bodymovin

After Effects plugin for exporting animations to svg/canvas/html + js or natively on Android and iOS through Lottie (https://medium.com/airbnb-engi

- Extract content and search for the .zxp file from '/build/extension'
 Use the ZXP installer (http://sescripts.com/leam/zxp-installer/) from sescripts.com.

V 5.5.6

- FIX: surrogate pairs character support in animated text
 FIX: new expressions supported

V 5.5.5

- changed failed image bg to transparent
 FIX: fix for old json expressions in key function

V 5.5.3

- FEATURE: Add SVG support for Gaussian Blur effects (thanis finalita)
 FEATURE: Add TypeScipt type definitions (thanis D34THWNCS)
 FIX: removed warning of text when created by text formatted
 FEATURE: added multiple settings functionally to extension
 FEATURE: added multiple settings functionally to extension
 FEATURE: 3646 support for make poacyly in expressions
 FIX: fix: settings functionally in special settings functionally functionally functional functions.
 FIX: Fix: settings function functions function functions function functions functions.

- FIX: Fix loader issue on pre-kitkat Android webview
 FIX: eroded masks in sig renderer
 FIX: text alognment in text boxes
- V 5.5.1
- FIX: key expression for new json format
 IMPROVEMENT: forcing a rerender when resize is called in canvas
 ACCESSIBILITY: added title, description and arial abel for text layers for svg renderer

V 5.5.0

- IMPROVEMENT. JSON filesize reduction. Around 25 to 33% filesize reduction with this new version
 FEATURE: Bodymovin panel with new advanced settings to reduce filesize.
 FIX. hone of creating when calling plus plus persuarce filesize.
 FIX. sadded source-over a default blending mode for canvas renderer resetting
 FIX. fixed better easing properly validation
 FIX. fixed properly caching by index instead of bester data
 FIX. dad properly caching by index instead of bester data
 FIX. data design properly validation

- V.S.4.4

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 FIV. Steel of the medium property

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V 5.4.3

- NEW added blend mode support for shapes in sey renderer
 NEW: moded we players
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 NEW: candes repealer fx
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 NEW: candes repealer fx
 NEW: peals regular fix
 NEW: peals

V 5.4.2

S.M.Z. FIX: added enabled properly on effect interfaces for expression FIX: front measuring its for shalls expaces FIX: appearing efficients properly in objective properties on the state of the sta

FIX: missing variable declaration

V 5.4.0

- EXPRESSIONS: easing functions reflactored
 FIX: double effect fix with multiple children elements
 FIX: adding max and min values to this gain start and end
 EXPRESSIONS: added velocity property
 FIX(party Fix Anti-One assignment and optimize FortiManager (thanks @williams-curago)
 FIX: fix for small trins paths
 FIX: added conditions and trins paths
 FIX: dated conditions for small residency
 FIX: dated conditions for small residency
 FIX: dated conditions for small residency
 FIX: added conditions for small residency
 FIX: added conditions for small residency

V 5.3.4

- FIX: font load fix
 TEXT: End of Text character support

V 5.3.3

- FIX: playSegments when forcing a new segment correctly removes the previous list
 FIX: Isolating external assets before recedeng the first frame of the animation on canvas renderer
 FIX: desiring calcaling satilal basiler and when previous frame is reached
 FIX: promoting lest properly to dynamic properties when using text supdate methods
 FIX: extra compress with and height properties supported
 FIX: multiple trins fixed

V 5.3.1

- FIX: expressions with non computed memberExpressions
 FIX: animated gradient in svgs

V 5.3.0

- REFACTOR: canvas shape medeer had an important refactor: Should support new moder cases and have a performance improve
 EXPRESSIONS: preprocessing expressions allows to prevent getting values! froit needed on expressions
 EXPRESSIONS: purport postages, used and another/Particularized set
 EXPRESSIONS: support for postage, used and another/Particularized set
 EXPRESSIONS: exproof to start and end opacity
 FIX: Preferring reflects before made sizes some small ender cases

 FIX: caded orientation support for 3d cameras

 FIX: dashed larve even of restelled in larve schartices.

V 5.2.1

FIX: text animators based on words and perco
 EXPRESSIONS: Latest Duik version support

V 5.2.0

- FEATURE: gradient support in canvas renderer (some cases are not supported)
 EXPRESSIONS: layer name support for expressions
 FIX: reverse play on not loops
 SUPPORT: Offent along path with separate dimensions
 FIX: time rache issue fixed
 FIX: time rache issue fixed

V 5.1.20

V 5.1.19

- FIX: Trim Paths with empty paths fix
 FIX: linear method fix for inverted values
 FEATURE: Ignoring merge path's last path if square
 FIX: Camera zoom

- FIX: Validating if text data is complete on first render
 FIX: Loop counting when playing backwards
 FEATURE: Added inPoint and outPoint to layer's expr

- FIX: Moved defs to top to avoid Safari issues
 FEATURE: Added crossOrigin attribute to images to avoid tainted canvazes
 FEATURE: Added imagePreserveAspecificatio to rendererSettings for image layers
 FIX: splitting animations in multiple files

V 5.1.17

- FIX: asset error handling
 FEATURE: Rove across time support
 FIX: bevel line support

V 5.1.16

V 5.1.15

- FEATURE: Moded freezahunfresze methods to dop prevent any animation from playing
 FEATURE: Added geRogueta-Monastons method to get all cruent advantations handled by lottle
 FEATURE: Support for empressed gips when image is not transparent
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 FEATURE: Support for empressed gips.

V 5.1.14

- FIX: Dash property animated
 FIX: Canwas renderer skips hidden layers
 FIX: When clearCanwas is set to true on the canwas renderer, every frame is rendered
 FIX: calculation error on masks

- EXPRESSIONS: fix for global variables used in functions
 EXPRESSIONS: operations supported for arrays

V 5.1.12

Lottie + Bodymovin

Lottie is the native engine that Airfanb's awesome team built. It uses Bodymovin as the animation exporter and is the ideal complement for getting animations to play natively e Follow these links to get each player:

- Android's player (https://github.com/airbnblottle-android)
 IOS's player (https://github.com/airbnblottle-android)
 React Native's wrapper (https://github.com/airbnblottle-react-nati

Lottie and AVD

Some animations can be exported for Android using the AVD format. It can fit for zome case where you'll gain a performance improvement. But call fit for zome case where you'll gain a performance improvement. But called beings much more features, a lend of animation control and dynamic loading that couldn't be achieved with avd. Here's a link http://laidnbi.io/loitiefoilie-evd html) with a full comparison of both technologies.

After installing

HTML player installation

with bower bower install bodymovin

Or you can use the script file from here: https://cdnjs.com/libraries/bodymovin Or get it directly from the AE plugin clicking on Get Player

See a basic implementation here. (https://codepen.io/aiman/project/editor/ZeNONO/)

Examples

How it works

Here's (https://www.youtube.com/watch?v=5XMU.dj.l0l.8) a video tutorial explaining how to export a basic animation and load it in an html page
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After Effects

- Open your AE project and select the bodymonin extension on Window > Extensions > bodymovin
 A Panel will open with a Compositions tab listing all of your Project Compositions.
 Select the composition you want to export.
 Select a Destination Foldet
 Click Pender
 Click Pender
 I clock for the deported join file (if you had images or Al layers on your animation, there will be an images folder with the exported files)

- HTML

get the lottie.js file from the build/player/ folder for the latest build include the .js file on your html (remember to gzip it for production)

kscript src="js/lottie.js" type="text/javascript"></script

- lets an object as a unique param with:

 a minationData. On object with the exported animation data.

 path: the relative path to the animation object. (animationData and path are multually exclinopture of lates it must be animation object. (animationData and path are multually exclinopture of lates it will start playing as soon as it is ready

 animatic animation name for future enference

 rendescr. buf of 'cannear' hashed to set the rendescr

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It returns the animation instance you can control with play, pause, setSpeed, etc.

n returns the animation indance you can control with play pause, an Loctial-loadAnimation((
containers element, // the dom element that will co renderer 'avg',
autoplay: true,
path: 'data.json' // the path to the animation json
[]1

Composition Settings:

Check this wiki page for an explanation for each setting. https://github.com/airbnb/lottie-web/wiki/Composition-Settings

Usage

Animation instances have these main methods play

stop

setLocationHref(href)

setSpeed(speed)

goToAndStop(value, isFrame)

- value: numeric value.
 isFrame: defines if first argument is a time based value or a frame based (default false).

goToAndPlay(value, isFrame)

setDirection(direction)

direction: 1 is forward, -1 is reverse

playSegments(segments, forceFlag)

- segment a: array. Can contain 2 numeric values that will be used as first and last frame of the animation. Or can contain a sequence of arrays each with 2 numeric values.
 forceFlag: boolean. If set to false, it will wait until the current segment is complete. If true, it will update values immediately.

useSubFrames: If false, it will respect the original AE fps. If true, it will update on every requestAnimationFrame with intermediate values. Default is true.

getDuration(inFrames)

InFrames: If true, returns duration in frames, if false, in seconds.

Aditional methods:

updateTextDocumentData – updates a text layer's data
 More Info (https://github.com/airbnb/lottie-web/wiki/TextLayer.updateDo

lottie has 8 global methods that will affect all animations:

Indication | with 1 optional parameter name to larget a specific animation other
lottle.stop) - with 1 optional parameter name to larget a specific animation other
lottle.stop) - with 1 optional parameter name to larget a specific animation other
lottle.stople.stop - first argument preceding the specific animation other
lottle.stople.stop - first argument direction (1 is normal sheed-into) - with 1 optional parameter name to target a specific animation other
lottle.stople.stop - first argument direction (1 is normal sheed-into) - with 1 optional parameter name to target a specific animation other
lottle.stople.stop - lottle.stople.s

Events

onComplete
 onLoopComplete
 onEnterFrame
 onSegmentStart
you can also use addEventL

- can also use addeventu. seener with the tollowing events:

 loopComplete
 enterfarme
 sognertStart
 conding_ready (when initial config is done)
 data_ready (when all pasts of the animation have been loaded)
 loaded_impace (when all impacts have either ascoceded or errored)
 DOMLoaded (when elements have been added to the DOM)
 destroy

Other loading options

. if you want to use an existing canvas to draw, you can pass an extra object: 'renderer' with the following configuration

```
• If you want to use an exiding canwasto draw, you can pass an exist object 'endemer' with the following configuration:

container: element, // the dom element
readware' resyl
loops true,
autoplays true,
animaticolata: amimaticolata, // the animation data
readwarestrings: (
context: canvasContext, // the canvas context
context: canvasContext, // the canvas context
propressiveLook if also, // Boolsan, only any readware, loads dom elements when needed. Might speed up initiality
hidsdofframperset true, // Roolsan, only any readware, loads dom elements when needed. Might speed up initiality
hidsdofframperset true, // Roolsan, only any readware, hidse elements when opacity reaches 0 (defaults to true)
className: 'some-cas-class-name'
)
```

Doing this you will have to handle the canvas dearing after each frame duty.

Another way to load animations is adding specific attributes to a dom element.

You have to include a div and set it's class to lottle.

If you do it before goe load, it will sudmindiorily search for all tags with the class "lottle".

Or you can call lottle searchAnimation(s) after page load and it will search all elements with the class "lottle".

Example

Preview

You can preview or take an sag snapshot of the animation to use as poster. After you render your animation, you can take a snapshot of any frame in the animation and save it to your disk. I recommend to pass the sag through an sag optimizer like https://jakearchibald.github.io/sagomg/ and play around with their settings.https://picarchibald.github.io/sagomg/ and play around with their settings.

Recommendations

If you have any images or Al layers that you haven't converted to shapes (I recommend that you convert them, so they get exported as vectors, right click each layer and do: "Create shapes from Vector Layers"), they will be saved to an images folder relative to the destination join folder. Beware not to overwrite an exiting folder on that same location.

This is real time rendering. Although it is pretty optimized, it always helps if you keep your AE project to what is necessary-brit More optimizations are on their way, but try not to use huge shapes in AE only to madk a small part of it-derivon many one will also affect performance.

Help If you have any animations that don't work or want me to export them, don't hesitate to write.

"In really interested in seeing what kind of problems the plugin has.

"br/>
my email is hernantorisi@gmail.com

AE Feature Support

- The sirgle supports precomps, dhapes, solids, images, null objects, lexis

 Il supports made and invended mades. Maybe other modes will come but it has a huge performance hit.

 Il supports made manaphing

 The sirgle supports angues rectangles, eligippes and data.

 The sirgle supports angues rectangles eligippes and sirgle supports and sirgle supports.

 No negative layer stretching! No idea why, but deteching a layer messes with all the data.

Development

npm install or bower install first

Notes

- If you want to modify the parser or the player, there are some gulp commands that can simplify the task
 lookst the great animations exported on codepens <u>See examples on codepens. (they incodepens includication in YYWZR)</u>
 spripping the animation is pass and the player have a buge enduction on the filester. Irrecommend doing it if you use it for a project.

Issues