#### Audio mixer dev notes

#### Source:

https://developer.mozilla.org/en-US/docs/Web/API/HTML Drag and Drop API

**HTML Drag and Drop** interfaces enable applications to use drag-and-drop features in browsers. The user may select *draggable* elements with a mouse, drag those elements to a *droppable* element, and drop them by releasing the mouse button. A translucent representation of the *draggable* elements follows the pointer during the drag operation.

For web sites, extensions, and XUL applications, you can customize which elements can become *draggable*, the type of feedback the *draggable* elements produce, and the *droppable* elements.

This overview of HTML Drag and Drop includes a description of the interfaces, basic steps to add drag-and-drop support to an application, and an interoperability summary of the interfaces.

## **Drag Events**

HTML drag-and-drop uses the DOM event model and *drag events* inherited from mouse events. A typical *drag operation* begins when a user selects a *draggable* element, drags the element to a *droppable* element, and then releases the dragged element.

During drag operations, several event types are fired, and some events might fire many times, such as the drag and dragover events.

## Each drag event type has an associated global event handler:

Event	On Event Handler	Fires when
drag	ondrag	a dragged item (element or text selection) is dragged.
dragend	ondragend	a drag operation ends (such as releasing a mouse button or hitting the Esc key; see Finishing a Drag.)
dragenter	ondragenter	a dragged item enters a valid drop target. (See Specifying Drop Targets.)
dragexit	ondragexit	an element is no longer the drag operation's immediate selection target.
dragleave	ondragleave	a dragged item leaves a valid drop target.
dragover	ondragover	a dragged item is being dragged over a valid drop target, every few hundred milliseconds.
dragstart	ondragstart	the user starts dragging an item. (See Starting a Drag Operation.)
drop	ondrop	an item is dropped on a valid drop target. (See Performing a Drop.)

### **Interfaces**

The HTML Drag and Drop interfaces are DragEvent, DataTransfer, DataTransferItem and DataTransferItemList.

The DragEvent interface has a constructor and one dataTransfer property, which is a DataTransfer object.

DataTransfer objects include the drag event's state, such as the type of drag being done (like copy or move), the drag's data (one or more items), and the MIME type of each *drag item*. DataTransfer objects also have methods to add or remove items to the drag's data.

The DragEvent and DataTransfer interfaces should be the only ones needed to add HTML Drag and Drop capabilities to an application. (Firefox supports some Gecko-specific extensions to the DataTransfer object, but those extensions will only work on Firefox.)

Each DataTransfer object contains an items property, which is a list of DataTransferItem objects. A DataTransferItem object represents a single drag item, each with a kind property (either string or file) and a type property for the data item's MIME type. The DataTransferItem object also has methods to get the drag item's data.

The DataTransferItemList object is a list of DataTransferItem objects. The list object has methods to add a drag item to the list, remove a drag item from the list, and clear the list of all drag items.

A key difference between the DataTransfer and DataTransferItem interfaces is that the former uses the synchronous getData() method to

access a drag item's data, but the latter instead uses the asynchronous getAsString() method.

# <audio>: The Embed Audio element

**Source:** <a href="https://developer.mozilla.org/en-US/docs/Web/API/HTMLAudioElement">https://developer.mozilla.org/en-US/docs/Web/API/HTMLAudioElement</a>

The **HTML <audio> element** is used to embed sound content in documents. It may contain one or more audio sources, represented using the src attribute or the <source> element: the browser will choose the most suitable one. It can also be the destination for streamed media, using a MediaStream.

### **Events**

Event name	Fired when
audioprocess	The input buffer of a ScriptProcessorNode is ready to be processed.
canplay	The browser can play the media, but estimates that not enough data has been loaded to play the media up to its end without having to stop for further buffering of content.

canplaythrough	The	browser e	stimates	it can pla	ay the med	dia up to	o its end	without
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stopping for content buffering.

complete The rendering of an OfflineAudioContext is terminated.

durationchange The duration attribute has been updated.

emptied The media has become empty; for example, this event is sent if

the media has already been loaded (or partially loaded), and the

load() method is called to reload it.

ended Playback has stopped because the end of the media was

reached.

loadeddata The first frame of the media has finished loading.

loadedmetadata The metadata has been loaded.

pause Playback has been paused.

play Playback has begun.

playing Playback is ready to start after having been paused or delayed

due to lack of data.

ratechange The playback rate has changed.

seeked A seek operation completed.

seeking	A seek operation began.
stalled	The user agent is trying to fetch media data, but data is unexpectedly not forthcoming.
suspend	Media data loading has been suspended.
timeupdate	The time indicated by the currentTime attribute has been updated.
volumechange	The volume has changed.

waiting

Playback has stopped because of a temporary lack of data