Video player accessibility
http://a11yoz.com/faf16-video
Dyslexia
Moderate vision impairment
Severe vision impairment
Epilepsy
Migraines
Physical impairment
Fibromyalgia
Multiple Sclerosis
Crohns Disease
PTSD
Aspergers
It’s not just about vision impairments
Our Services

- Audits
- Mobile testing
- Building web sites
- CMS testing
- Accessible design
- Video accessibility

- User testing
- OS / browser testing
- Consultation
- Accessible documents
Our Products

- OzPlayer
- OzART
- OzWiki

More information:
www.accessibilityoz.com
About video

- Video makes up approx 65% of all search results
- Completion of a video with captions doubles compared to without captions
- Videos with transcripts earned 16% more revenue than videos without transcripts
- 80% of people that use captions are not Deaf or Hard Of Hearing
Common accessibility issues for video

- Inadequate keyboard access
- Insufficient control and operation
- Incorrect implementation

- Inaccessible content
- Inability to gain a full and complete understanding of all information contained in the video
So how do you create an accessible video experience?
Accessible video

1. Accessible content in the video
2. Accessible video player
3. Never auto-play
4. No flashing content
5. Accessible transcript
6. Accessible captions
7. Accessible audio descriptions
Video players tested

- YouTube site
- YouTube embedded
- Vimeo site
- Vimeo embedded
- PayPal
- Floe Project
- AFB

- Able Player
- Acorn
- eStandards
- Kaltura
- Brightcove
- RAMP
- PANAPTO

- MAGpie
- Video.js
- Plyr
- Blackboard
- JWPlayer
- OzPlayer

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About the testing

Windows 8.1 (64 bit):
• Firefox: 42.0;
• Internet Explorer 11;
• Google Chrome 46.0.2.

Screen readers:
• JAWS 16;
• NVDA 2015.3;
• Window-Eyes 9.2.1.0;

Mobile:
• Samsung Galaxy Phone, Android 6.0, Chrome: 46.0.2490.76;
• Samsung Galaxy Phone, Android 6.0, Firefox: 42.0
Accessibility testing

- Audio is not played automatically unless the user is made aware this is happening or a pause or stop button is provided
- Video is keyboard operable (no keyboard trap)
- Video is keyboard accessible
- Video captions are correct
- Video volume can be changed independent on the system volume
- Link to the video is clear
Accessibility testing

- Video has a transcript
- Link to the video transcript is clear
- Video transcript is accessible
- Video transcript or link to the transcript is provided at the video
- Video is available and works well with Flash disabled
- Video has audio description
Screen reader testing

- Player's controls are labelled
- Player's controls are easy to locate
- Button status (on or off) is not accessible or read incorrectly by screen readers
- Next or Previous are easy to find
- Volume level is announced while changing
- Current time of currently played movie is accessible for screen reader
Screen reader testing

- Fast forwarding or rewinding is operable
- The title of currently played movie is easy to check
- Caption or subtitles can be read by a screen reader
- Transcript's text is easy to find
Video player testing results
The worst of the worst
The worst of the worst: under 50% accessible

30% accessible
- JWPlayer

32% accessible:
- YouTube embed
- Vimeo embed

35% accessible:
- Brightcove
- Panapto
- Blackboard

36% accessible:
- YouTube site

39% accessible:
- Vimeo site

41% accessible:
- RAMP

43% accessible:
- Acorn

44% accessible:
- MAGpie
The average: between 50% and 60% accessible

50% accessible:
• PayPal

55% accessible:
• AFB
• Plyr
• Kaltura

57% accessible:
• Floe

58% accessible:
• Video.js
Above average: between 60% and 80% accessible

67% accessible:
- eStandards

70% accessible:
- AblePlayer
The best: 81%

81% accessible:

• OzPlayer
It’s still not good enough
“To enjoy online materials you need to have three browsers, three screen readers and a smartphone with accessibility features, and extreme patience, and still satisfaction is not guaranteed.”
Just some of the YouTube embedded errors

- Subscribe button is not keyboard accessible
- Full Screen button is unlabelled and inaccessible to all screen readers
- WindowEyes, IE reads controls as “button” or “Submit, inactive”
- NVDA, Chrome reads both the volume and progress bar as “Slider” only
- Could only play the video – no access to any other controls with Android, Talkback
Just some of the Brightcove errors

• Video controls use color alone
• Color contrast is not sufficient
• Video controls do not have a highly visible KFI
• JAWS, IE and FF controls are not read properly
• Full Screen button is unlabelled and inaccessible to all screen readers
• Progress and volume bars are not operable on Android, Talkback
PayPal errors

- Seek bar is not keyboard accessible, but does have buttons that skips (but not in small periods)
- CC button has color contrast issue
- Seek bar uses color to show position
- No button to stop the video on Android, Talkback
- Volume button not accessible on Android, Talkback
Kaltura errors

- JAWS, NVDA, WindowEyes on Firefox, IE and Chrome, labels are read out incorrectly
- Android, Talkback could not find volume controls, unable to use progress bar
- Much difficulty reading aloud captions
Video.js

- Customise options can be focused on with keyboard, but cannot be modified
- Video controls do not have a highly visible KFI
- Video KFO is not in the correct reading sequence
- Going full screen at first seems ok, but when you tab to the end of the buttons, it then continues on behind the full screen and onto the page.
- Video controls could not be used on Android, Talkback
OzPlayer errors

- NVDA doesn’t read expanded shortcuts
- Has KFI but the transcript visibility is very poor
- Could not access audio descriptions on Android, Talkback
- Labels for captions and audio descriptions difficult to understand on FireFox, IE and Chrome (JAWS, NVDA, WindowEyes)
What’s next?

Testing on iOS
Testing on Mac
Any players missed?

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We are happy to share our results

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Questions?
http://a11yoz.com/faf16-video