

WebRTC and Web Audio resources

g.co/webrtc

tl;dr

[Introduction to WebRTC on Android](#)

^ no longer available, try [Wayback](#) version or webrtc.org/native-code/android

[Getting started with WebRTC on iOS](#)

Google I/O presentation: [Video chat for Web, Android and iOS](#)

[What's next for WebRTC?](#) ← great talk from Justin and Serge

Suggestions welcome! Email dutton@google.com.

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WebRTC

WebRTC code samples are now available from github.com/webrtc/samples.

Live demos can be accessed at webrtc.github.io/samples.

Overview

- 2013 Google I/O presentation: [video](#), [slides](#)
- webrtc.org

Demos and samples

- [List of WebRTC demos and apps](#)
- Simplest possible getUserMedia demo: simpl.info/gum
- RTCPeerConnection 'on one page', i.e. without signalling: simpl.info/pc
- WebRTC video chat: apprtc.net (source code at github.com/webrtc/apprtc)
- Simplest possible RTCDataChannel example: simpl.info/dc
- Data channel file transfer: webrtc.github.io/samples/src/content/datachannel/filetransfer
- RTCPeerConnection signaling example: w3.org/TR/webrtc/#simple-example
- Constraints: simpl.info/getusermedia/constraints
- [Screen capture](#)
- Muaz Khan maintains a mighty assortment of experiments at webrtc-experiment.com.

Tutorials

- Getting Started With WebRTC: html5rocks.com/en/tutorials/webrtc/basics
- [WebRTC in the real world: STUN, TURN and signaling](#)
- [A practical guide to WebRTC](#): presentation slides from vLine
- Capturing audio and video in HTML5: html5rocks.com/en/tutorials/getusermedia/intro
- Excellent series of articles by Louis Stowasser and Robert Nyman: hacks.mozilla.org/category/webrtc
- Justin Uberti at Google I/O 2012: youtu.be/E8C8ouiXHHk
- Cullen Jennings video: HTML5 WebRTC: vimeo.com/47682405
- [WebRTC Fundamentals](#): online course

Codelab

- Walkthrough and code for setting up a server and client for video chat: bitbucket.org/webrtc/codelab
- [Google I/O 2014 file sharing codelab](#)

Reference

- webrtc.org
- C++ APIs: webrtc.org/reference/api-description

Books

- webrtcbook.com
- [Getting Started with WebRTC](#)
- [Real-Time Communication with WebRTC](#)

Developer tools and resources

[adapter.js](#): shim maintained by Google to cope with API changes and platform differences

[getUserMedia.js](#): polyfill from Addy Osmani

Chrome–Firefox: [interop notes](#)

Stats and information for current RTCPeerConnection session: <chrome://webrtc-internals>

File bugs at crbug.com/new

Standards and protocols

- [Web Real-Time Communications Working Group](#)
- [W3C Working Draft: WebRTC 1.0: Real-time Communication Between Browsers](#)
- [Media Capture and Streams W3C Working Draft](#)
- [IETF RTCWEB](#): protocol specifications

Native APIs

- [Getting started with WebRTC on iOS](#)
- [Introduction to WebRTC on Android](#)
- [Getting Started](#) (from webrtc.org)
- [Build scripts from pristineio](#): repo with links to how-to guides for Android and iOS
- [WebRTC Internals documentation](#)
- [Native API documentation](#)
- [libjingle Developer Guide](#)
- [WebRTC shim for WKWebView](#)

Discussion, blogs and articles

- [discuss-webrtc](#)
- [@webrtc](#)
- [+webrtc](#)
- [WebRTC on Stack Overflow](#)
- [bloggeek.me](#)
- [WebRTC Weekly](#)
- [webrtcHacks](#)

Browser support

- [iswebrtcreadyyet.com](#)

JavaScript apps and frameworks

Also take a look at the webrtcHacks [article about JavaScript libraries](#).

Video chat

- [appear.in](#)
- [SimpleWebRTC](#)
- [easyRTC](#)
- [LyteSpark](#)

Peer-to-peer data

- [PeerJS](#): data channel abstraction
- [Sharefest](#): share files via data channels
- [Peer5 Downloader](#): P2P file download
- [ShareDrop](#): file sharing between devices on the same network

VoIP/PSTN

- Open source JavaScript phone API: [Phono](#)
- Open source JavaScript SIP client: [sipML5](#)
- Open source JavaScript SIP library: [JsSIP](#)
- Open source SIP proxy with WebSocket and SRTP support: [Kamailio](#)
- [FreeSWITCH](#)

Face/head tracking

- [clmtrackr](#)
- [headtrackr](#) (demo)

Node

- [rtc.io](#)
- [appear.in](#)

Servers and services

- [OpenTok](#) (acquired by Telefonica Digital)
- [vLine](#)
- [WebRTC Developer Tool Vendor Directory](#)
- [Janus](#): general purpose open source WebRTC Gateway
- [GStreamer](#): open source media framework with WebRTC support
- [Kurento](#): server infrastructure

Applications: suggestions welcome!

getUserMedia

- ASCII: idevelop.github.com/ascii-camera
- Movement tracking slide page controller: li.web.fh-koeln.de/mocowe
- Xylophone: soundstep.com/blog/experiments/jsdetection
- Photobooth with filters: webcamtoy.com
- SVG filters: rawgithub.com/SenorBlanco/moggy/master/filterbooth.html
- Face masking with WebGL: auduno.github.io/clmtrackr/face_mask.html
- Face deformation with WebGL: auduno.github.io/clmtrackr/examples/facedeform.html

Screen capture

- simpl.info/screencapture

Web Audio integration

- Music production: soundtrap.com
- Chris Wilson's input demos at webaudiodemos.appspot.com
- Paul Lewis's gUM/WebGL demo: lab.aerotwist.com/webgl/audio-room
- RTCPeerConnection integration: simpl.info/webrtcwebaudio
- Theremin: getUserMedia + tracking + Web Audio: g200kg.com/teburin
- cabbibo.github.io/holly

Recording

- Record and download: webaudiodemos.appspot.com/AudioRecorder
- [RecordRTC](#)

Chat

- talky.io
- tawk.com
- hu.tt
- [Twelephone](#): chat with Twitter contacts
- browsermeeting.com
- codassium.com: job interview tool with live coding
- appear.in
- vmux.co
- vidtok.com
- voxeet.com: high quality audio

Games

- The first WebRTC game: [Puzzlible](#)
- [Who Am I?](#) (second ever WebRTC game, no longer online)
- WebRTC + Web Audio + WebGL: [Cube Slam](#)
- Face tracking: shinydemos.com/facekat
- RTCDataChannel + WebGL: [BananaBread](#)

Telehealth

- [Regional Cystic Fibrosis Program](#)
- consultdirect.com.au

Phone

- [Zingaya](#)
- Disaster communications: [Tethr](#)

File sharing and P2P

- [Sharefest](#): share file by uploading and sharing link
- [dropple.me](#): get a file by sending a link to a share page
- [peerCDN](#): P2P CDN
- [WebTorrent](#): BitTorrent over WebRTC
- cdn.peer5.com/pilots/kaltura: P2P video

- webp2p.org
- peer5.com/downloader/land.html: add P2P file download to your web page

Other

- [Internet-less WebRTC](#)
- [Video call between Qt app and web app](#)

Alternatives for IE and Safari

- [Temasys plugin](#)

Web Audio

Demos

- webaudiodemos.appspot.com
- simpl.info/webaudio
- googlechrome.github.io/web-audio-samples

Tutorials

- Getting started with the Web Audio API: html5rocks.com/en/tutorials/webaudio/intro
- Audio input (with links to good, simple demos):
updates.html5rocks.com/2012/09/Live-Web-Audio-Input-Enabled
- creativejs.com/resources/web-audio-api-getting-started

Newsletters

- [Web Audio Weekly](#)

Reference

- webaudio.github.io/web-audio-api
- w3.org/TR/webaudio