

# DOMException: The play() request was interrupted



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Dives into Chromium source code

Did you just stumble upon this unexpected media error in the Chrome DevTools JavaScript Console?

*Uncaught (in promise) DOMException: The play() request was interrupted by a call to pause().*

or

*Uncaught (in promise) DOMException: The play() request was interrupted by a new load request.*

You're in the right place then. Have no fear. I'll explain what is causing this and how to fix it.

## What is causing this

Here's some JavaScript code below that reproduces the "Uncaught (in promise)" error you're seeing:

 **DON'T**

```
<video id="video" preload="none" src="https://example.com/file.mp4"></video>
```

```
<script>
  video.play(); // <-- This is asynchronous!
  video.pause();
</script>
```

The code above results in this error message in Chrome DevTools:

*Uncaught (in promise) DOMException: The play() request was interrupted by a call to pause().*

As the video is not loaded due to `preload="none"`, video playback doesn't necessarily start immediately after `video.play()` is executed.

Moreover since [Chrome 50](#), a `play()` call on an `<video>` or `<audio>` element returns a [Promise](#), a function that returns a single result asynchronously. If playback succeeds, the Promise is fulfilled and the `playing` event is fired at the same time. If playback fails, the Promise is rejected along with an error message explaining the failure.

Now here's what happening:

1. `video.play()` starts loading video content asynchronously.
2. `video.pause()` interrupts video loading because it is not ready yet.
3. `video.play()` rejects asynchronously loudly.

Since we're not handling the video play Promise in our code, an error message appears in Chrome DevTools.

**Note:** Calling `video.pause()` isn't the only way to interrupt a video. You can entirely reset the video playback state, including the buffer, with `video.load()` and `video.src = ''`.

## How to fix it

Now that we understand the root cause, let's see what we can do to fix this.

First, don't ever assume a media element (video or audio) will play. Look at the Promise returned by the `play` function to see if it was rejected. It is worth noting that the Promise won't fulfill until playback has actually started, meaning the code inside the `then()` will not execute until the media is playing.

### Example: Autoplay

```
<video id="video" preload="none" src="https://example.com/file.mp4"></video>
```

```
<script>
  // Show loading animation.
  var playPromise = video.play();

  if (playPromise !== undefined) {
    playPromise.then(_ => {
      // Automatic playback started!
      // Show playing UI.
    })
  }
}
```

```

        .catch(error => {
            // Auto-play was prevented
            // Show paused UI.
        });
    }
</script>

```

## 👍 Example: Play & Pause

```

<video id="video" preload="none" src="https://example.com/file.mp4"></video>

```

● 📄

```

<script>
    // Show loading animation.
    var playPromise = video.play();

    if (playPromise !== undefined) {
        playPromise.then(_ => {
            // Automatic playback started!
            // Show playing UI.
            // We can now safely pause video...
            video.pause();
        })
        .catch(error => {
            // Auto-play was prevented
            // Show paused UI.
        });
    }
</script>

```

That's great for this simple example but what if you use `video.play()` to be able to play a video later?

I'll tell you a secret. You don't have to use `video.play()`, you can use `video.load()` and here's how:

## 👍 Example: Fetch & Play

```

<video id="video"></video>
<button id="button"></button>

```

● 📄

```

<script>
    button.addEventListener('click', onButtonClick);

    function onButtonClick() {
        // This will allow us to play video later...
        video.load();
        fetchVideoAndPlay();
    }

```

```

}

function fetchVideoAndPlay() {
  fetch('https://example.com/file.mp4')
    .then(response => response.blob())
    .then(blob => {
      video.srcObject = blob;
      return video.play();
    })
    .then(_ => {
      // Video playback started ;)
    })
    .catch(e => {
      // Video playback failed ;(
    })
  }
}
</script>

```

**Warning:** Don't make your `onButtonClick` function asynchronous with the `async` keyword. You'll lose the "user gesture token" required to allow your video to play later.

## Play promise support

At the time of writing, `HTMLMediaElement.play()` returns a promise in [Chrome](#), [Firefox](#), [Opera](#), and [Safari](#). [Edge](#) is still working on it.

## Danger zone

### `<source>` within `<video>` makes `play()` promise never rejects

For `<video src="not-existing-video.mp4">`, the `play()` promise rejects as expected as the video doesn't exist. For `<video><source src="not-existing-video.mp4" type='video/mp4'></video>`, the `play()` promise never rejects. It only happens if there are no valid sources.

### [Chromium Bug](#)

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