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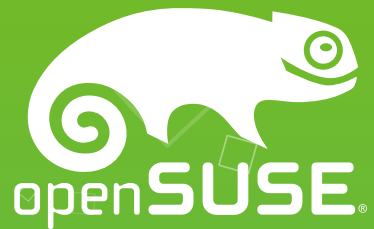
Multimedia Madness

Working to love audio and video in
FOSS again

Who am I?



- Open Source Advocate
- Contributor and Package Maintainer in Fedora, Mageia, and openSUSE
- Contributor to RPM, DNF, KIWI, Open Build Service, and various other similar projects
- Member of the Fedora Engineering Steering Committee (FESCo)
- Member of Fedora Workstation, Fedora Cloud, and Fedora Server WGs
- Chair of Fedora KDE SIG
- Member of the Mageia Council and Mageia.org Board
- KDE, e.V. Member
- Co-chair of the CentOS Hyperscale SIG
- Member of the openSUSE Board
- Member of the openSUSE Heroes
- Co-host of the Sudo Show podcast
- Senior Black Belt, Managed OpenShift at Red Hat, Inc.
 - Previously Senior DevOps Engineer at Datto, Inc.



Multimedia and FOSS

Multimedia and Standards

- “Multimedia” = Audio, Video
- ... and maybe also 3D?

Multimedia and Standards



PC multimedia standards

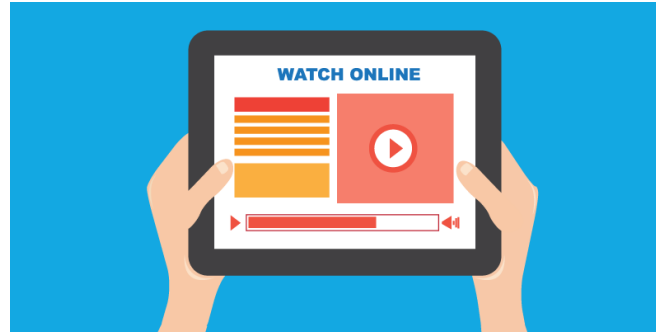
- Most not “standards”
- Born of necessity on resource constraints (80s/90s)
- Later, more quality driven (2000s+)
- Rarely “documented”

Broadcast multimedia standards


- Generally must be “standards”
- Born of necessity on scaling requirements
- Aggressively “documented”
 - Often including reference source code
 - Generally permissively licensed

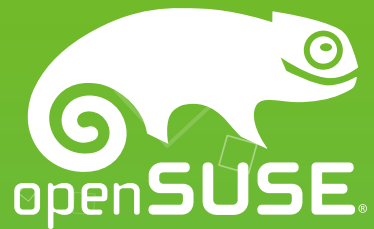
Web Video!

- Odd convergence
- Mixture of standards and *ad-hoc* development
- “Open source” underpinning



Web Video on Linux

Error loading media:
File could not be played 



Enabling web video

Web Video on Linux

- Cisco and Mozilla worked to enable MPEG-4 Part 10 (AVC, H.264) in Firefox using OpenH264 for WebRTC
- Some browsers use Gstreamer for this, so it was extended to that too



Web Video on Linux

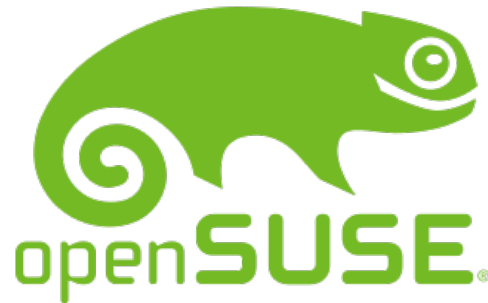
- Red Hat leveraged this to extend this capability to Fedora Linux users for web video
- For AAC audio, a stripped version of FDK-AAC was made available
- Fedora added a stripped FFmpeg last year for this, derived from openSUSE's packaging 😊



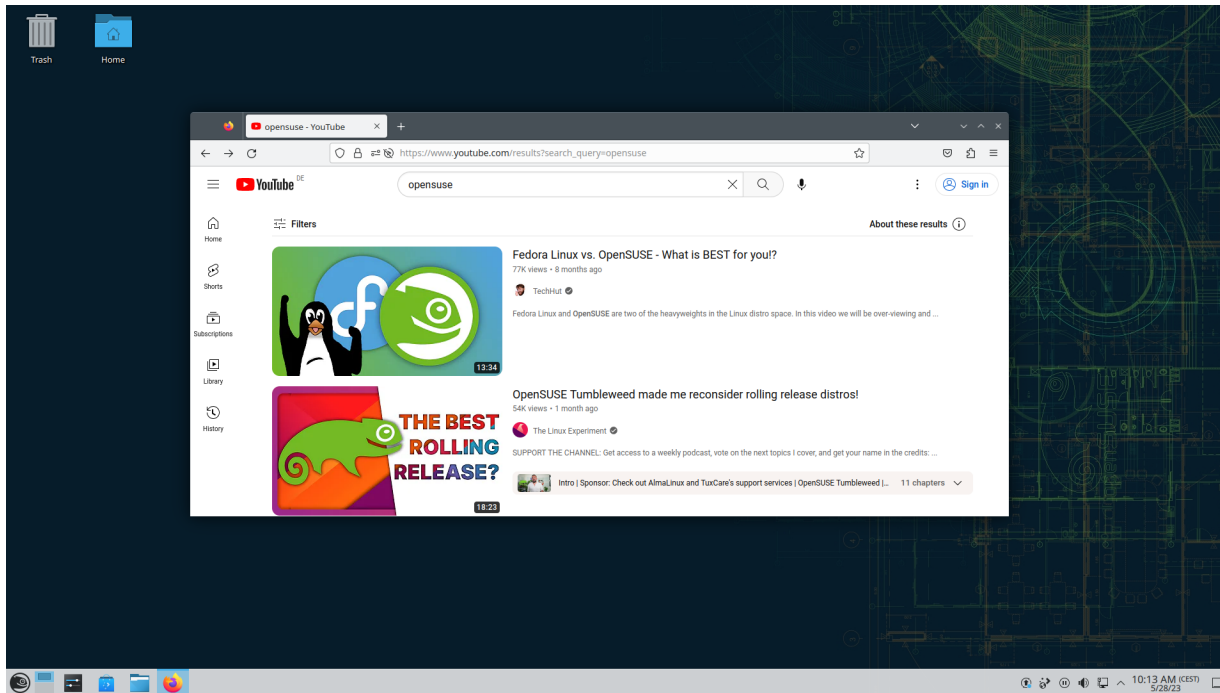
Web Video on Linux



- Originates from a request to fix out of the box multimedia experience for openSUSE Leap
- The original proposed solution could not work, but Fedora's effort was brought up as an option
- Luboš Kocman reached out to Cisco and we negotiated it for SUSE distributions



Web Video on Linux



Questions?



openSUSE[®]