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MediaStream Recording API

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BlobEvent **Events**

start

pause

error

and Streams API and the WebRTC API. The MediaStream Recording API makes it possible to capture the data generated by a MediaStream or HTMLMediaElement object for analysis, processing, or saving to disk. It's also surprisingly easy to work with.

The MediaStream Recording API, sometimes simply referred to as the Media

Recording API or the MediaRecorder API, is closely affiliated with the Media Capture

Specifications

MediaRecorder, which does all the work of taking the data from a MediaStream and delivering it to you for processing. The data is delivered by a series of dataavailable

events, already in the format you specify when creating the MediaRecorder. You can then process the data further or write it to file as desired. Overview of the recording process The process of recording a stream is simple:

1. Set up a MediaStream or HTMLMediaElement (in the form of an <audio> or <video> element) to serve as the source of the media data.

2. Set MediaRecorder.ondataavailable to an event handler for the dataavailable event; this will be called whenever data is available for you.

whatever.

handler.

resume recording of the source media.

- 3. Create a MediaRecorder object, specifying the source stream and any desired
- options (such as the container's MIME type or the desired bit rates of its tracks. 4. Once the source media is playing and you've reached the point where you're
- ready to record video, call MediaRecorder.start() to begin recording. 5. Your dataavailable event handler gets called every time there's data ready for you to do with as you will; the event has a data attribute whose value is a Blob

that contains the media data. You can force a dataavailable event to occur,

thereby delivering the latest sound to you so you can filter it, save it, or

6. Recording stops automatically when the source media stops playing.

7. You can stop recording at any time by calling MediaRecorder.stop(). Note: Individual Blobs containing slices of the recorded media will not necessarily be individually playable. The media needs to be reassembled before playback.

Examining and controlling the recorder status You can also use the properties of the MediaRecorder object to determine the state of the recording process, and its pause() and resume() methods to pause and

MediaRecorder. You can listen for error events by setting up a onerror event

If anything goes wrong during recording, an error event is sent to the

possible as well. Just call MediaRecorder.isTypeSupported(). Examining potential input sources

If you need or want to check to see if a specific MIME type is supported, that's

If your goal is to record camera and/or microphone input, you may wish to examine the available input devices before beginning the process of constructing the MediaRecorder. To do so, you'll need to call navigator.mediaDevices.enumerateDevices() to get a list of the available media

devices. You can then examine that list and identify the potential input sources, and

even filter the list based on desired criteria. In this code snippet, enumerateDevices() is used to examine the available input devices, locate those which are audio input devices, and create <option> elements

that are then added to a <select> element representing an input source picker.

navigator.mediaDevices.enumerateDevices()

devices.forEach(function(device) {

.then(function(devices) {

let menu = document.getElementById("inputdevices"); if (device.kind == "audioinput") { let item = document.createElement("option"); item.innerHTML = device.label; item.value = device.deviceId; menu.appendChild(item); Code similar to this can be used to let the user restrict the set of devices they wish to use.

To learn more about using the MediaStream Recording API, see Using the MediaStream Recording API, which shows how to use the API to record audio clips. A second article, Recording a media element, describes how to receive a stream from an

<audio> or <video> element and use the captured stream (in this case, recording it

Each time a chunk of media data is finished being recorded, it's delivered to

consumers in Blob form using a BlobEvent of type dataavailable.

The primary interface that implements the MediaStream Recording API.

The interface that represents errors thrown by the MediaStream Recording API. Its

and saving it to a local disk).

Reference

BlobEvent

MediaRecorder

For more information

error property is a DOMException that specifies that error occurred.

Specifications

MediaRecorderErrorEvent

Comment **Status** Initial definition **WD** Working Draft

Specification MediaStream Recording

Browser compatibility

Mobile

features from the chrome://flags page.

Chrome

47.0

Firefox

(Gecko)

25.0 (25.0)

Desktop

Feature

Basic

support

See also

🕕 🗷 We're converting our compatibility data into a machine-readable JSON
format. This compatibility table still uses the old format, because we have
yet converted the data it contains. Find out how you can help!

Internet

Explorer

No support

[2] To use MediaRecorder in Chrome 47 and 48, enable experimental Web Platform

[1] The initial Firefox OS implementation only supported audio recording.

Microsoft

Edge

?

Safari

No support No support

(WebKit)

X

Opera

[3] Audio recording works in Chrome 49 and above; Chrome 47 and 48 only support video recording.

Using the MediaStream Recording API

MediaRecorder polyfill for Safari and Edge

and the MediaRecorder API (source on GitHub)

supported desktop browsers only (source on GitHub)

• Recording a media element

• 🗷 simpl.info MediaStream Recording demo, by 🗷 Sam Dutton navigator.mediaDevices.getUserMedia() • # HTML5's Media Recorder API in Action on Chrome and Firefox

• TutorRoom: HTML5 video capture/playback/download using getUserMedia

• FingerSpell: Sign Language Fingerspelling practice using getUserMedia and the

MediaRecorder API to create and download recordings, MediaRecorder API

• @ OpenLang: HTML5 video language lab web application using MediaDevices and the MediaStream Recording API for video recording (source on GitHub)

Advanced media stream recorder sample

Simple video recording demo

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See also

The MediaStream Recording API is comprised of a single major interface,

Basic concepts

stop dataavailable resume

MDN web docs

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