Easy UI Motion

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What is Easy UI Motion

Easy UI Motion allows you to animate your 2D full screen interfaces made with Unity UI, easily and visually. Manage Opening /closing effects, or simple effects on element or groups of elements that make up your interface.

Easy UI Motion uses the new events system, that allow you to chain and manage the elements of your interface, without writing a line of code.

Two Components:

- * Open/Close
- * Simple/Rewind

Animate your items on the following actions:

- * Position
- * Rotation
- * Scale
- * Transparency

Personalized your effect:

- * The easing
- * The time for action
- *etc..

Link your motions:

- * With event system (WYSIWYG)
- * With build in API

Creating funny interface has never been easier, by simply adding EasyUlMotion components to the Ul element you want to animate.

Watch the video presentation, click here

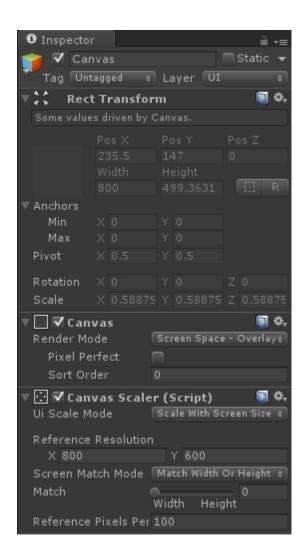
And Look at the examples that are provided.

Setting up your canvas

Easy UI Motion is for 2D interfaces created with Unity UI.

It should be used on UI objects belonging to gamobject with a **Canvas** and **Canvas Scaler** component set as follows:

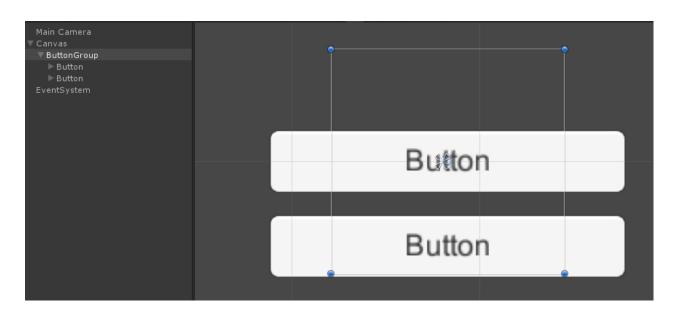
- Render Mode set to : Screen Space Overlay
- Ui Scale Mpde set to Scale with screen size



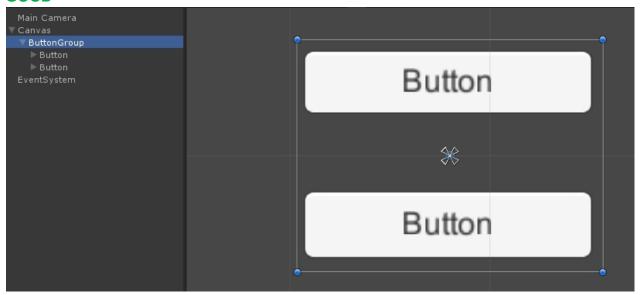
Group of UI elements

If you want to apply an effect on a group of elements, the first object of the group must encompass all child objects, otherwise the calculations of the opening and closing position will be incorrect

NOT GOOD

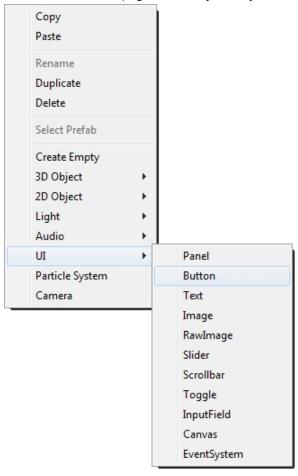


GOOD



Quick Start

- Import Easy UI Motin package
- Create a button (Right click on jierarchy view => UI => Button



- Setting up your canvas as shown <u>here</u>
- Select the button in the hierarchy view
- Position it 0,0,0
- Add OpenClose Motion component => Add component button => UI => Effects =>Open-Close Motion
- Enabled move move effect



• Start Playback mode

Available components

Easy UI Motion has 2 components <u>EMOpenCloseMotion</u> & <u>EMSimpleMotion</u>, which can be applied to an element or an element group. You can also apply on a child element of a group of which has itself a motion effect.

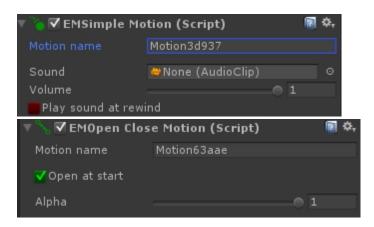
When you add an EasyUlMotion component, it adds even CanvasGroup component to manage transparency, selectable mode or not state.

Multi component & naming

An element or group of elements can receive multiple components of the same type. But in this case be careful to name you give to your purpose, it must be unique for the current scene.

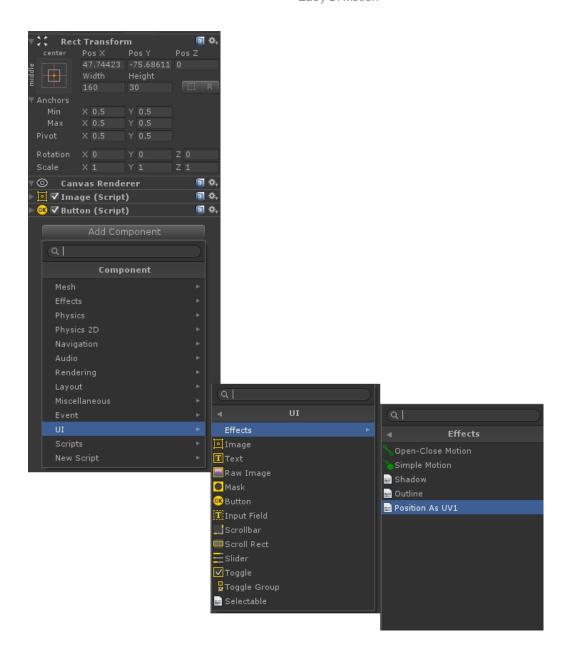
This name will some you in case you want to use Easy Motion I li with its ARI (When creating the

This name will serve you in case you want to use Easy Motion Ui with its API (When creating the component a random name assigned to it in the form: Motion3d937).



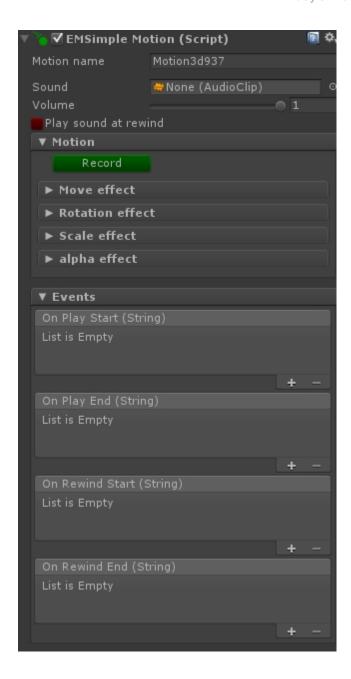
Add component

These components are accessible from the Add Component button in the inspector.



Custom Inspector

Each component has a custom inspector, allowing you to configure motion effects & events.

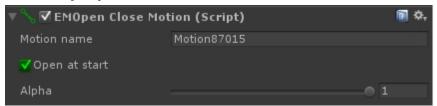


EMOpenCloseMotion

This component allows you to manage the opening and closing of an element or group of elements. It has 2 motions (Open & Close).

This component considers the current state in scene view corresponds to the open state.

General properties



- Motion name: The name of the motion, must be unique.
- Open at start: Set if the element or group of elements will be displayed at application launch.
- Alpha: Defined transparency for the current state (open)

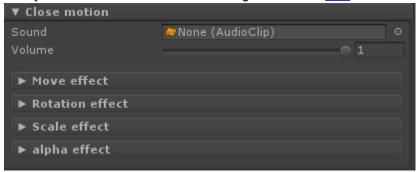
Open Motion

Here you define the initial state before opening. More detail here



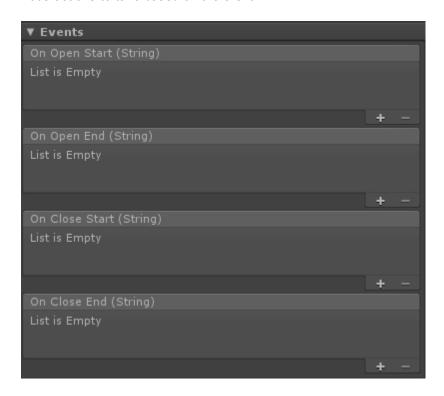
Close Motion

Here you define the final state after closing. More detail here



Events

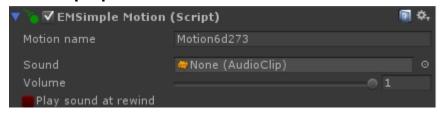
Adds actions to take based on the event.



EMSImpleMotion

This component allows you to add simple motion (play/rewind) on element or group of elements, that are already displayed.

General properties



- Motion name: The name of the motion, must be unique.
- Sound: The sound that will be played at the playing
- Volume : The sound volume
- Play sound at rewind : Enabled to play sound a rewind

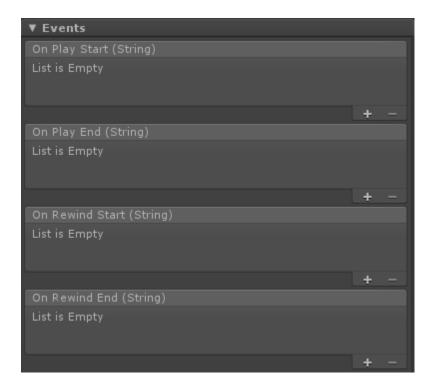
Motion

More detail here



Events

Adds actions to take based on the event.

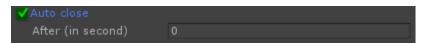


Motion

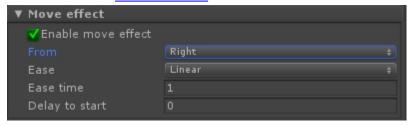
Here you define the initial state before opening for Open motion, or final state after closing for Close motion.



- Sound : The sound that will be played at the opening / closing (Only openClose motion)
- Volume : The sound volume



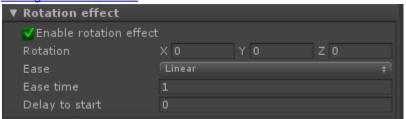
- Auto Close: Allows the automatic closing once the open state is reached. This is useful in cases of display element to remain at the screen for a short time (Only for Open Motion)
- After (in second): The time in seconds to wait before the closure is launched
- Record Button: Allow to record all effect destination in scene view (only for simple motion)
- Move Effect : More detail here



Rotation effect

Sets the rotation from which the movement will be made to reach the open/ close rotation, or the rotation that must be reached for a simple motion

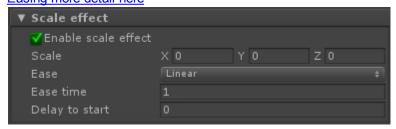
Easing more detail here



Scale effect

Sets the scale from which the movement will be made to reach the open/close scale, or the scale that must be reached for a simple motion

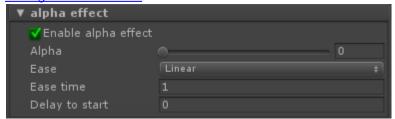
Easing more detail here



alpha effect

Sets the transparency from which the movement will be made to reach the open/close alpha, or the alpha that must be reached for a simple motion

Easing more detail here



Move Effect

Sets the position from which the movement will be made to reach the open/close position



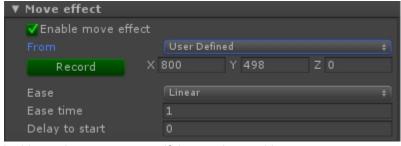
• Enable move effect : Enables / disable move effect

• From :



The initial position relative to the current position in the scene view. The position will be calculated automatically and will be outside the canvas

User defined



In this mode you set yourself the starting position.

Press the Record button => place your element in the scene view => Press the Stop button Record

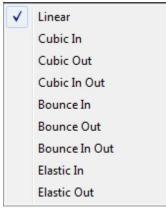
• Easing more detail here

Easing



Ease

The easing mode that will be used for the movement



- Ease time : The duration of effect
- Delay to start: The waiting time before starting the effect, after the opening request is given

API

Easy UI Motion has an API so that it can be used with the new event system, or with a script. It will be listed that members & useful functions.

EMOpenCLoseMotion API: Use when using the event system.

EMSimpleMotion API: Use when using the event system.

EMMotionManager API: Use your own script.

EMOpenCloseMotion

These functions will be useful when using the new WYSIWYG event system from unity

Public functions

Open(): Launch Open effect when there is only one OpenClose component.

Open(String motionName): Launch Open effect of OpenClose component identified by motionName.

Close(): Launch Open effect when there is only one OpenClose component.

Close(String motionName): Launch Open effect of OpenClose component identified by motionName.

SetStateToOpen(): Force state to Open when there is only one OpenClose component.

SetStateToOpen(string motionName): Force state to Open on motion identified by motionName.

SetStateToClose(): Force state to Close when there is only one OpenClose component.

SetStateToClose(String motionName): Force state to Close on motion identified by motionName

ShowUlElement(): Show UI element and his child when there is only one OpenClose component.

ShowUlElement(string motionName): Show UI element and his child on motion identified by motionName.

HideUlElement(): Hide UI element and his child when there is only one OpenClose component.

HideUlElement(string motionName): Hide UI element and his child on motion identified by motionName.

EnableUlElement(): Enabled UI element when there is only one OpenClose component. The selectable items are no longer active

Enable UI Element (string motionName): Enabled UI element on motion identified by motionName. The selectable items are no longer active

Disable UIElement(): Disabled UI element when there is only one OpenClose component.

DisableUlElement(string motionName): Disabled and his child UI element on motion identified by motionName.

Events

onOpenStart: Occurs at the beginning of the open motion.

onOpenEnd: Occurs when the closing of open motion is completed.

onCloseStart: Occurs at the beginning of the close motion.

onCloseEnd: Occurs at the beginning of the close motion.

EMSimpleMotion

These functions will be useful when using the new WYSIWYG event system from unity

Public functions

PlayMotion(): Launch the motion when there is only one SimpleMotion component.

PlayMotion(String motionName): Launch motion of SimpleMotion component identified by motionName.

RewindMotion(): Launch rewind motion when there is only one OpenClose component.

RewindMotion(String motionName): Launch rewind motion of SimpleMotion component identified by motionName.

Reset(): Reset the motion to initial state to relaunch a the motion if you don't want to launch rewind motio.

Reset(string motionName): Reset the motion to initial state to relaunch a the motion if you don't want to launch rewind motio.

ShowUlElement(): Show UI element and his child when there is only one OpenClose component.

ShowUlElement(string motionName): Show UI element and his child on motion identified by motionName.

Hide UI Element(): Hide UI element and his child when there is only one OpenClose component.

HideUlElement(string motionName): Hide UI element and his child on motion identified by motionName.

EnableUlElement(): Enabled UI element when there is only one OpenClose component. The selectable items are no longer active

Enable UI Element (string motionName): Enabled UI element on motion identified by motionName. The selectable items are no longer active

Disable UI Element(): Disabled UI element when there is only one OpenClose component.

Disable UIElement (string motionName): Disabled and his child UI element on motion identified by motionName.

Events

onPlayStart: Occurs at the beginning of the start motion.

onPlayEnd: Occurs when the starting of open motion is completed.

onRewindStart: Occurs at the beginning of the rewind motion.

onRewindEnd: Occurs at the end of the rewind motion.

EMMotionManager

EMMotionManager

This class allow to control motion with static function

Static functions

void Open(String motionName): Launch Open effect of OpenClose component identified by motionName.

void Close (String motionName): Launch Open effect of OpenClose component identified by motionName.

voidSetStateToOpen(string motionName): Force state to Open on motion identified by motionName.

void SetStateToClose(String motionName): Force state to Close on motion identified by motionName

void PlayMotion(String motionName): Launch motion of SimpleMotion component identified by motionName.

void RewindMotion(String motionName): Launch rewind motion of SimpleMotion component identified by motionName.

void ResetSimpleMotion(string motionName): Reset the motion to initial state to relaunch a the motion if you don't want to launch rewind motion

void ShowUlElement(string motionName): Show Ul element and his child on motion identified by motionName.

void HideUlElement(string motionName): Hide UI element and his child on motion identified by motionName.

void EnableUlElement(string motionName): Enabled UI element on motion identified by motionName. The selectable items are no longer active

void DisableUlElement(string motionName): Disabled and his child UI element on motion identified by motionName.

EMBase Motion. Motion State Get State (string motion Name): Return the current state of the motion identified by motion Name