

Kaltura Player Toolkit

FOSDEM 2015

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Kaltura Player Toolkit

- Architecture & Feature Overview
- Cross Platform Player Experiences
- Open Source & Community

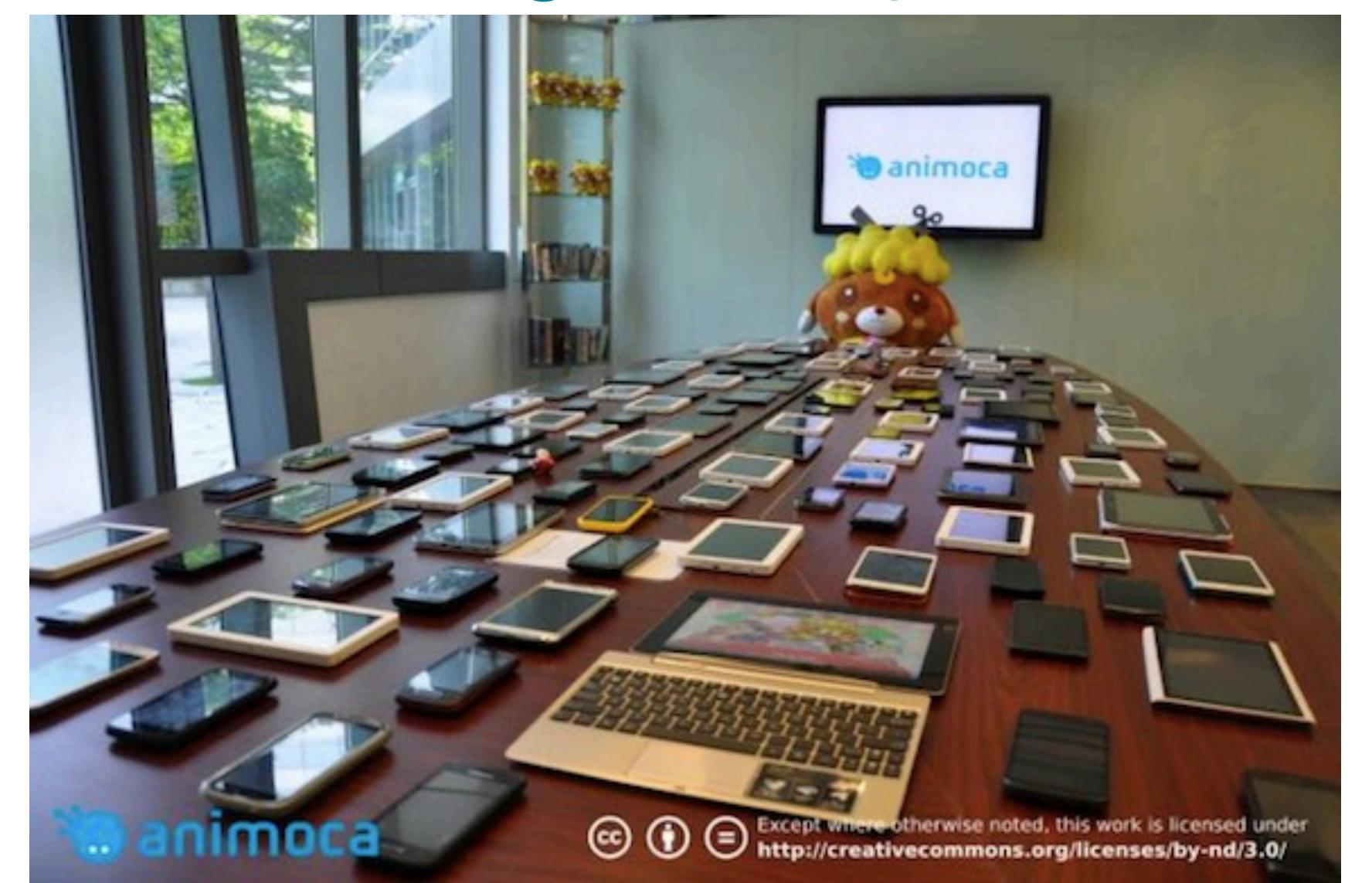


HTML5 Wins.





But mobile HTML5 is fragmented and trailing desktop features



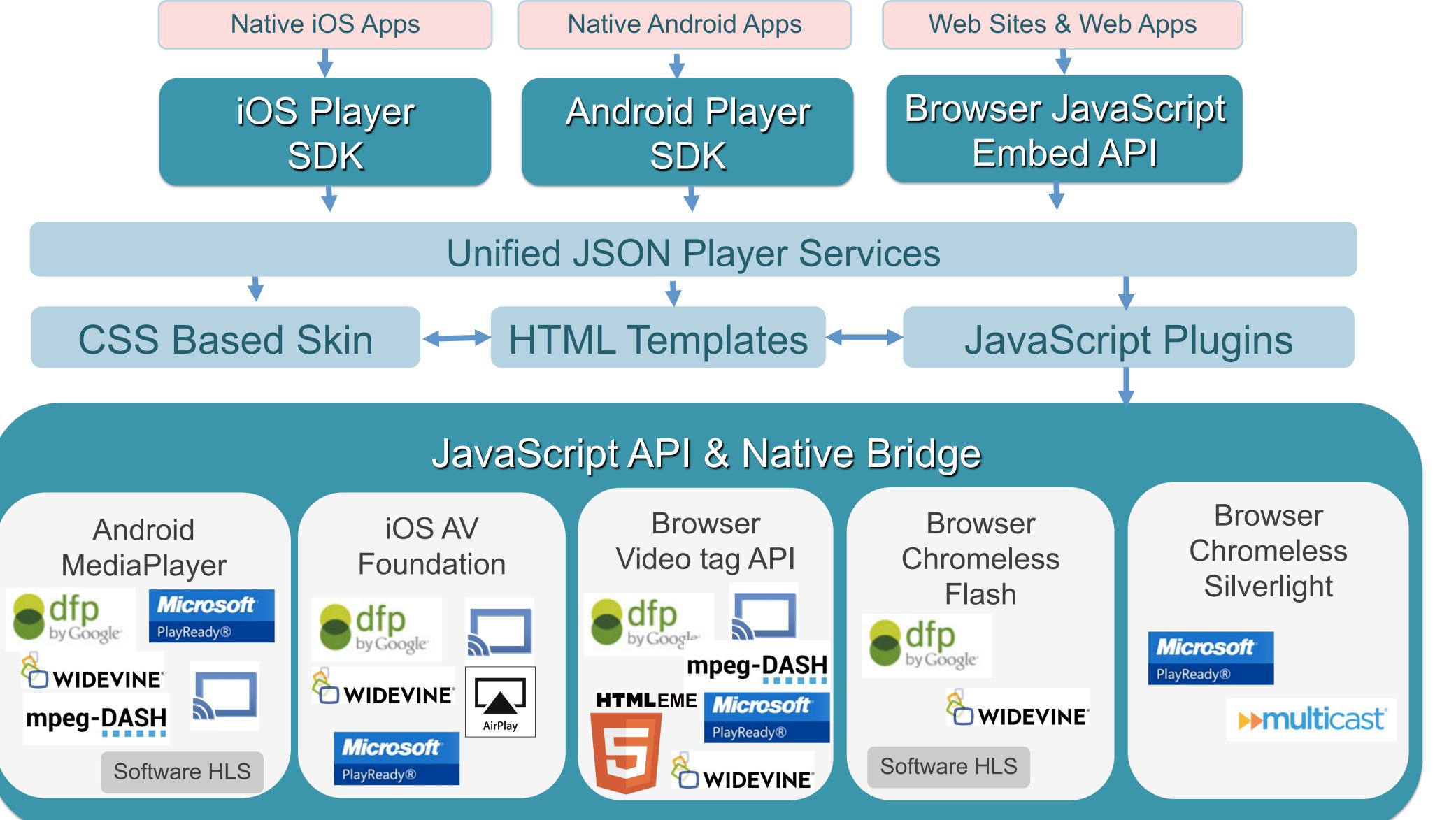


Key features missing in mobile

Feature	105		(best case)
CSS Skin & HTML Controls	X, (iPad no FS)	X 2.x, (4.0 +)	
JavaScript Plugins (Business Logic)			
HLS Adaptive Live & VOD		> 4.4 HLS issues (4.4)	✓ (software HLS)
MPEG-DASH	X	> 4.1 (4.0+ chrome)	
AutoPlay	X	X	
Full Screen & Non-Native Controls	X		
Volume Control	X	X	
Ads with controls take over	X		
Offline Playback	X	X	
Chromecast	X	X (4.4)	
AirPlay		X	X
DRM and Content Controls	X	X (4.4; widevine only)	Modular DRM: Widevine, PlayReady soon



Player Toolkit Architecture Overview





Extend mobile support w/ Kaltura player toolkit

Feature		iOS %		
CSS Skin & HTML Controls	X, (iPad no FS)		X 2.x, (4.0 +)	
JavaScript Plugins (Business Logic)				
HLS Adaptive Live & VOD			> 4.4 HLS issues (4.4)	✓ (software HLS)
MPEG-DASH	X	(via partners)	> 4.1 (4.0+ chrome)	(via partners)
AutoPlay	X		X	
Full Screen & Non-Native Controls	X			
Volume Control	X		X	
Ads with controls take over	X			
Offline Playback	X	(Coming soon)		(Coming soon)
Chromecast	X		X	
AirPlay			X	X
DRM and Content Controls	X	Widevine, PlayReady soon		Widevine, PlayReady soon

Player Toolkit

- High performance full featured cross platform player framework ∠Most players display in 1 second or less
- Configure skins once for HTML5, Flash, Android, iOS native, Smart TVs, and Chromecast with standard HTML & CSS
- Configure advertising, analytics, multi-DRM, and other features once with simple JSON config
- Stand-alone player deploy the player with Kaltura asset management or with your own or with both
- HLS normalization for HLS everywhere

See all the features in action – player.kaltura.com







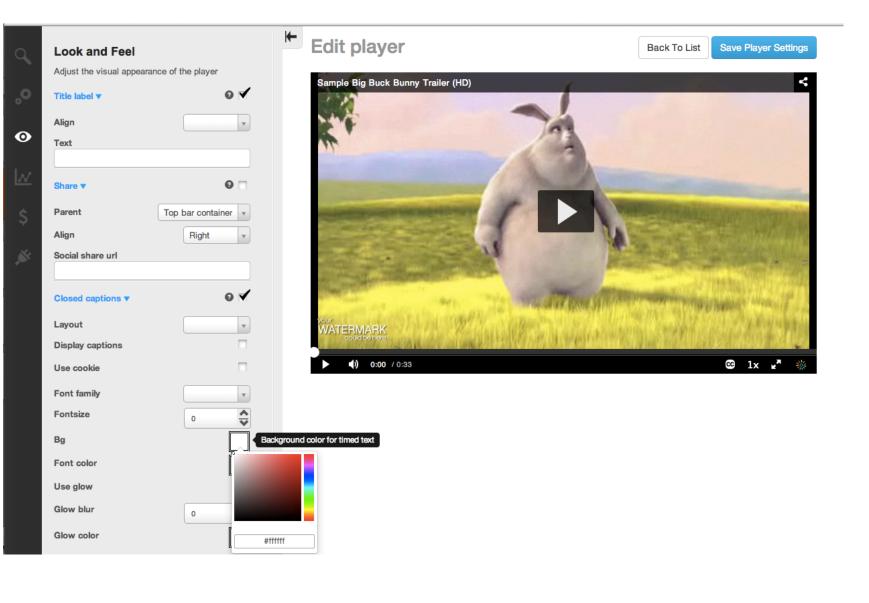






Seamless customization across integration levels

Visual Player Studio



Edit player JSON (cloud or local)

Edit: Simple Player

```
"controlBarContainer": {
                 "pluain": true
9 +
             "scrubber": {
10
                 "plugin": true
11
12 -
             "largePlayBtn": {
13
                 "plugin": true
14
15 -
             "playHead": {
16
                 "plugin": true
17
18 -
             "playPauseBtn": {
19
                 "plugin": true
20
21 -
             "volumeControl": {
22
                 "showSlider": true,
23
                 "accessibleControls": false,
24
                 "accessibleVolumeChange": 0.1,
25
                 "plugin": true
26
             "durationLabel": {
27 -
28
                 "plugin": true
29
30 -
             "currentTimeLabel": {
31
                 "plugin": true
32
33 -
             "keyboardShortcuts": {
                 "volumePercentChange": "0.1",
34
35
                 "shortSeekTime": "5",
36
                 "longSeekTime": "10",
                 "volumelinkev" · "38"
```

CSS / Templates / JS

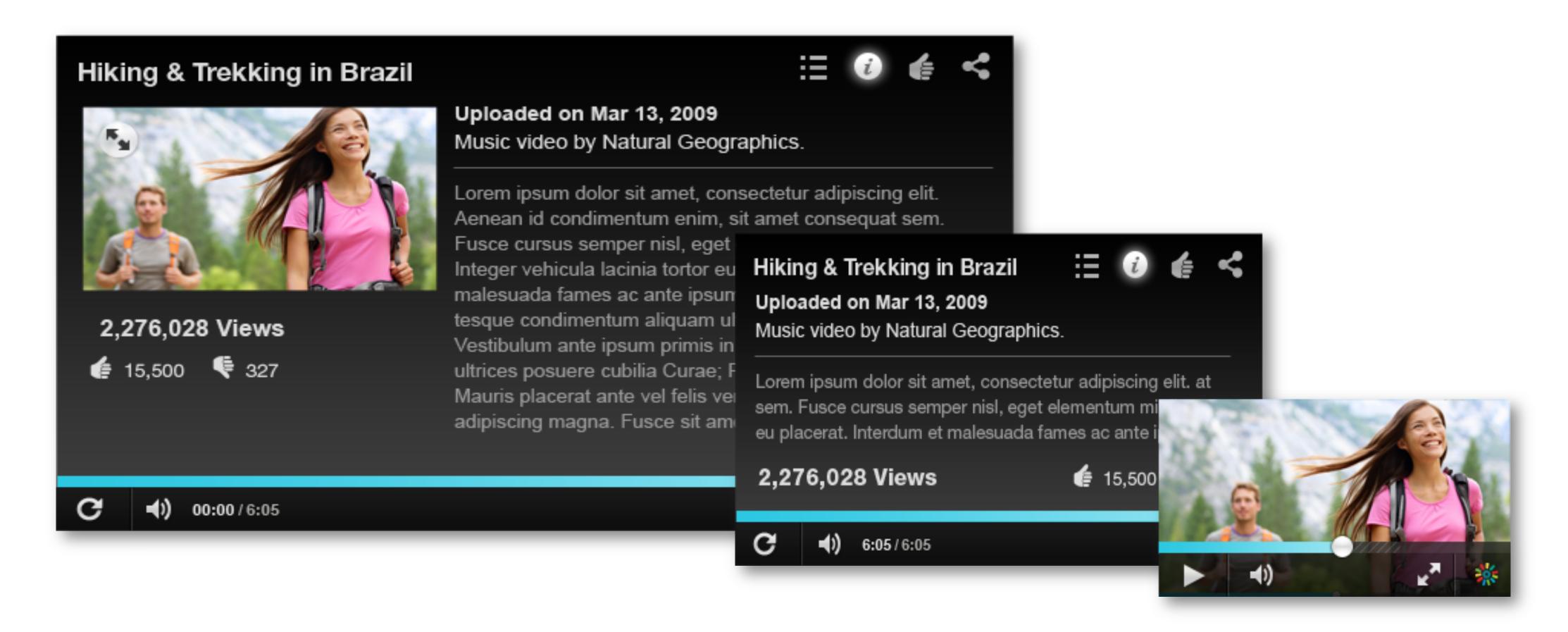
```
<div class="related-top">
     <div class="left-related related-third">
.mwPlayerContainer video {
   width: 100%;
   height: 100%;
                                                 <div class="related-replay related-button-d
     <i class="icon-replay"></i>
                                                    Replay video
.mwPlayerContainer.fullscreen {
                                                 </div>
   position: absolute !important;
   width: 100% !important;
height: 100%! important;
                                             <div class="center-related related-third">
                                                 The next video will
   z-index: 9999;
                                                 <div style="height: 50px ; vertical-align:</pre>
   min-height: 100%;
                                                    <span class="related-time-dol remaini</pre>
   top: 0;
   left: 0;
                                                 <br/>
   margin: 0;
.mwPlayerContainer {
    position: relative;
                                                    <button class="related-toggle-autoplay</pre>
                                                     data-click="toggleAutoContinue" >Turn (
   width: 100%;
   height: 100%;
   overflow: hidden;
                                            >" data-click="changeMedia" >
   position: relative;
                                                     Watch next video
   overflow: hidden;
                                                    <i class="icon-play"></i>
   width: 100%;
   height: 100%;
   background: #000;
                                        defaultConfig: {¶
 videoDisplay {
                                             parent: "topBarContainer", "
   position: absolute;
                                             order: 5,¶
   top: 0; left: 0;
width: 100%;
                                             align: "right", ¶
   height: 100%;
                                             tooltip: 'Share', ¶
                                             showTooltip: true, ¶
                                             displayImportance: 'medium', ¶
   width: 100%; height: 100%;
                                             usePreviewPlayer: .true, ¶
                                             previewPlayerEnabled: true, ¶
.mwEmbedPlayer {
    cursor: pointer;
                                             socialShareEnabled: true, ¶
                                             socialShareURL: 'smart', // 'parent' / 'http
   width: 100%;
   height: 100%;
                                             socialNetworks: 'facebook, twitter, googleplus
                                             shareOffset: true,¶
                                             templatePath: 'components/share/share.tmpl.h
                                        iconBtnClass: "icon-share", ¶
                                        setup: function () { {
                                        » this.setupPlayerURL();¶
                                        » this.addBindings();¶
                                       },¶
                                        setupPlayerURL: function () { {
                                        » var·shareURL·=·null; ¶
                                            switch (this.getConfig('socialShareURL')) {
                                                 case 'smart': ¶
                                                 » shareURL·=·this.getSmartURL();¶
```

» » break;¶
» » case·'parent':¶

Multi-Screen Experience



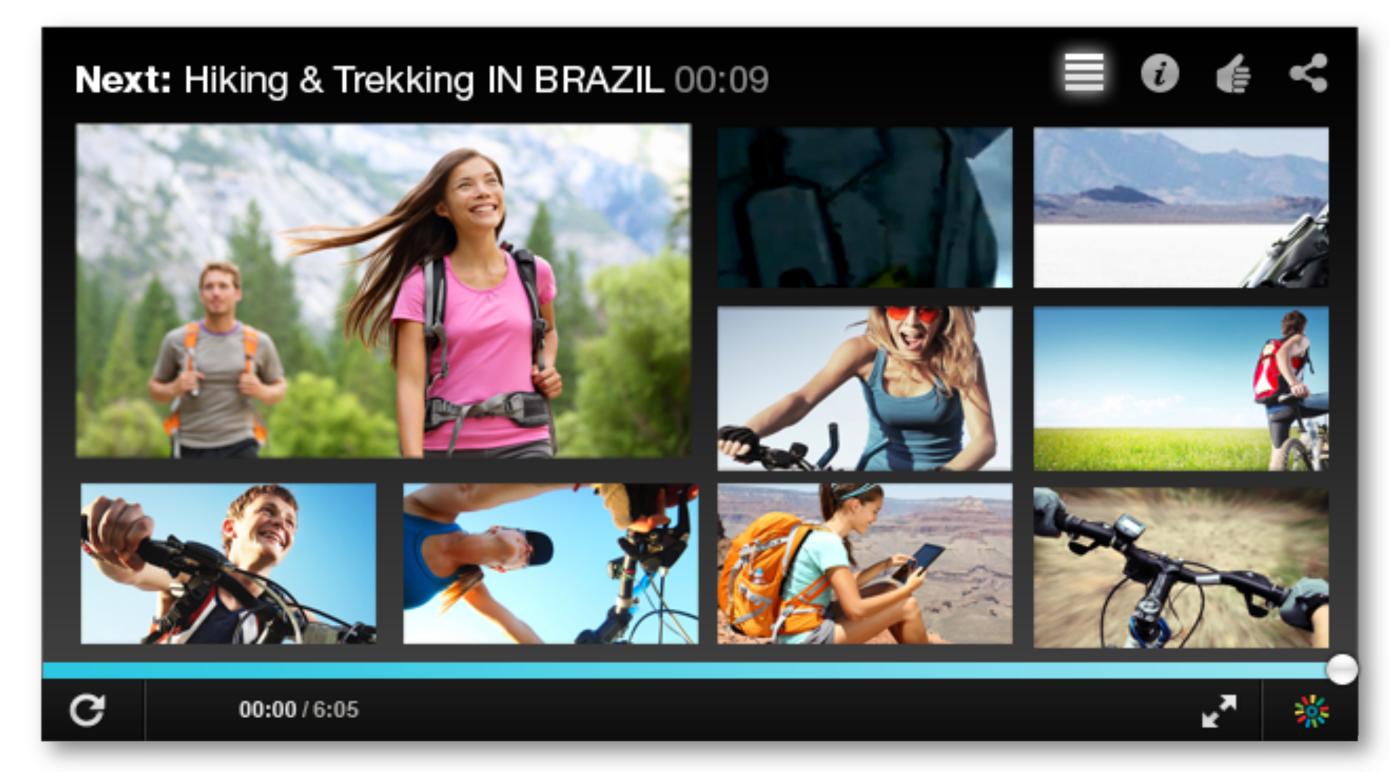
Responsive Player Layout & Components





Related Videos

- Enhanced related videos interface
- Elexible options for related video fulfillment
- Events for tracking conversion / retainment
- Works with external recommendation engines





Adaptive Everywhere Streaming Support

Chromeless Flash HLS

- HLS Flash for Desktop browsers
- Software HLS solves Android fragmentation
- Simplified live broadcast and vod adstitching workflows

✓MPEG-DASH:

- Encrypted Media Extension support web delivery of DRM and content controls
- ✓ Multi-track audio
- More detailed analytics on quality of services metrics







Kaltura Play – Native SDK app

- *Useful for quickly testing native features (DRM, custom adaptive streaming, html controls)
- Being used where clients can't quickly build their own app.
- Enables easy use of chromecast on iOS etc.

Kaltura Play

By Kaltura Inc.

Open iTunes to buy and download apps.



View in iTunes

This app is designed for both iPhone and iPad

Free

Category: Entertainment Updated: Jan 14, 2015 Version: 0.1.2 Size: 6.2 MB Language: English Seller: Kaltura, Inc. © Kaltura Corp.

Rated 4+

Compatibility: Requires iOS 6.0 or later. Compatible with iPhone, iPad, and iPod touch. This app is optimized for iPhone 5.

Customer Ratings

Description

The "Kaltura Play" app enables seamless delivery of native player experiences from web or native app contexts. Fully integrated into the Kaltura player toolkit, and associated Kaltura platform services it enables robust content protection with industry standard DRM systems, robust analytics across analytic providers and native ad network

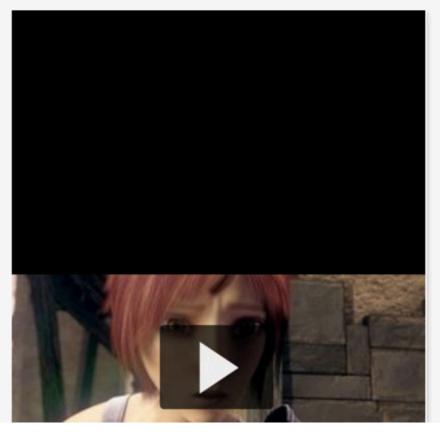
Kaltura Inc. Web Site > Kaltura Play Support >

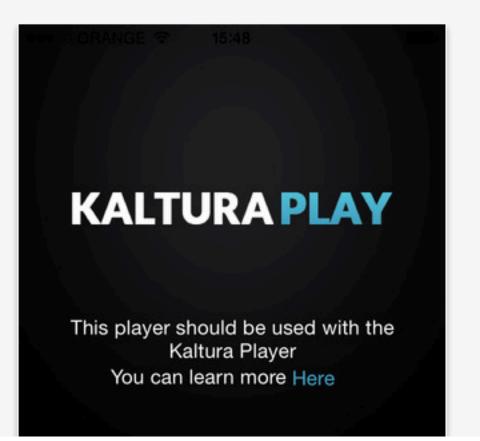
...More

What's New in Version 0.1.2

Bug fixes

Screenshots







View More by This Developer

iPhone | iPad

Open source & Community



Player Toolkit and Open source

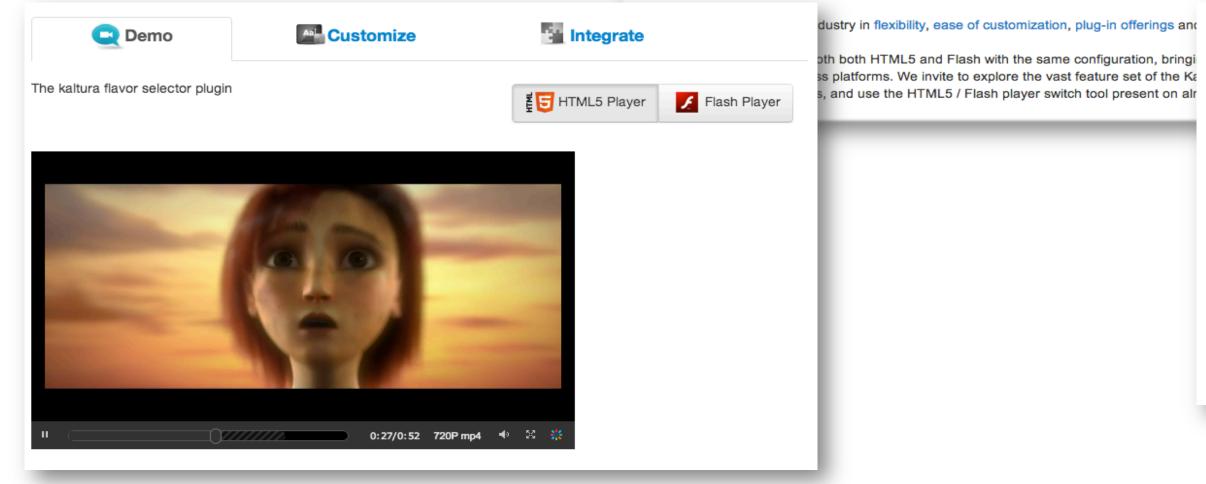
- Project fully hosted on github in conjunction Kaltura server:
 - https://github.com/kaltura/mwEmbed
 - https://github.com/kaltura/player-sdk-native-android
 - https://github.com/kaltura/player-sdk-native-ios
- 2-Pull requests from github and from wikimedia project usage.
- Setting good community contribution guidelines is important!
- Small code changes a lot easier to handle then big ones.
- ∠Focused on fostering 3rd party integrations detailing API.



Learn More at player.kaltura.com



Code Examples



Demos

You can include SEO in a target div and still make use of autoEmbed directly preceding the target.

Auto Embed with SEO

