

# State and Stuff

# MediaStream State – Recent Changes

- Replaced “ended” with “inactive”
  - A MediaStream with no tracks or only “ended” tracks is “inactive”
  - Boolean attribute “inactive”; rename to “active”?

```
var ms = new MediaStream() // “inactive”  
ms.addTrack(track); // “active”  
ms.removeTrack(); // “inactive”  
  
“addtrack” event // “active”  
ms.getAudioTracks()[0].stop(); // “inactive”
```

# Stopping Sources (Revoking Permissions)

- A source is stopped, or revoked, in the same application scope in which permission was granted with `getUserMedia()`.
- The same app in two tabs => shared sourceIds
  - A source is still only stopped in the tab where the action is taken

# MediaStreamTrack.stop()

- Specified behavior
  - Permanently stop the source (will effectively end all other tracks sharing this source)
- List request
  - Make stop() count down a reference and stop the source when ref count reaches zero

# MediaStreamTrack.stop()

- Intention
  - Let well behaving apps revoke permissions when no longer needed (to turn off the in-chrome “hot device” indicator)
- Pros with “ref-counted” stop()
  - No side-effects; only affects the referenced track
  - It may not be possible to check if other tracks are using the a source

# Proposal

- `MediaStreamTrack.stop()`
  - Decrease source ref count
- Options for explicit source stop (if needed)
  - `MediaStreamTrack.stopSource()`
  - `MediaDeviceInfo`.stop()