



Overview of the World Wide Web Consortium

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<http://www.w3.org/2005/Talks/1110-sb-w3c-overview-ind/>

presented at the

International Conference & Workshop on Web Technologies

on the occasion of the launch of the [W3C Indian Office](#)

Outline

- Mission
- Key Ingredients
 - *Organization, Leadership, Process*
- Technologies
 - *Areas, Achievements*
- Future Directions
 - *Focus: Expanding int'l participation*

Mission: Leading the Web to its Full Potential

Founded by Web inventor Tim Berners-Lee in 1994, W3C is:

- **Providing the Vision to Lead.**
- **Engineering the Standards that Make the Web Work.**



■ From a Web of Documents ...

■ ... toward one Web:

- *of Data and Services*
- *on Everything*
- *for Everyone*
- ... *that is Interoperable, Trustworthy, Evolving with time ...*

W3C[®] WORLD WIDE WEB
c o n s o r t i u m

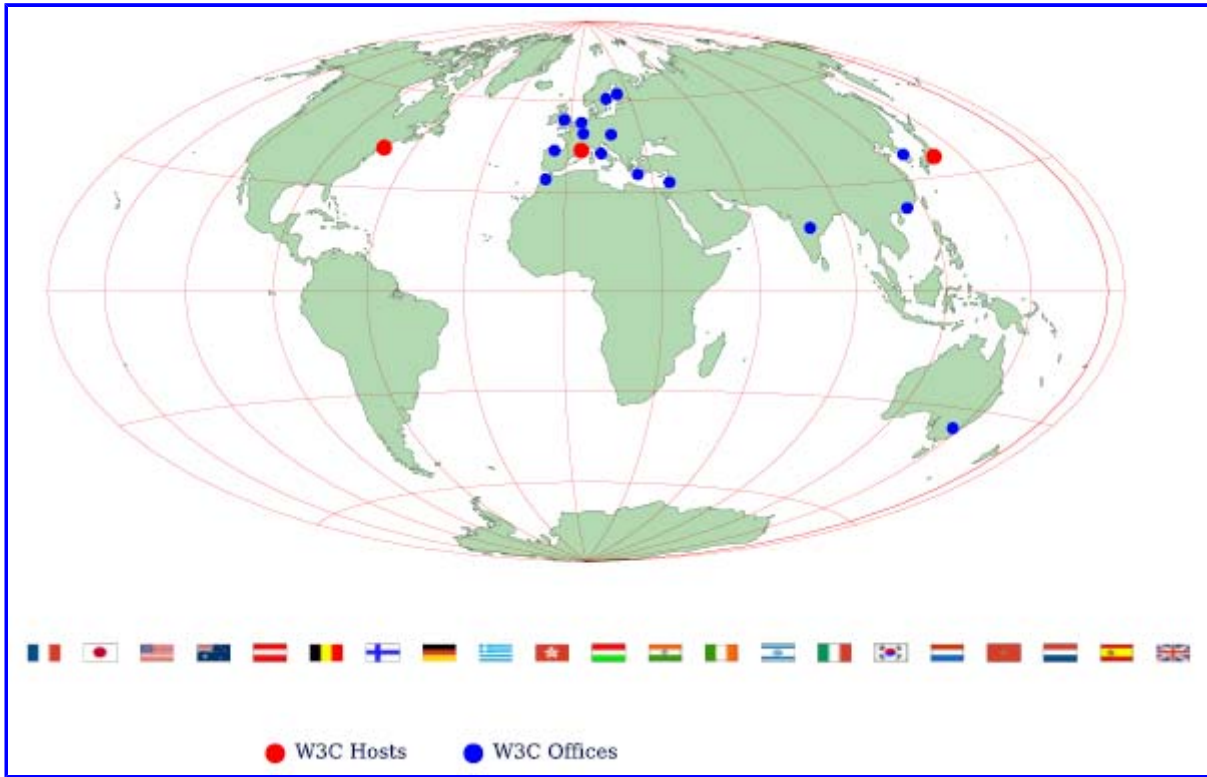
(Membership / Benefits / "At a Glance" brochure)

International Web Standards Organization

Expanding base of international operations

- **3 Hosts:** Massachusetts Institute of Technology | European Research Consortium for Informatics and Mathematics | Keio University (*map*)
- **15 Offices**(*map*): Australia | Benelux/Bénélux | Suomi | Deutschland und Österreich | Ελλάδα | 香港 | Magyarország | भारत | ישראל | Italia | 한국 | المغرب | España | Sverige | United Kingdom and Ireland (*map*)

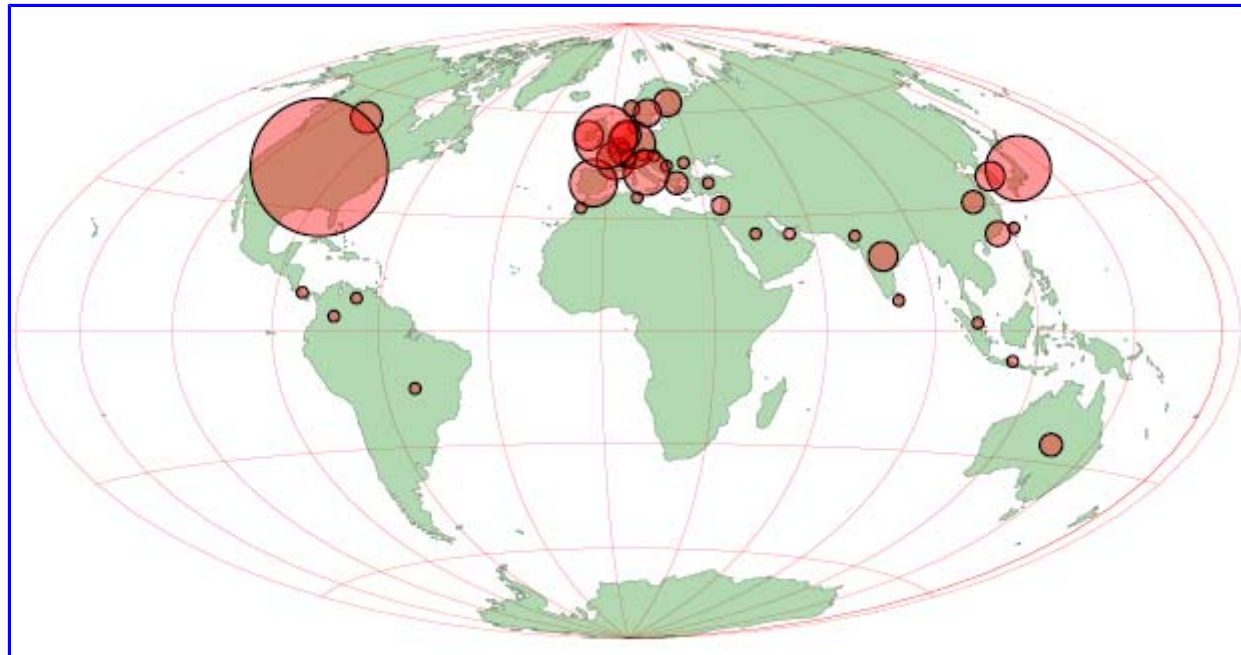
Office discussions underway: China, Latin America.



International Leadership and Cooperation

Expanding base of the world's leading technology organizations and technologists

- Accountable to the **Global Public**
- 40 **Liaisons** with other international standards bodies
- 65 Member-neutral **Technical Staff** ([map](#))
- 400 **Members** driving standardization work ([history map](#)) ...



Member Profile

"Third-class companies make products; second-class companies develop technology; first-class companies set standards."

W3C's Membership includes

- commercial companies (vendors and consumers)
- academic institutions
- research laboratories
- government agencies
- non-profit organizations

... organizations, which are ...

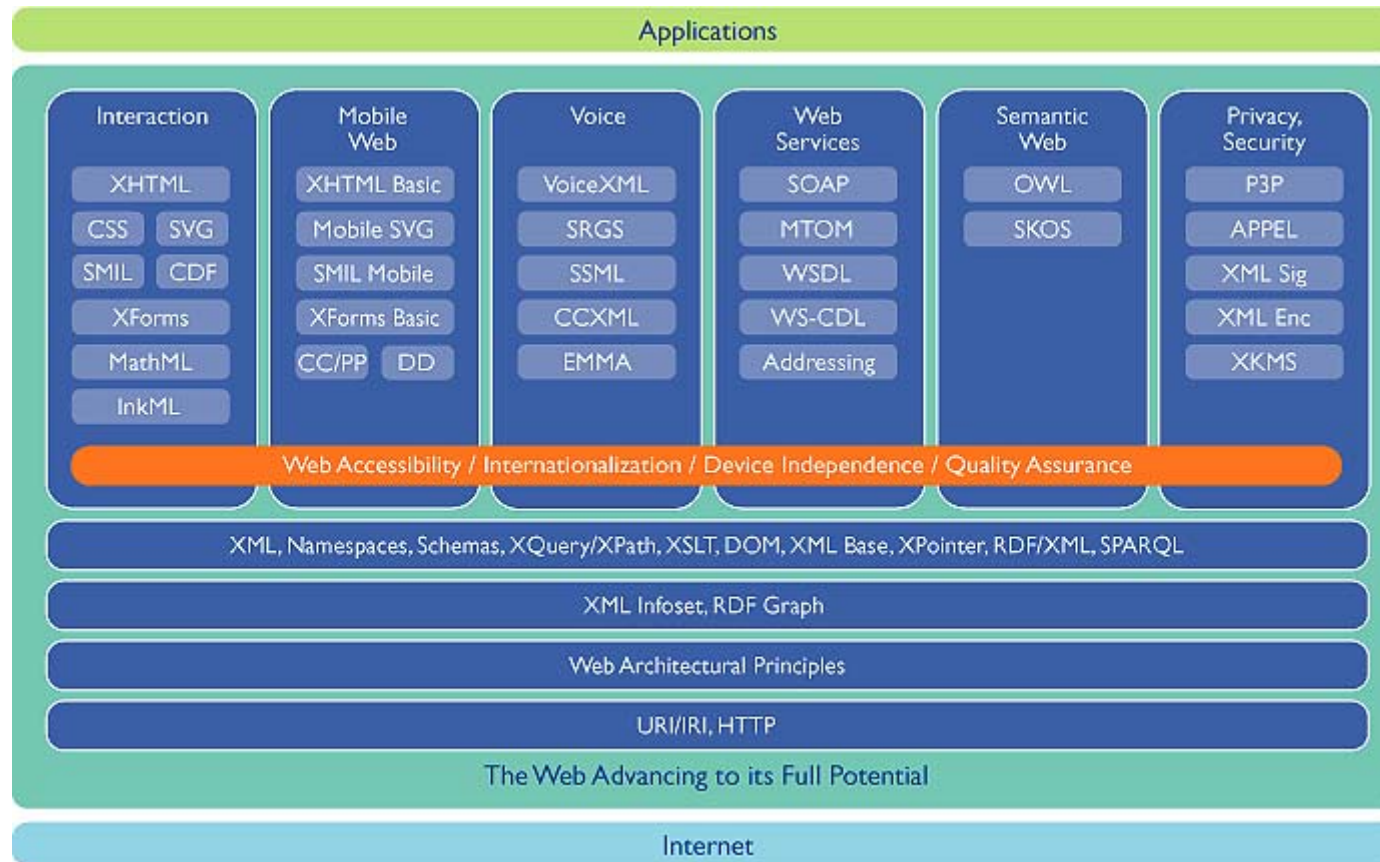
- developing Web-based products
- leveraging Web technologies as an enabling medium for your work
- conducting research on the Web
- developing specifications built upon W3C's work

* popular saying in Chinese business and government, from *China's Post-WTO Technology Policy: Standards, Software and the Changing Nature of Techno-Nationalism*,
by Richard P. Suttmeier and Yao Xiangkui.

Developing Standards at W3C

- Clear and effective **Process**:
 - *Member-neutrality*
 - Clear **Patent Policy**
 - Consistent **architectural framework**
 - [Architecture of the World Wide Web, Vol 1](#)
 - **Coordination, consensus and interoperability**
 - No "rubber stamping"
 - Must engineer dependencies (inside and outside of W3C)
 - *Views of the Process: [Life of Working Group](#), [Recommendation Track](#)*
- Incubator Activity - soon to be launched
 - *Quicker, lighter process for efforts that are innovative and not-yet-ready for standardization*

W3C Engineers the Foundation of the Web

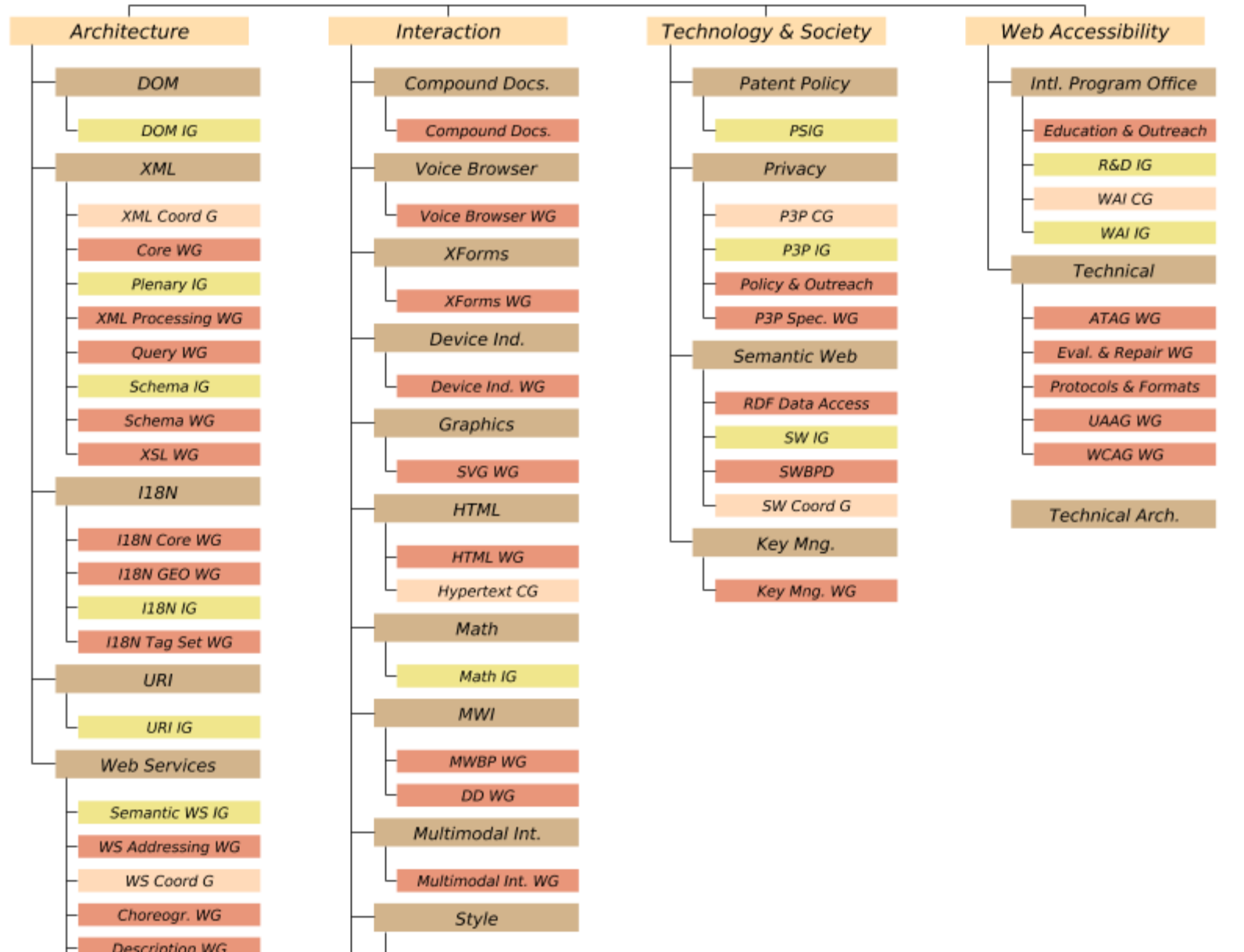


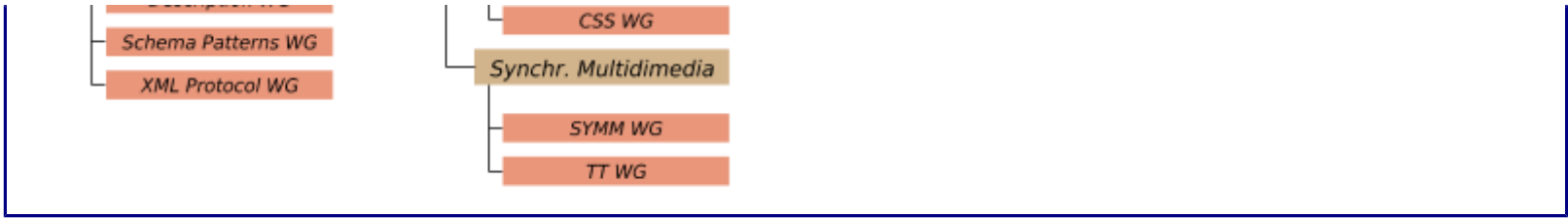
W3C Groups and Web Standards

Current work done in ~50 Working, Interest and Coordination Groups



W3C Groups





W3C Groups and Web Standards

80+ Standards to date ([list](#) / [svg-by-yr](#) / [translations](#))

1996	1998	1999	2000	2001	2002	2003	2004	2005
PNG	XML 1.0	CSS 1	ATAG 1.0	MathML 2.0	XML Signature	SVG 1.1	CC/PP	SMIL 2.0
PICS 1.1	MathML 1.0	Namespaces	XML 1.0	Canonical XML	P3P 1.0	SVG Mobile	DOM 3	Bin. Data in SOAP
CSS1	CSS 2	WebCGM	DOM 2	Ruby	ML Canonicalizatic	XPointer	Infoset (2nd)	Char Model
	SMIL 1.0	RDF (Old Version)	(X)HTML	XLink 1.0	XPath Filter	SOAP 1.2	Namespaces 1.1	XKMS
	DOM 1	WCAG 1.0		XML Base	Decrypt Transform	XForms 1.0	XML 1.0 (3rd)	XKMS Bindings
		Style Sheets PI		SMIL 2.0	XML Encryption	XML Events	XML 1.1	QA Framework
		MathML 1.01		SMIL Animation	UAAG1.0	MathML 2.0	OWL	xml:id
		XPath 1.0		SVG 1.0		PNG (2nd)	RDF	
		XSLT 1.0		XSL 1.0			Voice Framework	
				Infoset			XML Schemas	
				WebCGM			WebArch	
							XInclude	

Date: 19-Sep-2005

Leading Edge: Latest and Future

■ Web of Data and Services

- *XML: Future, Binary, Processing Model*
- *Web Services: Performance, Addressing, SemWeb Services, Policy, Schema/Databindings*
- *Semantic Web: Best Practices, Query, Rules, Health Care and Life Sciences*

■ Web on Everything

- *Interaction technologies: XHTML, XForms, CSS, SVG, SMIL, Voice, MMI*
- *Rich Web Clients: Compound Doc Formats, Web Applications*
- *Mobile Web Initiative*
- *Embedded systems, Ubiquitous Web*

■ Web for Everyone

- *Web Accessibility Initiative (new charters)*
- *Expanded Internationalization Activity*
- *New Web security/privacy/trust work under consideration*
- *Expanding global participation in W3C*

Case for Expanding Global Participation (1)

- *Improved mutual understanding ...*
 - *of W3C's unique position as int'l standards body*
 - *to ensure W3C evolves over time to better support global needs*
- *Web standards that are better ...*
 - *through diverse use cases, requirements, technologies, testing*
 - *that are more comprehensive, broadly interoperable, and higher quality*
- *Web standards that are more widely deployed, because they*
 - *meet global requirements*
 - *are better understood by global experts*



Case for Expanding Global Participation (2)

(continued ...)

- *Greater opportunity for everyone, through ...*
 - *improved communication, understanding, innovation, commerce, productivity*
 - *widespread sharing of information, via accessible languages, technologies*
 - *development of Web-based products and participation in expanding markets*
 - *improving agriculture, engineering, education, nutrition, health care, etc. ...*
... while providing an avenue for expanded global commercial and social networking



Plans for Expanding Global Participation (1)

- *Add to W3C's current 15 Global Offices*
 - *India Office launched*
 - *Exploring interest in China, Latin America, elsewhere*

- *Establish new liaisons*
 - *Int'l orgs, gov and non-gov orgs, nat'l and int'l standards bodies, overseas offices of current Members*
 - *Identify and reach out to orgs from underrepresented countries who might be interested in and benefit from W3C's work*

- *Reduce financial barriers to Membership*
 - *April 2005: [W3C announced 40-85% reduction in Membership fees](#) for small companies and not-for-profit organizations based in the developing world*

Plans for Expanding Global Participation (2)

(continued ...)

- *Reduce financial barriers to participation*
 - *Explore funding for participation of experts from developing countries*
- *Reduce non-financial barriers*
 - *Exploring how to mitigate effects of language, jargon, time zones, time commitments*
- *Extend outreach in multiple levels and languages*
 - *Web and hardcopy materials about W3C's work and usage to improve life*
 - *Workshops, tutorials, conferences, visits, etc.*

Conclusions



- W3C is an active int'l organization
- Building foundational Web standards

- Innovating toward a Web ...
 - *of Data and Services*
 - *on Everything*
 - *for Everyone*
- Come innovate with us!
 - *How to join W3C*



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

Value of W3C Membership

■ Leadership

- Introduce ideas through *submissions* & *workshops*
- Influence standards through *Working Group* participation, review, implementation
- Provide strategic direction through seat on Advisory Committee
 - Each *Member* has one AC Representative

■ Early insight into market trends

- Access *Member* & *Team* technical experts
- Track emerging technologies & markets through *Member-confidential access*
- Implement standards & plan for procurement of new technologies ahead of market

■ Promoting image as innovator

- Participate in international media activities, *press releases*, testimonials (e.g., *MWI*)
- Display organization and logo on *W3C site* (250K visits/day)
- Display *W3C Member logo* on organization's page
- Ensure & enjoy benefits of royalty-free implementation of Web standards

(*Membership* / *Benefits* / *How to join W3C* / *"At a Glance" brochure*)