



WebRTC: Web, meet Communications

NGSP, Munich, June 2014

Dominique Hazaël-Massieux
dom@w3.org
[@dontcallmeDOM](https://twitter.com/dontcallmeDOM)



Web 25TH

ANNIVERSARY

A NEW WAVE *of* TRANSFORMATIONS

Just as the Web
has transformed
everything...

...It will
transform
everything
again

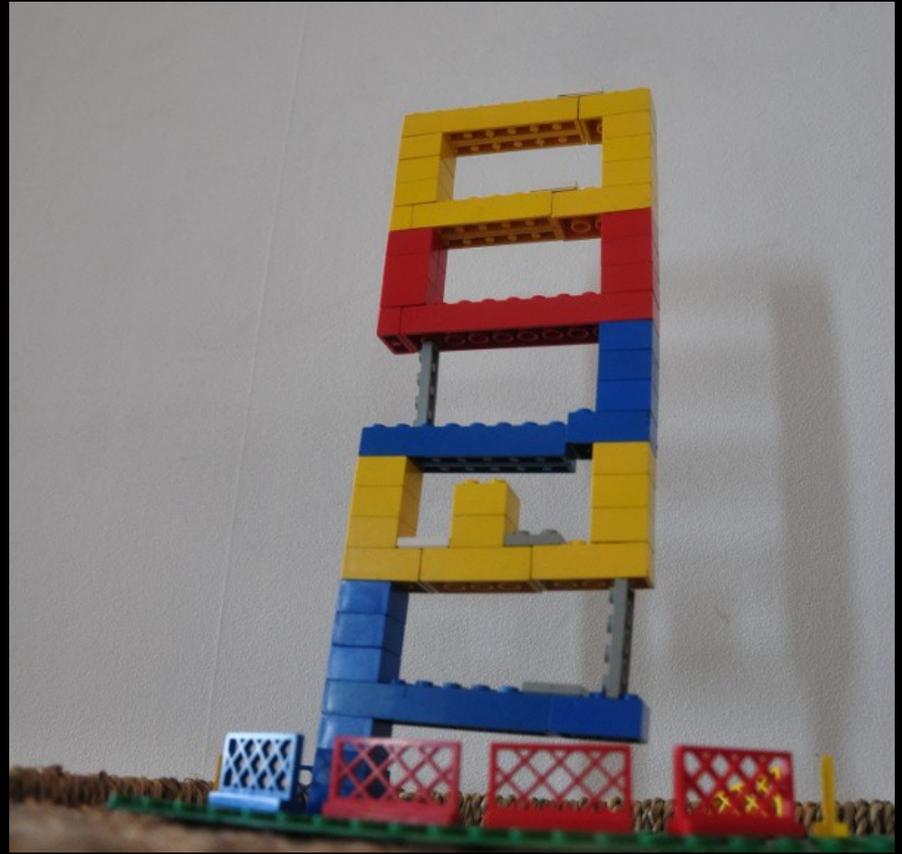




Wide-scale interoperability

- Platform for 2+ billion devices
- Royalty-Free standards for innovation
- Beyond OS and shapes
- Open to all to contribute and use
- Ease of development and deployment
- Millions of developers





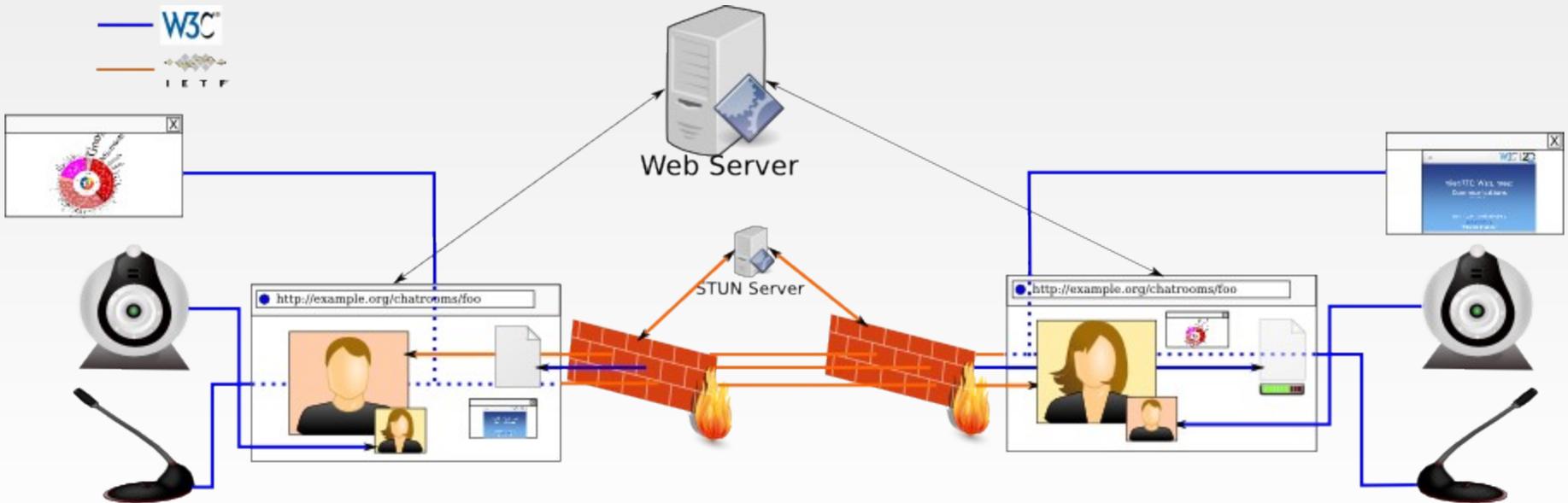


Role of W3C

- Setting Web standards enabling interop
- ~400 Member orgs
- Web ecosystem: users, developers, browsers, telcos, etc.
- 80 staff in US, Europe, China, Japan
- Technologies built by Member engineers in dedicated Working Groups



WebRTC Standardization





WebRTC Working Group Participants

Alcatel-Lucent	Apple	AT&T	Avaya	Baidu
Bistri	Cable Labs	China Unicom	Chinese Acad. Of Sciences	Cisco
ETRI	Ericsson	Genesys	Google	Hookflash
Huawei	Microsoft	Mirae Web	Mitsubishi	Mozilla
MStar	NICTA	Nokia	Nuance	Opera
Orange	Qihoo 360	Plantronics	Qihoo 360	Samsung
Telecom Italia	Temasys	Tencent	Unify	Verisign
Voxeo				



WebRTC Status

- Protocol: stable core, lots of optimizations still in flux
- Codecs: audio done, video tabled for now
- Camera access: mostly stable
- P2P Audio / Video: stabilizing
- P2P Data: stabilizing
- Identity management: stabilizing
- Upcoming: screen sharing, 3D camera, push



WebRTC Implementations

isWebRTCReadyYet.com

	 Canary	 Chrome 35	 Nightly	 Firefox 29	 IE	 Safari	 Opera 21
PeerConnection API	Green	Green	Green	Green	Red	Red	Green
ORTC API	Red	Red	Red	Red	Yellow	Red	Red
getUserMedia	Green	Green	Green	Green	Yellow	Red	Green
mediaConstraints	Yellow	Yellow	Yellow	Red	Red	Red	Yellow
TURN support	Green	Green	Green	Yellow	Red	Red	Green
MediaStream API	Green	Green	Yellow	Yellow	Red	Red	Green
WebAudio Integration	Green	Green	Green	Green	Red	Red	Green
dataChannels	Green	Green	Green	Green	Red	Red	Green
Screen Sharing	Green	Green	Red	Red	Red	Red	Red
Stream re-broadcasting	Yellow	Yellow	Red	Red	Red	Red	Red
Solid interoperability	Yellow	Yellow	Yellow	Yellow	Red	Red	Yellow
Echo cancellation	Green	Green	Yellow	Red	Red	Red	Yellow



Internet Explorer?



Media Capture and Streams

In Development



WebRTC – WebRTC v1.0 API

Not currently planned



WebRTC – Object RTC API

Under Consideration

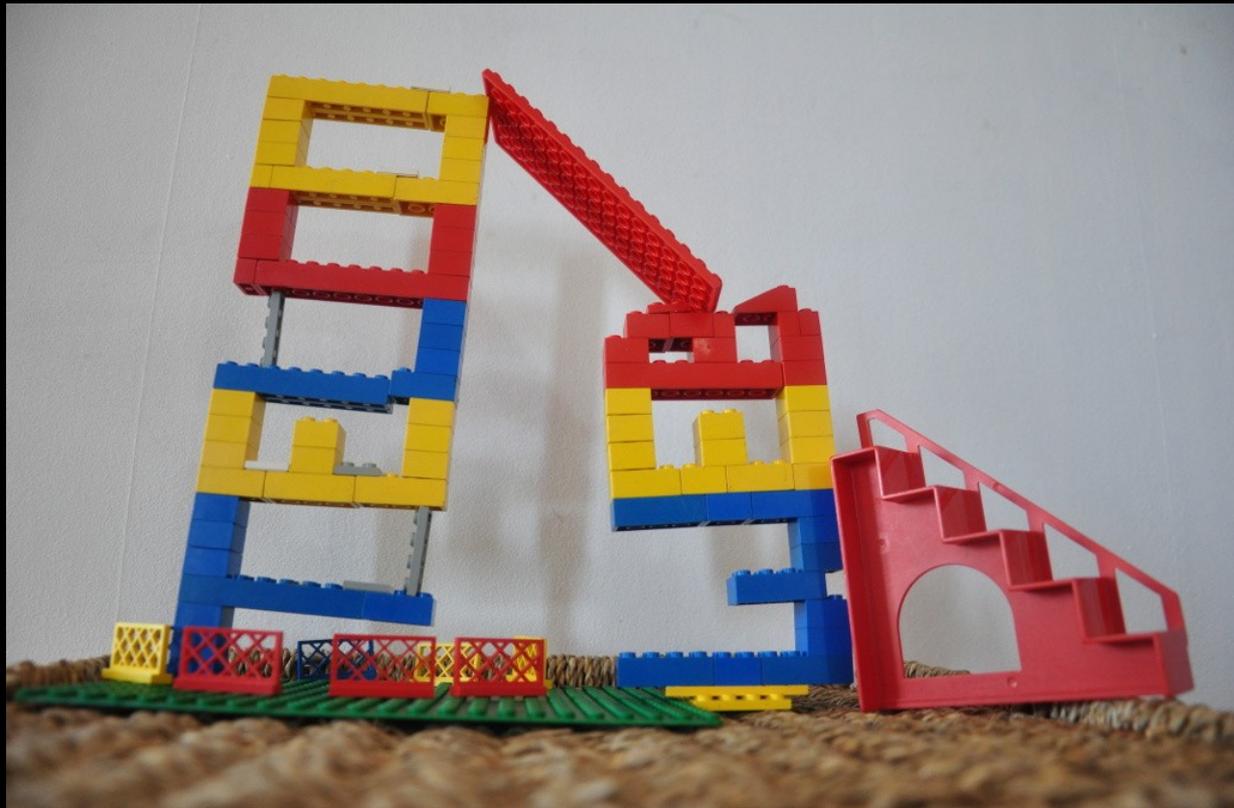


<http://status.modern.ie>



Commoditizing audio/video transmission

- Disruptive to traditional communication players
- More competition for OTT players (incl. from TelcOTT)
- Many usages beyond conversational: customer care, citizen journalists, e-health, e-learning, ...
- Communication as a feature





Commoditizing P2P

- P2P and Web: sources of innovation and disruption
- WebRTC brings them together
- P2P as a feature
- Blurring client / server distinction
- Watch for sparkles!



A Beginning...

- Focus on finalizing core APIs and protocols
- Many extensions, additions and evolutions already under consideration
- Join W3C to be part of the conversation!



Questions?

Dominique Hazaël-Massieux

dom@w3.org

[@dontcallmeDOM](#)

W3.org