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# playwire™

Video Made Simple



## BOLT HTML5 VIDEO PLAYER

Prepared by: Al Rivera, JavaScript Developer

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### OVERVIEW

The Bolt HTML5 Video Player delivers video quickly and reliably across devices from desktop to mobile, without relying on Flash for playback. It's easy to integrate, and primed to monetize every view.

#### Features

The Bolt HTML5 Video Player has been designed from the ground up to provide an exceptional user-experience utilizing the latest cutting edge technologies:

- Developed with the latest in HTML5 and JavaScript providing a fast, future-proof user experience
- Lightning-fast cross-browser playback on desktops, tablets, mobile devices, Chromecast and OTT devices
- Flash fallback for when HTML5 is not available on user's device
- HLS Streaming reduces publishers and user's bandwidth and data consumption
- Adaptive Bitrate (ABR) enables videos to start faster - player detects the best resolution for network conditions
- Plays IAB Standards Compliant VAST 2.0, VPAID 2.0, VMAP 1.0.1 and Google IMA Ad Units
- Fully customizable player skin and user interface to match your brand look and feel
- Retina optimized iconography and user interface looks great on today's high resolution devices
- Robust, full-featured pragmatic JavaScript API easily fits into your technology stack
- Single-line embed allows for easy embedding without having to be included in the head of the webpage
- Responsive player scales the video player automatically to look great on any device and screen size



## SUPPORTED VIDEO FORMATS

### Input Formats and Codecs

Over 140 different video encoding formats supported - <http://www.playwire.com/supported-video-formats/>

### Output Formats and Codecs

Format	Description
.mp4	H.264 Video, AAC Audio
.flv	Not Supported as Output Format
HLS Streaming	M3U8 Manifest Files, MPEG-2 Transport Stream (TS) - H.264 Video, AAC Audio
.webm	VP8 Video, Vorbis Audio
.ogg	Theora Video, Vorbis Audio

Resolution	Description	Dimensions
720p	HD - 35fps, 60fps, 120fps	1280 x 720
1080p	FHD, Full HD, 2K - 35fps, 60fps, 120fps	1920 x 1080
1440p	QHD, WQHD, Quad HD - 35fps, 60fps, 120fps	2560 x 1440
2160p	UHD, Ultra HD, 4K, 2160p - 35fps, 60fps, 120fps	3840 x 2160

## SUPPORTED VIDEO DELIVERY METHODS

### Progressive Download

Video player requests one single video file and will download the entire file to the user device.

### HLS Streaming with Adaptive Bitrate (ABR)

Video player requests one index file and will download video segments as needed. Video quality will automatically adjust to use the highest quality level based on user's connection speed. For example, if a user is on a lower speed cellular connection, ABR will detect network conditions and play a lower resolution video until the user connects at a high connection speed at which point a higher resolution.

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## SUPPORTED AD TYPES

### Rendering Modes

Format	Flash mode	HTML5 mode
VAST 2.0	MP4, MOV, FLV, VPAID (SWF)	MP4, MOV, WEBM, VPAID (JS)
VPAID 2.0	MP4, MOV, FLV, VPAID (SWF)	MP4, MOV, WEBM, VPAID (JS)
VMAP 1.0.1	MP4, MOV, FLV, VPAID (SWF)	MP4, MOV, WEBM, VPAID (JS)
Google IMA	MP4, MOV, FLV, VPAID (SWF)	MP4, MOV, WEBM, VPAID (JS)

### Ad Creatives

Format	Flash mode	HTML5 mode
Linear	MP4, MOV, FLV, VPAID (SWF)	MP4, MOV, WEBM, VPAID (JS)
Skippable Linear	MP4, MOV, FLV, VPAID (SWF)	MP4, MOV, WEBM, VPAID (JS)
Ad Pods	MP4, MOV, FLV, VPAID (SWF)	MP4, MOV, WEBM, VPAID (JS)
Non-linear	VPAID (SWF)*, GIF, JPG, PNG	VPAID (JS), GIF, JPG, PNG

## SUPPORTED AD SERVERS

advertising.com	Adapt.tv	Adotube	Answer Media
BeOn by AOL	BrightRoll	Defy Media	Glibhippo
Google	Innovid	Komli	Millennial Media
Sizmek	Smartclip	SpotXchange	Vdopia
Vena	Videology	YuMe	Collective
PointRoll	Flashtalking	Teads.tv	DoubleClick by Google

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