



# TilBuci

## Scripting Actions

All user interaction on TilBuci is managed by JSON-formatted texts with instructions about how to handle both input and playback flow. This document describes this format with all available instructions.

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# TilBuci

## Scripting Actions

Version 13 - 2025/05/24

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# 1. Scripting actions on TilBuci

You may create beautiful scenes and animations on TilBuci but they won't be really useful if you don't provide user interaction to them. A good interaction design is fundamental for your content to get life!

To enable these interactions, TilBuci uses a JSON-formatted text describing the actions. If you are not familiar with the JSON concept, is it a data format based on JavaScript. You don't really need to go too deep on JSON to use it on TilBuci, but if you are interested on it, please check out [json.org](https://json.org) for further information.

The TilBuci actions are always provided as an *object* with at least two fields: *ac*, a simple string, and *param*, an array of strings (all parameters must be provided as strings, even numeric ones like "3.1416"). If an action does not require parameters, the *param* value must still be given as an empty array.

```
{
  "ac": "actionhere",
  "param": [ "param1", "param2", "param3" ]
}
```

Actions may also be provided as an array of objects. You can use these arrays on every place that accepts a single action.

```
[
  { "ac": "firstaction", "param": [ "param1" ] },
  { "ac": "secondaction", "param": [ ] }
]
```

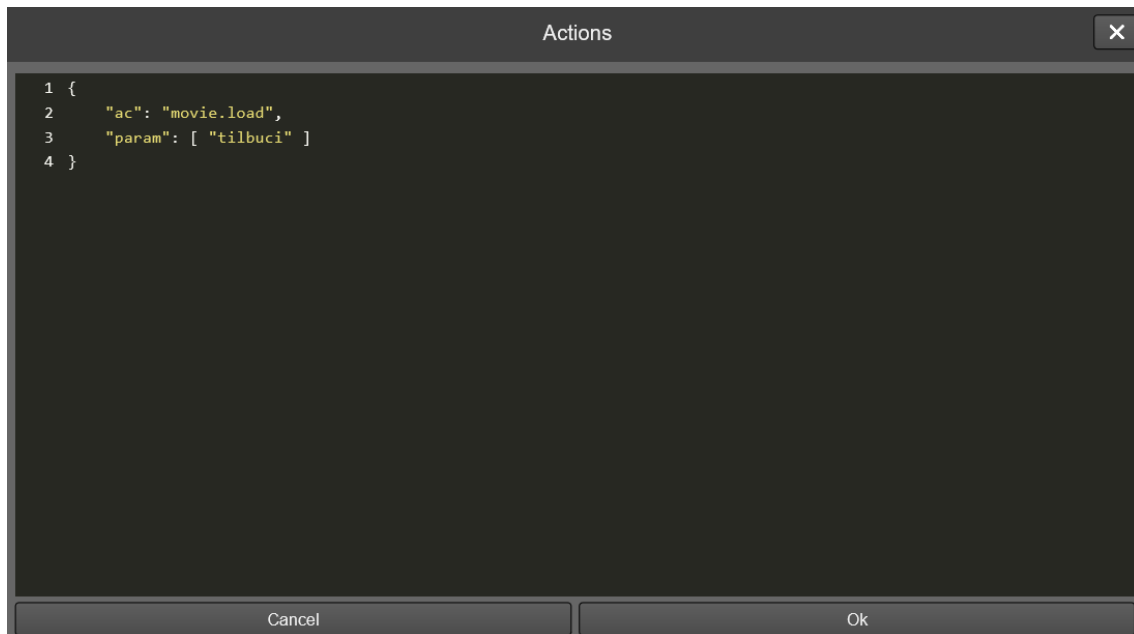
There are some actions, like conditionals, timers and inputs, that may accept additional fields. Check out the following example:

```
{
  "ac": "if.stringsequal",
  "param": [ "$okemail", "name@email.com" ],
  "then": {
    "ac": "timer.set",
    "param": [ "displaytimer", "1000", "1" ],
    "tick": [ ],
    "end": { "ac": "scene.load", "param": [ "userscene" ] }
  },
  "else": [
    { "ac": "timer.clearall", "param": [ ] },
    {
      "ac": "input.login",
      "param": [ ],
      "ok": {
        "ac": "string.set",
        "param": [ "okemail", "$_USERNAME" ]
      }
    }
  ]
}
```



```
    },  
    "cancel": {  
      "ac": "string.clear",  
      "param": [ "okemail" ]  
    }  
  }  
]  
}
```

You can input your action script on its window at the editor. By clicking on *ok* your JSON text will be evaluated for errors (notice that this will only look for text inconsistencies, not your script logic).

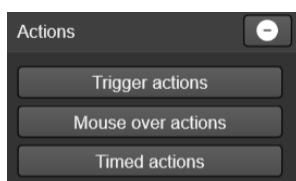


## 1.1. Where do I use these interaction scripts?

You can provide action scripts on many places. The usual one is on an user click/touch of an instance, but there are many more.

### 1.1.1. Instance interactions

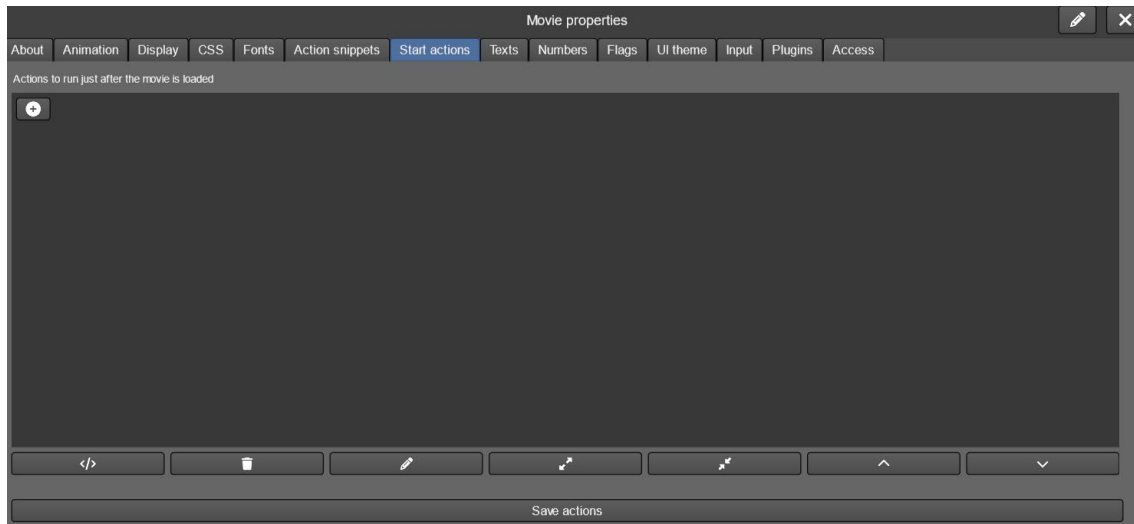
This is the usual place to set an action script. Just select an instance on the stage and look for the *Actions* tab on the right menu. You can set actions for three different moments: trigger (when the instance is clicked/tapped), when the mouse cursor hovers it or you can use the instance playback to create timed actions.



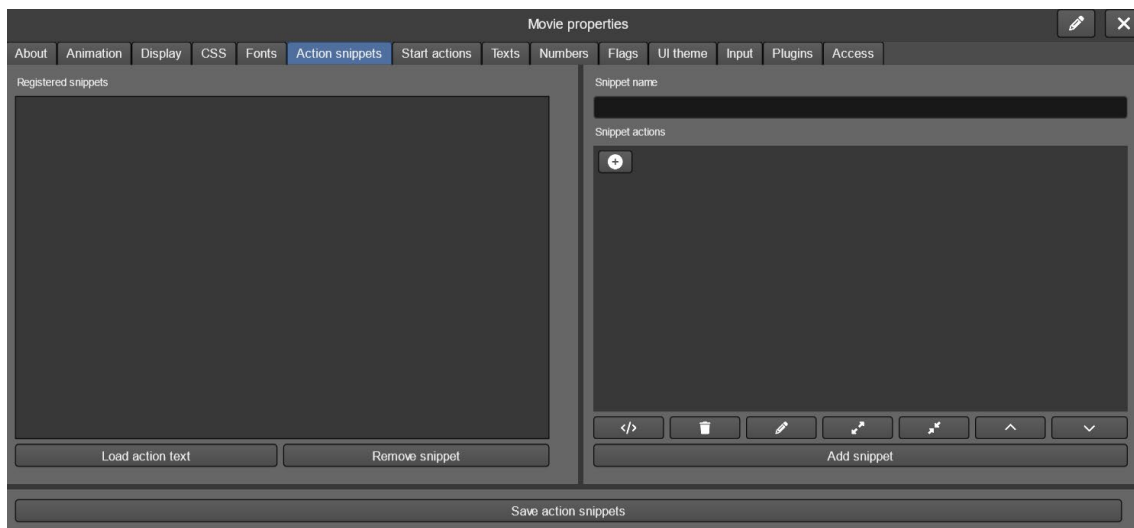


### 1.1.2. Movie load

You can provide actions to run just after your movie is loaded. Look for the *Movie > Properties* right menu and access the *Start actions* tab.

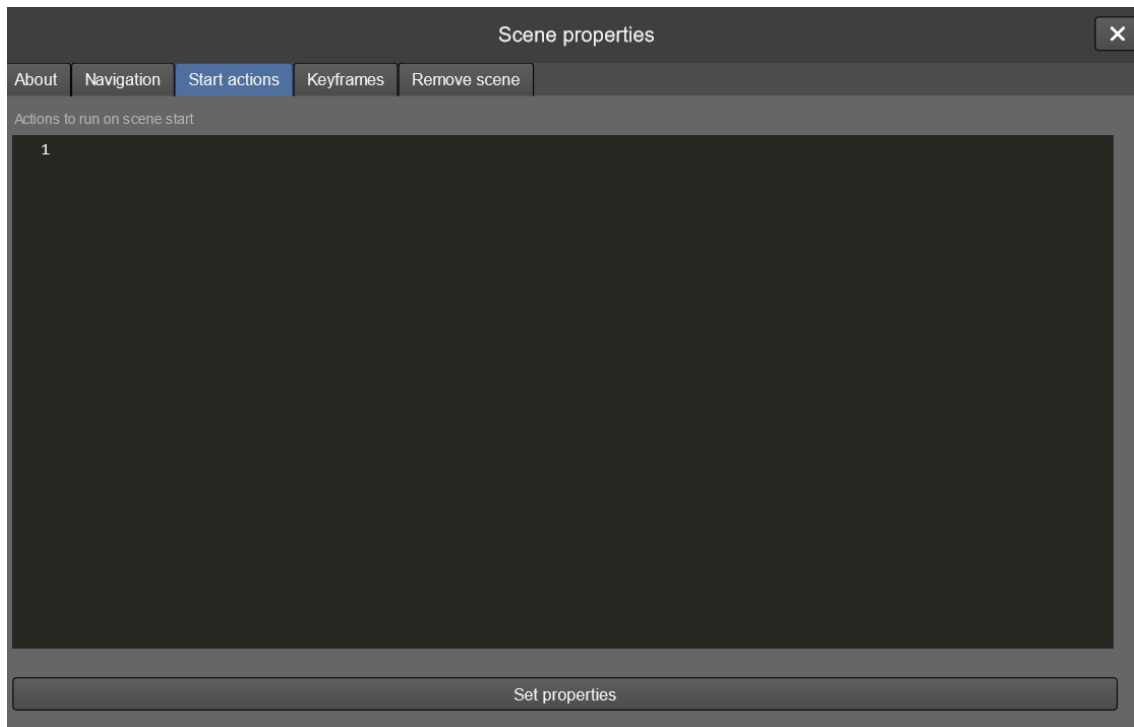


The movie properties window also gives you access to the action snippets. These are groups of actions that can be easily reused on your entire movie by calling the *run* command.



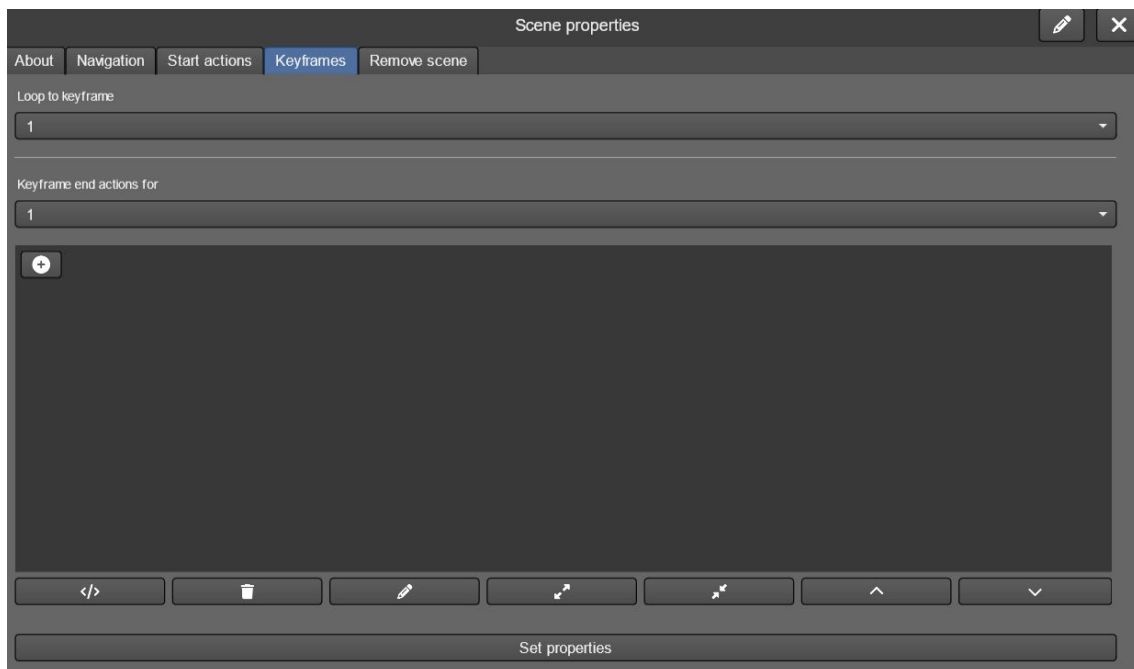
### 1.1.3. Scene start

You can set actions to run when a scene starts playing. Check out the *Start actions* tab from the *Scene > Properties* menu.



### 1.1.4. Keyframe end

Scenes can contain multiple keyframes. You may set actions to run at the end of each of them. You can set these actions either from the *Keyframes* tab of the *Scene > Properties* menu or the *Keyframes > Manage* one.





### 1.1.5. Media playback end

Actions triggered when a media, like a movie, finishes playing.



## 1.2. Variables

You can use variables on TilBuci actions to help design your interactions. Four variable types are available:

- Boolean
- Float
- Integer
- String

There are many actions that set the values for each of these types. The basic ones are *bool.set*, *int.set*, *float.set* and *string.set*. Every time a variable is set you can use it on any action that requires parameters of that type by using the variable name preceded by the appropriate symbol: *?* for Boolean, *#* for integer or float and *\$* for string. Here are some examples:

```
[
  { "ac": "bool.set", "param": [ "boolvar1", "true" ] },
  {
    "ac": "if.bool",
    "param": [ "?boolvar1" ],
    "then": { "ac": "scene.load", "param": [ "tilbuci" ] },
  }
]
```





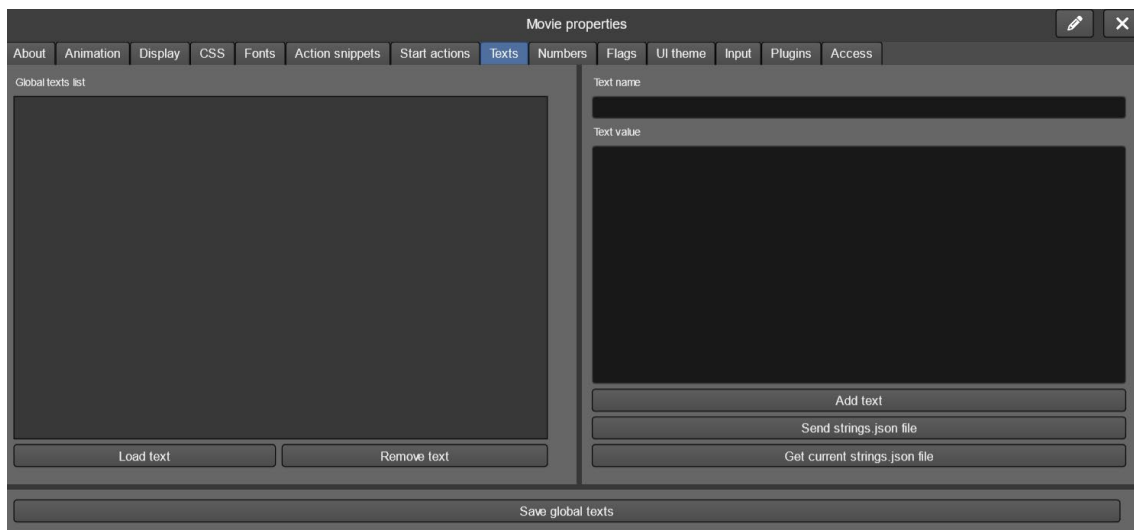
```
        "else": [ ]
    },
    { "ac": "int.set", "param": [ "intvar1", "10" ] },
    {
        "ac": "int.sum",
        "param": [ "intvar2", "#intvar1", "20" ]
    },
    { "ac": "float.set", "param": [ "floatvar1", "10.7" ] },
    { "ac": "float.set", "param": [ "floatvar2", "10.5" ] },
    {
        "ac": "float.min",
        "param": [ "floatvar3", "#floatvar1", "#floatvar2" ]
    },
    { "ac": "string.set", "param": [ "stringvar1", "Til" ] },
    {
        "ac": "string.concat",
        "param": [ "stringvar2", "$stringvar1", "Buci" ]
    }
]
```

When you use the # mark TilBuci will look for a float variable first and, if not found, look for an integer one. Every time a float is used on integer operations it will be rounded.

## 1.3. Globals

Besides the variables you can set on your own, TilBuci comes with several global values you can use on your actions to retrieve all sorts of information from the playback. You can use them just like the variables.

Some of these globals are always available, but you can also set your own per movie. Access the left menu *Movie > Properties* and look for the *Texts*, *Numbers* and *Flags* tabs.





To access these globals you must use `$_TEXTS:`, `#_NUMBERS:` or `?_FLAGS:`, according to the type. `#_NUMBERS:` can be used as both integer and float values – it will be rounded for integers. Place the global name you set after the `:` on your scripts, like this example:

```
{
  "ac": "string.set",
  "param": [ "stringvar1", "$_TEXTS:my global" ]
}
```

Another group of globals that use `:` to retrieve information are the ones about instance properties. Place the instance id after the `:` to retrieve the correct value like:

```
{
  "ac": "int.set",
  "param": [ "intvar1", "#_INSTANCEWIDTH:my instance id" ]
}
```

Besides these values, plugins may also define their own globals that add to the standard ones.

### 1.3.1. Boolean globals

#### General globals

?_PLAYING	Is the movie playing right now?
?_SERVER	Online server connection active?
?_USERLOGGED	Is there an user logged?
?_HADINTERACTION	Has the visitor ever interacted?

#### Instance globals

?_INSTANCEPLAYING	playing content?
?_INSTANCEVISIBLE	instance visible?
?_INSTANCEFONTBOLD	text set to bold?
?_INSTANCEFONTITALIC	text set to italic?

### 1.3.2. Number globals

#### General globals

#_KEYFRAME	Current keyframe number (starts on 0).
#_AREABIG	Movie "big" dimension.
#_AREASMALL	Movie "small" dimension.
#_CONTENTX	Movie display actual X position
#_CONTENTY	Movie display actual Y position
#_CONTENTWIDTH	Movie display actual width
#_CONTENTHEIGHT	Movie display actual height

#### Instance globals

#_INSTANCEX	x position
#_INSTANCEY	y position
#_INSTANCEWIDTH	width
#_INSTANCEHEIGHT	height
#_INSTANCEALPHA	alpha value (0 to 1.0)
#_INSTANCEVOLUME	sound volume



#_INSTANCEORDER	order index (starts on 0)
#_INSTANCECOLORALPHA	color overlay alpha (0 to 1.0)
#_INSTANCEROTATION	rotation (0 to 359, experimental)
#_INSTANCEFONTSIZE	text font size
#_INSTANCEFONTLEADING	text leading

### 1.3.3. Text globals

#### *General globals*

\$_MOVIE_TITLE	Current movie title
\$_MOVIE_ID	Current movie id
\$_SCENE_TITLE	Current scene title
\$_SCENE_ID	Current scene id
\$_ORIENTATION	Player orientation (horizontal or vertical)
\$_RENDER	Current display render mode (webgl or dom)
\$_RUNTIME	The current runtime (see below for details)
\$_URLMOVIE	Url to accesse current movie directly
\$_URLSCENE	Url to access current movie+scene directly
\$_USERNAME	Logged user name (e-mail)
\$_VERSION	Current TilBuci player version
\$_WSSERVER	URL for the current webservice requests
\$_SESSION	Current player session ID
\$_YEAR	Current year as YYYY
\$_MONTH	Current month as MM
\$_DAY	Current day as DD
\$_HOUR	Current hour as HH (24h)
\$_MINUTE	Current minute as MM
\$_SECOND	Current seconds as SS
\$_DATE	Current date as YYYY-MM-DD
\$_TIME	Current time as HH:MM:SS (24h)

The Tilbuci content can be played on different runtimes. If necessary, the `$_RUNTIME` global can be used to find out the current one. The possible returns are:

website	Running from an exported website
pwa	Running as a pwa application
desktop	Running from a desktop application (Windows, Linux or macOS)
mobile	Running from a mobile app (Android or iOS/iPadOS)
publish	Running from a publish service like itch.io
embed	Running form a TilBuci player embed on an OpenFL project
tilbuci	Running from the TilBuci installation (default)

#### *Instance globals*

\$_INSTANCECOLOR	Overlay color (0x##### hex format)
\$_INSTANCETEXT	Current text set to instance
\$_INSTANCEFONT	Text font name
\$_INSTANCEFONTCOLOR	Text font color (0x##### hex format)

### 1.3.4. Input values

You can create input elements using actions. Every input has an unique name that can be used to retrieve its current value, just



inform the given name after the : like "\$\_INPUT:name". The possible values are:

\$_INPUT	text input value
#_NUMERIC	numeric stepper value
?_TOGGLE	toggle input value

### 1.3.5. Form values

While using the form contraption, you can use these values to retrieve the data provided by the visitor using the element name, like *\$\_FORM: name*

All information is retrieved as string, even from numeric or toggle inputs. You can use TilBuci's convert actions if needed.

## 1.4. Strings.json file

Another way to work with strings is the usage of a *strings.json* file. You may upload this file containing pairs of string variable names and values to simplify your creation. At this file, the string variables must be grouped so you can easily change their value from an user interaction (like changing language settings) – you can use any name you want for the groups. A simple *strings.json* file content will look like this:

```
{
  "group1": {
    "string1": "site name: ",
    "string2": "site: "
  },
  "group2": {
    "string1": "nome da página: ",
    "string2": "página: "
  },
}
```

Before using the *strings.json* content you must set the values group with the *string.setgroup* action, like this:

```
[
  { "ac": "string.setgroup", "param": [ "group1" ] },
  {
    "ac": "string.concat",
    "param": [ "stringvar1", "$string1", "TilBuci" ]
  }
]
```



The script above will set the value of *\$stringvar1* to "site name: TilBuci". However, if you set another group, the results are different:

```
[
  { "ac": "string.setgroup", "param": [ "group2" ] },
  {
    "ac": "string.concat",
    "param": [ "stringvar1", "$string1", "TilBuci" ]
  }
]
```

In that case, the *\$stringvar1* value will be "nome da página: TilBuci".

## 1.5. Instance text and replace

When you set a string variable (by using an action or with the *strings.json* file) you can also retrieve its value on instance text. When you create a paragraph image, just use the variable name (and nothing more) instead of directly input the text. It will be automatically replaced by the current value of the variable when it shows up.

### 1.5.1. Content replace at runtime

Besides setting a single variable to an instance, you may also set values to be automatically replaced at runtime in both instance display and action operations. There are two actions to set these replacements.

First, *replace.setstring*: using this action you will set string parts that will always be replaced by something else, on paragraph and html instances and also on usual string operations.

```
[
  { "ac": "replace.setstring", "param": [ "[MAIL]", "$_USERNAME" ] },
  { "ac": "string.set", "param": [ "stringvar1", "my email is [MAIL]" ] }
]
```

If there is an user logged with the e-mail "doggo@tilbuci.com.br", the *\$stringvar1* variable will receive the value "my email is doggo@tlbuci.com.br". Also, if you set an html instance content to a file with "<p>the e-mail address is [MAIL]<p>", it will be shown as "the e-mail address is doggo@tlbuci.com.br" as well.

The second automatic replace you can set affects file names used by audio, html, picture and video instances. If you call *repace.setfile*, every time TilBuci attempts to load a file, it will look for the needle text on the name and replace it. This can be very useful to load different assets based on user language choices. Check out this example: if you are using a picture named "en/title.png" on your



movie, after you call the following action, TilBuci will load "pt/title.png" instead.

```
{ "ac": "replace.setfile", "param": [ "en/", "pt/" ] }
```



## 2. Available actions

Here we present a list of currently available actions on TilBuci (*ac* field at the action object). Please note that plugins may add additional commands to this list. Some of these actions require parameters, but even if none is needed you still must add the *param* field to the object. Additional optional fields can be used on some actions, like *then*, *else*, *ok*, *cancel*, *tick*, *end*, *success* and *error*.

### 2.1. Boolean conditions

Conditional statements based on boolean values.

#### **if.bool**

Checks if the boolean value is true.

params

1. the boolean variable to check

additional optional object fields

- then: actions to run if the result is true
- else: actions to run if the result is false

#### **if.boolset**

Checks if a boolean variable exists.

params

1. the variable name to check

additional optional object fields

- then: actions to run if true
- else: actions to run if false

### 2.2. Boolean values

Management of boolean variables.

#### **bool.clear**

Removes a boolean variable.

params

1. the variable name

#### **bool.clearall**

Removes all boolean variables.

#### **bool.set**

Sets a boolean variable.

params



1. the variable name
2. the variable value

### **bool.setinverse**

Inverts the value of a boolean variable.

params

1. the variable name

## **2.3. Data**

These actions handle user persistent data management. This can be done both locally on the browser storage or remotely using your server. The user must be logged in to access remote data. Logged user can still access local data. TilBuci uses a dark default theme for the load state UI, but you can adjust the colors according to your content at the *UI colors* tab of the *Movie properties* window.

### **data.event**

Registers an event on TilBuci database at the "events" table. You may use events to record visitor interactions and keep track of your movies' access. While the Google Analytics plugin offers a more sophisticated approach, the *data.event* action is easier to use and keeps the data in your own server.

All events must receive a name, and you can add as many information you want providing additional string parameters to the action call. All events are recorded with the current movie, scene and visitor information. Access the Visitor button on the left menu and go to the Event tab to download the recorded information for analysis.

If TilBuci finds an error while sending the event to the server, such as an Internet connection failure, the data is recorded locally and sent together with the next event sending action. TilBuci holds up to 100 unsent events for future sending. When exporting the events spreadsheet from the "Visitors" left menu on TilBuci editor, both the received date/time and the original one are included.

params

1. the event name

### **data.eventclear**

Clears the unsent events pool for the current movie.

### **data.liststates**

Shows the load state window so the user can choose the one to load from the last 3 saved states on server. When loaded, the current





variable values are replaced by the saved ones and the scene playing while the state was saved is loaded. All interface text must be set as text globals at the *Text* tab of the *Movie properties* window – if not set, default English strings are used. The text names you must set to avoid using default values are shown on table below. Global texts can be changed at runtime by using the *string.setglobal* action.

Global	Description	Default value
titlestates	Window title	Select a state to load
waistates	States load wait message	Please wait while a list of available saves states is loaded.
selectstate	Selects state message	Select a state to load.
nostates	No save states found message	Sorry, no saved states found to load.
dateformat	Date/time format string	Y-m-d h:i a (use the PHP format described here: <a href="https://www.php.net/manual/en/datetime.format.php">https://www.php.net/manual/en/datetime.format.php</a> )

additional optional object fields

- success: actions to run after successful data load
- error: actions to run after error on data load

## data.load

Loads custom data saved at the server. The loaded values replaces the variables used on *data.save* action.

params

1. data save name

additional optional object fields

- success: actions to run after successful data load
- error: actions to run after error on data load

## data.loadlocal

Loads custom data saved at the browser storage. The loaded values replaces the variables used on *data.savelocal* action.

params

1. data save name

additional optional object fields

- success: actions to run after successful data load
- error: actions to run after error on data load

## data.loadquickstate

Loads the quick state saved on the server. When loaded, the current variable values are replaced by the saved ones and the scene playing while the state was saved is loaded.

additional optional object fields

- success: actions to run after successful data load
- error: actions to run after error on data load



## data.loadstatelocal

Loads the state saved on browser storage. When loaded, the current variable values are replaced by the saved ones and the scene playing while the state was saved is loaded.

additional optional object fields

- success: actions to run after successful data load
- error: actions to run after error on data load

## data.save

Saves custom data at the server. At least two parameters are required, but you can add as many as you want to be saved under the same name. Each saved value must be the name of an already set variable, preceded by its type, like in the following table.

Variable type	Prefix	Example
boolean	B:	B:boolvar1
float	F:	F:floatvar1
integer	I:	I:intvar1
string	S:	S:stringvar1

params

1. data save name
2. first variable to save

additional optional object fields

- success: actions to run after successful data save
- error: actions to run after error on data save

## data.savelocal

Saves custom data at the browser storage. At least two parameters are required, but you can add as many as you want to be saved under the same name. Each saved value must be the name of an already set variable, preceded by its type, like in the following table.

Variable type	Prefix	Example
boolean	B:	B:boolvar1
float	F:	F:floatvar1
integer	I:	I:intvar1
string	S:	S:stringvar1

params

1. data save name
2. first variable to save

additional optional object fields

- success: actions to run after successful data save
- error: actions to run after error on data save

## data.savequickstate

Quickly saves all current variable values as well the current scene playing on the server. Saving a quick save overrides the previously saved one for current user/movie.



additional optional object fields

- success: actions to run after successful data save
- error: actions to run after error on data save

### **data.savestate**

Saves all current variable values as well the current scene playing on the server. The server holds up to 3 save states for each user on each movie, besides the *quick save*.

params

1. state title (for reference while loading)

additional optional object fields

- success: actions to run after successful data save
- error: actions to run after error on data save

### **data.savestatelocal**

Saves all current variable values as well the current scene playing on the browser storage. The browser can hold only one state per movie.

additional optional object fields

- success: actions to run after successful data save
- error: actions to run after error on data save

## **2.4. Float conditions**

Conditional statements based on float values.

### **if.floatsdifferent**

Checks if the two float values are different.

params

1. first value
2. second value

additional optional object fields

- then: actions to run if the result is true
- else: actions to run if the result is false

### **if.floatsequal**

Checks if the two float values are equal.

params

1. first value
2. second value

additional optional object fields

- then: actions to run if the result is true
- else: actions to run if the result is false

### **if.floatset**

Checks if a float variable exists.

params



1. the variable name to check
- additional optional object fields
- then: actions to run if true
  - else: actions to run if false

## **if.floatgreater**

Checks if the first value is greater than the second one.

params

1. first value
2. second value

additional optional object fields

- then: actions to run if the result is true
- else: actions to run if the result is false

## **if.floatgreaterequal**

Checks if the first value is greater or equal than the second one.

params

1. first value
2. second value

additional optional object fields

- then: actions to run if the result is true
- else: actions to run if the result is false

## **if.floatlower**

Checks if the first value is lower than the second one.

params

1. first value
2. second value

additional optional object fields

- then: actions to run if the result is true
- else: actions to run if the result is false

## **if.floatlowerequal**

Checks if the first value is lower or equal than the second one.

params

1. first value
2. second value

additional optional object fields

- then: actions to run if the result is true
- else: actions to run if the result is false

## **2.5. Float values**

Management of float variables.



### **float.abs**

Returns the absolute value of a float.

params

1. the variable name to receive the result
2. the value

### **float.clear**

Removes a float variable.

params

1. the variable name

### **float.clearall**

Removes all float variables.

### **float.divide**

Divides two or more float values. At least 3 parameters are required but you can provide as many as you want and their values are sequentially divided.

params

1. the variable name to receive the result
2. the first value
3. the second value

### **float.max**

Returns the maximum between two float values.

params

1. the variable name to receive the result
2. the first value
3. the second value

### **float.min**

Returns the minimum between two float values.

params

1. the variable name to receive the result
2. the first value
3. the second value

### **float.multiply**

Multiplies two or more float values. At least 3 parameters are required but you can provide as many as you want and their values are sequentially multiplied.

params

1. the variable name to receive the result



2. the first value
3. the second value

### **float.random**

Generates a random float value.

params

1. the variable name to receive the random value
2. minimum value
3. maximum value

### **float.set**

Sets a float variable.

params

1. the variable name
2. the variable value

### **float.subtract**

Subtracts two or more float values. At least 3 parameters are required but you can provide as many as you want and their values are subtracted from the result.

params

1. the variable name to receive the result
2. the first value
3. the second value

### **float.sum**

Sums two or more float values. At least 3 parameters are required but you can provide as many as you want and their values are added to the result.

params

1. the variable name to receive the result
2. the first value
3. the second value

### **float.toint**

Converts a float value to an int one (rounds).

params

1. the int variable name to receive the result
2. the float value

### **float.tostring**

Converts a float value to a string.

params

1. the string variable name to receive the result
2. the float value



## 2.6. Input

These actions asks for user input to use on the movie. TilBuci uses a dark default theme for input UI, but you can adjust the colors according to your content at the *UI theme* tab of the *Movie properties* window.

Besides the preferred input boxes you may add input elements right into your design using actions. These inputs appear over any graphics on your scene and must also be removed using actions (they do not automatically disappear when a new scene is loaded). The size/place given is relative to your content. These elements also respect the *UI theme* settings of your movie.

### **input.email**

Shows a text input window the checks for a valid e-mail address on confirmation. You may also add buttons to include common e-mail service domains like "@gmail.com" – just add additional string parameters.

params

1. string variable name to get the resulting e-mail address
2. text to display on input window
3. common email service domain, like "@hotmail.com" (optional)

additional optional object fields

- ok: actions to run after user clicks on ok
- cancel: actions to run after user click on cancel

### **input.float**

Shows a dialog window asking for a float input.

params

1. float variable name to get the resulting input
2. text to display on input window
3. numeric stepper step value
4. minimum input value
5. maximum input value

additional optional object fields

- ok: actions to run after user clicks on ok
- cancel: actions to run after user click on cancel

### **input.int**

Shows a dialog window asking for an int input.

params

1. int variable name to get the resulting input
2. text to display on input window
3. numeric stepper step value
4. minimum input value
5. maximum input value

additional optional object fields

---

TilBuci is a free software developed by Lucas Junqueira <[doggo@tilbuci.com.br](mailto:doggo@tilbuci.com.br)>.

Please check out [tilbuci.com.br](https://tilbuci.com.br) for further information.



- ok: actions to run after user clicks on ok
- cancel: actions to run after user click on cancel

## input.list

Presents a list to the user asking for a selection. You must provide at least 4 parameters, but you may add as many as you want – they will be add as additional item options. The returned value is the text of the option selected.

params

4. string variable name to get the resulting input
5. text to display on input window
6. first list option
7. second list option

additional optional object fields

- ok: actions to run after user clicks on ok
- cancel: actions to run after user click on cancel

## input.login

Starts the user login procedure. Login is done by sending a confirmation code to the provided e-mail address. All interface text must be set as text globals at the *Text* tab of the *Movie properties* window – if not set default English strings are used. The text names you must set to avoid using default values are shown on table below. Global texts can be changed at runtime by using the *string.setglobal* action.

Global	Description	Default value
logintitle	Window title	Login
logintext	Window message	Please type your e-mail address. You'll receive a 6 digit code to confirm your identity.
termsagree	Terms agree message	I agree with the above terms.
invalidemail	Invalid email address input	Please provide a valid e-mail address.
emailwait	Processing message	Please wait while a confirmation code is sent to your e-mail.
noemailsent	Send email error message	Error while sending the code by e-mail. Please try again.
checkforcode	Code check instructions	Please check out your e-mail inbox. Type below the 6 digit code you received. If you do not find the message, take a look at you spam folder.
codewait	Code check processing	Please wait while the provided code is checked.
invalidcode	Invalid code message	The provided code is invalid. Please try again.
emailsubject	E-mail message subject	TilBuci login
emailbody	E-mail message body	Hi, you are receiving this message to confirm your login at TilBuci. Please provide the code below to proceed:\r\n\r\n[CODE]\r\n\r\nIf you didn't request this code, don't worry: just ignore this message.
emailsender	E-mail sender name	TilBuci





additional optional object fields

- ok: actions to run after user clicks on ok
- cancel: actions to run after user click on cancel

### **input.message**

Shows a message to the user asking for confirmation. If no cancel action is set, the window will only show the ok button.

params

1. window title
2. window text

additional optional object fields

- ok: actions to run after user clicks on ok
- cancel: actions to run after user click on cancel

### **input.string**

Shows a dialog window asking for a string input.

params

1. string variable name to get the resulting input
2. text to display on input window

additional optional object fields

- ok: actions to run after user clicks on ok
- cancel: actions to run after user click on cancel

### **input.add**

Adds a text input element into your screen.

params

1. the input name
2. the x position
3. the y position
4. the width (height is automatically set from the font size of UI theme)
5. (optional) placeholder to show when no text is set

### **input.place**

Sets a text input placement.

params

1. the input name
2. the x position
3. the y position
4. the width (height is automatically set from the font size of UI theme)

### **input.remove**

Removes a text input from screen.

params

1. the input name



### **input.removeall**

Removes all text inputs from screen.

### **input.settext**

Sets the text of a text input element.

params

1. the input name
2. the new text

### **input.setpassword**

Sets a text input password mask display

params

1. the input name
2. show as password? (true/false)

### **input.addnumeric**

Adds a numeric stepper input element into your screen.

params

1. the input name
2. the initial value
3. the minimum value
4. the maximum value
5. the increase/decrease step

### **input.placenumeric**

Sets a numeric stepper input placement.

params

1. the input name
2. the x position
3. the y position
4. the width (height is automatically set from the font size of UI theme)

### **input.removenumeric**

Removes a numeric stepper input from screen.

params

1. the input name

### **input.removeallnumerics**

Removes all numeric stepper inputs from screen.

### **input.setnumeric**

Sets the value of a numeric stepper input element.

params

1. the input name



2. the new value

## **input.setnumericbounds**

Sets a numeric stepper bounds.

params

1. the input name
2. minimum value
3. maximum value
4. increase/decrease step

## **input.addtoggle**

Adds a toggle stepper input element into your screen.

params

1. the input name
2. toggle selected?
3. X position
4. Y position

## **input.placetoggle**

Sets a toggle input placement.

params

1. the input name
2. the x position
3. the y position

## **input.removetoggle**

Removes a toggle input from screen.

params

1. the input name

## **input.removealltoggles**

Removes all toggle inputs from screen.

## **input.settoggle**

Sets the value of a toggle input element.

params

1. the input name
2. the new value

## **input.inverttoggle**

Inverts a toggle input value.

params

1. the input name



## 2.7. Instance

### **instance.clearall**

Clears any previously set value (instance returns to design setting).

param

1. instance id

### **instance.clearalpha**

Clears previously set alpha value (instance returns to design setting).

param

1. instance id

### **instance.clearcolor**

Clears previously set color overlay value (instance returns to design setting).

param

1. instance id

### **instance.clearcoloralpha**

Clears previously set overlay alpha value (instance returns to design setting).

param

1. instance id

### **instance.clearfont**

Clears previously set font face name value (instance returns to design setting).

param

1. instance id

### **instance.clearfontalign**

Clears previously set text align value (instance returns to design setting).

param

1. instance id

### **instance.clearfontbackground**

Clears previously set font background value (instance returns to design setting).

param

1. instance id



### **instance.clearfontbold**

Clears previously set font bold state value (instance returns to design setting).

param  
1. instance id

### **instance.clearfontcolor**

Clears previously set font color value (instance returns to design setting).

param  
1. instance id

### **instance.clearfontitalic**

Clears previously set font italic state value (instance returns to design setting).

param  
1. instance id

### **instance.clearfontleading**

Clears previously set font leading value (instance returns to design setting).

param  
1. instance id

### **instance.clearfontsize**

Clears previously set font size value (instance returns to design setting).

param  
1. instance id

### **instance.clearheight**

Clears previously set height value (instance returns to design setting).

param  
1. instance id

### **instance.clearorder**

Clears previously set order value (instance returns to design setting).

param  
1. instance id



### **instance.clearrotation**

Clears previously set rotation value (instance returns to design setting - experimental).

param  
1. instance id

### **instance.clearvisible**

Clears previously set visible state (instance returns to design setting).

param  
1. instance id

### **instance.clearvolume**

Clears previously set sound volume value (instance returns to design setting).

param  
1. instance id

### **instance.clearwidth**

Clears previously set width value (instance returns to design setting).

param  
1. instance id

### **instance.clearx**

Clears previously set x value (instance returns to design setting).

param  
1. instance id

### **instance.cleary**

Clears previously set y value (instance returns to design setting).

param  
1. instance id

### **instance.loadasset**

Loads a collection asset into the instance.

param  
1. instance id  
2. new asset id to load

### **instance.next**

Load the next collection item on instance.

param  
1. instance id



### **instance.pause**

Pauses an instance content.

param

1. instance id

### **instance.play**

Plays an instance content.

param

1. instance id

### **instance.playpause**

Plays an instance content if it is paused, pauses it otherwise.

param

1. instance id

### **instance.previous**

Load the previous collection item on instance.

param

1. instance id

### **instance.scrollbottom**

Scrolls text to bottom.

param

1. instance id

### **instance.scrolldown**

Scrolls text down.

param

1. instance id

### **instance.scrolltop**

Scrolls text to top.

param

1. instance id

### **instance.scrollup**

Scrolls text up.

param

1. instance id

### **instance.seek**

Jumps an instance to a time position (integer, seconds).



param

1. instance id
2. time position

### **instance.setalpha**

Changes the instance alpha level (0 to 1.0).

param

1. instance id
2. new value for horizontal display
3. new value for vertical display (optional)

### **instance.setcolor**

Changes the instance overlay color (0x##### hex format).

param

1. instance id
2. new value for horizontal display
3. new value for vertical display (optional)

### **instance.setcoloralpha**

Changes the instance color overlay alpha level (0 to 1.0).

param

1. instance id
2. new value for horizontal display
3. new value for vertical display (optional)

### **instance.setfont**

Changes the instance font face name.

param

1. instance id
2. new value for horizontal display
3. new value for vertical display (optional)

### **instance.setfontalign**

Changes the instance alignment (*left*, *right*, *center* or *justify*).

param

1. instance id
2. new value for horizontal display
3. new value for vertical display (optional)

### **instance.setfontbackground**

Changes the instance font background color (0x##### hex format, empty string for none).

param

1. instance id
2. new value for horizontal display
3. new value for vertical display (optional)





### **instance.setfontbold**

Changes the instance font to bold (boolean).

param

1. instance id
2. new value for horizontal display
3. new value for vertical display (optional)

### **instance.setfontcolor**

Changes the instance text font color (0x##### hex format).

param

1. instance id
2. new value for horizontal display
3. new value for vertical display (optional)

### **instance.setfontitalic**

Changes the instance font to italic (boolean).

param

1. instance id
2. new value for horizontal display
3. new value for vertical display (optional)

### **instance.setfontleading**

Changes the instance font leading space (integer).

param

1. instance id
2. new value for horizontal display
3. new value for vertical display (optional)

### **instance.setfontsize**

Changes the instance text font size (int value).

param

1. instance id
2. new value for horizontal display
3. new value for vertical display (optional)

### **instance.setheight**

Changes the instance height size (numeric).

param

1. instance id
2. new value for horizontal display
3. new value for vertical display (optional)

### **instance.setorder**

Changes the instance order on display list (int value).



param

1. instance id
2. new value for horizontal display
3. new value for vertical display (optional)

### **instance.setparagraph**

Sets a paragraph instance content.

param

1. instance id
2. new text

### **instance.setrotation**

Changes the instance rotation (experimental).

param

1. instance id
2. new value for horizontal display
3. new value for vertical display (optional)

### **instance.setvisible**

Changes the instance visible state (boolean).

param

1. instance id
2. new value for horizontal display
3. new value for vertical display (optional)

### **instance.setvolume**

Changes the instance sound volume (0 to 1.0).

param

1. instance id
2. new value for horizontal display
3. new value for vertical display (optional)

### **instance.setwidth**

Changes the instance width size (numeric).

param

1. instance id
2. new value for horizontal display
3. new value for vertical display (optional)

### **instance.setx**

Changes the instance x position (numeric).

param

1. instance id
2. new value for horizontal display
3. new value for vertical display (optional)



### **instance.sety**

Changes the instance y position (numeric).

param

1. instance id
2. new value for horizontal display
3. new value for vertical display (optional)

### **instance.stop**

Stops an instance playback.

param

1. instance id

### **instance.zoom**

Enlarges the instance content to cover the stage. Works on picture and video content. The enlarged content will be hidden on user click.

param

1. instance id

## **2.8. Integer conditions**

Conditional statements based on integer values.

### **if.intsdifferent**

Checks if the two int values are different.

params

1. first value
2. second value

additional optional object fields

- then: actions to run if the result is true
- else: actions to run if the result is false

### **if.intsequal**

Checks if the two int values are equal.

params

1. first value
2. second value

additional optional object fields

- then: actions to run if the result is true
- else: actions to run if the result is false

### **if.intset**

Checks if an int variable exists.

params

1. the variable name to check



additional optional object fields

- then: actions to run if true
- else: actions to run if false

## **if.intgreater**

Checks if the first value is greater than the second one.

params

1. first value
2. second value

additional optional object fields

- then: actions to run if the result is true
- else: actions to run if the result is false

## **if.intgreaterequal**

Checks if the first value is greater or equal than the second one.

params

1. first value
2. second value

additional optional object fields

- then: actions to run if the result is true
- else: actions to run if the result is false

## **if.intlower**

Checks if the first value is lower than the second one.

params

1. first value
2. second value

additional optional object fields

- then: actions to run if the result is true
- else: actions to run if the result is false

## **if.intlowerequal**

Checks if the first value is lower or equal than the second one.

params

1. first value
2. second value

additional optional object fields

- then: actions to run if the result is true
- else: actions to run if the result is false

## **2.9. Integer values**

Management of integer variables.

### **int.abs**

Returns the absolute value of an int.



params

1. the variable name to receive the result
2. the value

## **int.clear**

Removes an int variable.

params

1. the variable name

## **int.clearall**

Removes all int variables.

## **int.divide**

Divides two or more int values. At least 3 parameters are required but you can provide as many as you want and their values are sequentially divided.

params

1. the variable name to receive the result
2. the first value
3. the second value

## **int.max**

Returns the maximum between two int values.

params

1. the variable name to receive the result
2. the first value
3. the second value

## **int.min**

Returns the minimum between two int values.

params

1. the variable name to receive the result
2. the first value
3. the second value

## **int.multiply**

Multiplies two or more int values. At least 3 parameters are required but you can provide as many as you want and their values are values are sequentially multiplied.

params

1. the variable name to receive the result
2. the first value
3. the second value



### **int.random**

Generates a random int value.

params

1. the variable name to receive the random value
2. minimum value
3. maximum value

### **int.set**

Sets an int variable.

params

1. the variable name
2. the variable value

### **int.subtract**

Subtracts two or more int values. At least 3 parameters are required but you can provide as many as you want and their values are subtracted from the result.

params

1. the variable name to receive the result
2. the first value
3. the second value

### **int.sum**

Sums two or more int values. At least 3 parameters are required but you can provide as many as you want and their values are added to the result.

params

1. the variable name to receive the result
2. the first value
3. the second value

### **int.tofloat**

Converts an int value to a float one.

params

1. the float variable name to receive the result
2. the int value

### **int.tostring**

Converts an int value to a string.

params

1. the string variable name to receive the result
2. the int value



## 2.10. Movie

### **movie.load**

Loads a new movie into player.

params

1. new movie id

## 2.11. Replace

Use these actions to set automatic replaced both in string processing and file naming.

### **replace.clearfile**

Removes a file replacement.

params

1. the needle (text to search) to remove

### **replace.clearstring**

Removes a string replacement.

params

1. the needle (text to search) to remove

### **replace.clearallfiles**

Clears all file replacement needles.

### **replace.clearallstrings**

Clears all string replacement needles.

### **replace.origin**

Replaces the current movie images origin set while loading scenes/keyframes. Possible values are "alpha", "center", "top", "topkeep", "bottom", "bottomkeep", "left", "leftkeep", "right" and "rightkeep".

params

1. the new origin

### **replace.setfile**

Sets a needle that will replace of its occurrences on loaded file names.

params

1. the needle (text to search)
2. the string to replace the needle on file names



### **replace.setstring**

Sets a needle that will replace of its occurrences by the value given in both string processing and text display.

params

1. the needle (text to search)
2. the string to replace the needle

### **if.replacefileset**

Checks if a file replacement exists.

params

1. the replacement name to check

additional optional object fields

- then: actions to run if true
- else: actions to run if false

### **if.replacestringset**

Checks if a string replacement exists.

params

1. the replacement name to check

additional optional object fields

- then: actions to run if true
- else: actions to run if false

## **2.12. Scene**

### **scene.load**

Loads a new scene.

params

1. new scene id

### **scene.navigate**

Loads the scene set at the navigation settings of the current one.

params

1. the navigation direction: *up*, *down*, *left*, *right*, *nin* or *nout*

### **scene.pause**

Pauses the current scene playback.

### **scene.play**

Plays the current scene.





### **scene.playpause**

Plays a stopped scene or pauses a playing one.

### **scene.nextkeyframe**

Loads the next keyframe of a paused scene.

### **scene.previouskeyframe**

Loads the previous keyframe of a paused scene.

### **scene.loadfirstkeyframe**

Loads the first keyframe of a paused scene.

### **scene.loadlastkeyframe**

Loads the last keyframe of a paused scene.

### **scene.loadkeyframe**

Loads a keyframe from a paused scene.

params

1. the keyframe number to load (keyframe numbers start at 1)

## **2.13. Snippets**

Action snippets can be defined at the *Action snippets* tab of the *Movie properties* window.

### **run**

Runs a named action (set at *Movie > Properties* window).

params

1. action snippet name

## **2.14. String conditions**

Conditional statements based on string values.

### **if.stringcontains**

Checks if the first string contains the second one.

params

1. first string to compare
2. second string to compare

additional optional object fields

- then: actions to run if the string contains the other one
- else: actions to run if the string does not contain the other one



### **if.stringendswith**

Checks if the first string ends with the second one.

params

1. first string to compare
2. second string to compare

additional optional object fields

- then: actions to run if the string ends with the other one
- else: actions to run if the string does not end with the other one

### **if.stringsdifferent**

Checks if two strings are different.

params

1. first string to compare
2. second string to compare

additional optional object fields

- then: actions to run if the strings are different
- else: actions to run if the strings are equal

### **if.stringsequal**

Checks if two strings are equal.

params

1. first string to compare
2. second string to compare

additional optional object fields

- then: actions to run if the strings are equal
- else: actions to run if the strings are different

### **if.stringset**

Checks if a string variable exists.

params

1. the variable name to check

additional optional object fields

- then: actions to run if true
- else: actions to run if false

### **if.stringstartswith**

Checks if the first string starts with the second one.

params

1. first string to compare
2. second string to compare

additional optional object fields

- then: actions to run if the string starts with the other one
- else: actions to run if the string does not start with the other one

### **if.stringemail**

Checks if the strig is a valid e-mail address.



params

1. the address to check
- additional optional object fields
- then: actions to run if the string is a valid email
  - else: actions to run if the string isn't a valid email

## 2.15. String values

Management of string variables.

### **string.clear**

Removes a string variable.

params

1. the variable name

### **string.clearall**

Removes all string variables.

### **string.clearglobal**

Clears a text global.

params

1. the global name

### **string.concat**

Concatenates two or more strings. Three parameters are required. Each additional one will be concatenated at the string end. You can use any type of variable (string, int, float or bool) – the value will be automatically converted to string.

params

1. the variable name to receive the concatenated one
2. the first string to concatenate
3. the second string to concatenate

### **string.replace**

Replaces all occurrences of the needle string by the given one at the provided text.

params

1. the variable name to receive the replace result
2. the original string
3. the needle (string to look for)
4. the replacement text

### **string.set**

Sets a string variable.

params



2. the variable name
3. the variable value

### **string.setglobal**

Sets a text global.

params

1. the global name
2. the global value

### **string.setgroup**

Sets a group of the *strings.json* file to look for string variable values.

params

1. the group name

### **string.tofloat**

Converts a string value to a float one.

params

1. the float variable name to receive the result
2. the string to convert

### **string.toint**

Converts a string value to an integer one.

params

1. the integer variable name to receive the result
2. the string to convert

## **2.16. System**

### **system.copytext**

Copies a string into the user clipboard.

params

1. the string to copy

### **system.fullscreen**

Shows the content at fullscreen or brings back the display to normal state. Please note that you must trigger this action only on an user interaction. It won't work on movie/scene/keyframe actions due to browser policies. No parameters are required.

### **system.visitoringroup**

Checks if the current logged visitor is part of a give group. If no visitor is currently logged, always return false.

params



1. the group name to check (case sensitive)
- additional optional object fields
- then: actions to run if the visitor belongs to the provided group
  - else: actions to run if the visitor is not in the group or if no visitor is logged at all

## **system.logout**

Logs out the current user.

## **system.openembed**

Opens an overlay with a previously embedded HTML5 content (access Media > Embed on the left menu to send the HTML5 content to embed).

params

1. the embed name used when sending the content

Embed content can exchange information with the host movie using javascript methods. Since the embed content is displayed using an iframe, all methods must be called from "parent".

parent.tilbuci_getstring(\$name)	gets the current value of the \$name variable (empty string if it is not set)
parent.tilbuci_setstring(\$name, \$value)	sets the value of the string variable \$name
parent.tilbuci_getfloat(\$name)	gets the current value of the \$name variable (0 if it is not set)
parent.tilbuci_setfloat(\$name, #value)	sets the value of the float variable \$name
parent.tilbuci_getint(\$name)	gets the current value of the \$name variable (0 if it is not set)
parent.tilbuci_setint(\$name, #value)	sets the value of the integer variable \$name
parent.tilbuci_getbool(\$name)	gets the current value of the \$name variable (false if it is not set)
parent.tilbuci_setbool(\$name, ?value)	sets the value of the boolean variable \$name
parent.tilbuci_runaction(\$action)	runs any json-formatted action on movie

## **system.closeembed**

Closes the HTML5 embed content display.

## **system.embedreset**

Resets the HTML5 embed display site and position so it appears covering all display area.

## **system.embedplace**

Sets the position and size of the HTML5 embed content area. The placement values are absolute, considering the entire stage, not only your movie display area. Because of that, the #\_CONTENTX, #\_CONTENTY, #\_CONTENTWIDTH and #\_CONTENTHEIGHT values can be useful to help figuring out the desired values.

params

1. x position



2. y position
3. width
4. height

### **system.openurl**

Opens an URL on user browser.

params

1. the UL to open

### **system.quit**

While running as a desktop application, this action ends the app execution, closing its window.

### **system.sendevent**

Sends a custom event (TilBuciEvent.EVENT) to everyone listening to the player object. The event info field will be filled with any string parameters you add to this action.

### **system.setkftime**

Sets the time between keyframes in milliseconds. Values lower than 250 will be ignored.

params

1. the new time between keyframes in milliseconds

### **system.pwainstall**

If running from the PWA runtime, will prompt the user for the PWA installation.

### **system.ifhorizontal**

Checks if the current display orientation is horizontal.

additional optional object fields

- then: actions to run if true
- else: actions to run if false

### **system.ifvertical**

Checks if the current display orientation is vertical.

additional optional object fields

- then: actions to run if true
- else: actions to run if false

### **system.ifwebsite**

Checks if running from the website export runtime.

additional optional object fields

- then: actions to run if true



- else: actions to run if false

### **system.ifpwa**

Checks if running from the PWA export runtime.

additional optional object fields

- then: actions to run if true
- else: actions to run if false

### **system.ifpwainstalled**

Checks if running from an installed PWA.

additional optional object fields

- then: actions to run if true
- else: actions to run if false

### **system.ifdesktop**

Checks if running from the desktop app export runtime.

additional optional object fields

- then: actions to run if true
- else: actions to run if false

### **system.ifmobile**

Checks if running from the mobile app export runtime.

additional optional object fields

- then: actions to run if true
- else: actions to run if false

### **system.ifpublish**

Checks if running from the publish services export runtime.

additional optional object fields

- then: actions to run if true
- else: actions to run if false

### **system.ifplayer**

Checks if running from the standard TilBuci player.

additional optional object fields

- then: actions to run if true
- else: actions to run if false

## **2.17. Text**

Text actions adjust the css styles used on html instances. You can provide a default css stylesheet at the *CSS* tab of the *Movie properties* window.



### **css.clear**

Clears current css styles.

### **css.set**

Sets css styles.

params

1. css styles text

## **2.18. Timer**

Timers allow you to run actions in intervals and after some time.

### **timer.clear**

Stops and clears a timer.

params

1. the timer name to clear

### **timer.clearall**

Stops and clears all set timers.

### **timer.set**

Sets a timer with a given interval in milliseconds and a number of iterations.

params

1. timer name
2. interval among timer ticks in milliseconds (minimum of 250)
3. number of iterations

additional optional object fields

- tick: actions to run after every tick
- end: actions to run on timer end





## 3. Plugin actions

Plugins may add actions and conditions to TilBuci. The software comes with some of them already available. Here are the actions they provide.

### 3.1. Debug plugin

This plugin is intended to be used during your content development. It is recommended to turn it off in movies already available to the public.

#### **trace**

This command will display a text on the browser's console. You can use it to show anything. It requires one parameter, but you may add as many as you want – all of them will be displayed at the console.

params

1. content to display on browser's console

params

#### **trace.bools**

Displays all current boolean variables as their values at the browser console.

#### **trace.ints**

Displays all current integer variables as their values at the browser console.

#### **trace.floats**

Displays all current float variables as their values at the browser console.

#### **trace.strings**

Displays all current string variables as their values at the browser console.

#### **debuginfo.hide**

Hides the debug info window if it is being displayed (F8 on keyboard).

#### **debuginfo.show**

Shows the debug info window over your content with many . You may also press F8 on the keyboard to show this window.



## 3.2. Share

This plugin provides actions to open a browser tab ready for the user to share a content from your movies. They don't require any parameters – the movie url and title are automatically add to the share call – but you may add a boolean one set to true to force the share url to point to the movie index instead of the current scene, even if the share mode on movie properties is set to scene.

**share.facebook**

**share.linkedin**

**share.pinterest**

**share.reddit**

**share.x**

## 3.3. Google Analytics

This plugin enables measurement of user activities while checking out your content. It must be configured with the *Measurement ID* before use. Movie and scene load operations are automatically registered as events on the Analytics platform, but you may also create your custom events.

When a movie is loaded, a new campaign is automatically set on Analytics with these parameters:

- id: the movie ID
- name: the movie name
- source: your TilBuci base installation domain

Automatic movie load events set these parameters:

- movie\_id: the loaded movie ID
- movie\_name: the loaded movie title

Automatic scene load events hold these parameters:

- movie\_id: the current movie ID
- movie\_name: the current movie title
- scene\_id: the loaded scene ID
- scene\_name: the loaded scene title

### **analytics.event**

Registers a custom event at the Google platform. You must provide the event name and its description.



The recorded event will set these parameters:

- movie\_id: the current movie ID
- movie\_name: the current movie title
- scene\_id: the current scene ID
- scene\_name: the current scene title
- about: the provided description

params

1. event name
2. event description

## 3.4. Server Call

This plugin is aimed at operations that must run at your TilBuci installation server.

### call.process

Calls a server script to process and return data to TilBuci. The script can even be loaded from another domain, but it must always return a JSON text considering the format below.

This is a versatile function. It can be used to collect data from other internet sources, process data collected while viewing your content, and even create communication systems like your own user management and data storage.

The function requires at least two string parameters but you may add as many as you want. When called, it will make a POST request to the URL of the first parameter with the following values:

value	content
movieid	Current movie ID
sceneid	Current scene ID
movietitle	Current movie title
scenetitle	Current scene title
visitor	Current visitor e-mail or "system" if none is logged in
data	A JSON-encoded array with all string parameters set, in order, except the script url

Your script must process the information and return a JSON encoded object with values that will be loaded into TilBuci variables when received. The JSON object can contain as many variables as you want to return, described as:

```
"name": { "t":"the variable type", "v":"the value" }
```

Possible types are "B" (boolean), "I" (integer), "F" (float) and "S" (string). A return example that sets four variables:

```
{
```



```
"mystring":{"t":"S","v":"the string value"},
"myfloat":{"t":"F","v":100.101},
"myint":{"t":"I","v":10},
"mybool":{"t":"B","v":true}
}
```

You may provide the "success" and "error" optional object fields to run after a successful or failure call.

params

1. the url to call
2. string parameter to send for processing

additional optional object fields

- success: actions to run on successful call
- error: actions to run on call failure

### call.sdprocess

This action is like the previous one, but the URL to call must always be hosted at the same domain as your TilBuci movie is loaded from. Everything else works just like call.process. Because of the same domain URL limitation, you can still use this action to access server data on exported websites or PWA applications, unlike the other Server Call plugin actions.

### call.url

Calls any URL from the server. By transferring the request to the server, TilBuci avoids browser "CORS" limitations. You may provide a string variable name to receive the return on a successful request. You may provide the "success" and "error" optional object fields to run after a successful or failure call.

params

1. the url to call
2. optional string variable name to receive the result

additional optional object fields

- success: actions to run on successful call
- error: actions to run on call failure

## 3.5. Overlay

This plugin can load an external content and display it above your TilBuci movie. You can even exchange data between them.

### overlay.show

Loads an external content on an overlay frame above your movie.

params

1. the url to load
2. title to display above the overlay content (may be an empty string)
3. optional bool value to send additional information as get parameters



additional optional object fields

- success: actions to run after the overlay is successfully displayed and closed
- error: actions to run on overlay error

The overlay is a powerful feature to enhance your TilBuci creation. It can be anything loaded as a web page, from a simple page to a detailed form or a complex game.

The first parameter is the url of the overlay content. You can set it to an address on your domain (recommended) or event to other sites. TilBuci will automatically assign a unique key to every overlay call. This key will be sent as a get "key" parameter add to your url, like:

<https://tilbuci.com.br/myoverlaycontent/?key=uniquekey>

This key is very important: you can use it to exchange data between your movie and the overlay.

The second parameter is a title that will appear above the overlay content. If you do not want a title, just use a blank string.

The third parameter is optional. You can add as many additional parameters as you want to send to your overlay. If the third parameter is set to "true", this extra information will be included as get values on your url. Check out this example:

```
{
  "ac": "overlay.show",
  "param": [
    "https://tilbuci.com.br/myoverlaycontent/",
    "My overlay title",
    "true",
    "param4",
    "param5"
  ]
}
```

Will open an overlay calling this address:

<https://tilbuci.com.br/myoverlaycontent/?key=uniquekey&v1=param4&v2=param5>

Since there are limitations regarding the size of get requests, use this with caution. The "key" value is always sent.

Even if you do not add the additional information as get values, your overlay can still retrieve it by calling the TilBuci webservice interface. To do so, you must call the "ws" route of your TilBuci installation with a POST request, like <https://tilbuci.com.br/ws/>, with the following values:

POST parameter	Value
a	Overlay/GetKeyData
k	The overlay key you received



s	A signature made of MD5(secret key + overlay key)
---	---

You must set a secret key at your TilBuci overlay plugin configuration. This secret key, add to the unique key of your overlay and encoded as a MD5 string must always be sent as the "s" signature parameter to validate your request.

The response you receive will always be a JSON-formatted string. To evaluate it, you must first look for the "e" (error) value. If the error is "0", your request was successful, and you may proceed parsing the "data" value. You'll receive it as a JSON-encoded object with name/value pairs with the same names you'd receive as get values.

You can also use this webservice request to send data back to the TilBuci movie. This data will be loaded into variables when the overlay is closed. Here are the required POST parameters:

POST parameter	Value
a	Overlay/SetKeyData
k	The overlay key you received
s	A signature made of MD5(secret key + overlay key)
d	The data to send as a JSON-encoded string

The "d" parameter is a JSON-encoded string describing the variables to set on your TilBuci movie. It can contain as many variables as you want to return, described as:

```
"name": { "t":"the variable type", "v":"the value" }
```

Possible types are "B" (boolean), "I" (integer), "F" (float) and "S" (string). A return example that sets four variables:

```
{
  "mystring":{"t":"S","v":"the string value"},
  "myfloat":{"t":"F","v":100.101},
  "myint":{"t":"I","v":10},
  "mybool":{"t":"B","v":true}
}
```

If you call this webservice more than once, new values will replace the previous ones. The TilBuci movie will only receive this information when the overlay is closed. This happens when the visitor clicks at the close button that will always appear above your overlay. You may also call this javascript function from your content to force it to close but notice that if the url of the overlay request is not at the same domain of your TilBuci installation, the browser may block this call.

```
parent.overlay_close();
```



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The *overlay.show* action supports the *success* and *error* additional optional object fields. Error actions are run on any problem regarding the overlay display, while the success ones will run after the overlay is closed and the return variables are set.

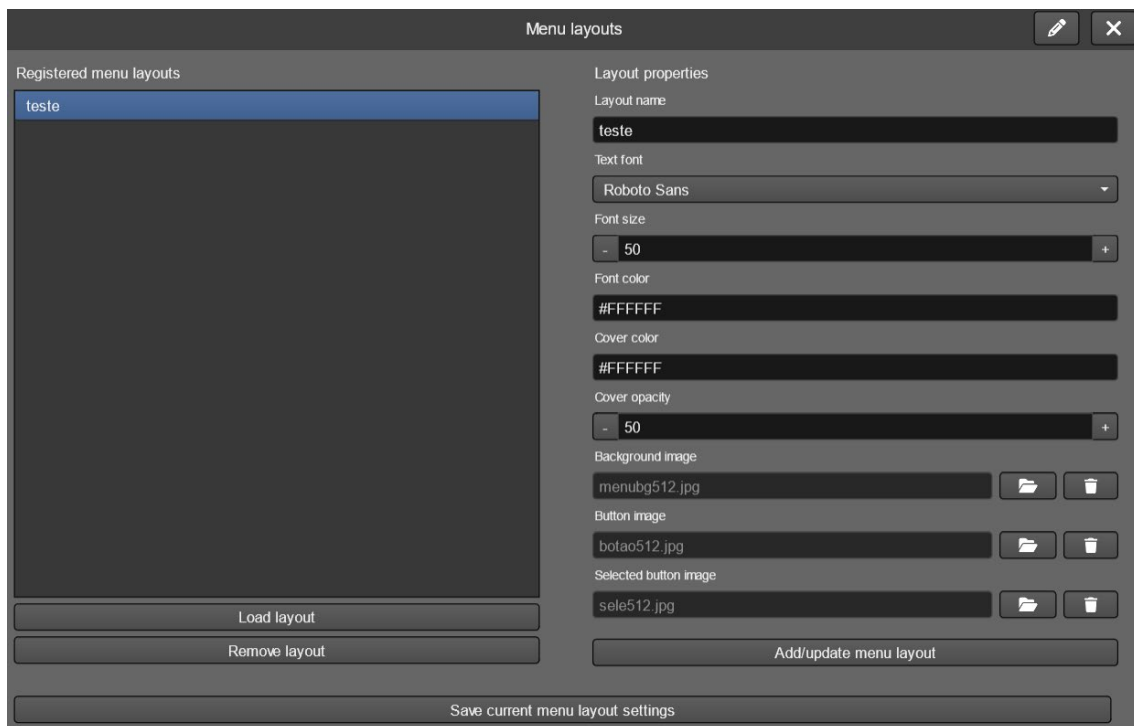


## 4. Contraptions

Contraptions are ways to simplify creation by grouping together tools that help you develop your content more quickly. They can include both settings found in the left menu and specific actions.

### 4.1. Menu

The menu contraption is a quick way to create menus and display them in your scenes. The process starts with creating layouts from the left menu. To do this, you need to provide some information such as the name of the font to be used and the images for both the background and the menu buttons. Once the layouts are created, they can be used in the *contraption.menu* action to start displaying them at any time.



### **contraption.menu**

This command allows you to display a menu from a previously defined layout. It receives 6 parameters. When a button is clicked, its number is stored at the provided int variable (first button value is 0, second is 1 and so on). After setting the value, the actions set at "select" are run. The menu won't automatically disappear after a button is clicked – you'll need to add the *contraption.menuhide* when you want to remove it.





params

1. the layout name
2. the menu option texts (all of them, split by ; )
3. integer variable name to receive the click result
4. placement (top, topleft, topright, center, centerleft, centerright, bottom, bottomleft, bottomright, absolute)
5. x distance from border (or position for absolute placement)
6. y distance from border (or position for absolute placement)

additional optional object fields

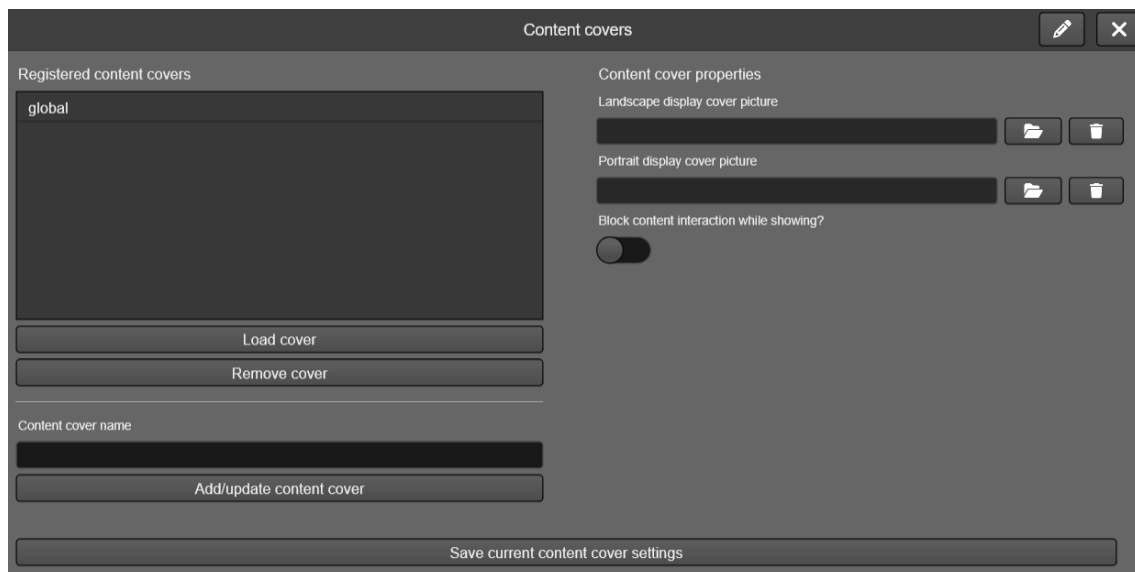
- select: actions to run on a menu button selection

## **contraption.menuhide**

Hides any menu currently displayed. No parameters needed.

## **4.2. Cover**

The cover contraption is a simple way to create an image layer on top of your content, easy to display at any time. To do this, covers must be configured in the left menu contraptions > content cover.



When configuring, in addition to giving a name, you must indicate at least one picture that will be used to cover the entire movie area. You can also define one image for horizontal display and one for vertical display. Finally, you can also indicate whether the cover will block click/touch interactions with the content below.

## **contraption.cover**

This action will cause a defined cover to be displayed. If there is already a cover displayed, it will be replaced with the indicated one.



params

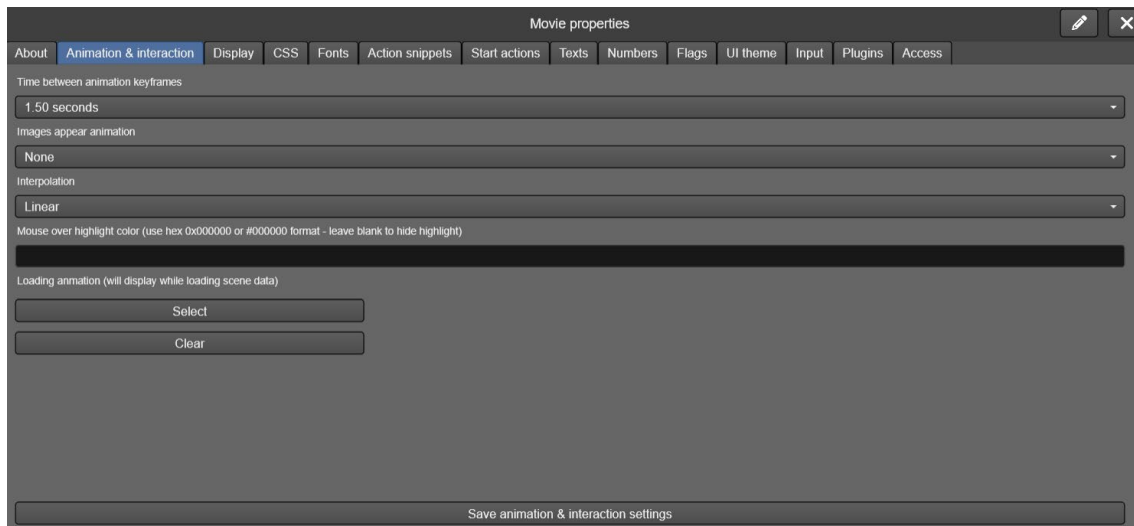
1. the cover name

## **contraption.coverhide**

Removes any currently displayed cover.

## **4.3. Loading icon**

The loading icon is a way to give visual feedback to the visitor while some processing is taking place, such as loading content. It is defined in the movie properties, as a spritemap type media.



## **contraption.showloading**

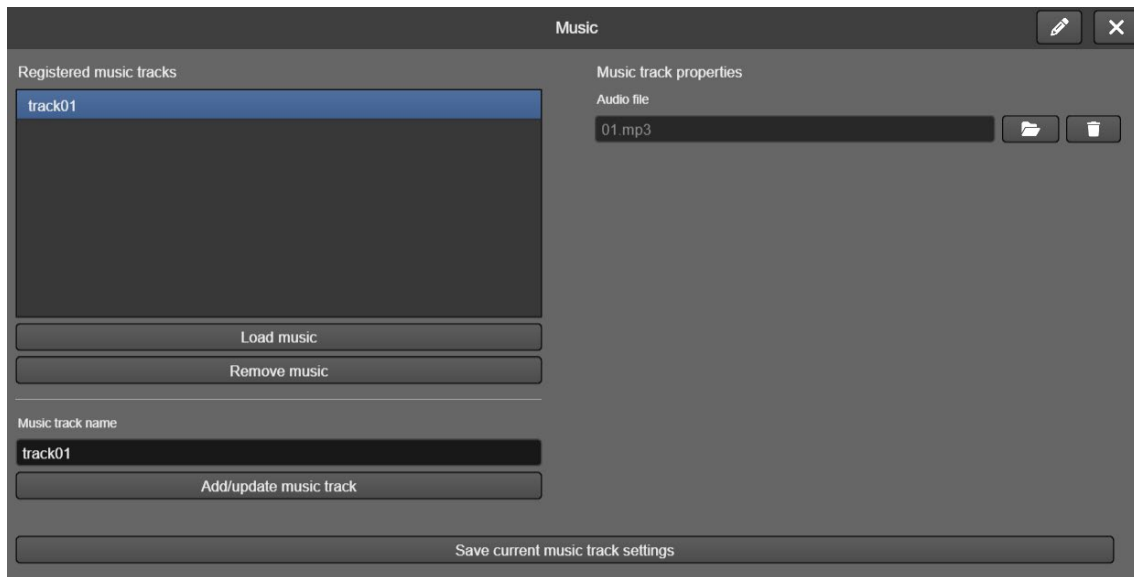
Displays the loading icon set for the movie at the display center (notice that scene loading automatically triggers this action).

## **contraption.hideload**

Hides the loading icon from display (notice that when a scene loading finishes, this action is automatically triggered).

## **4.4. Music tracks**

While it's possible to use an audio instance to include music in your creations, this contraption makes the process easier. Simply create music tracks from your media and, with a simple command, play them when needed.



## **contraption.musicplay**

Plays a music track, interrupting any other currently playing music. This action does not interfere with audio instances present in your movie.

params

1. the music track name

## **contraption.musicpause**

Pauses the current track. If you start playing it again, it will resume from the same point.

## **contraption.musicstop**

Stops the current track. If you start playing it again, it will start from the beginning.

## **contraption.musicvolume**

Sets the music track sound volume from 0 to 100%.

params

1. the sound volume as an integer from 0 to 100

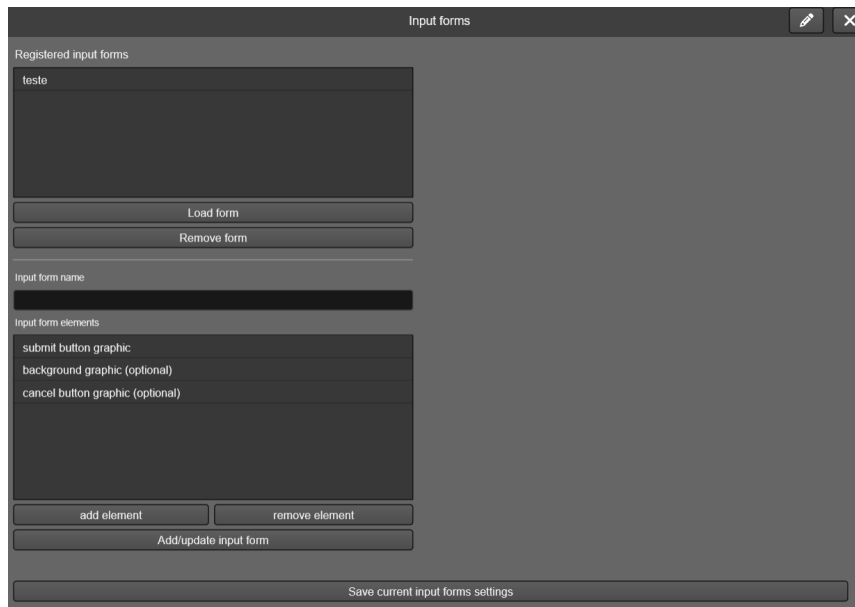
## **4.5. Forms**

TilBuci offers several ways to retrieve information from the visitor. You can use the input actions to either display text areas at the scene display or to show the TilBuci's interface for getting data like numeric steppers, lists and so on. The form contraption is another option for



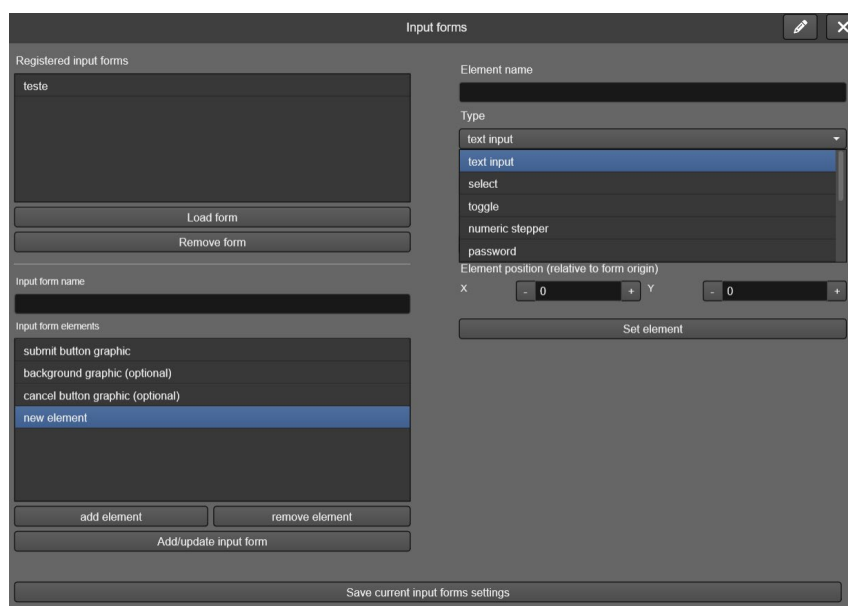
that: you can create complex forms with several input types and show them using an action command.

First, you must create a form using the contraption window. You can create as many forms you want: just give them different names.



The form must have an “ok button” so the visitor can submit data. There is also optional background and cancel buttons.

Use the “add element” button to create your inputs form any of the several available types. Give each one a unique name (for the same form) its position (from the form display origin) and width. For select inputs you must also provide the options list, split by ;. You can add as many elements you want.





With your forms created, you can use actions to display and handle them. The data provided by the visitor using the forms will be available as a global form value.

### **contraption.form**

Displays a form over the scene content. The selected form will replace any other form being displayed at the moment.

params

1. the form name
2. the form x position
3. the form y position

This action lets you set two additional fields:

- Ok: actions to run when the visitor clicks on the submit button
- Cancel: actions to run when the visitor clicks on the cancel button

### **contraption.formvalue**

Sets the value of a current form element. You must call this action after showing up the form. Use strings for all parameters, including numbers and "true"/"false".

params

1. the form element name
2. the value to set

### **contraption.formsetstepper**

Numeric steppers are always created with a minimum of 0, a maximum of 10000 and a step of 1, but you can change these limits using this command.

params

1. the numeric stepper element name
2. the minimum value
3. the maximum value
4. the increase/decrease step

### **contraption.formhide**

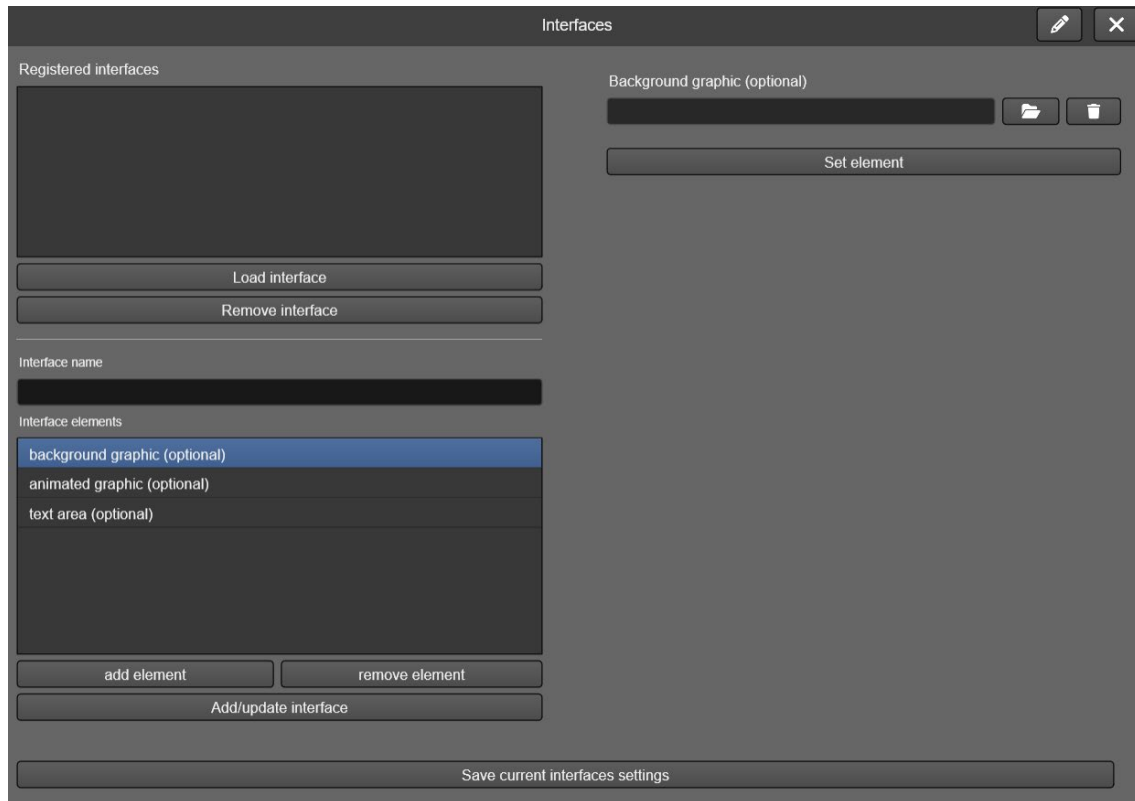
Hides the current form.

## **4.6. Interfaces**

Visitor interfaces are very useful for your content engagement. TilBuci offers a contraption to simplify the creation of reusable interfaces that may contain graphics, buttons, texts and even animations. To create an interface, access "interfaces" at the "contraptions" right menu.



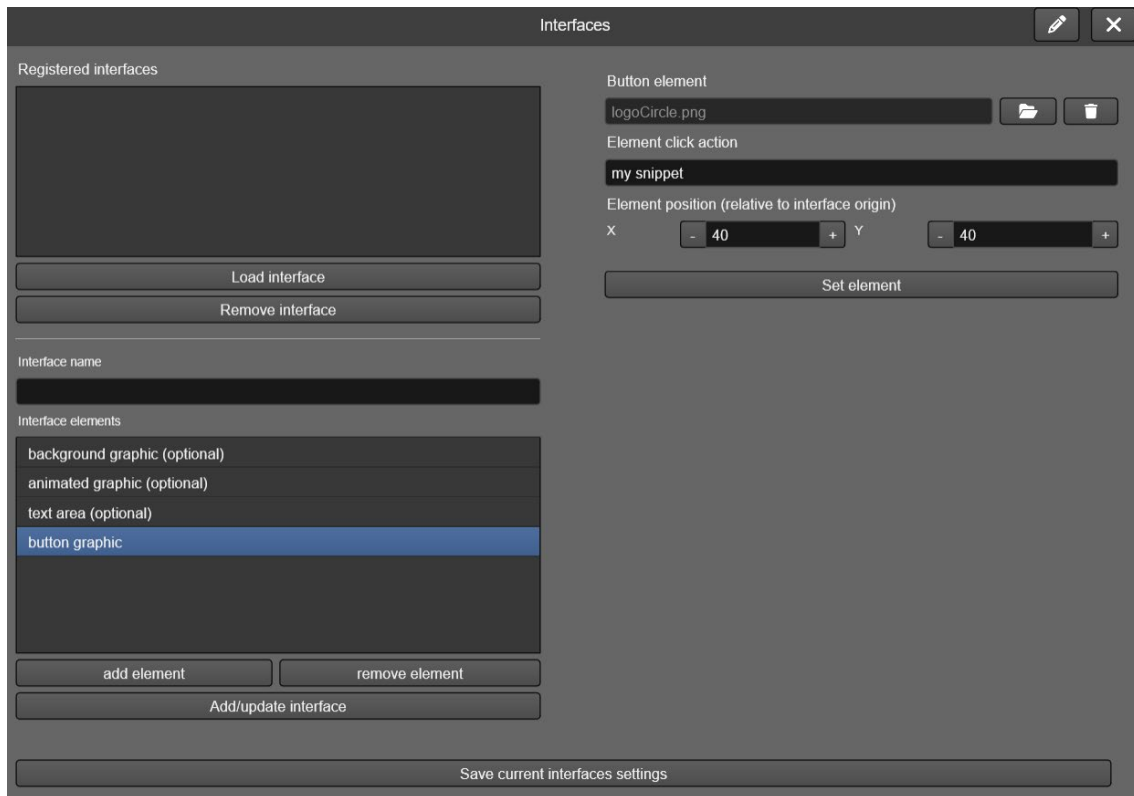
Unlike the forms, you may display as many interfaces as you want at the same time.



There are three pre-defined elements, but they are all optional: the interface background graphic, an animation (provided by a spritemap) and a text line. By selecting each of them at the list you can set the properties like the graphic and the text visuals.

The spritemap can be used as a button or just as a graphic. It always starts paused, but you can use actions to play it or even set a static frame to show, enabling you to use the interface as visual feedback for the visitor.

You may add additional graphics to the interface that can be used only for visual purposes or as buttons: just provide an action snippet name to run when clicked/tapped.



## **contraption.interface**

Shows an interface. You may display as many interfaces you want at the same time.

params

1. the interface name
2. the interface x position
3. the interface y position

## **contraption.interfacehide**

Hides a single interface.

params

1. the interface name

## **contraption.interfacehideall**

Hides all interfaces.

## **contraption.interfacetext**

Sets the content of an interface text line.

params

1. the interface name
2. the text to display



## **contraption.interfaceanimframe**

Sets the current frame of an interface animation (forcing it to pause).

params

1. the interface name
2. the frame (integer, 1-based)

## **contraption.interfaceanimplay**

Starts playing an interface animation.

params

1. the interface name

## **contraption.interfaceanimpause**

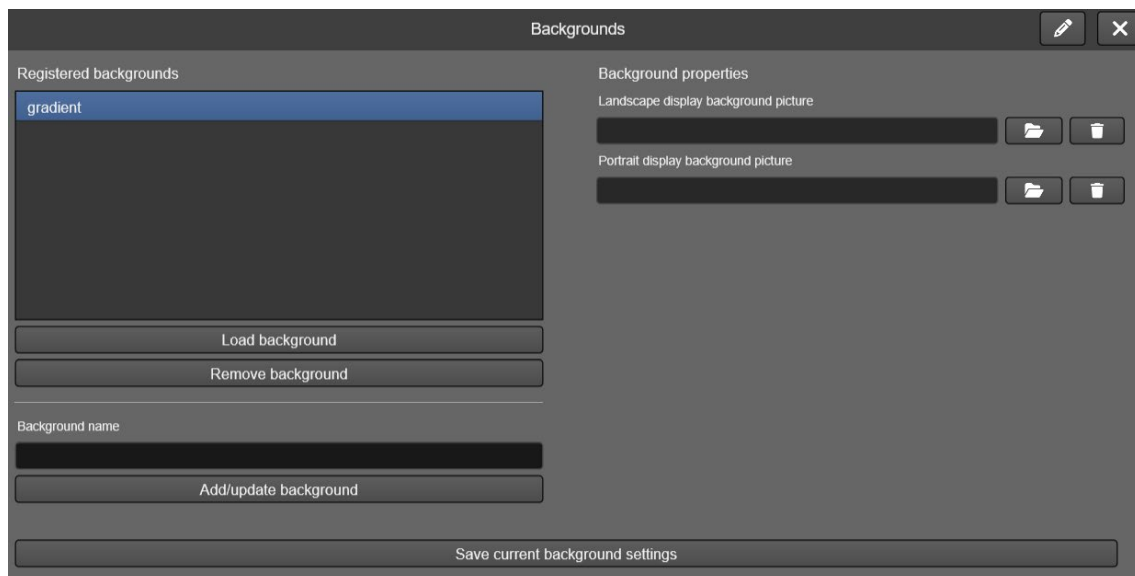
Pauses an interface animation.

params

1. the interface name

## **4.7. Background**

You can set the background color of your TilBuci movies. You can also use picture instances to simulate backgrounds on your scenes, but with the background contraptions this process is much easier! When you show a background, it will be displayed even after a new scene loading.



When configuring, in addition to giving a name, you must indicate at least one picture that will be used to cover the entire movie background area. You can also set one image for horizontal display and one for vertical display.





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## **contraption.background**

This action will show the requested background picture below the scene content, replacing another background, if shown.

params

1. the background name

## **contraption.backgroundhide**

Removes the current background picture.



## 5. Code assist

To simplify the action coding process, TilBuci provides some assistants to help the script creation. On every scripting window there are some buttons to display these tools.



These buttons actions are, in order:

1. return to the block editor
2. copy current action script
3. show movie and scene actions
4. show media/instance actions
5. show variable management actions and conditions
6. show data and input handling actions
7. show additional actions, like system and timer
8. show contraption-related actions
9. show available plugin actions

All windows shown from these buttons have tools to help code creation. Just set what you want and click the buttons with the copy icon – the code will be copied to clipboard so you can paste it on your creations. Please note that this copy functions will only work if TilBuci is running from secure “https” urls due to browser policies. You will also find the “show action” buttons that will display the action at the “Action/value” area, from which you can manually copy the result – this will work from both https and http.



## 5.1. Movie and scene actions

Scene and movie actions

Available movies

ESP32 connection\*

movie load action

show action

Current movie scenes

Input

scene id

scene load action

show action

Other scene actions

scene.navigate

Navigation

right

selected action

show action

Close

Action/value



## 5.2. Instance and media

Instance actions

Current keyframe instances

7766338c67

Action

set

Property

x position

Horizontal value to set

Vertical value to set

Other parameters (seek, paragraph text, load asset)

create action

show action

Close

Action/value

Scene collections

Shape 2024-08-20 09:40:25

Collection assets

Shape

get asset ID

General globals

is the movie playing right now?

get value

Instance globals

Property

playing content?

Name

7766338c67

get value

Movie globals and input content

Text

Global or input name

get value



## 5.3. Variable actions and conditions

Variable actions and conditions

Available variable-related actions and conditions

# int.abs

# int.clear

# int.clearall

# int.divide

# int.max

# int.min

# int.multiply

# int.random

Parameters

create action

show action

Close

Action/value

General globals

? is the movie playing right now?

? is there a server connection?

? is there an user logged?

# current keyframe number

# movie big dimension

# movie small dimension

# movie actual x position

get value

Instance globals

Property

playing content?

Name

7766338c67

get value

Movie globals and input content

Text

Global or input name

get value



## 5.4. Data and input handling

Data and input

Available data and input actions

data.event

data.eventclear

data.liststates

data.load

data.loadlocal

data.loadquickstate

data.loadstatelocal

data.save

Parameters

create action

show action

Close

Action/value

General globals

? is the movie playing right now?

? is there a server connection?

? is there an user logged?

# current keyframe number

# movie big dimension

# movie small dimension

# movie actual x position

get value

Instance globals

Property

playing content?

Name

7766338c67

get value

Movie globals and input content

Text

Global or input name

get value



## 5.5. Additional actions

Additional actions

Avaliable miscellaneous actions

replace.clearfile

replace.clearstring

replace.clearallfiles

replace.clearallstrings

replace.origin

replace.setfile

replace.setstring

Parameters

create action

show action

Close

General globals

is the movie playing right now?

is there a server connection?

is there an user logged?

current keyframe number

movie big dimension

movie small dimension

movie actual x position

get value

Instance globals

Property

playing content?

Name

7766338c67

get value

Movie globals and input content

Text

Global or input name

get value

Action/value



## 5.6. Contraptions

Contraption actions

Available contraption actions

contraption.menu

contraption.menuhide

Parameters

create action

show action

Close

General globals

is the movie playing right now?

is there a server connection?

is there an user logged?

current keyframe number

movie big dimension

movie small dimension

movie actual x position

get value

Instance globals

Property

playing content?

Name

7766338c67

get value

Movie globals and input content

Text

Global or input name

get value

Action/value





## 5.7. Available plugins

Plugin actions

Available original plugin actions

analytics.event

call.sdprocess

call.process

call.url

debuginfo.hide

debuginfo.show

overlay.show

...

Parameters

create action

show action

Close

Action/value

General globals

is the movie playing right now?

is there a server connection?

is there an user logged?

current keyframe number

movie big dimension

movie small dimension

movie actual x position

get value

Instance globals

Property

playing content?

Name

7766338c67

get value

Movie globals and input content

Text

Global or input name

get value

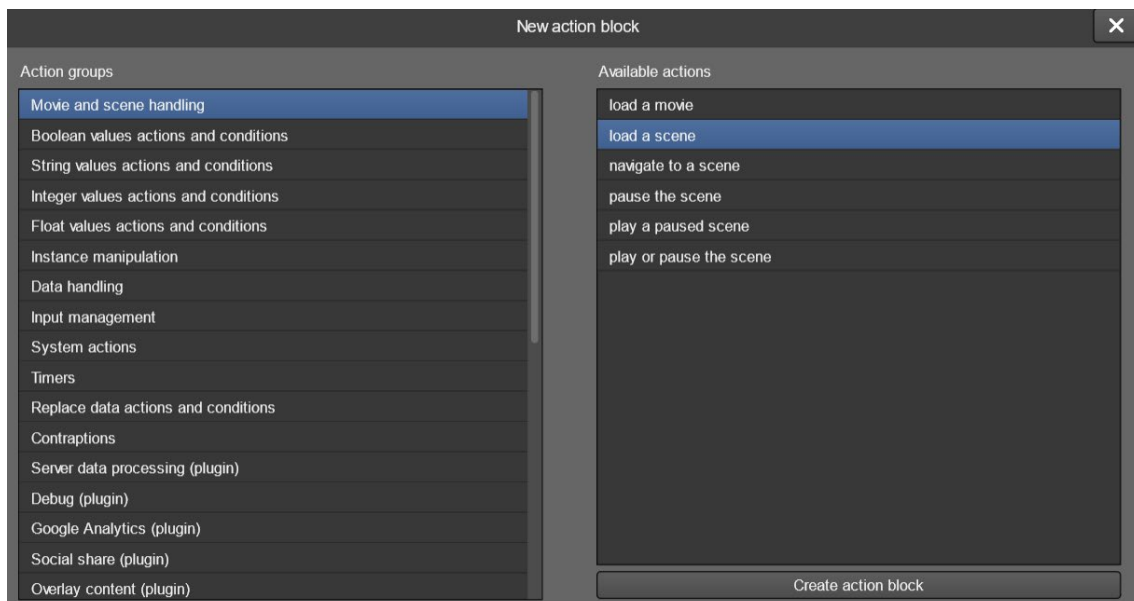


## 6. Block editor

Even though you can write the code for your actions in TilBuci, using or not the assistants, the simplest way to create interactions is through the block editor. The action blocks are a visual way to enter commands and the software's default method.



The block area always displays a + button used to create a block. Click it to show the action groups available. By clicking on one of them, you'll see the available actions. Select the one you want and, then click on "create action block".



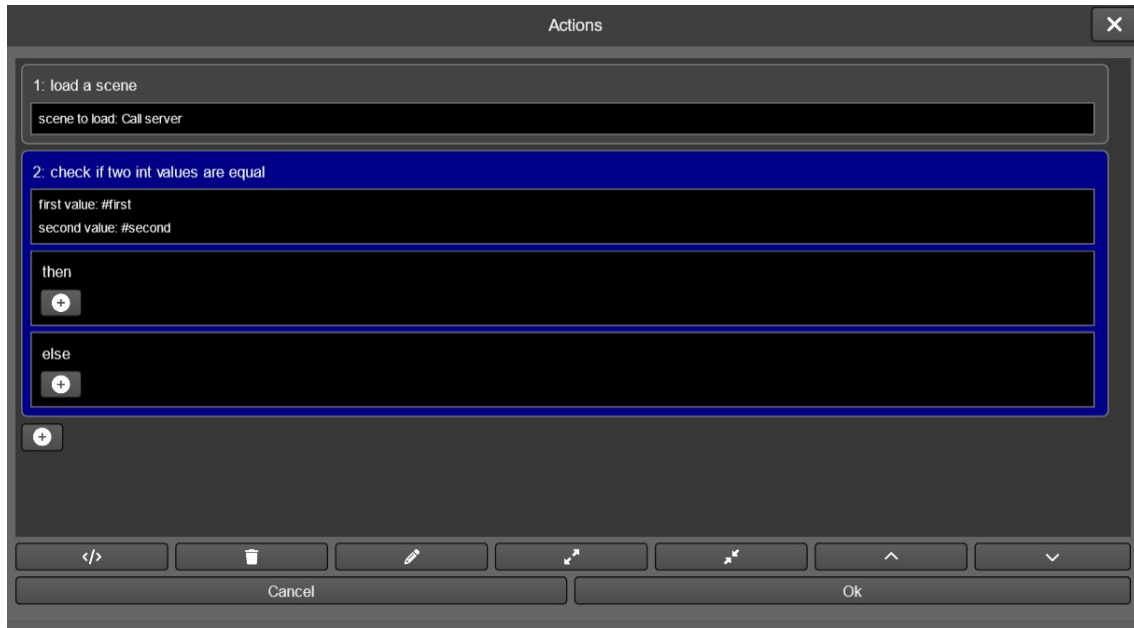


The next window will show all necessary parameters to finish setting your action.

You can add as many blocks as you want to an action: just press the + button to add another one. The actions will be run at the numbered order.



Some blocks, like conditions, can hold themselves further actions. In these cases, additional + buttons are displayed where necessary.



Just below the blocks area you'll find some buttons to help your coding.



They represent, in order:

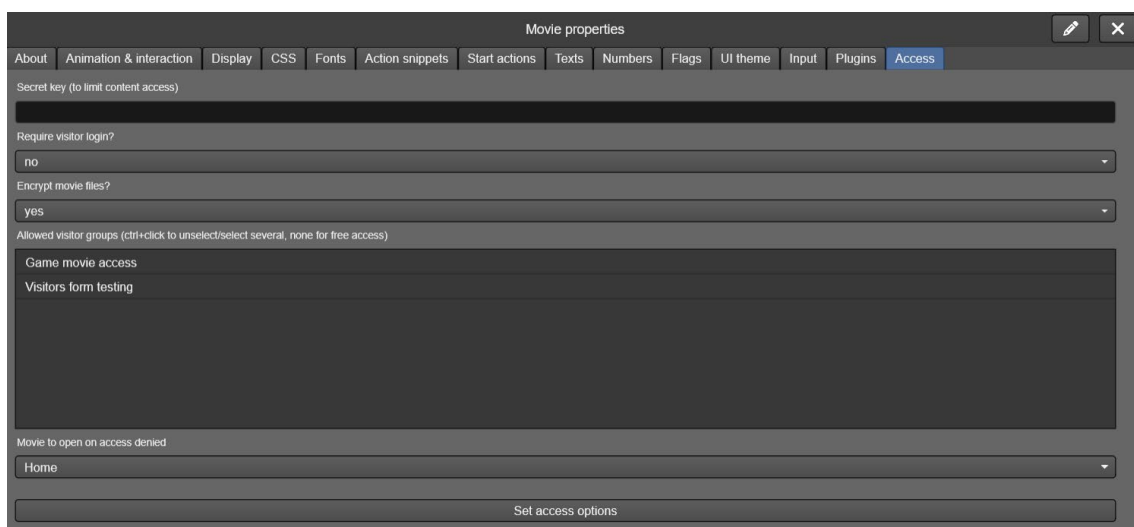
1. switch to the code view (you can switch between block and code display at any time, both methods are 100% compatible)
2. delete the selected block
3. edit the selected block
4. expand the selected block (or mouse center button click)
5. reduces the selected block view
6. move selected block up in execution order
7. mode selected block down in execution order



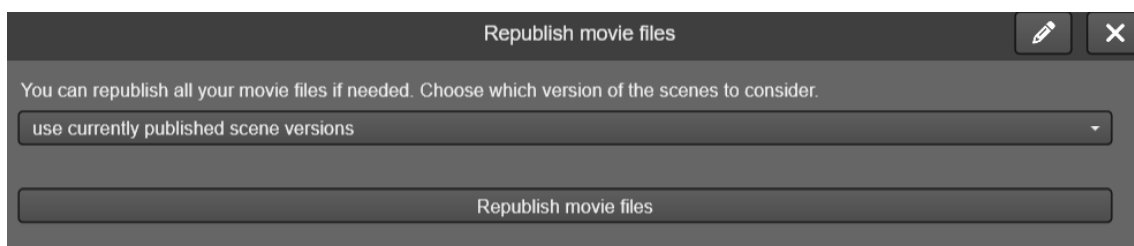
## 7. Content encryption

TilBuci movies are saved as folders containing the media files and also several plain text, json-encoded ones that describe all your movie settings and interactions. These json files are, by default, saved unencrypted. While this is good for many cases, you may need to protect your creation from access by other people.

TilBuci offers an encryption option for your movies. Just open the access tab of the movie properties, change the “encrypt movie files?” setting to true and click the set access options button.



Every time you change this setting, go to the movie left menu and click the republish button. This will force all movie json files to be rewritten, forcing the encryption.



Encrypted movies are compatible with all exporters, but remember that movies exported for importing on other TilBuci installations are always saved unencrypted.

### 7.1. Custom encryption

TilBuci uses a standard AES-256 encryption method which should be sufficient for most cases. If you need to bring your own encryption method/key, however, you can do it following some simple steps.



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First, you must save your movie unencrypted – do not use the TilBuci default encryption. Then, after exporting your content, load and encrypt all movie json files using your custom encryption.

Now, access the index.html file used to load your content. You must add your own decryption method to it – this method must receive a single parameter, the encrypted text, and return a string containing the decrypted one.

The last thing to do is look for the TilBuci initialization script at the index.html file. It looks like this:

```
<script type="text/javascript">
  lime.embed ("TilBuci", "openfl-content", 0, 0, { parameters: { "mode" : "player", "movie":
    "mymovie", "scene": "", "decrypt": myDecryptMethod } });
</script>
```

You must add the “decrypt” property to the initialization parameters, referring to your custom decryption method.

For a simple example of custom decryption, please download this exported website:

<http://tilbuci.com.br/files/customencryption.zip>