

October 1980

The ENQUIRE System

Short Description

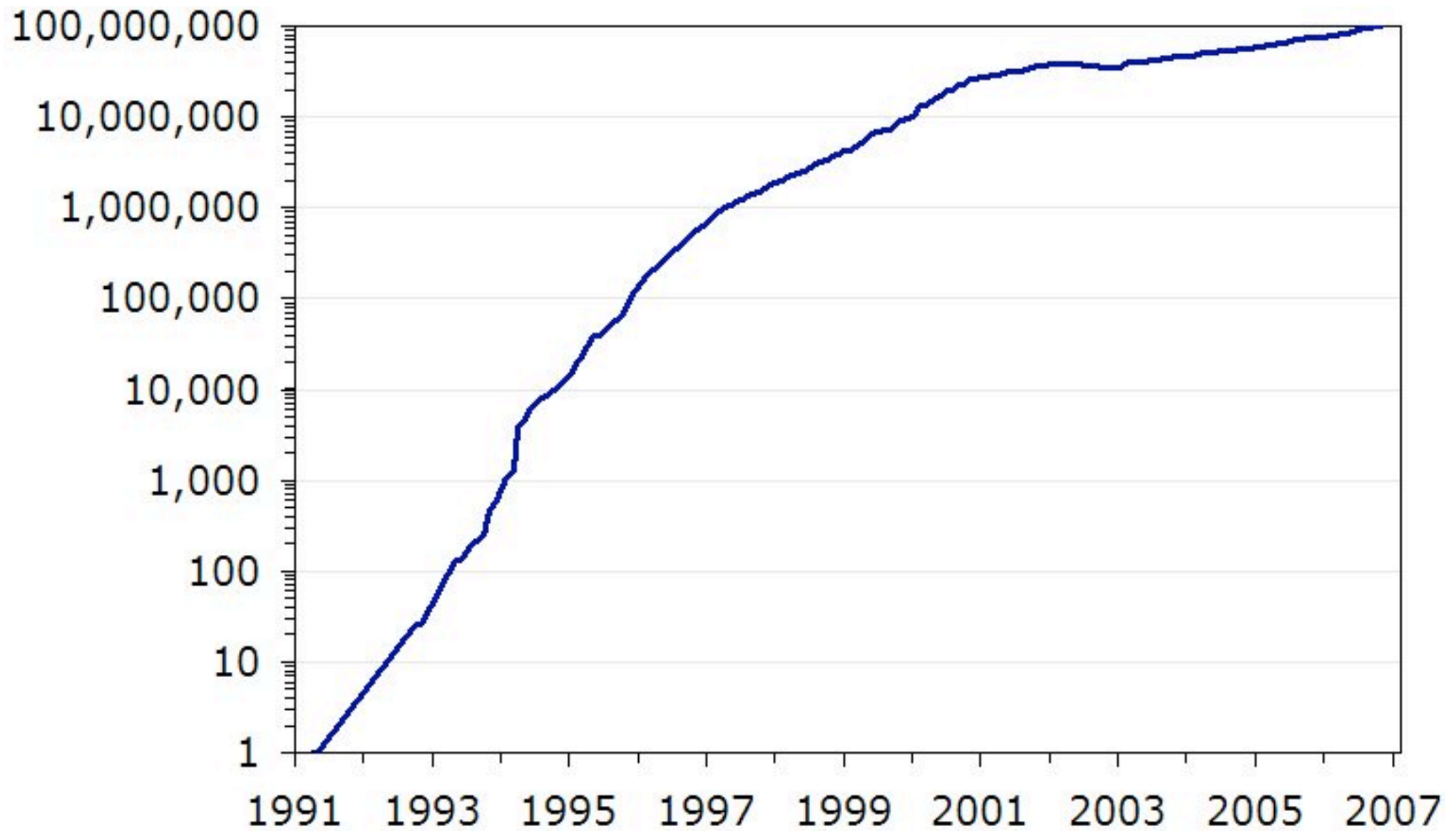
T.J.Berners-Lee

For the description of modular systems.

Iss 1.1



101,435,253 websites in November 2006



<http://www.useit.com/alertbox/web-growth.html>

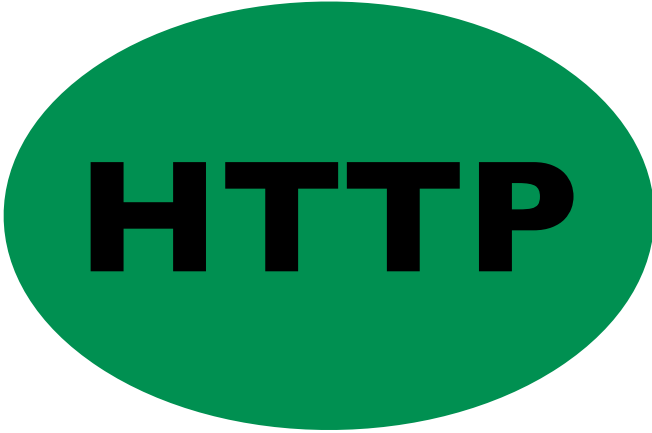
“Holy” Trinity



URL



HTML



HTTP



I E T F[®]

Loosey-Goosey HTML

```

```

```
<script>
```

```
    window.open ("http://www.some-dodgy-website.tld",  
                  "hey-click-on-this-popup");
```

```
</script>
```

```
<blink>HOW ANNOYING AM I?</blink>
```

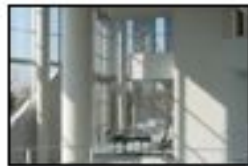
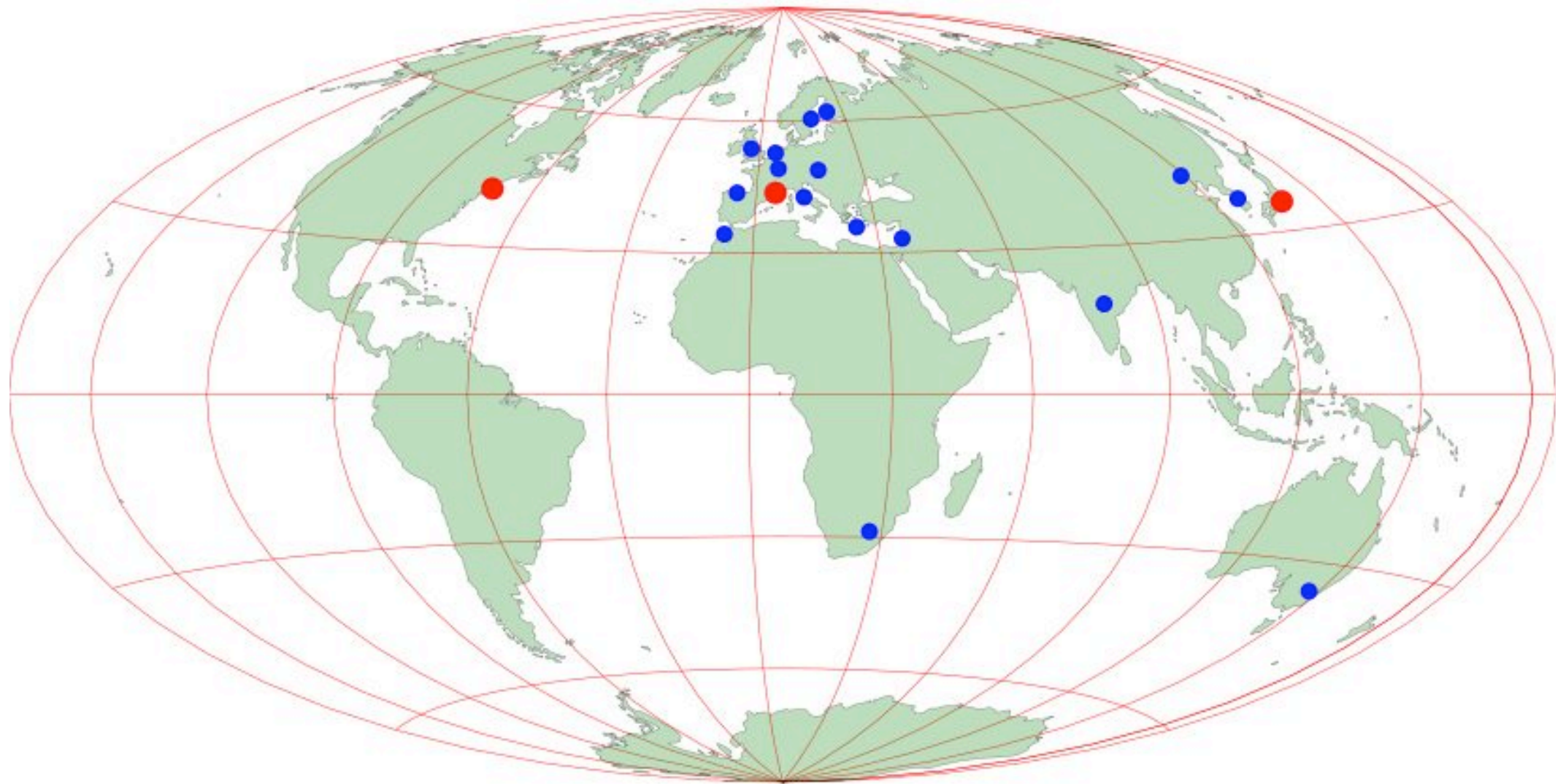
```
<queue>All your base are belong to us</m
```



1994



Leading the Web to Its Full Potential...



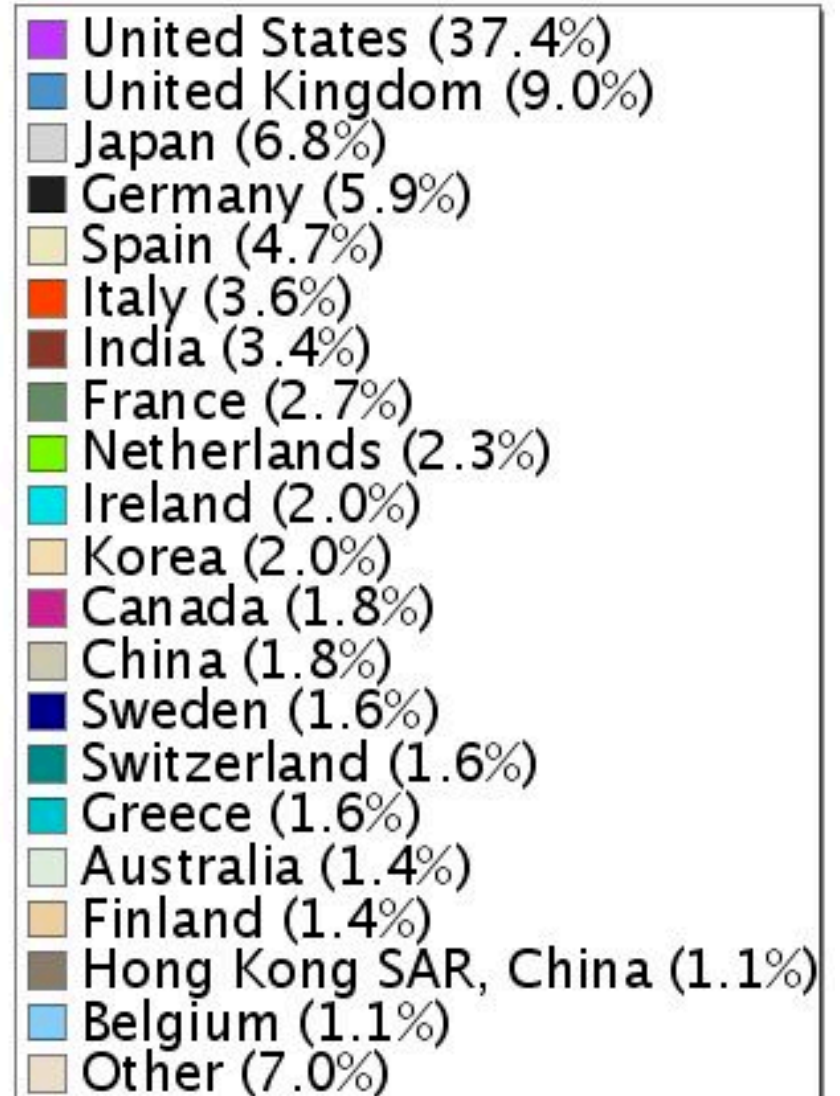
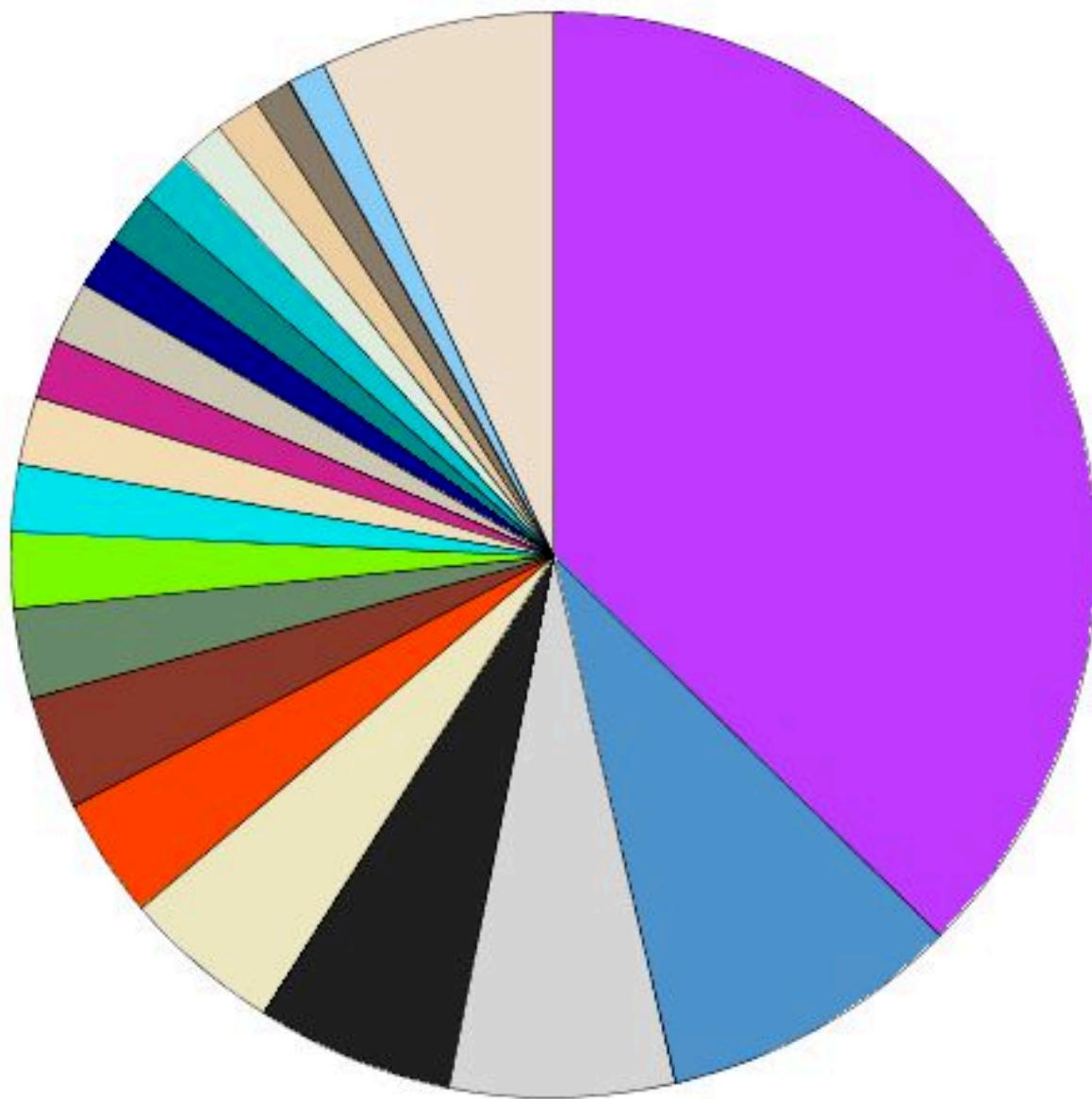
**Keio Univ.
(Japan)**

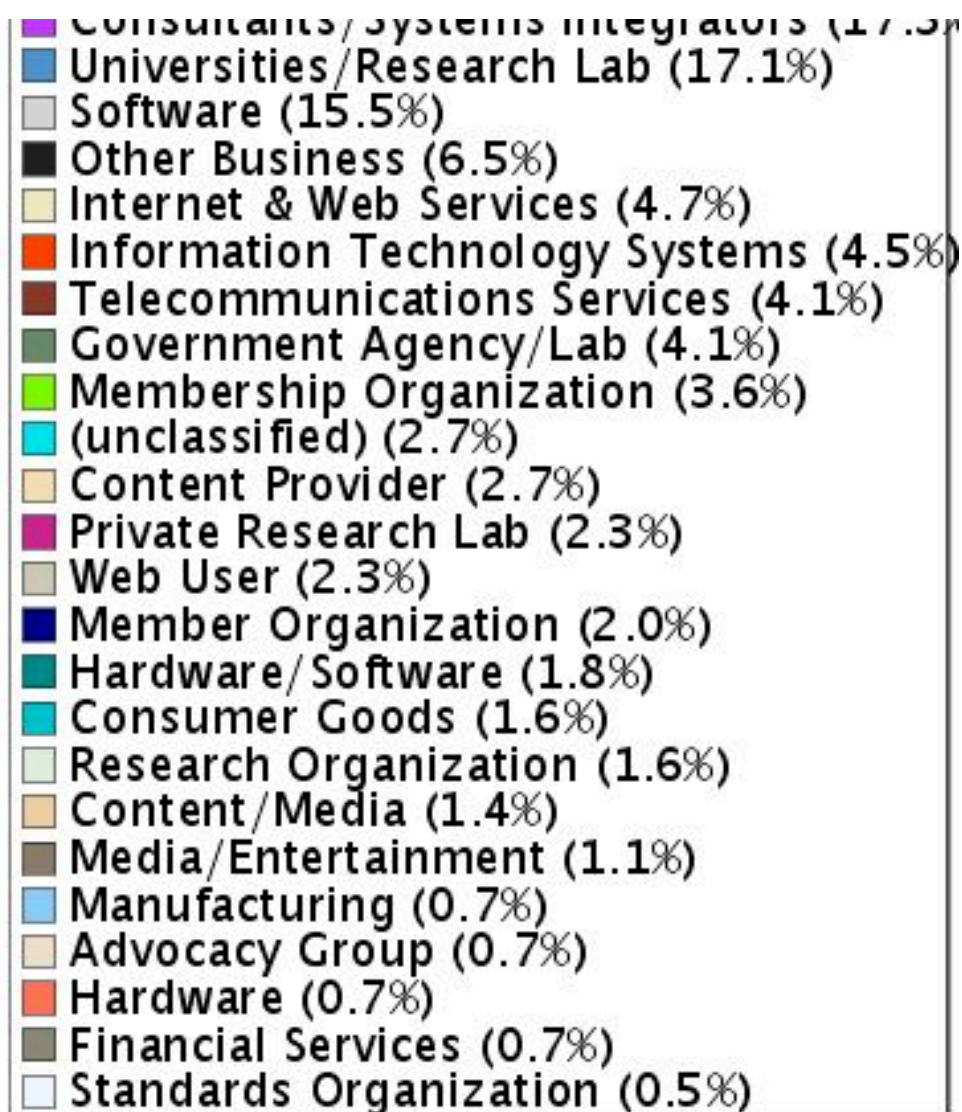
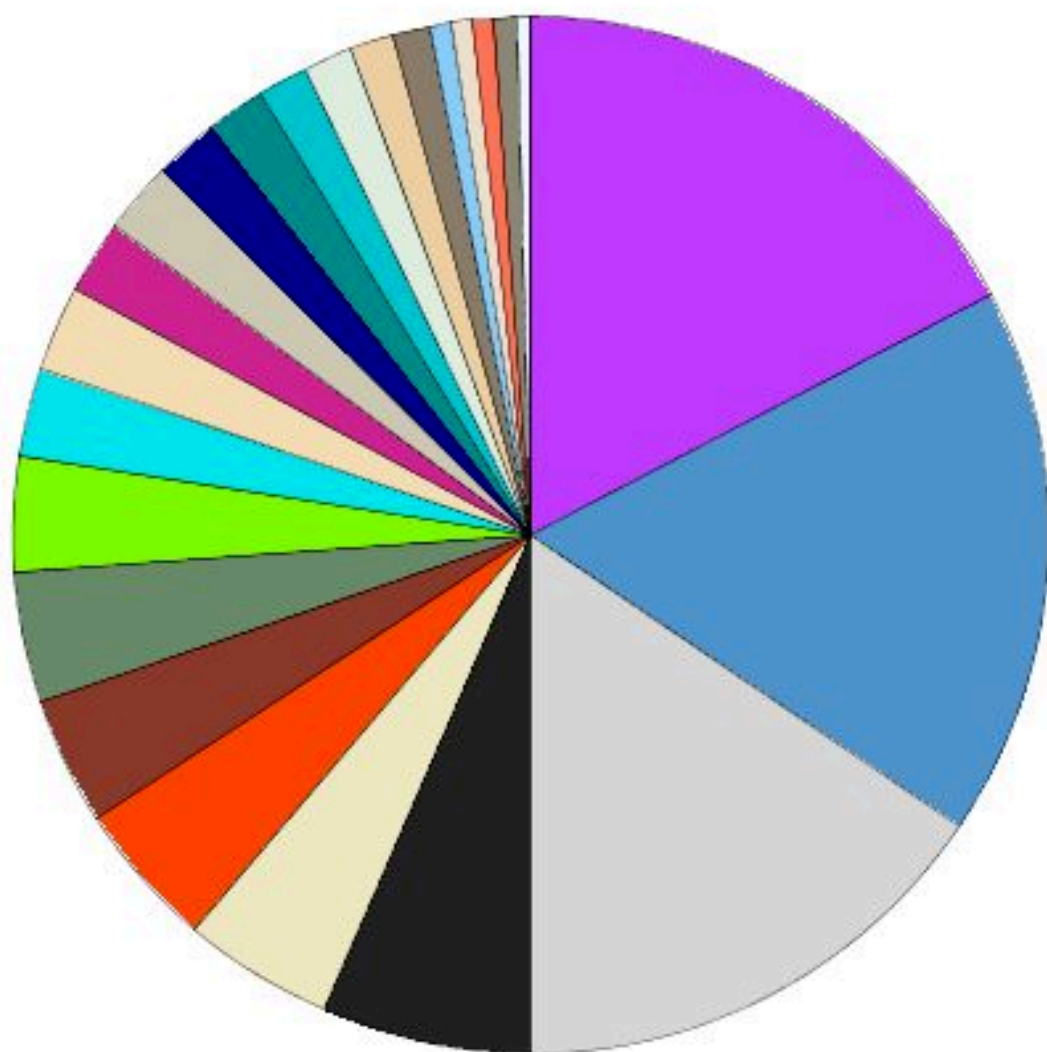


**ERCIM
(France)**



**MIT/CSAIL
(USA)**

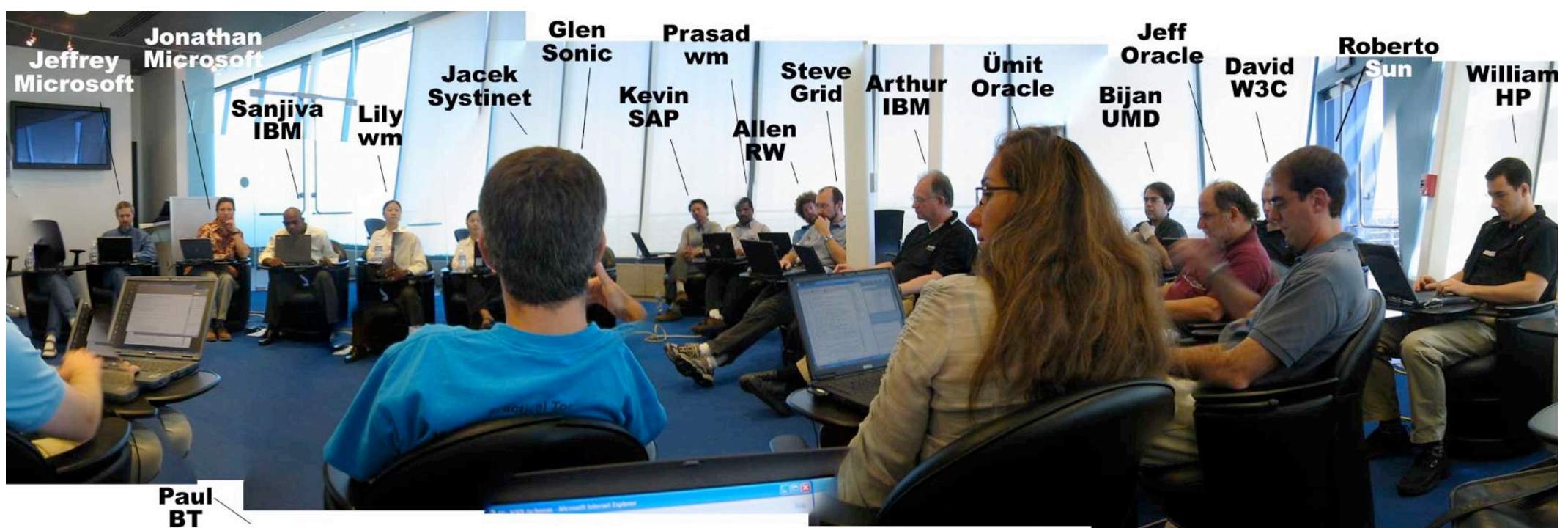
















[W3C home](#) > [Mailing lists](#) > [Public](#)

public-html@w3.org Mail Archives

This is the mailing list of the [W3C HTML Working Group](#), chartered in March 2007.

About this list: [[Indices by calendar periods](#)] [[Latest messages](#)] [[Mailbox format](#)] [[RSS](#)]

Mail actions: [[mail a new topic](#)]

Help: [[How to use the archives](#)] [[Search in the archives](#)]

[Search](#) this list for

Search

<i>period</i>	<i>re-sorted</i>	<i>messages</i>
October 2007	by thread by author by subject	183
September 2007	by thread by author by subject	576
August 2007	by thread by author by subject	1258
July 2007	by thread by author by subject	1313
June 2007	by thread by author by subject	1099
May 2007	by thread by author by subject	1307
April 2007	by thread by author by subject	1773
January to March 2007	by thread by author by subject	810

15:40:47 <TonyK> vote: 4, 3, 1
15:41:01 <Gil> vote 4,3,1
15:41:07 <Jonathan> vote: 1, 2, 4, 3
15:41:16 <Gil> vote: 4,3,1
15:41:19 <youenn> vote: 1,2,3,4
15:41:26 <Roberto> vote: 1, 4, 2, 3
15:41:57 <Jonathan> chad, count
15:41:57 <chad> Question: terminology
15:41:57 <chad> Option 1: is applied to (4)
15:41:57 <chad> Option 2: implements (0)
15:41:57 <chad> Option 3: binds (2)
15:41:57 <chad> Option 4: qualifies (2)
15:41:58 <chad> 8 voters: Allen (3,1),Arthur (3,2,1),Gil (4,3,1),JacekK (1,3),Jonathan (1,2,4,3),Roberto (1,4,2,3),TonyR (4,3,1),youenn (1,2,3,4)
15:42:01 <chad> Round 1: Count of first place rankings.
15:42:03 <chad> Round 2: First elimination round.
15:42:05 <chad> Eliminating candidadates without any votes.
15:42:07 <chad> Eliminating candidate 2.
15:42:09 <chad> Round 3: Tie when choosing candidate to eliminate.
15:42:11 <chad> Tie at round 2 between 3, 4.
15:42:13 <chad> Tie at round 1 between 3, 4.
15:42:15 <chad> Tie broken randomly.
15:42:17 <chad> Eliminating candidate 4.
15:42:19 <chad> Round 4: Tie when choosing candidate to eliminate.
15:42:21 <chad> Tie at round 3 between 1, 3.
15:42:23 <chad> Candidate 3 has the fewest votes at round 2.
15:42:25 <chad> Eliminating candidate 3.
15:42:27 <chad> Candidate 1 is elected.
15:42:29 <chad> Winner is option 1 - is applied to
15:42:39 <Roberto> Jonathan: option 1 wins
15:43:40 <Roberto> <http://lists.w3.org/Archives/Public/www-ws-desc/2006Jul/0057.html>
15:45:16 <Roberto> jacek: wants to avoid interpreting these properties as component properties
15:45:39 <Roberto> ... the proposed text doesn't do that
15:47:09 <Roberto> ... describing his proposal (.7)
15:52:20 <Roberto> ACTION: Roberto to produce an updated proposal for CR044
15:52:57 <Jonathan> Topic: CR070
15:53:58 <Roberto> Roberto: that was the intent of the spec
15:54:00 <Zakim> -Gilbert_Pilz
15:54:11 <Roberto> Jonathan: no objections to approving the proposal
15:54:31 <Roberto> RESOLUTION: proposed solution to cr070 accepted
15:54:41 <Roberto> Topic: CR071
15:55:53 <Jonathan> zakim, who's making noise?
15:55:56 <Zakim> +Gilbert_Pilz
15:56:03 <Zakim> Jonathan, listening for 10 seconds I heard sound from the following: Roberto (24%), Jonathan_Marsh (30%), Arthur_Ryman (10%), Allen (4%)
15:56:05 <Roberto> Roberto: proposes to close with no action
15:58:37 <Zakim> -Allen

CR130

Phillipe has proposed a grammar

```
< plh > httpLocation ::= CharData? (( openBrace | closeBrace | elementName ) CharData?)*  
< plh > CharData ::= [^{}]*  
< plh > openBrace ::= '{'  
< plh > closeBrace ::= '}'  
< plh > elementName ::= '{' NCName '}'
```

John Kaputin: Grammar seems ok to me.

Jonathan: Everybody ok with this?

Resolution: Close CR130 with this proposal (mod change proposed by Jonathan and reference to XML spec (?))

CR118

<http://www.w3.org/2002/ws/desc/5/cr-issues/issues.html#CR118>

Jonathan: (reviews issue)

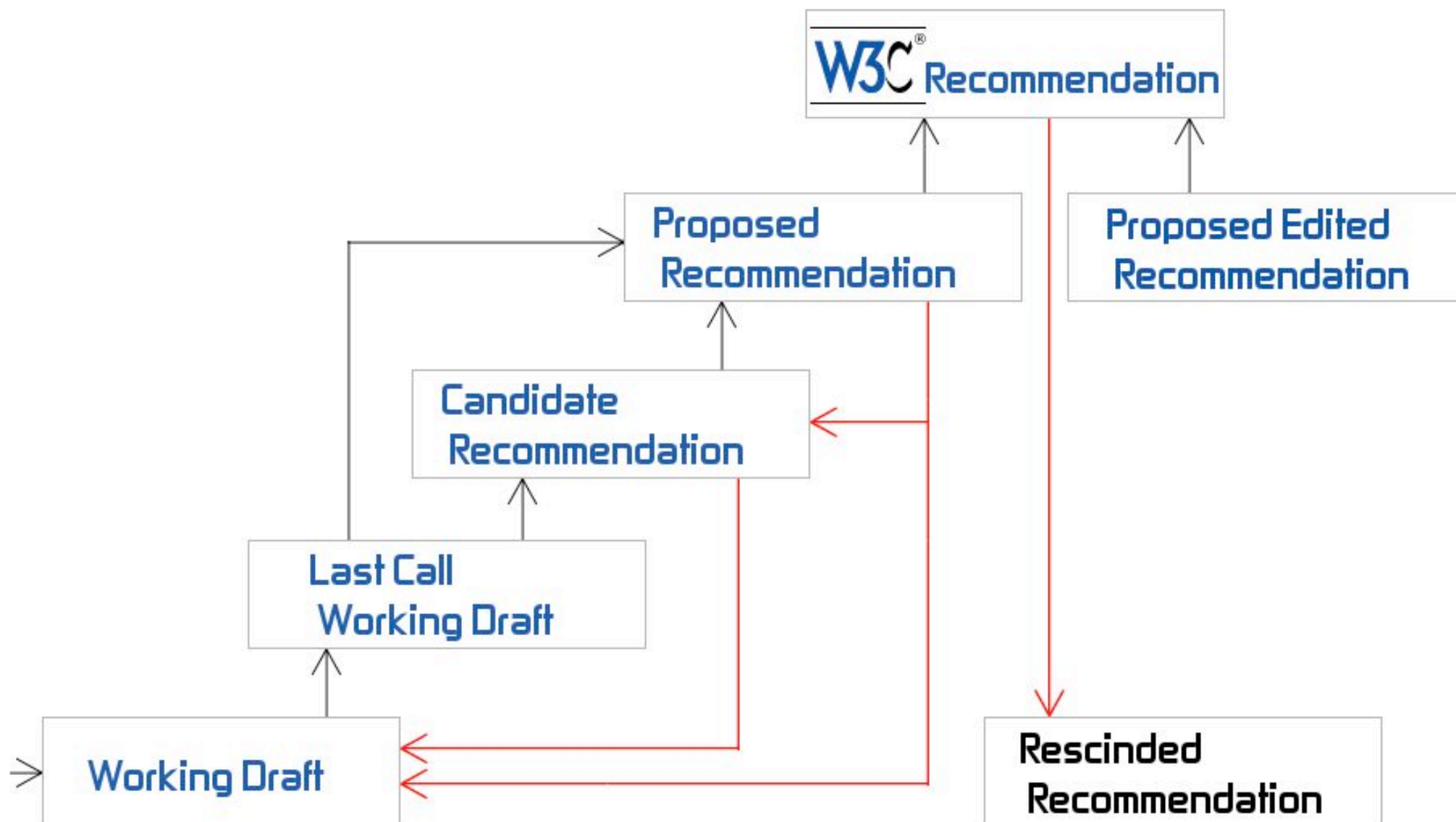
Phillipe: Is the schema normative?

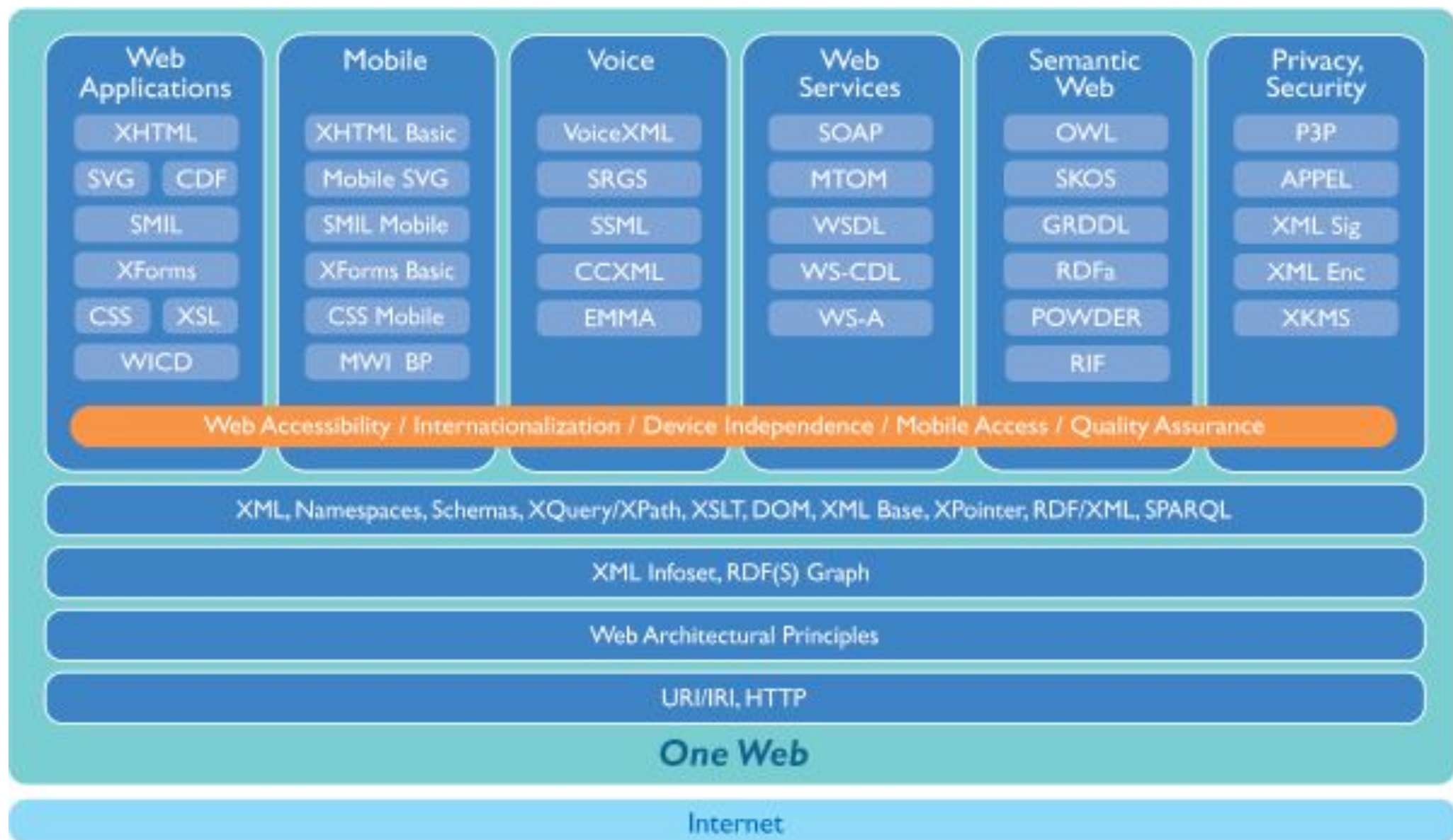
Jonathan: Yes.

Roberto: (misses his point)

John: If you're a WSDL 2.0 implementation and you provide an API that allows you to build a component model at some point ... If the only way you can do this is via schema validation, that means you need to generate the infoset then run it through a v

Roberto: agrees





Mobile Web Best Practices



Web for Everyone ?

اجعل شبكة الويب العالمية عالمية حقًا

ᠠᠵᠢᠭᠡᠯᠡᠭᠡᠨ ᠰᠢᠪᠡᠭᠡ ᠠᠵᠢᠭᠡᠯᠡᠭᠡᠨ ᠠᠵᠢᠭᠡᠯᠡᠭᠡᠨ ᠠᠵᠢᠭᠡᠯᠡᠭᠡᠨ.

締造真正全球通行的万维网

締造真正全球通行的萬維網

"Дүниежүзілік торды" нағыз дүниежүзілік етеміз!

Сделаем "Всемирную паутину" действительно всемирной!

Κάνοντας τον Παγκόσμιο Ιστό πραγματικά Παγκόσμιο

ליצור מההשת רשת כלל עולמית באמת!

वर्ल्ड वाईड वेब को सचमुच विश्वव्यापी बना रहें हैं !

ワールド・ワイド・ウェブを世界中に広げましょう

전세계의 월드 와이드 웹으로 만들기!

Hogy a Világháló valóban az egész világe lehessen!

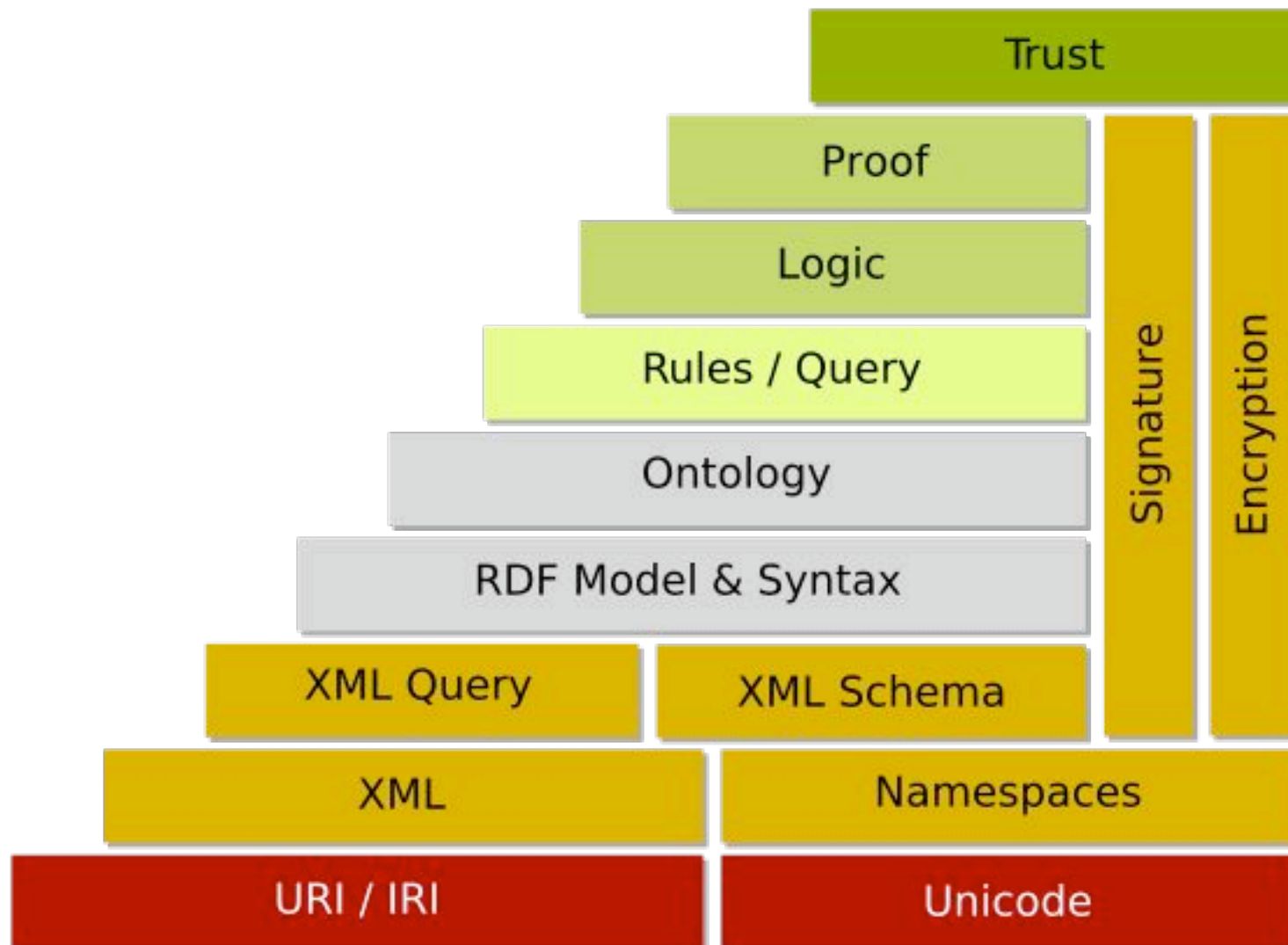
ਵਰਲਡ ਵਾਈਡ ਵੈਬ ਨੂੰ ਵਾਕਈ ਵਿਸ਼ਵ-ਵਿਆਪੀ ਬਣਾਉਣਾ !

การทำให้ World Wide Web แพร่หลายไปทั่วโลกอย่างแท้จริง

Making the world wide web truly world wide!

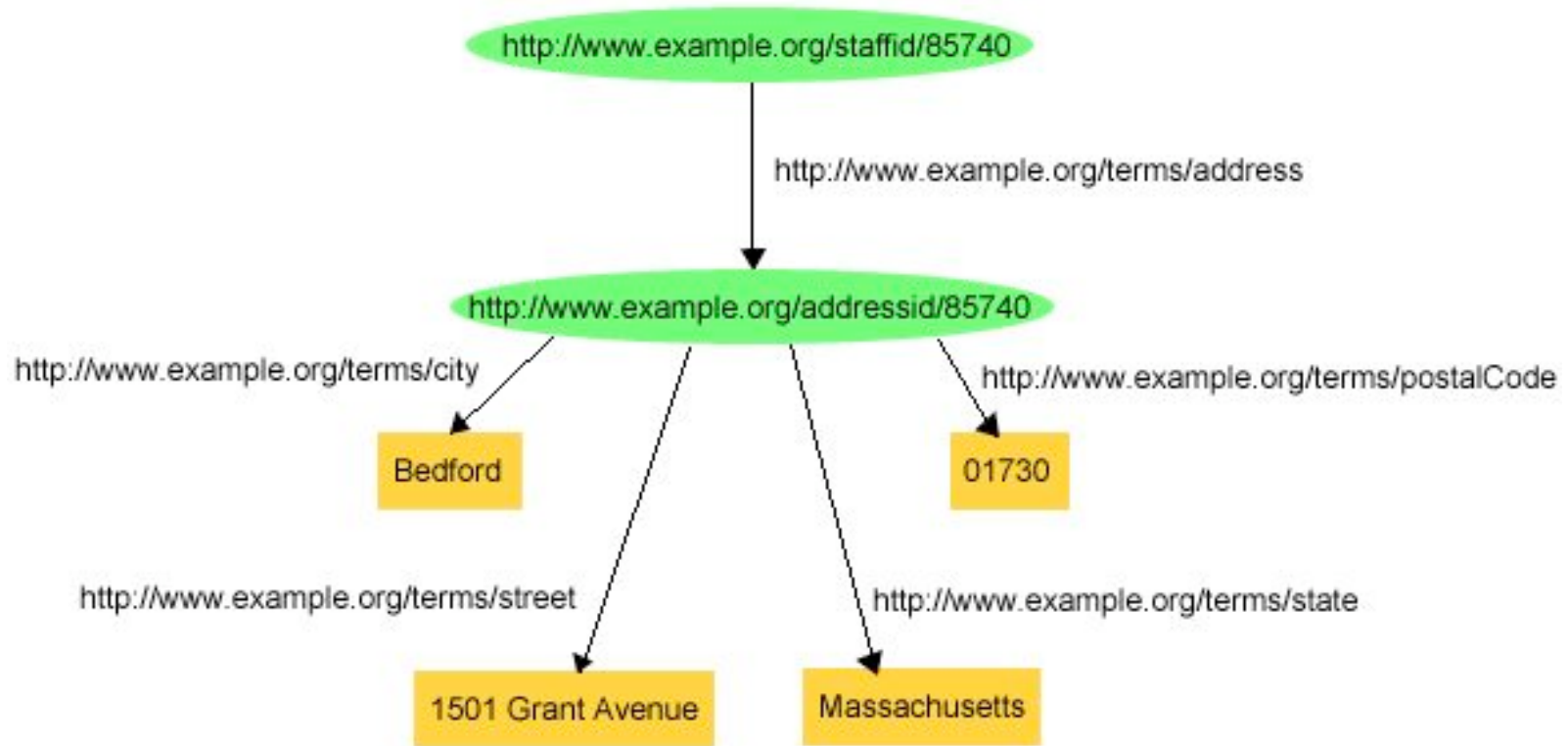


UNDERSTOOD





RDF



exstaff:85740

exaddressid:85740

exaddressid:85740

exaddressid:85740

exaddressid:85740

exterms:address

exterms:street

exterms:city

exterms:state

exterms:postalCode

exaddressid:85740 .

"1501 Grant Avenue" .

"Bedford" .

"Massachusetts" .

"01730" .

RDF

```
<rdf:RDF
  xmlns:rdf="http://www.w3.org/1999/02/22-rdf-syntax-ns#"
  xmlns:rss="http://purl.org/rss/1.0/"
  xmlns:dc="http://purl.org/dc/elements/1.1/">
  <rss:channel rdf:about="http://www.xml.com/xml/
news.rss">
    <rss:title>XML.com</rss:title>
    <rss:link>http://xml.com/pub</rss:link>
    <dc:description>
      XML.com features a rich mix of
      information and services for the XML community.
    </dc:description>
    <dc:subject>XML, RDF, metadata, information
      syndication services</dc:subject>
    <dc:identifier>http://www.xml.com</dc:identifier>
    <dc:publisher>O'Reilly & Associates, Inc.</
dc:publisher>
    <dc:rights>Copyright 2000, O'Reilly &
      Associates, Inc.</dc:rights>
  </rss:channel>
</rdf:RDF>
```



OWL 1.1



Architecture of the World Wide Web, Volume One

W3C Recommendation 15 December 2004

This version:

<http://www.w3.org/TR/2004/REC-webarch-20041215/>

Latest version:

<http://www.w3.org/TR/webarch/>

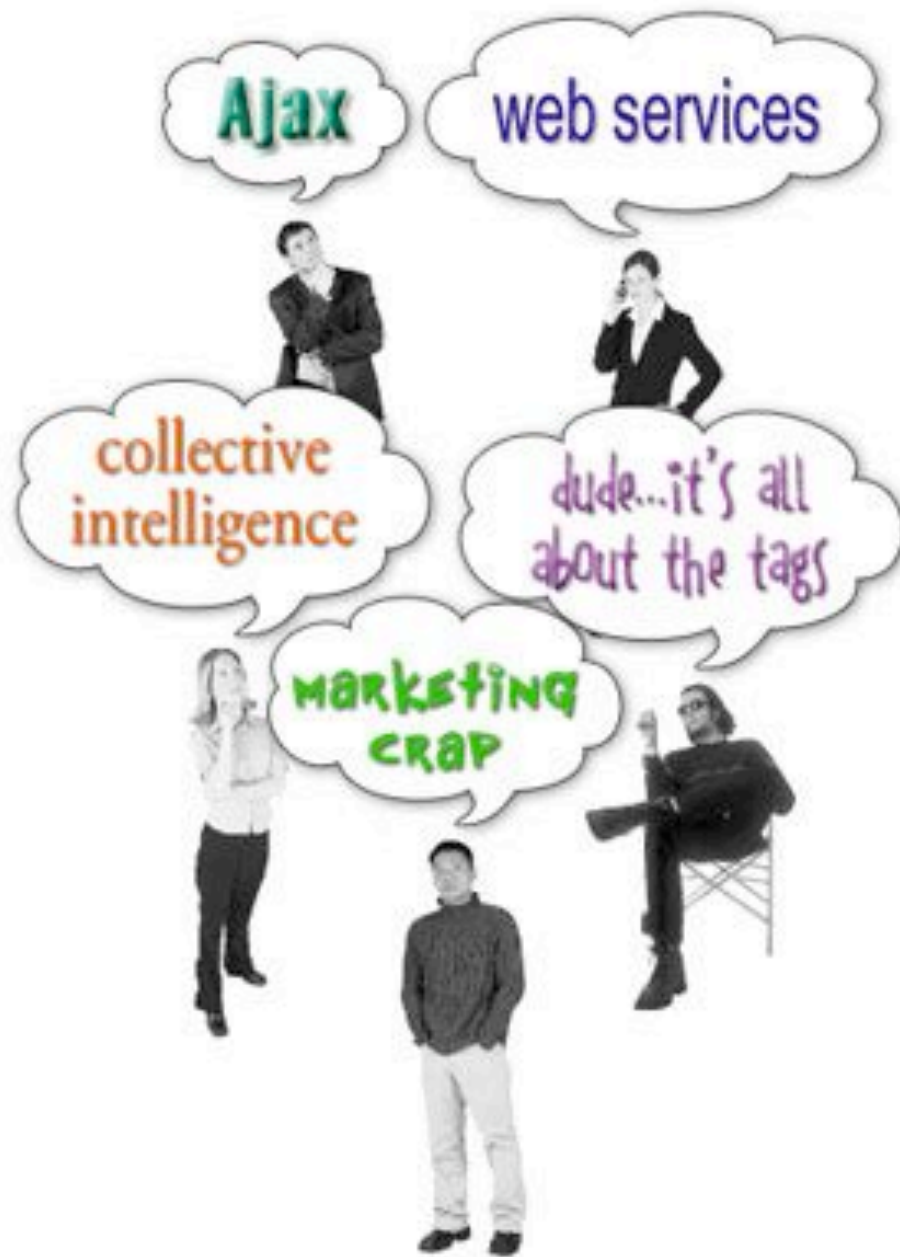
Previous version:

<http://www.w3.org/TR/2004/PR-webarch-20041105/>

Thinking vs. NOT Thinking

What is Web 2.0?

What is the Web?



The web as a platform

Data as the driving force

Network effects from an **architecture of participation**

"open source" development

THE PERPETUAL BETA

Lightweight business models

enabled content and service syndication

leveraging the power of **The Long Tail.**

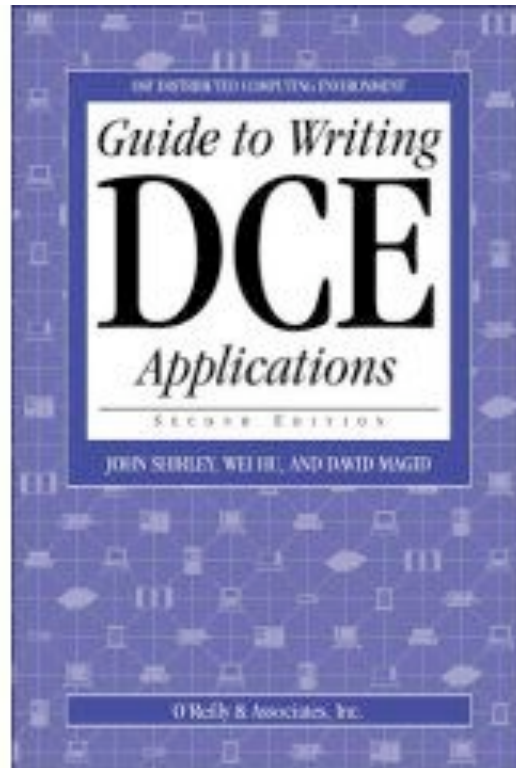
Easy to pick up by early adopters



Web services & STANDARDS

1995

middleware



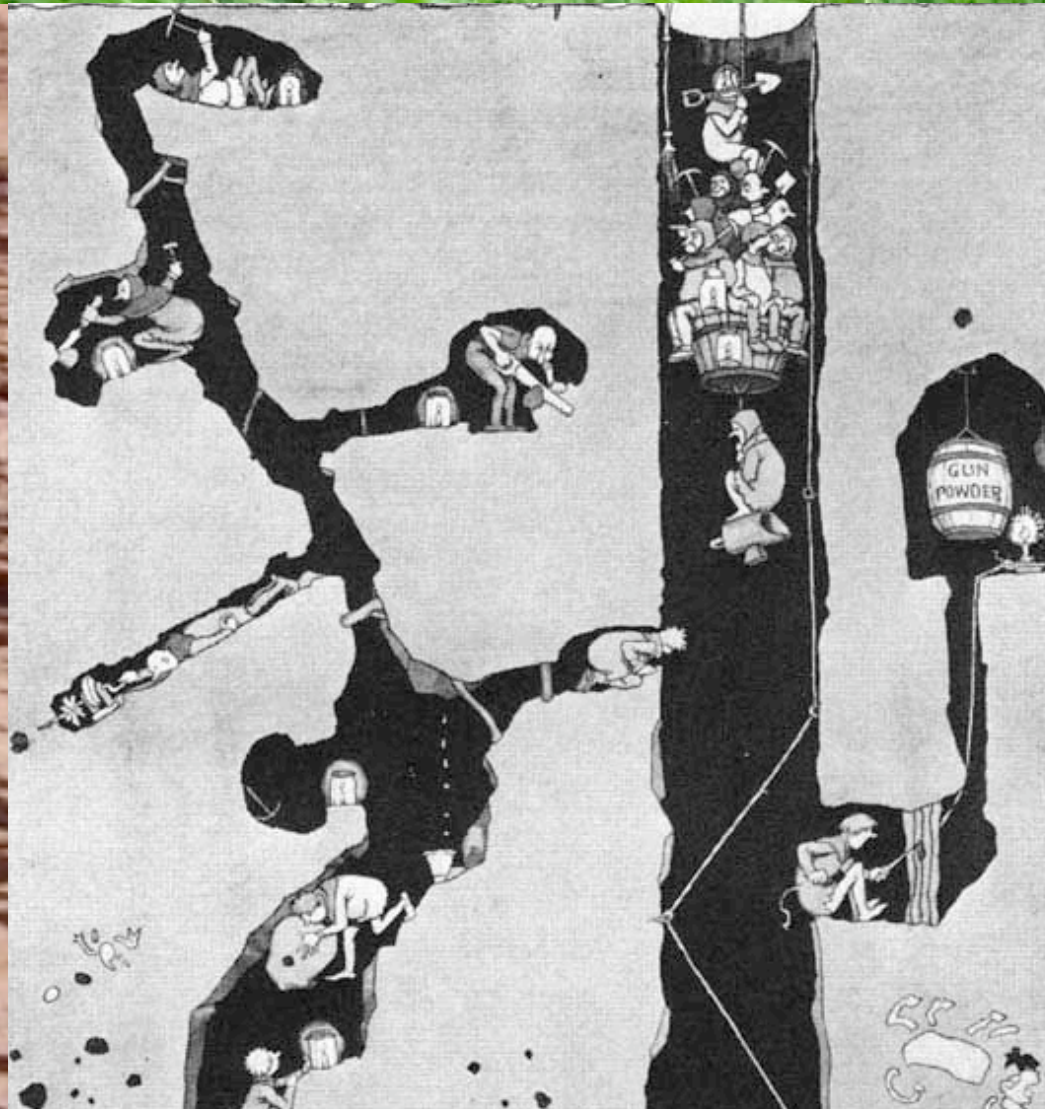
2007

**federation mobile
outsourcing open
ubiquitous web
deperimeterisation
presence personas
virtualisation agile
offshoring identity**

EOI



Capabilities



Standards

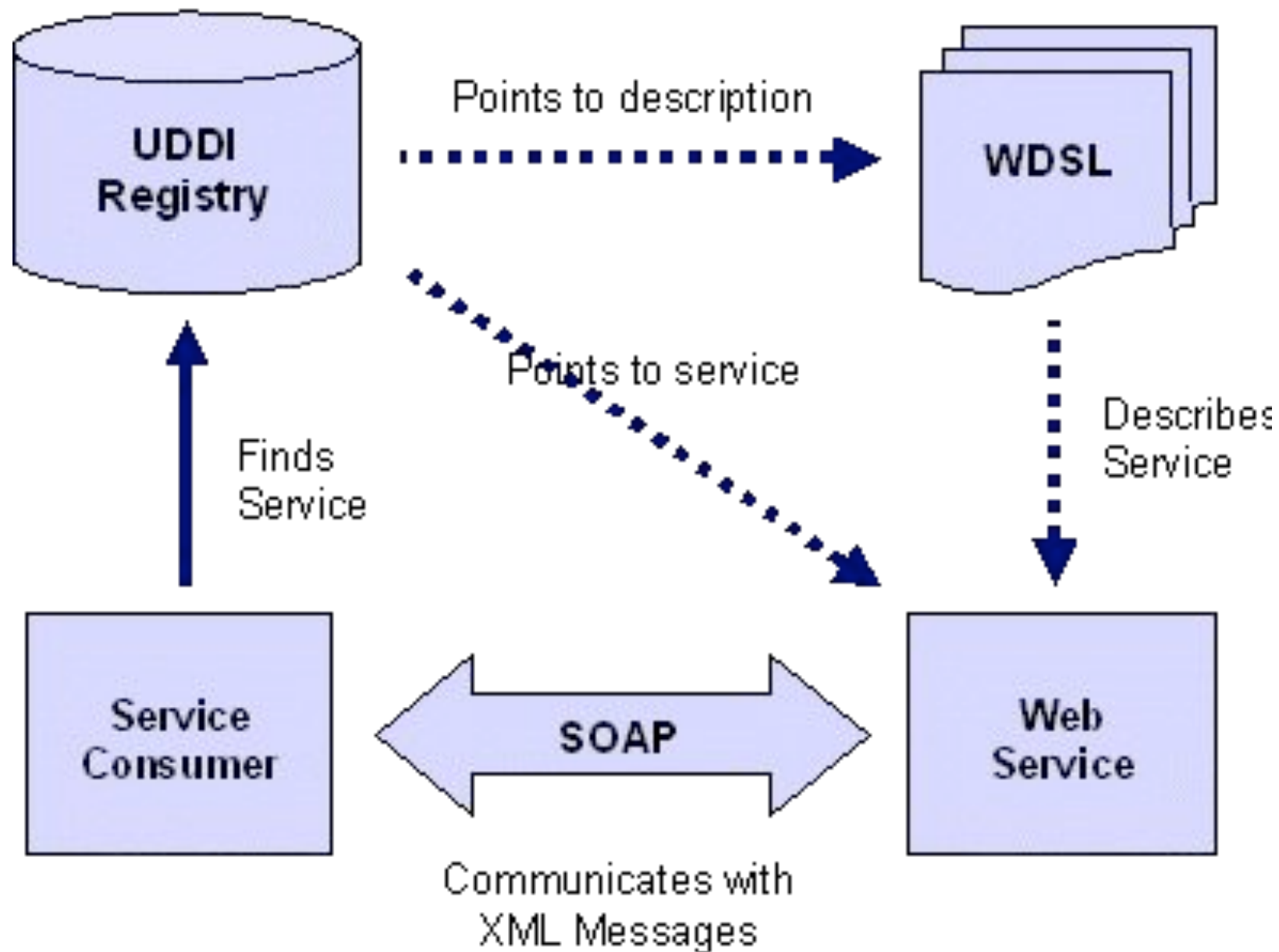


<?xml?>

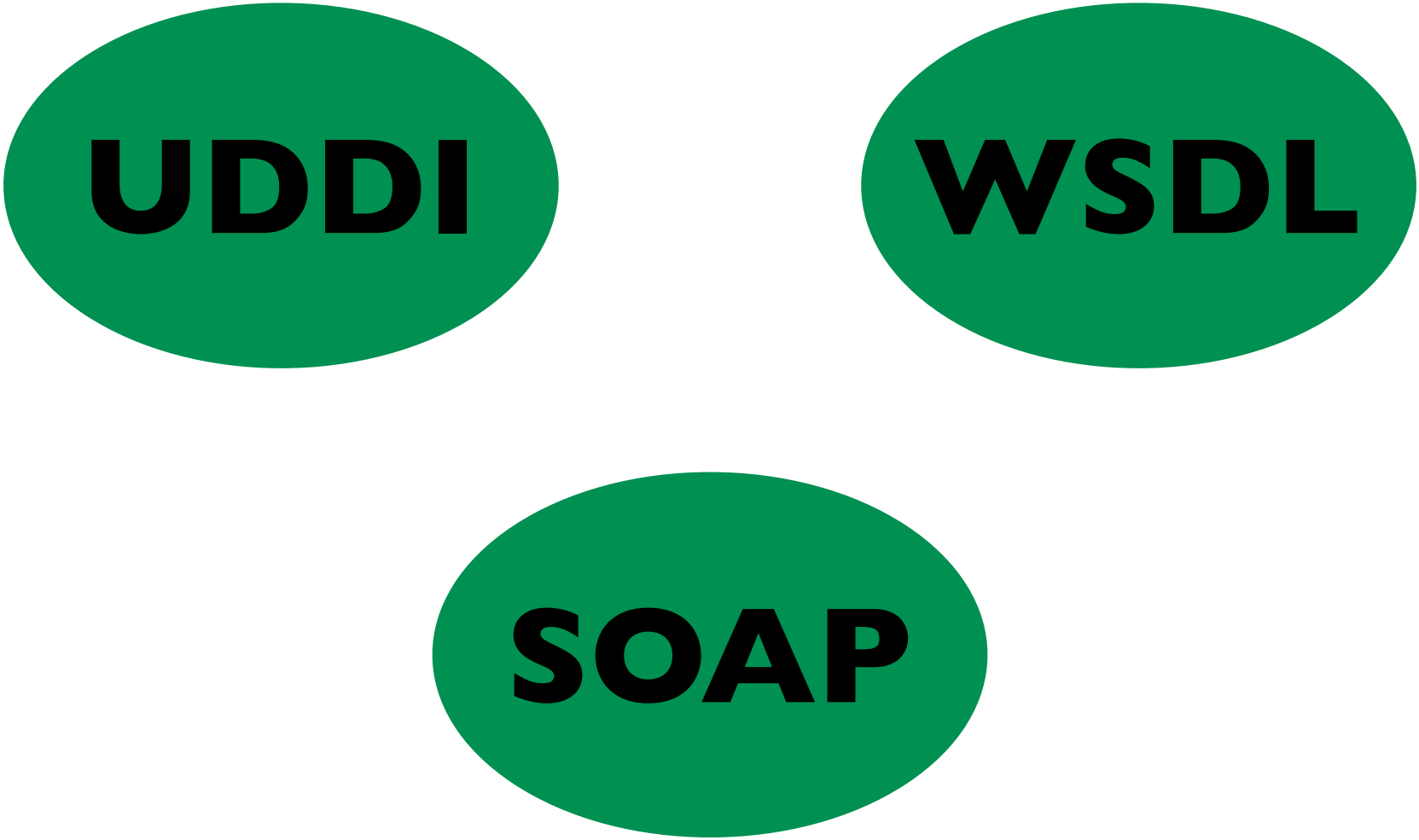
Web services



Web Services Technologies



“UnHoly” Trinity



The diagram consists of three green ovals arranged in a triangular pattern. The top-left oval contains the text 'UDDI', the top-right oval contains 'WSDL', and the bottom-center oval contains 'SOAP'. All text is in a bold, black, sans-serif font.

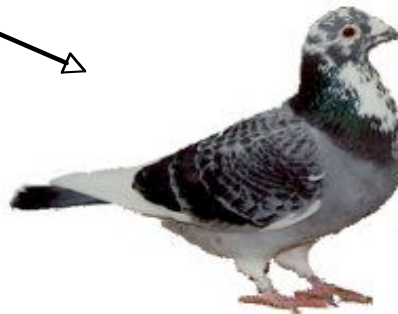
UDDI

WSDL

SOAP



Messages



Royal Mail recorded 1st or 2nd class

Signed for

Mickey
Mouse Egg



JR 0554 4116 6GB

FIRST CLASS

SPECIALIST Depot: 01

4859342/00

1ST CENTURY COUNTER

Telecom Plc(WESTSIDE D2K)

PAUL DOWNEY

9, CEDAR RD

REDCAR

CLEVELAND



4859342/00001HP3 9YF

Customer Contact D/Prout

Del. Reqmnts : *REQUEST RNID : GY229209

CC Order No 4859342/00

Despatch Date 02/02/05

Box 1

Customer Order No 091095165



091095165



091095165

SEA FRONT!

FRAGILE

DORIS SAYS Hi!

TJ12 5QX

UNITED

KINGDOM



Anonymous URIs

mailto:services@example.com


```
<wsa:EndpointReference xmlns:wsa="http://www.w3.org/2005/08/addressing">
  <wsa:Address>http://www.example.com/service</wsa:Address>
  <wsa:ReferenceParameters xmlns:customer="http://example.org/customer">
    <customer:CustomerKey>Key#123456789</customer:CustomerKey>
  </wsa:ReferenceParameters>
</wsa:Metada><definitions xmlns="http://schemas.xmlsoap.org/wsdl/">
  <!-- load of WSDL 1.1 here! --></definitions>
<description xmlns="http://www.w3.org/2006/01/wsdl"><!-- more WSDL 2.0 here! -->
</wsa:Metadata></wsa:EndpointReference>
```

Canterwell

Victoria

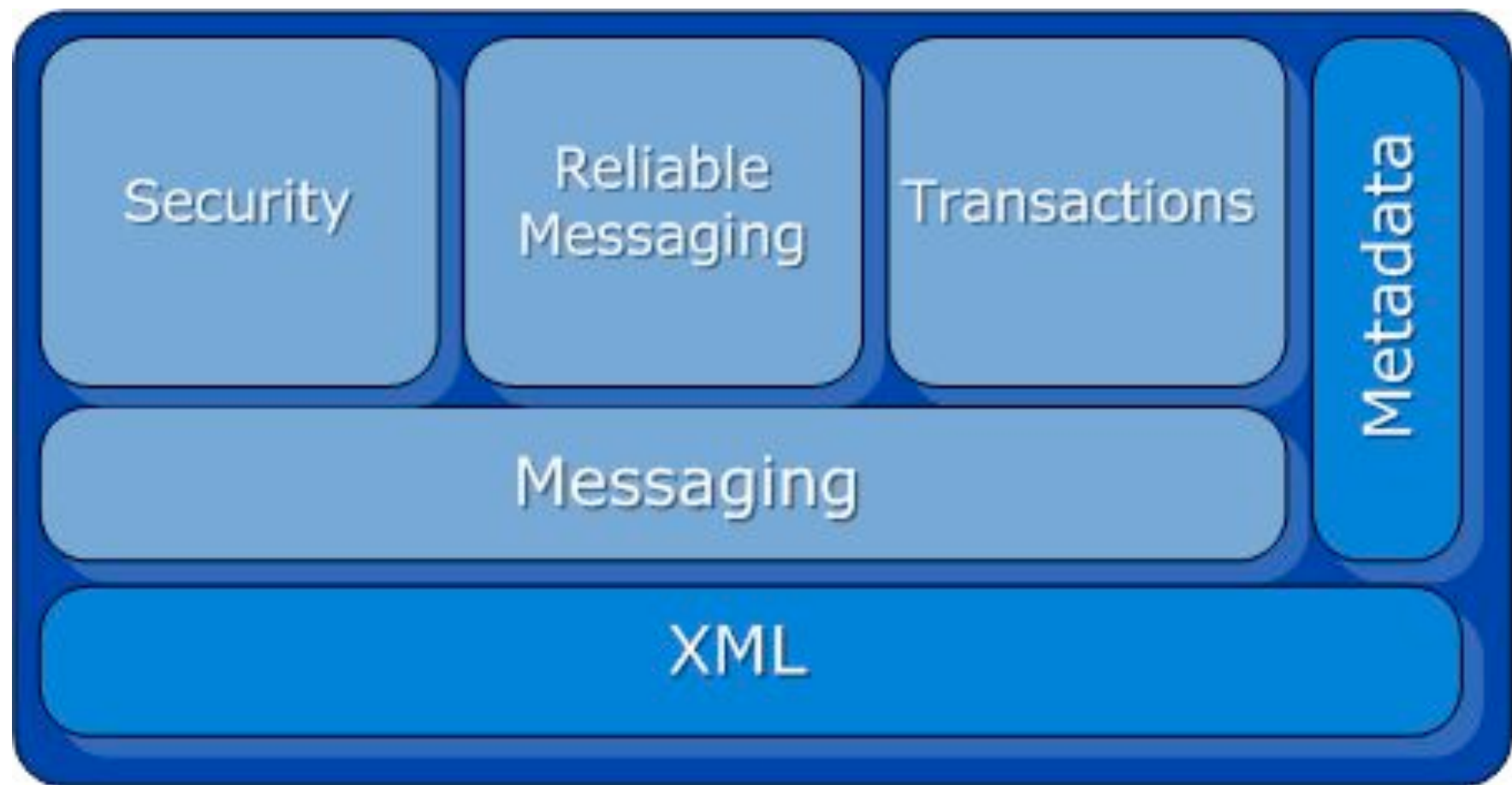
Marble Arch

Paddington



Transport Independence





Web Services Standards

Deutsche Post
 Deutsche Post AG
 SAP Group
 Siemensstrasse 10
 53111 Bonn
 Phone +49 (0) 228 182 19 019
 Fax +49 (0) 228 182 19 019
 SAP-Group@DeutschePost.de
 www.SAP-Group.com

Interoperability Issues

Basic Profile

WS-Addressing
WS-Discovery
WS-Exchange

Attachments Profile

WS-Attachments
WS-Exchange

Simple SOAP Binding Profile

WS-Addressing
WS-Exchange

Basic Security Profile

WS-Security
WS-Exchange

WS-Security Profile

WS-Security
WS-Exchange

SAML Token Profile

WS-Security
WS-Exchange

SAML Token Profile

WS-Security
WS-Exchange

Confidentiality Check Attachment Mechanism (CCAM)

WS-Security
WS-Exchange

Reliable Attachments Messaging Profile (RAM)

WS-Security
WS-Exchange

Business Process Specifications

Business Process Execution Language (BPEL)

WS-BPEL
WS-Exchange

Business Process Modeling Language (BPML)

WS-BPEL
WS-Exchange

WS-Choreography Model Overview

WS-Choreography
WS-Exchange

Web Service Choreography Description Language (WS-CDL)

WS-CDL
WS-Exchange

Web Service Choreography Interface (WS-SCI)

WS-SCI
WS-Exchange

Management Specifications

Web Services Management Framework (WSMF)

WSMF
WS-Exchange

WS-Eventing

WS-Eventing
WS-Exchange

Management Using Web Services (MWS)

MWS
WS-Exchange

Management of Web Services (MOWS)

MOWS
WS-Exchange

Metadata Specifications

WS-Policy

WS-Policy
WS-Exchange

WS-PolicyAssertions

WS-PolicyAssertions
WS-Exchange

WS-PolicyAttachments

WS-PolicyAttachments
WS-Exchange

WS-Discovery

WS-Discovery
WS-Exchange

WS-MetadataExchange

WS-MetadataExchange
WS-Exchange

Web Service Description Language (WSDL)

WSDL
WS-Exchange

Web Service Description Language (WSDL)

WSDL
WS-Exchange

Reliability Specifications

WS-ReliableMessaging

WS-ReliableMessaging
WS-Exchange

WS-Reliability

WS-Reliability
WS-Exchange

Security Specifications

WS-Security

WS-Security
WS-Exchange

WS-Security Assertions

WS-Security Assertions
WS-Exchange

WS-SecurityPolicy

WS-SecurityPolicy
WS-Exchange

WS-Security Assertions

WS-Security Assertions
WS-Exchange

WS-Security Assertions

WS-Security Assertions
WS-Exchange

WS-Security Assertions

WS-Security Assertions
WS-Exchange

WS-Security Assertions

WS-Security Assertions
WS-Exchange

WS-Security Assertions

WS-Security Assertions
WS-Exchange

Transaction Specifications

WS-Atomic Transaction

WS-Atomic Transaction
WS-Exchange

WS-Coordination

WS-Coordination
WS-Exchange

WS-Coordination Framework

WS-Coordination Framework
WS-Exchange

WS-Coordination Framework

WS-Coordination Framework
WS-Exchange

WS-Coordination Framework

WS-Coordination Framework
WS-Exchange

WS-Coordination Framework

WS-Coordination Framework
WS-Exchange

WS-Coordination Framework

WS-Coordination Framework
WS-Exchange

WS-Coordination Framework

WS-Coordination Framework
WS-Exchange

Resource Specifications

Web Services Resource Framework (WSRF)

WSRF
WS-Exchange

WS-BaseFaults

WS-BaseFaults
WS-Exchange

WS-BaseFaults

WS-BaseFaults
WS-Exchange

WS-BaseFaults

WS-BaseFaults
WS-Exchange

WS-BaseFaults

WS-BaseFaults
WS-Exchange

WS-BaseFaults

WS-BaseFaults
WS-Exchange

WS-BaseFaults

WS-BaseFaults
WS-Exchange

WS-BaseFaults

WS-BaseFaults
WS-Exchange

Messaging Specifications

WS-Notification

WS-Notification
WS-Exchange

WS-Notification

WS-Notification
WS-Exchange

WS-Eventing

WS-Eventing
WS-Exchange

WS-Eventing

WS-Eventing
WS-Exchange

WS-Eventing

WS-Eventing
WS-Exchange

WS-Eventing

WS-Eventing
WS-Exchange

WS-Eventing

WS-Eventing
WS-Exchange

WS-Eventing

WS-Eventing
WS-Exchange

SOAP

SOAP

SOAP
WS-Exchange

SOAP

SOAP
WS-Exchange

XML Specifications

XML

XML
WS-Exchange

XML

XML
WS-Exchange

Namespaces in XML

Namespaces in XML
WS-Exchange

XML Information Set

XML Information Set
WS-Exchange

XML Information Set

XML Information Set
WS-Exchange

XML Schema

XML Schema
WS-Exchange

XML Schema

XML Schema
WS-Exchange

XML Schema

XML Schema
WS-Exchange

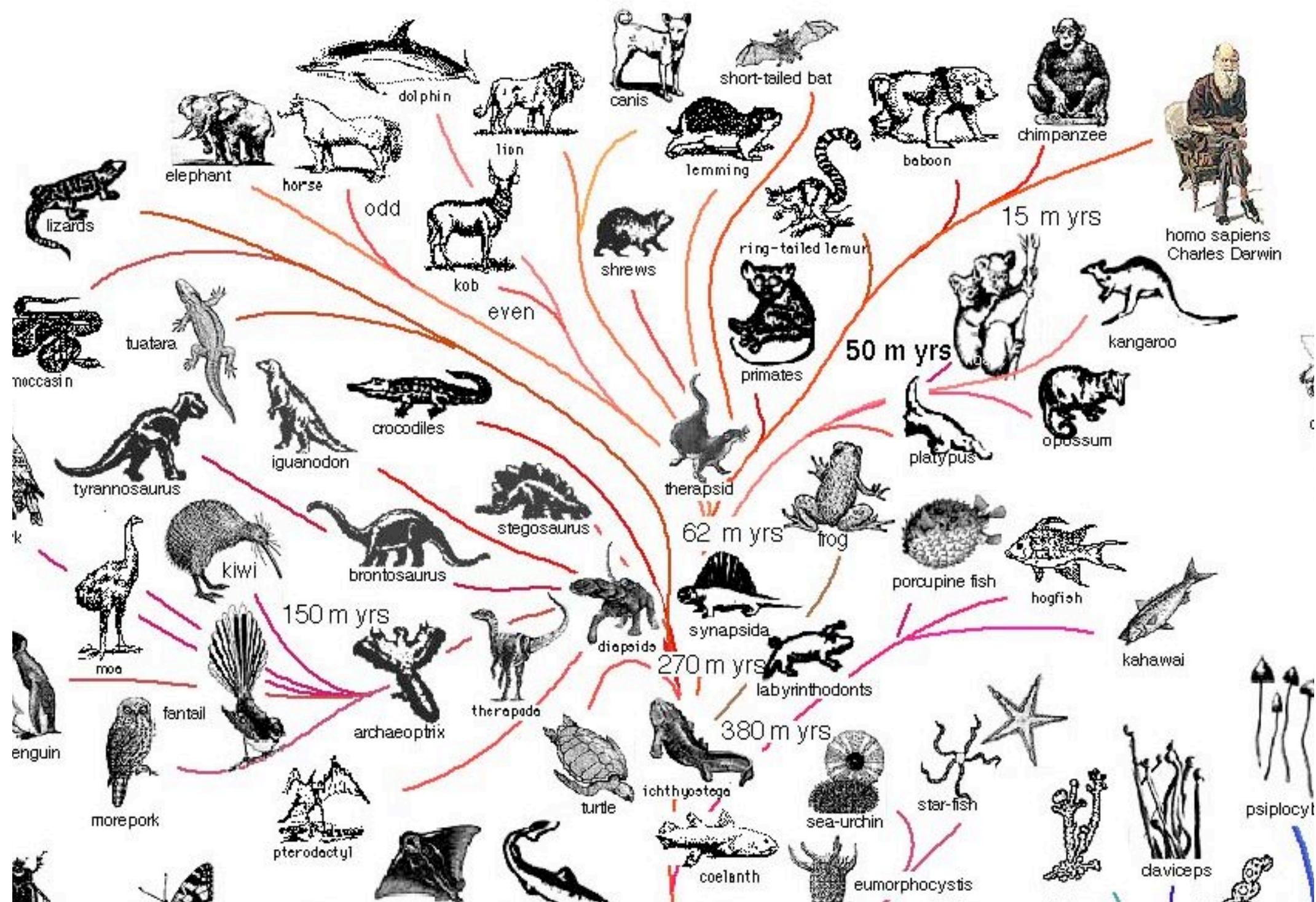
Dependencies



innoQ

innoQ Deutschland GmbH
Hafenstraße 11
D-40880 Ratingen
Telefon +49 (0) 21 03 21 03 - 100
Telefax +49 (0) 21 03 21 03 - 101
info@innoq.com | www.innoq.com

innoQ Schweiz GmbH
Gewerbestrasse 11
CH-4300 Cham
Telefon +41 (0) 41 743 01 11
Telefax +41 (0) 41 743 01 18
info@innoq.com | www.innoq.com

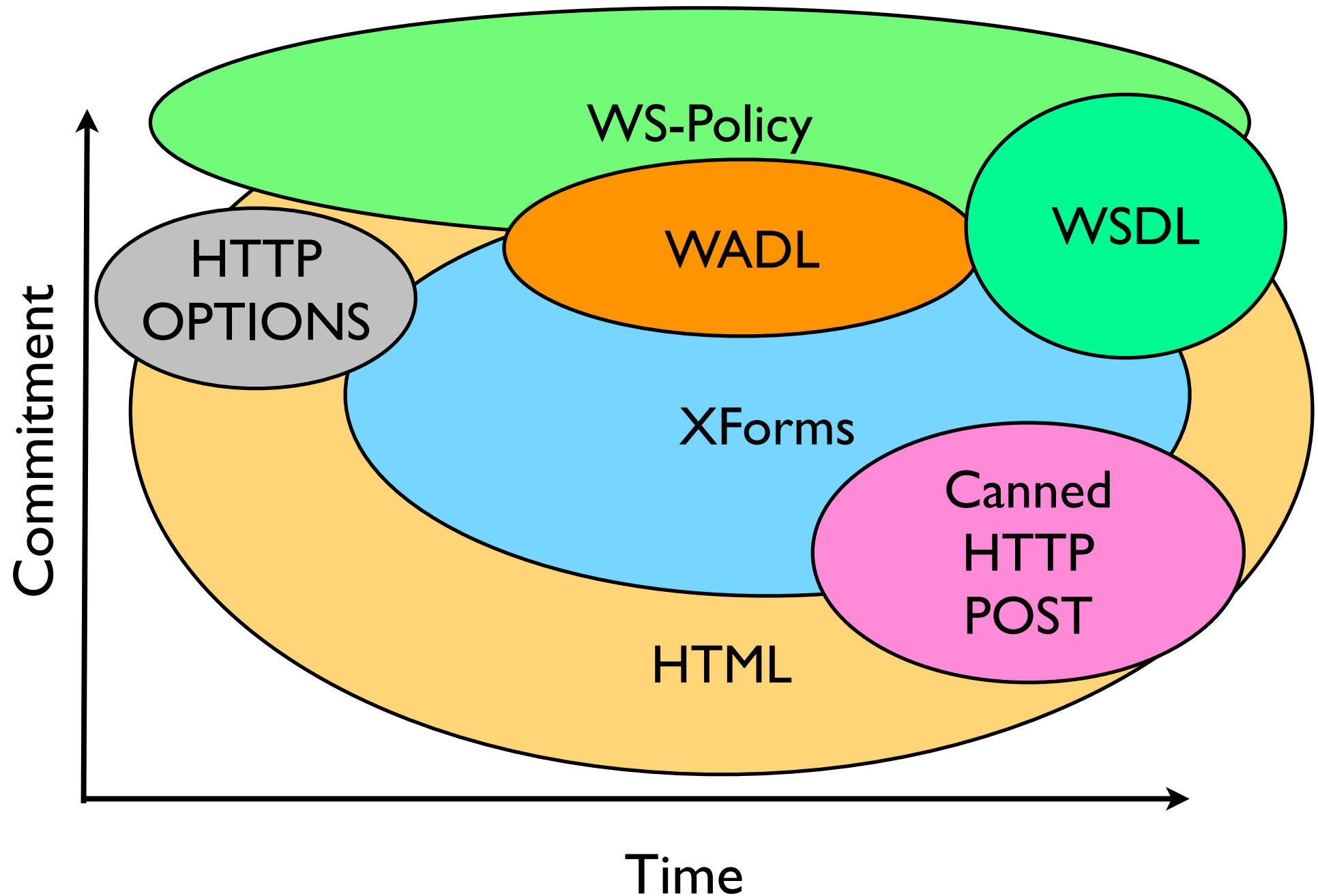






Welcome to Header Hell

META-META-DATA



SOA

Style?

Substance?



<http://www.soacenter.com/?p=33>

1. service levels

2. customisation

3. security

4. currency

5. obligation

6. exception handling

7. compensating transactions

8. choreography

9. monitoring

10. versioning

11. transformation

Explicit Boundaries

shared contract and schema, not class

Policy Driven

autonomous *wire formats not*

Programming Language APIs

Document Oriented

standards compliant *loosely coupled*
vendor independent

Metadata Driven

METACRAP

People lie

People are lazy

People are stupid

Mission Impossible - know thyself

Schemas aren't neutral

Metrics influence results

More than one way to describe it

**ALWAYS
OPEN
NEVER
CLOSED,
NO
WAITING.**



DO
EXPECTED
~~THE AGREED~~
THING!

Pain Points

- message contents
- versioning
- asynchronous transports

Protecting our Investment

Replacing the UK's PSTN with an IP based [21C Network](#)

Transforming the UK's [patient record system](#)

Hosting small and medium enterprise services in the Service Delivery Platform

Meeting regulatory obligations via [BT Openreach](#)

Integrating packages with legacy systems

Providing packaged SOA solutions such as [BT Integrate](#)

Enabling the [Digital Networked Economy](#) through ICT services

Exciting developers via the [Web21C SDK](#)



Recommendations

- WSDL 2.0
- Web Services Architecture
- Web Services Addressing



XML Schema Patterns for Databinding Working Group

<http://www.w3.org/2002/ws/databinding/>

Interoperability Report



Collection

Publisher	Document	Status	Source
databinding	unknown	unknown	saved/unknown.xsd
databinding	minmax	pending	saved/minmax.xsd
AWS	AWS-AmazonWebServices	pending	http://soap.amazon.com/schemas2/AmazonWebServices.wsdl
AWS	AWS-ECommerceService	pending	http://webservices.amazon.com/AWSECommerceService/AWS
AWS	AWS-DevLite	unknown	http://xml.amazon.com/schemas3/dev-lite.xsd
AWS	AWS-ec2	basic	http://s3.amazonaws.com/ec2-downloads/2006-06-26.ec2.wsdl
AWS	AWS-MechanicalTurkRequester	pending	http://mechanicalturk.amazonaws.com/AWSMechanicalTurk/A
AWS	AWS-MechanicalTurkRequeserXsd	pending	http://mechanicalturk.amazonaws.com/AWSMechanicalTurk/20
AWS	AWS-MechanicalTurkAnswerKey	advanced	http://mechanicalturk.amazonaws.com/AWSMechanicalTurkDa
AWS	AWS-MechanicalTurkQuestionFormAnswers	unknown	http://mechanicalturk.amazonaws.com/AWSMechanicalTurkDa
AWS	AWS-AlexaMSR	pending	http://msearch.amazonaws.com/doc/2007-03-15/MSR.wsdl
Web21C	BT-SDK-Messaging-Inbound	basic	http://sdk.bt.com/2007/04/Messaging/Inbound.wsdl
Web21C	BT-SDK-Messaging-OneWay	basic	http://sdk.bt.com/2007/04/Messaging/OneWay.wsdl
Web21C	BT-SDK-Session-Conferencing	basic	http://sdk.bt.com/2007/01/Session/Conferencing.wsdl
Web21C	BT-SDK-Session-ThirdPartyCall	advanced	http://sdk.bt.com/2007/01/Session/ThirdPartyCall.wsdl
Web21C	BT-SDK-Location	basic	http://sdk.bt.com/2007/01/Location/Location.wsdl
Web21C	BT-SDK-Location-Permission	basic	http://sdk.bt.com/2007/01/Location/Permission.wsdl
Web21C	BT-SDK-WhiteLabelAuthentication	advanced	http://web21c.bt.com/2007/01/WhiteLabelAuthentication/WhiteL
CapeClear	GlobalWeather	basic	http://live.capeclear.com/ccx/GlobalWeather?wsdl
FoxCentral	FoxCentral	basic	http://www.foxcentral.net/foxcentral.wsdl
EBay	EBay-463	pending	http://developer.ebay.com/webservices/463/ebaySvc.xsd
Google	Google-Feed	unknown	http://www.google.com/local_feed.xsd
Google	Google-Base	unknown	http://base.google.com/base/base.xsd
Google	Google-Search	pending	http://api.google.com/GoogleSearch.wsdl



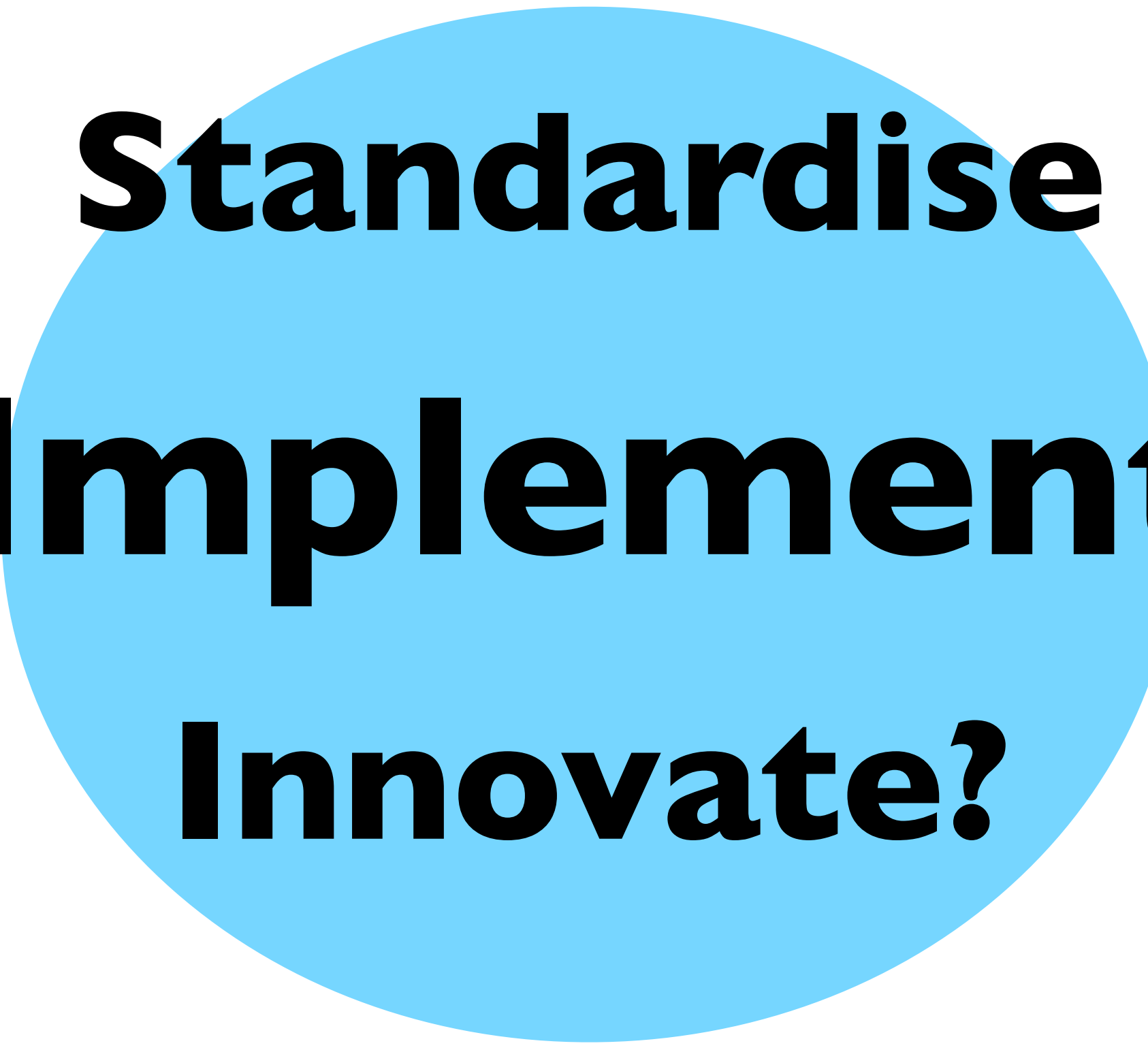
Workshops

- XML Schema User Experiences
- Constraints and Capabilities
- Enterprise Computing

Profiles

- Basic Profile
- Basic Security Profile
- Requirements Capture
- XML Schema Planning

- WS-RX
- WSS
- WS-SX
- Verticals



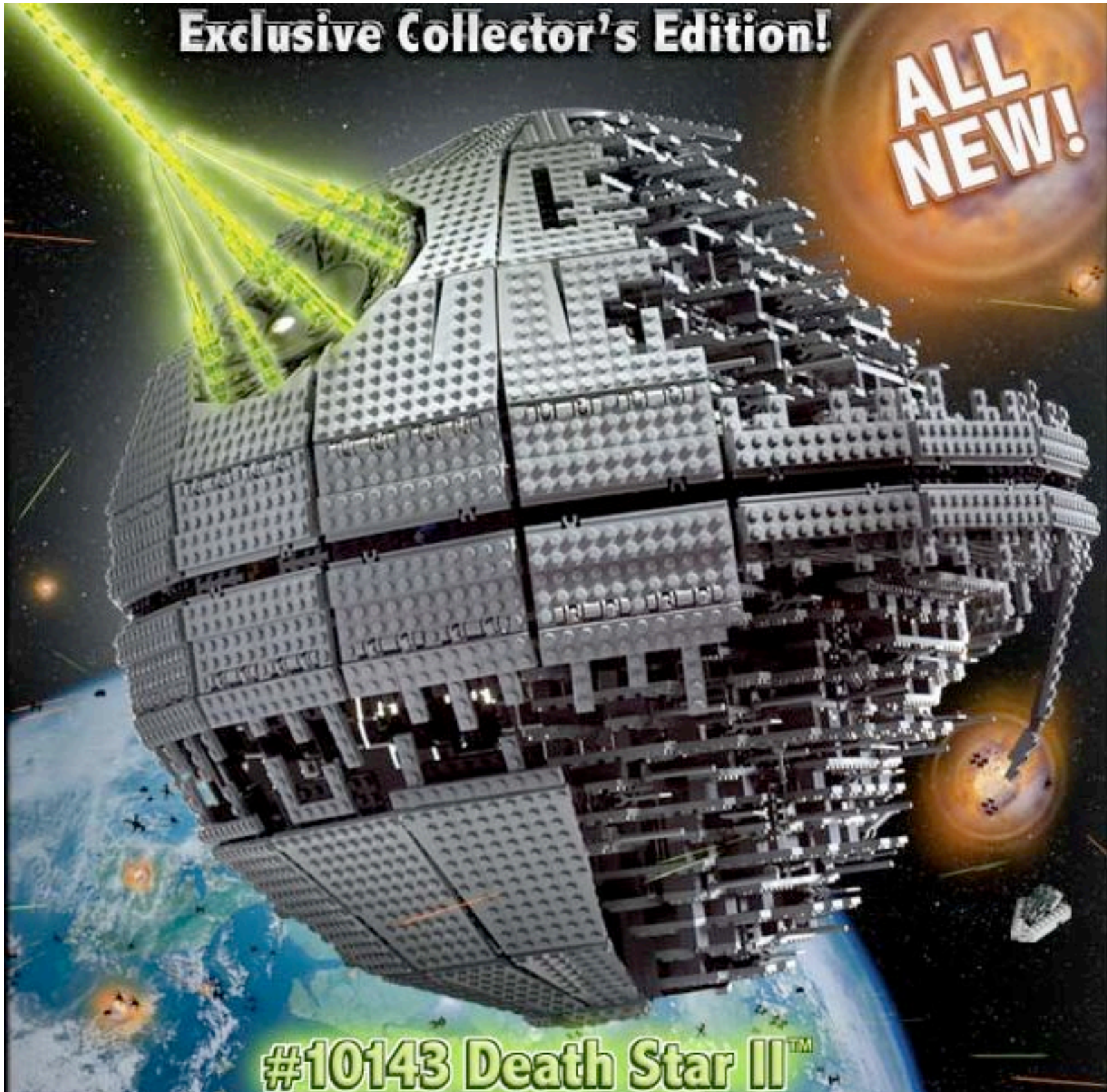
Standardise
Implement
Innovate?

WS -



Exclusive Collector's Edition!

**ALL
NEW!**



#10143 Death Star II™

Services on The Web





They

HATE

SOAP!

But

LOVE

The Web

ENTERPRISE

-impedance mismatch-

MASHUP

**Isn't the Web
"Good Enough?"**

is it safe?



**Resources
demand**

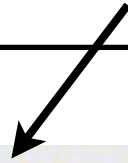
cool | URIs

cool URIs

Message-Id: <2A7793353757DB4392DF4DFBBC9522550A20155C@I2KM11-UKBR.domain1.systemhost.net>

X-Original-To: public-xsd-databinding@w3.org

X-Archived-At: <http://www.w3.org/mid/2A7793353757DB4392DF4DFBBC9522550A20155C@I2KM11-UKBR.domain1.systemhost.net>



[W3C home](#) > [Mailing lists](#) > [Public](#) > public-xsd-databinding@w3.org > [February 2007](#)

Agenda: XML Schema Patterns for Databinding F2F 13-15 February 20

This message: [[Message body](#)] [[Respond](#)] [[More options](#)]

Related messages: [[Next message](#)] [[Previous message](#)]

From: <paul.downey@bt.com>

Date: Thu, 8 Feb 2007 14:43:26 -0000

Message-ID: <2A7793353757DB4392DF4DFBBC9522550A20155C@I2KM11-UKBR.domain1.systemhost.net>

To: <public-xsd-databinding@w3.org>

[1st Draft Agenda. Suggestions Welcome!]

XML Schema Patterns for Databinding Working Group

Representations

- HTML
- RSS/Atom
- XML
- JSON
- *whatever*

Let's make a

Phone

Call!

WARNING!

You are about to see

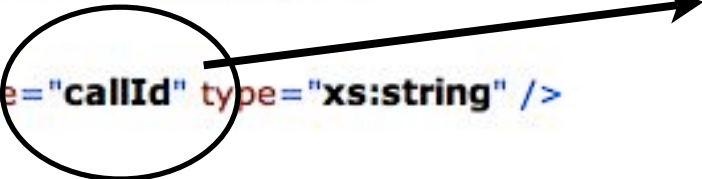
NAKED

ANGLE BRACKETS

<SOAP/>

CREATE CALL

```
- <xs:element name="makeCall">
  - <xs:complexType>
    - <xs:sequence>
      <xs:element name="callingParty" type="xs:anyURI" />
      <xs:element name="calledParty" type="xs:anyURI" />
      <xs:element name="dialTimeoutSec" type="xs:int" minOccurs="0" nillable="true" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
- <xs:element name="makeCallResponse">
  - <xs:complexType>
    - <xs:sequence>
      <xs:element name="callId" type="xs:string" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
```



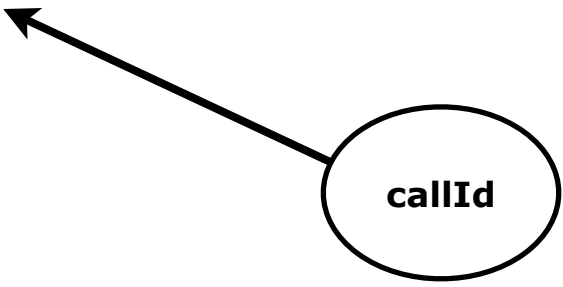
```
- <wsdl:operation name="makeCall">
  <wsoap:operation soapAction="http://sdk.bt.com/2007/01/Session/ThirdPartyCall#makeCall" />
  - <wsdl:input name="makeCallRequest">
    <wsoap:body use="literal" />
  </wsdl:input>
  - <wsdl:output name="makeCallResponse">
    <wsoap:body use="literal" />
  </wsdl:output>
</wsdl:operation>
```

CALL INFO

```

- <xs:complexType name="CallInformation">
  - <xs:sequence>
    <xs:element name="callStatus" type="sdk:CallStatus" />
    <xs:element name="startTime" type="xs:dateTime" minOccurs="0" />
    <xs:element name="duration" type="xs:int" />
    <xs:element name="callTerminationCause" type="sdk:CallTerminationCause" />
  </xs:sequence>
</xs:complexType>
- <xs:simpleType name="CallStatus">
  - <xs:restriction base="xs:string">
    <xs:enumeration value="CallInitial" />
    <xs:enumeration value="CallConnected" />
    <xs:enumeration value="CallTerminated" />
  </xs:restriction>
</xs:simpleType>
- <xs:simpleType name="CallTerminationCause">
  - <xs:restriction base="xs:string">
    <xs:enumeration value="CallingPartyUnavailable" />
    <xs:enumeration value="CalledPartyUnavailable" />
    <xs:enumeration value="CallingPartyHungUp" />
    <xs:enumeration value="CalledPartyHungUp" />
    <xs:enumeration value="CallTerminatedByController" />
    <xs:enumeration value="CallNotTerminated" />
  </xs:restriction>
</xs:simpleType>
- <wsdl:operation name="getCallInformation">
  <wsdl:input name="getCallInformationRequest">
    <wsdl:body use="literal" />
  </wsdl:input>
  <wsdl:output name="getCallInformationResponse">
    <wsdl:body use="literal" />
  </wsdl:output>
</wsdl:operation>

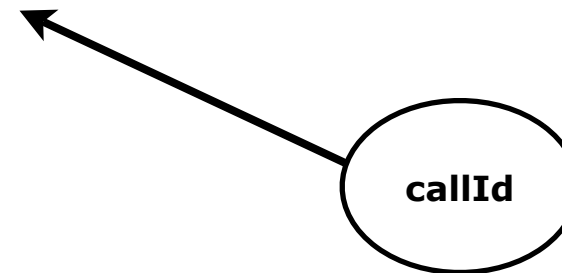
```



The diagram illustrates the relationship between the `callId` attribute and the `CallStatus` simple type. A circle labeled `callId` has an arrow pointing to the `<xs:simpleType name="CallStatus">` definition in the XML schema, indicating that `callId` is of type `CallStatus`.

END CALL

```
- <wsdl:message name="endCallRequest">  
  <wsdl:part name="parameters" element="sdk:endCall" />  
</wsdl:message>  
- <wsdl:message name="endCallResponse">  
  <wsdl:part name="parameters" element="sdk:endCallResponse" />  
</wsdl:message>
```



REST://

Make Phone Call

callingParty:
calledParty:

makeCall

CREATE CALL

```
HTTP POST http://example.com/calls
Content-Type: application/x-www-form-urlencoded
Accept: text/xml; charset=utf-8

callingParty=tel:+447918808
calledParty=sip:Merlin
```



```
HTTP 1.1 201 Created
Location: http://example.com/calls/123213
Content-Type: text/xml; charset=utf-8

<callInfo>
  <callId>http://example.com/calls/123213</callId>
  <callStatus>Initial</callStatus>
</callInfo>
```

GET CALL INFO

```
HTTP GET http://example.com/calls/123213
Accept: text/xml
```



```
200 OK
Content-Type: text/xml; charset=utf-8

<callInfo>
  <callId> http://example.com/user/fred/calls/123213
  <callStatus> CallInitial </callStatus>
  <callingParty> tel:+447918880...
  <calledParty> tel:+447918880...
  <timeStarted> 2007-01-09 11:45:20
  <duration> 502
  <terminationStatus> CallNotTerminated
</callInfo>
```

END CALL

```
HTTP POST http://example.com/calls/123213  
Content-Type: application/x-www-form-urlencoded  
  
callStatus=Terminated
```



```
202 Accepted  
Location: http://example.com/calls/123213
```


RECENT CALLS

```
HTTP GET http://example.com/calls/feed
```



```
200 OK
Content-Type: application/atom+xml
```



```
<feed xmlns="http://www.w3.org/2005/Atom">
  <title>Phonebox Calls</title>
  <link rel="self" href="http://example.com/calls/"
        rel="alternate" type="text/html"/>
  <updated>2007-01-09T11:45:02Z</updated>
  <author><name>Phonebox</name></author>
  <id>tag:example.com,2007-01-09:/calls</id>
  <entry>
    <link href="http://example.com/user/psd/calls/1234567/" />
    <title>Call 1234567</title>
    <id>tag:example.com/calls/1234567-200701091223313</id>
    <summary>CallInformation</summary>
    <updated>2005-10-13T18:30:02Z</updated>
  </entry>
  <entry>
    <link href="http://example.com/user/fred/calls/17231667/" />
    ...
  </entry>
</feed>
```

CONTENT

HTTP GET:

```
Accept: application/weatherml+xml; q=1.0,  
        application/xml; q=0.8,  
        text/html; q=0.5
```

Apache Server .htaccess:

```
AddType application/weatherml+xml wea  
Options +MultiViews
```

```
./index.wea  
./index.xml  
./index.html
```

CACHING

```
HTTP GET http://flickr.com/photos/psd/2450160  
If-Modified-Since:  Fri, 31 Dec 1999 23:59:59 GMT  
If-None-Match:  'guid-21343244324'
```



```
HTTP/1.1 412 Precondition Failed
```

OVERALL ..

<http://mojo.bt.com/calls>

<http://mojo.bt.com/calls/paul/feed>

<http://mojo.bt.com/calls/paul/7d6374da5>

<http://mojo.bt.com/calls/paul/search?caller=tel:%3A44791888>

<http://mojo.bt.com/texts/>

<http://mojo.bt.com/texts/paul/feed>

<http://mojo.bt.com/texts/paul/7d6374da5>

<http://mojo.bt.com/texts/paul/7d6374da5>

<http://mojo.bt.com/texts/paul/search?from=tel:%3A44791888>

....

**BROWSER
FRIENDLY**

JUST ON

THE WEB

How Web Standards *Emerge*



Location (location)

Name:

Prompt:

Position:

Default:

Debug:

Location Builder

Location:

URL Builder

Base:

☐ Path elements

☐ Query parameters

☒ lat :

☒ long :

Fetch Feed

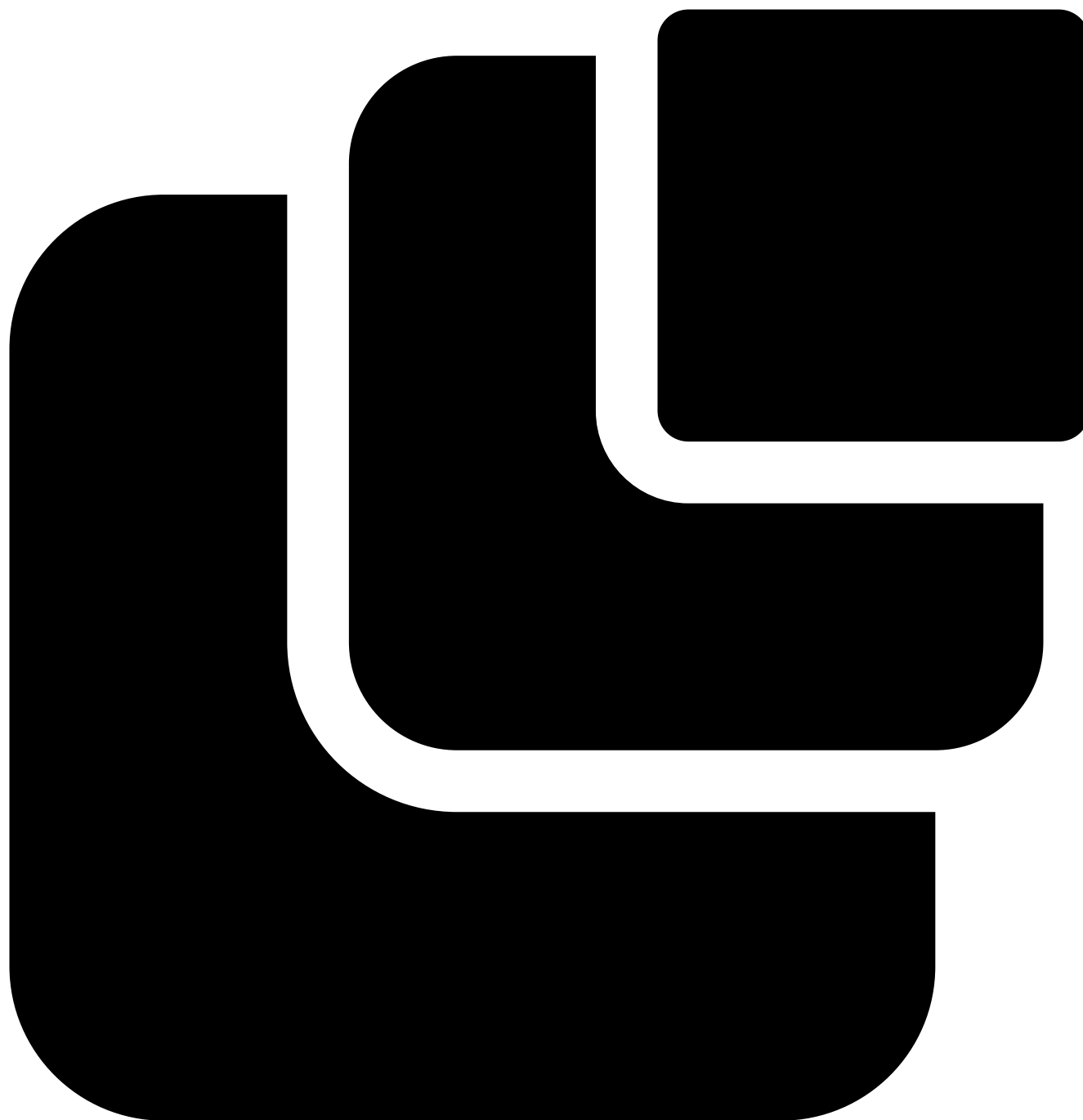
☐ URL

☒ url [wired]

Pipe Output

Debugger: Location Input (0 items)

Time taken: 0.000126s [Refresh](#)country **United Kingdom**lat **51.511459**city **London**lon **-0.099740**quality **50**





Get any content from the web

Enter a website or the content / services you want:

e.g. youtube.com, photos, translation

Choose format (RSS, XML, Google Maps...)

Search >

or [create a new Dapp](#)

Get more traffic to your site

Easily provide new means for people to access your content (such as RSS). You can use Dapper to create feeds, widgets, and APIs with your content and links.

[License and distribute my content >](#)

New to Dapper?

[Check out our demo](#)

[Explore user generated Dapps](#)

Apps That Use Dapper

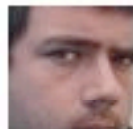


Featured Partners



What are you doing?

140

[Archive](#)
[Replies](#)
[Recent](#)


iand trying to make rss 1.0 look a lot like z39.50 (only joking!) 4 minutes ago from web ☆



kplawver Awake earlier than I would like. Not looking forward to today. 8 minutes ago from txt ☆



zeldman back on the monster at 5 AM (stopped at 10 last night). Oncoming train may actually be light at end of tunnel. 11 minutes ago from web ☆



psd "we had an unsustainable legacy devouring huge amounts of cash" – describing the IT equivalent of Hooray Henrys 14 minutes ago from web ☆ 🗑️



JaneFoth excellent comment spotted "if they need more than that then ill eat my hat!" 15 minutes ago from Tweetr ☆ 🔒



stephtara fenêtre sur internet, guide du cybermonde à l'attention

Hi, [your profile](#)



Paul Downey



Discover more with [Twitter Tracking!](#)

Currently

"we had an unsustainable legacy devouring huge amounts of cash" – describing the IT equivalent of Hooray Henrys

Notifications [add device](#)

- ☐ im
- ☒ phone
- ☐ web-only

Stats

Following	143
Followers	127
Favorites	9
Direct Messages	38
Updates	1,191



Log in with your Twitter account

Username:

Password:

Log In

[Don't have a Twitter Account?](#)
[Forgot your password?](#)

[What is this?](#)

Note: Twitter is experiencing rapid growth lately which may result in some delays. Thanks for your patience!

Live

Saved

Popular

Save

leaving the
zeitonline twitter
after just one day:
3 pages of twits
within 1 hour. are
they crazy?

Donna leaves to
visit out west for
the weekend, i'll
be in yard work
city



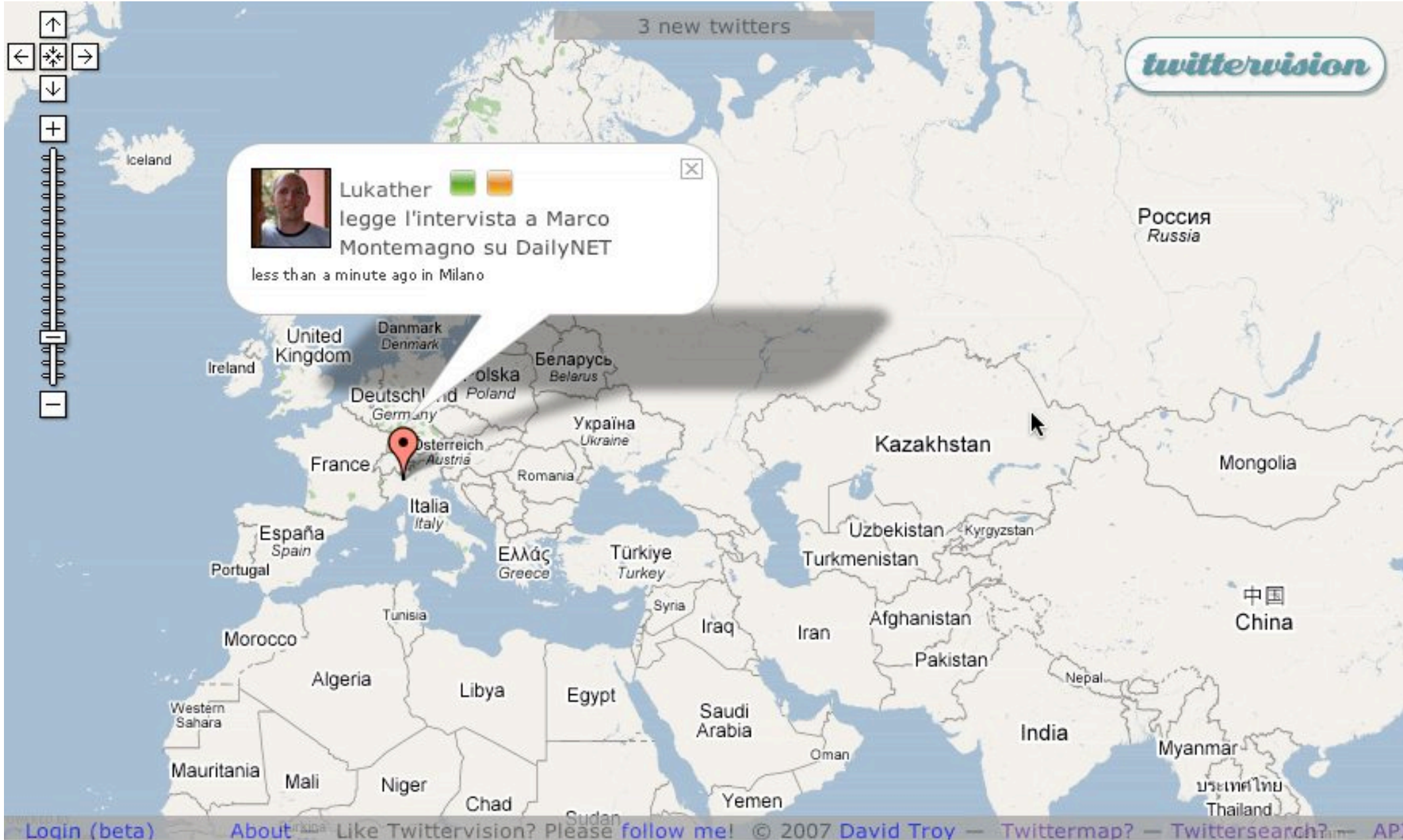
Peter Bihr Berlin, Germany **Steve Veeneman** Northern Illinois, USA

Paul Downey

What fettle, marras

Tweets

- "we had an unsustainable legacy devouring huge amounts of cash" - describing the IT equivalent of Hooray Henrys [less than a minute ago](#)
- @cubicgarden Tickets sold out in only Twelve minutes? #BarCampLondon needs bigger premisis or to become a membership club [23 minutes ago](#)
- "rule of one" seems to be the mantra here, sigh. [52 minutes ago](#)
- Audience is much smaller but far scarier than expected. [about an hour ago](#)
- @psd notes @Casablanca is also up obscenely early as he heads east into darkest Suffolk [about 5 hours ago](#)
- my presentation buddy has the flu so looks like I'm playing extreme Powerpoint Karaoke in front of some 400 poor souls tomorrow. [about 16 hours ago](#)
- Finds a one hour photo, but suspects that's just the length of the queue
L:[Paternoster square, London](#) [about 23 hours ago](#)
- Stepped outside into the sunshine ahead of a meeting to take some photos only to realise my #Leica battery is flat. BUMS [about 23 hours ago](#)
- seems it's a lazy #RobertWyatt# kinda Sunday afternoon. In other news, bummed #SHDH #OAuth hack was 5371 miles and 8 timezones away. [1 day ago](#)
- Jed's left over homemade lentil curry on hot buttered toast with Chai. Mmmm
[#foodporn](#) [1 day ago](#)







From [factoryjoe](#)



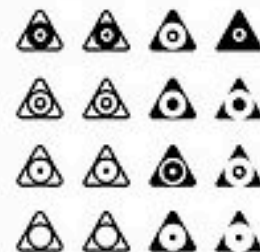
From [wionline](#)



From [rolfsky](#)



From [splorp](#)



From [splorp](#)



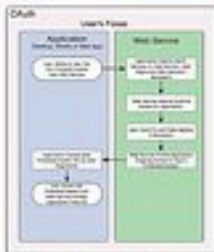
From [splorp](#)



From [splorp](#)



From [Simon Gate](#)



From [toddsiegl](#)



From [wionline](#)



From [wionline](#)



From [wionline](#)



From [wionline](#)



From [factoryjoe](#)



From [factoryjoe](#)



From [factoryjoe](#)



From [Lachlan Hardy](#)



From [Potsy](#)



From [madamecito](#)



From [Lachlan Hardy](#)



From [JettX](#)



From [JettX](#)



From [JettX](#)



From [leah.culver](#)



waka



most html5 drama is a result of
pragmatic empiricists finally
challenging idealistic dogmatists.

17 minutes ago from web ★



Tantek Çelik



**Implement
Innovate
Standardise!**

Standards Bodies

- **Independent Ownership**
- **IP Shelter**
- **Brand Value**