



WHAT?

- A set of technologies to enable real time communication in web pages through a *simple JavaScript API*
- You need three things for this to work:



Access to the webcam & microphone



Peer to peer networking

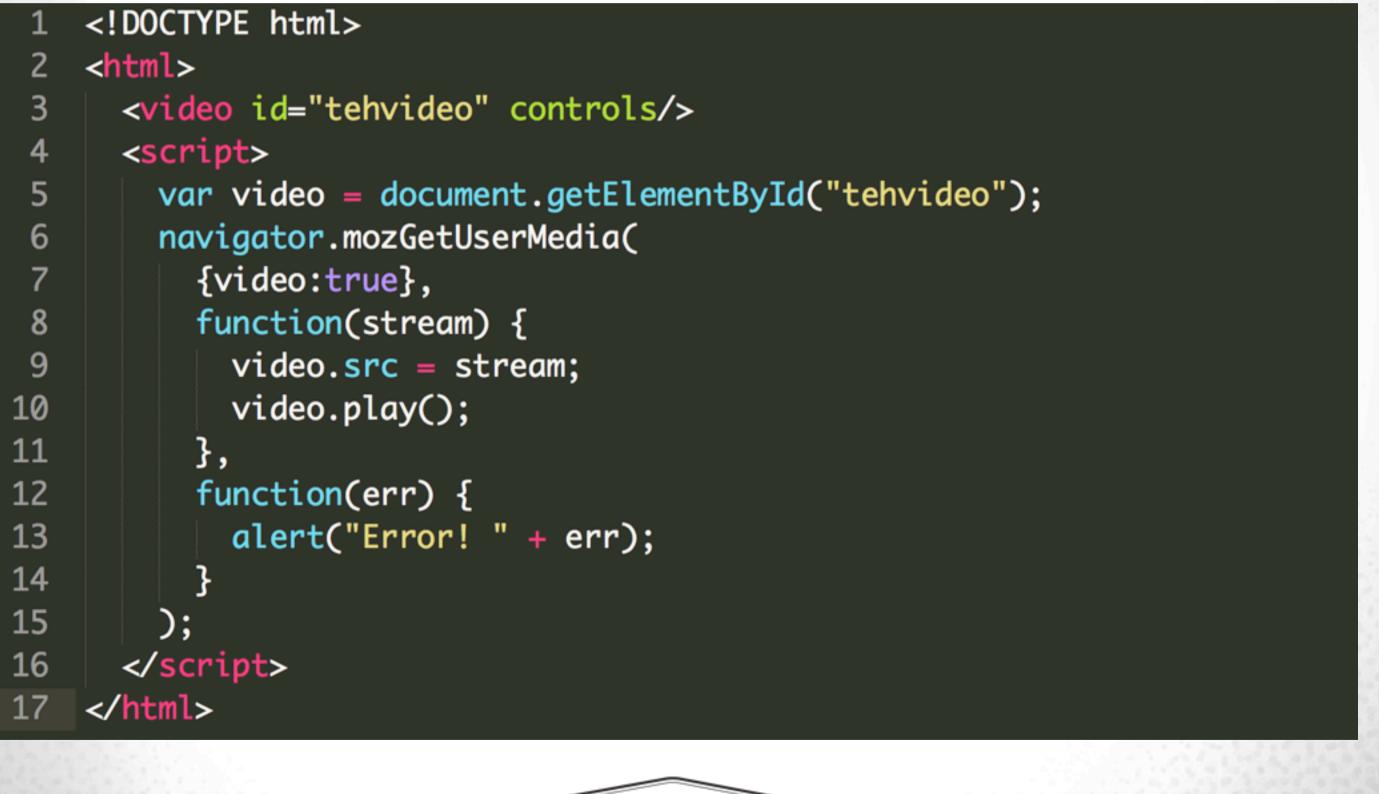


Media encoding and playback



GETUSERMEDIA

 Web camera and microphone access with a simple API that integrates well with other web elements like <audio> and <video>



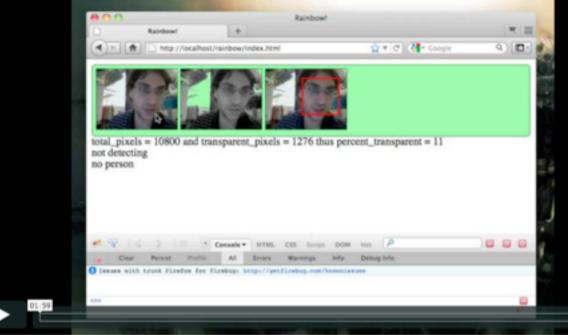




GETUSERMEDIA

Integration with <video> and <canvas> opens up many possibilities!





🙀 Demo: Mozilla Rainbow + Canvas + JS Face Detection









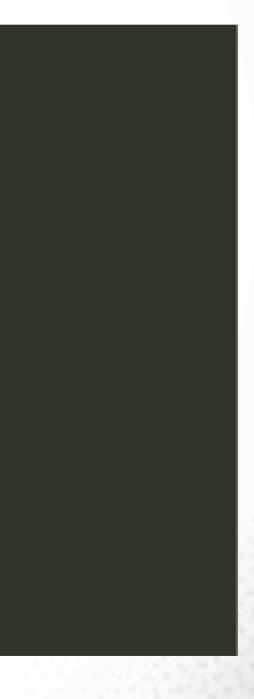
PEERCONNECTION

- Allows creating a peer to peer channel for audio, video and data
- High-level API, the grimy details of connectivity checks and NAT traversal is (mostly!) hidden









DATA CHANNELS

- Like WebSockets, but directly from one peer to another!
- Both reliable (like TCP) and unreliable (and UDP) modes available







MEDIA

- VP8 for Video and Opus for Audio, just like <audio> & <video>
- Opus a high quality audio codec that's great for realtime speech, music **and** local playback

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- You don't (necessarily) have to worry about encoding or decoding, PeerConnection will automatically select the most appropriate codec usable on both ends.
- Integration with the Audio Data API for manipulation coming soon!



mozilla



ROADMAP

- getUserMedia available in FF17 (behind a pref), targeting FF18 for turning it on by default
- Targeting *PeerConnection* for FF18, currently available on *alder* for experimental purposes
- Current focus is on shipping a usable, "1.0" version of both the above

https://wiki.mozilla.org/Media/WebRTC





WE NEED YOU!

- **Developers:** Tons of blocker bugs that need to be worked on, for both getUserMedia, PeerConnection and other WebRTC related efforts
 - hg.mozilla.org/projects/alder build just like mozilla-central
 - Write demos that use getUserMedia and/or PeerConnection
- Designers: We need creative ideas and mockups for the UI that should be presented to the user
 - On device access, permission grant, during use, and more...
- **Everybody**: Tutorials, Documentation and Evangelism!





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