cInput Reference Manual

by cMonkeys

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Note

clnput 2 is a commercial release and is not free.

We tried to keep the price low so everyone can still afford it. If for some reason you can not afford the price you can use Custom InputManager 1.x which still works fine. It can be found on the <u>UnifyCommunity Wiki</u>.

If you really need to use cliput 2 and can't afford the price then drop us an <u>email</u> with your motivations and we'll see if we can get you a freebie.

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How to Get Started With cliput

Initial Setup

- 1. Use the "Edit -> Project Settings -> cInput -> Replace InputManager.asset file" menu command in the Unity Editor to create an InputManager.asset file designed to work with cInput.
- 2. Place *cInput.cs* somewhere in your Assets/Plugins folder (or a subfolder of that directory) and it will automatically be accessible from your other scripts. This step should happen automatically if you import the unitypackage file.
- cInput comes with some optional helper classes that can make it easier to do certain things such as the Keys class which gives you AutoComplete on key names. These should also go somewhere within the Assets/Plugins folder. Again, this should happen automatically if you import the unitypackage file.

Setting Up the Default Keys

The first thing to do is to create a setup script that will run run once before any of your other scripts try to get input from clnput. Define your keys first (using <u>SetKey</u>) and then any axes (using <u>SetAxis</u>) in the Awake() or Start() function of that setup script. This script only needs to run once, so if you put it in the first scene the player will see (e.g., splash screen or loading screen) then you don't need to include it in any other scenes. clnput will persist when loading new scenes.

```
// this creates a new key called "Left" and binds A and the Left Arrow to the key clnput.SetKey("Left", "A", "LeftArrow");
// this uses Keys.D and Keys.RightArrow to accomplish something similar clnput.SetKey("Right", Keys.D, Keys.RightArrow);
// uses "Left" and "Right" inputs previously defined with SetKey to create a new axis clnput.SetAxis("Horizontal Movement", "Left", "Right");
```

For a full list of acceptable inputs see the <u>Valid Inputs</u> section. Additionally, you can use the included Keys class (cKeys.cs) to let autocomplete/Intellisense help you type in the correct keys. Many of the examples in this documentation take advantage of the Keys class that comes in the cKeys.cs file.

A Note About Xbox Controllers

Xbox controllers have the unfortunate "feature" of both triggers mapped to the same axis, which means that if you push both triggers at the same time, they cancel each other out and Unity can't tell that you're pushing either trigger. Thankfully, the triggers are also mapped separately on different axes if you have the driver installed, but this is further complicated by the fact that these separate axes are different depending on your OS. The Keys class attempts to assist with this, by providing special keys specifically for the Xbox triggers.

Instead of having to remember which axis belongs to which trigger on which OS, you can simply use (for example) Keys.Xbox1TriggerLeft and it should automatically give you the correct mapping for the OS you're using.

Using Modifier Keys

cliput supports the use of modifier keys. You can designate a key to be used as a modifier with AddModifier. Note that once a key has been designated as a modifier, it is forbidden from being used as an input all by itself. In other words, if you designate LeftShift as a modifier, then it can be used in multiple key combinations such as LeftShift+T and LeftShift+1, but it cannot be used alone as just LeftShift. To define a key to use a modifier by default, set it with SetKey, passing in the modifiers you want to use.

If you have added a key as a modifier and would like to remove it from being used as a modifier, use RemoveModifier.

Using cliput to Control Your Game

Once your inputs are defined in your setup script, you'll probably want to use those inputs to control your game. This is very simple to do using clnput's <u>GetKey, GetKeyDown</u>, <u>GetKeyUp</u>, or <u>GetAxis</u> functions, which all work in the same way that Unity's Input functions of the same name do. For example:

Changing the Keys from the Defaults

Changing Keys From Script

For information on how to change keybindings from script, see the ChangeKey documentation.

Using the Built-In GUI

cliput comes with a built-in GUI to make it simple to change which inputs are bound to which actions. This is great for rapid prototyping since it allows you to adjust the controls without having to invest a lot of time into a custom GUI. Simply call cGUI.ToggleGUI() to show or hide the built-in GUI menu, and assign a GUISkin to cGUI.cSkin to change the way it looks. cliput includes a GUISkin for your convenience. You can also optionally change the color/alpha of the GUI using cGUI.bgColor. For more specific information on how to use cGUI, please see the included cGUI reference manual.

Making a Custom GUI Menu

Admittedly, even though you can customize the look of the built-in GUI with cSkin, it still won't fit the design or theme for every game. With that in mind, there are functions included in cliput which will assist in the process of making your own custom menu for changing your controls.

A quick note: explaining how to make a GUI in Unity is beyond the scope of this document. To learn more about how to make GUIs in Unity, see the GUI Scripting Guide section in the online Unity Reference Manual. This section will only explain the methods that cliput provides which will assist you in making your own GUI menu for displaying and changing the keybindings in your game. Also, note that if you make your own GUI, cliput's included GUI component should not degrade performance when it is unused. If you have access to the source code (in cliput Pro) you can prevent cliput from adding the GUI component at all by commenting out the first line which should look something like this:

#define Use_cInputGUI // Comment out this line to use your own GUI instead of cInput's built-in GUI.

There a few methods and properties you will likely want to use when creating a GUI menu to display the current keybindings and allow players to change them or reset them back to defaults. They are the <u>GetText</u>, <u>ChangeKey</u>, <u>ResetInputs</u> functions and the <u>length</u> property.

Basically, the idea is to use a *for* loop to iterate through all of the inputs and create buttons the player can click on in order to change the keybindings while in game. For example:

```
private Vector2 _scrollPosition = new Vector2();

void OnGUI() {
    _scrollPosition = GUILayout.BeginScrollView(_scrollPosition);
    GUILayout.BeginHorizontal();

GUILayout.BeginVertical();
GUILayout.Label("Action");
for (int n = 0; n < clnput.length; n++) {
        GUILayout.Label(clnput.GetText(n, 0));
}
GUILayout.EndVertical();
GUILayout.BeginVertical();
GUILayout.Label("Primary");</pre>
```

```
for (int n = 0; n < clnput.length; <math>n++) {
              if (GUILayout.Button(cInput.GetText(n, 1)) && Input.GetMouseButtonUp(0)) {
                      cInput.ChangeKey(n, 1);
              }
       GUILayout.EndVertical();
       GUILayout.BeginVertical();
       GUILayout.Label("Secondary");
       for (int n = 0; n < clnput.length; <math>n++) {
              if (GUILayout.Button(cInput.GetText(n, 2)) && Input.GetMouseButtonUp(0)) {
                      clnput.ChangeKey(n, 2);
              }
       GUILayout.EndVertical();
       GUILayout.EndHorizontal();
       GUILayout.EndScrollView();
       GUILayout.BeginHorizontal();
       if (GUILayout.Button("Reset to Defaults") && Input.GetMouseButtonUp(0)) {
              cInput.ResetInputs();
       }
       if (GUILayout.Button("Close") && Input.GetMouseButtonUp(0)) {
              cInput.ShowMenu(false);
       }
       GUILayout.EndHorizontal();
}
```

General Tips and Tricks

If you encounter odd behavior while developing with cliput, it may be helpful to make a call to <u>Clear</u> once to clear out any misconfigured cliput settings.

cliput should execute before other scripts to make sure that all inputs are updated for the current frame before your other scripts try to access them. By default, this should automatically be handled for you when you import the cliput UnityPackage. But it's something to be aware of if the script execution order is somehow lost or modified.

Script Reference

Variables and Properties

allowDuplicates

bool allowDuplicates

Description

If set to true, cliput will allow the same inputs to be used for multiple actions.

deadzone

float deadzone

Description

Values less than this will register as 0 on the virtual axis. Default value is 0.001f.

externalInputs

string externalInputs

Description

A string containing all the cliput settings. **Read-only**. Use this with <u>LoadExternal</u> to save and load cliput settings somewhere other than PlayerPrefs.

gravity

float gravity

Description

How fast the virtual axis value will return to 0. Default value is 3.0f.

length

int length

Description

How many keys have been defined using SetKey. Read-only. Useful for making a custom GUI menu.

scanning

bool scanning

Description

Whether or not cliput is currently scanning for a keypress/input to bind to an action. **Read-only**. Useful for making a custom GUI menu.

sensitivity

float sensitivity

Description

How fast the virtual axis value will reach 1. Default value is 3.0f.

Script Reference

Methods

AddModifier

AddModifier(modifierKey: KeyCode): void

AddModifier(modifier: string): void

Parameters

modifierKey They keycode of the key to be used as a modifier.

modifier They string name of the key to be used as a modifier. Allows you to use the Keys class.

Description

Designates **modifier** or **modifierKey** to be used as a modifier. Note that a modifier key cannot be used as a standalone input key.

Example

// allows LeftShift to be used as a modifier key
clnput.AddModifier(KeyCode.LeftShift);

AxisInverted

AxisInverted(description: string, [inversionStatus: bool]): bool AxisInverted(descriptionHash: int, [inversionStatus: bool]): bool

Parameters

description The name/description of the axis you want to invert.

descriptionHash The hashcode of the name/description of the axis you want to invert.

inversionStatus If true, axis will be inverted. If false, axis will not be inverted.

Returns

bool Whether or not **axisName** is inverted.

Description

Inverts the **axisName** axis. If **inversionStatus** is not passed in, AxisInverted will simply return the inversion status of **axisName**. If **inversionStatus** is passed in, then this axis's inversion will be set to the boolean value and return that value. For more information, see Making a Custom GUI Menu.

Example

// this toggles the inversion status of "Horizontal" clnput.AxisInverted("Horizontal", !clnput.AxisInverted("Horizontal")); // this makes a toggle button in the GUI clnput.AxisInverted("Horizontal", GUILayout.Toggle(clnput.AxisInverted("Horizontal"), "Invert Axis"));

Calibrate

Calibrate(): void

Description

This calibrates analog inputs to their default/neutral position.

ChangeKey

ChangeKey(name: string, [input: int], [mouseAx: bool], [mouseBut: bool],

[joyAx: bool], [joyBut: bool], [keyb: bool]): void

ChangeKey(index: int, [input: int], [mouseAx: bool], [mouseBut: bool],

[joyAx: bool], [joyBut: bool], [keyb: bool]): void

ChangeKey(name: string, primary: string, [secondary: string], [primaryModifier: string],

[secondaryModifier: string]): void

Parameters

name The name/description of the key you wish to change.

index The index number of the key you wish to change. Useful for custom GUIs.

input Which input to change. 1 for primary (default). 2 for secondary.

mouseAx Use mouse axes for input? Defaults to *false*.mouseBut Use mouse buttons for input? Defaults to *true*.

joyAx Use gamepad axes (analog sticks/buttons) for input? Defaults to *true*.

joyBut Use gamepad buttons for input? Defaults to *true*. **keyb** Use keyboard buttons for input? Defaults to *true*.

Description

Waits for player input, then assigns that input to trigger this key. All inputs are monitored by default except mouse axes. All arguments except **name** or **index** are optional and will use their default values if not explicitly passed in. Note that you can also use ChangeKey in the same way as <u>SetKey</u>.

Example

// the next input pressed will be assigned as the primary input for "Pause"
clnput.ChangeKey("Pause");
clnput.ChangeKey("Pause", 1); // this does the same thing as the previous line
// the next input pressed will be assigned as the secondary input for "Pause"
clnput.ChangeKey("Pause", 2);
// only gamepad axes and buttons will be accepted for the primary "Accelerate" input
clnput.ChangeKey("Accelerate", false, false, true, true, false);

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// only the keyboard can be used for the secondary "Jump" input clinput. ChangeKey("Jump", 2, false, false, false, false, true);
// using ChangeKey like SetKey to change the primary and secondary inputs for "Up" clinput. ChangeKey("Up", "W", Keys. UpArrow);

Clear

Clear(): void

Description

Clears all data stored by cliput from PlayerPrefs. This can fix problems that may occur when changing the number or order of inputs used by cliput.

ForbidKey

ForbidKey(key: KeyCode): void ForbidKey(keyString: string): void

Parameters

key The KeyCode of the key to forbid.

keyString A string representing the KeyCode of the key to forbid.

Description

Forbids the key from being used as input for cliput.

Example

// forbid the use of the number 1 as an input
clnput.ForbidKey(KeyCode.Alpha1);
// forbid the use of "tab" and "space" as an input
clnput.ForbidKey(Keys.Tab);
clnput.ForbidKey("Space");

GetAxis

GetAxis(description: string): float GetAxis(descriptionHash: int): float

Parameters

description The name of the axis, as defined in <u>SetAxis</u>.

descriptionHash The hashcode of the name of the axis, as defined in <u>SetAxis</u>.

Returns

float A value between -1 and 1 inclusive.

Description

Returns the value of the axis or virtual axis.

Example

// move the transform horizontally with the "Horizontal Movement" axis float horizMovement = cInput.GetAxis("Horizontal Movement"); float h = 60 * horizMovement * Time.deltaTime; transform.Translate(h, 0, 0);

GetAxisDeadzone

GetAxis(description: string): float GetAxis(descriptionHash: int): float

Parameters

description The name of the axis you want to retrieve the deadzone value for. **descriptionHash** The hashcode of the name of the axis, as defined in <u>SetAxis</u>.

Returns

float The deadzone value for axisName.

Description

Returns the deadzone value for axisName.

Example

// gets the deadzone value for a previously defined axis
float hDeadzone = cInput.GetAxisDeadzone("Horizontal Movement");

GetAxisGravity

GetAxisGravity(description: string): float GetAxisGravity(descriptionHash: int): float

Parameters

description The name of the axis you want to retrieve the gravity value for. **descriptionHash** The hashcode of the name of the axis, as defined in <u>SetAxis</u>.

Returns

float The gravity value for axisName.

Description

Returns the gravity value for axisName.

Example

// gets the gravity value of a previously defined axis float hGravity = cInput.GetAxisGravity("Horizontal Movement");

GetAxisRaw

GetAxisRaw(description: string): float GetAxisRaw(descriptionHash: int): float

Parameters

description The name of the axis, as defined in <u>SetAxis</u>.

descriptionHash The hashcode of the name of the axis, as defined in <u>SetAxis</u>.

Returns

float A value between -1 and 1 inclusive.

Description

Returns the value of the virtual axis identified by **description** with no smoothing filtering applied. The value will be in the range -1...1 for keyboard and joystick input. Since input is not smoothed, keyboard input will always be either -1, 0 or 1. This is useful if you want to do all smoothing of keyboard input processing yourself.

Example

// move the transform horizontally with the "Horizontal Movement" axis transform. Translate (cInput. GetAxis Raw ("Horizontal Movement"), 0, 0);

GetAxisSensitivity

GetAxis(description: string): float GetAxis(descriptionHash: int): float

Parameters

description The name of the axis you want to retrieve the sensitivity value for. **descriptionHash** The hashcode of the name of the axis, as defined in <u>SetAxis</u>.

Returns

float The sensitivity value for axisName.

Description

Returns the gravity value for axisName.

Example

// gets the sensitivity value of a previously defined axis

float hSensitivity = cInput.GetAxisSensitivity("Horizontal Movement");

GetButton

Description

This works in exactly the same way as cliput.GetKey().

GetButtonDown

Description

This works in exactly the same way as cliput.GetKeyDown().

GetButtonUp

Description

This works in exactly the same way as cliput.GetKeyUp().

GetKey

GetKey(description: string): boolean GetKey(descriptionHash: int): boolean

Parameters

description The name of the key, as defined in <u>SetKey</u>.

descriptionHash The hashcode of the name of the key, as defined in <u>SetKey</u>.

Returns

boolean True if the key is being held down.

Description

Use this to determine if a key is being held down. GetKey returns true *repeatedly* while the user holds down the key, and returns false if the key is not being pressed. The use of <u>GetKeyDown</u> or <u>GetKeyUp</u> is recommended if you want to trigger an event only once per keypress, e.g., for jumping.

Example

```
// prints the message repeatedly, as long the player keeps pressing the "Shoot" input
if (cInput.GetKey("Shoot")) {
         Debug.Log("The player is shooting.");
}
```

GetKeyDown

GetKeyDown(description: *string*): *boolean* **GetKeyDown(descriptionHash:** *int*): *boolean*

Parameters

description The name of the key, as defined in <u>SetKey</u>.

descriptionHash The hashcode of the name of the key, as defined in <u>SetKey</u>.

Returns

boolean True only once each time the key is first pressed down.

Description

Use this to determine if a key has been pressed. GetKeyDown returns true *only once* when the key is first pressed down. The use of <u>GetKey</u> is recommended if you want to trigger an event repeatedly while the key is being held down, e.g., for continuous movement.

Example

GetKeyUp

GetKeyUp(description: string): boolean GetKeyUp(descriptionHash: int): boolean

Parameters

description The name of the key, as defined in <u>SetKey</u>.

descriptionHash The hashcode of the name of the key, as defined in SetKey.

Returns

boolean True only once each time the key is released.

Description

Use this to determine if a key has been released. GetKeyUp returns true *only once* when the key is first released. The use of <u>GetKey</u> is recommended if you want to trigger an event repeatedly while the key is being held down, e.g., for continuous movement.

Example

}

GetText

GetText(description: string, [input: int]): string

GetText(index: int, [input: int]): string

Parameters

description The name/description of the key you want to get the text for. The index number of the key you want to get the text for.

input Which input you want to get the text for.

Description

Returns the text of the input used for the key. Note that **input** is optional and if omitted will default to 0 if you pass in the index or 1 if you pass in a string. Pass in 0 for **input** to get the name of the action. Pass in 1 or 2 for **input** to get the name of the primary or secondary inputs assigned to the key/axis. This is useful for displaying to the player which input is assigned to what key in a GUI. For more information on how to use this function in the creation of a GUI, see <u>Making a Custom GUI</u>.

Example

clnput. SetKey("Shoot", Keys.LeftControl, Keys.RightControl); // index for this key is 0 in this example Debug.Log(clnput.GetText("Shoot")); // displays "LeftControl"

Debug.Log(cInput.GetText("Shoot", 1); // also displays "LeftControl"

Debug.Log(cInput.GetText("Shoot", 2); // displays "RightControl"

Debug.Log(cInput.GetText("Shoot", 0)); // displays "Shoot"

Debug.Log(cInput.GetText(0)); // displays "Shoot"

Debug.Log(clnput.GetText(0, 0)); // also displays "Shoot"

Debug.Log(cInput.GetText(0, 1); // displays "LeftControl"

Debug.Log(cInput.GetText(0, 2); // displays "RightControl"

Init

Description

Use this to manually initialize the cliput object. Normally you won't need to use this since cliput will create the cliput object automatically, but there are <u>some situations</u> which might require you to manually call this method.

Example

// manually create the cInput object
cInput.Init();

IsAxisDefined

IsAxisDefined(axisName: string): boolean

IsAxisDefined(axisHash: int): boolean

Parameters

axisName The name of the axis, as defined in <u>SetAxis</u>.

axisHash The hashcode of the name of the axis, as defined in SetAxis.

Returns

boolean True if axisName or axisHash exists.

Description

Use this to determine if an axis exists by the name of **axisName** or the hashcode of **axisHash**. Note that you will probably never need to use this method unless you are a developer making a separate script/plugin and you want to make it compatible with cliput.

Example

IsKeyDefined

IsKeyDefined(keyName: string): boolean IsKeyDefined(keyHash: int): boolean

Parameters

keyName The name of the key, as defined in <u>SetKey</u>.

keyHash The hashcode of the name of the key, as defined in <u>SetKey</u>.

Returns

boolean True if keyName or keyHash exists.

Description

Use this to determine if a key exists by the name of **keyName** or the hashcode of **keyHash**. Note that you will probably never need to use this method unless you are a developer making a separate script/plugin and you want to make it compatible with cliput.

Example

```
// make sure user has defined this key
if (cInput.IsKeyDefined("Left")) {
```

```
// do cInput stuff
} else {
    // fallback to non-cInput stuff?
}
```

LoadExternal

LoadExternal(externString: string): void

Parameters

externString A string containing all of the cliput settings.

Description

Use this to load cliput settings from some source other than PlayerPrefs. This is used in conjunction with <u>externalInputs</u>.

Example

// loads the cInput settings from an external text file
string external = System.IO.File.ReadAllText(Application.dataPath + "/settings.cInput");
cInput.LoadExternal(external);

RemoveModifier

RemoveModifier(modifierKey: KeyCode): void

RemoveModifier(modifier: string): void

Parameters

modifierKey They keycode of the key to stop using as a modifier.

They string name of the key to stop using as a modifier.

Description

Removes **modifier** or **modifierKey** from being used as a modifier. Note that a modifier key cannot be used as a standalone input key. This function allows the key to be used again for normal inputs.

Example

// allows LeftShift to be used as a normal input key
clnput.RemoveModifier(KeyCode.LeftShift);

ResetInputs

ResetInputs(): void

Description

Resets all controls back to the defaults as defined in <u>SetKev</u>.

Example

// reset the inputs back to default
clnput.ResetInputs();

SetAxis

SetAxis(name: string, negative: string, positive: string, [sensitivity: float], [gravity: float],

[deadzone: float]): void

SetAxis(name: string, input: string, [sensitivity: float], [gravity: float], [deadzone: float]): void

Parameters

name The description of what the axis is used for.

negative The input which provides the negative value of the axis.

positive/inputThe input which provides the positive value of the axis. **sensitivity** Optional. The sensitivity for this axis. Default is 3.

gravity Optional. How fast the axis returns to 0 when input stops. Default is 3. **deadzone** Optional. How fast the axis returns to 0 when input stops. Default is 0.001.

Description

Creates an axis out of two inputs, which must be previously set with the <u>SetKey</u> function. The first input will be the negative axis, the second input the positive axis. Note that if only one input is passed in then the axis will only return positive values (unless <u>inverted</u>). You can optionally assign the sensitivity, gravity, or deadzone of the axis by passing in **sensitivity**, **gravity**, and **deadzone** respectively. Additionally, you can use <u>SetAxisSensitivity</u>, <u>SetAxisGravity</u>, and <u>SetAxisDeadzone</u> if you want to change these optional values for an axis after it has already been created.

Also note that setting up axes is not required and you should only do this if you require analog-like controls instead of digital controls. An axis input can be analog (e.g., gamepad axis) or digital (e.g., keyboard button) or even a combination of the two. A virtual analog axis will be created if necessary.

Example

// uses "Left" and "Right" inputs previously defined with SetKey to create a new axis cliput.SetAxis("Horizontal Movement", "Left", "Right");
// or the same as above but with increased sensitivity
cliput.SetAxis("Horizontal Movement", "Left", "Right", 4.5f);
// uses only a single input as an axis (e.g., for a gas pedal in a driving game)
cliput.SetAxis("Acceleration", "Gas");
// or the same as above but with decreased sensitivity
cliput.SetAxis("Acceleration", "Gas", 1.5f);

SetAxisDeadzone

SetAxisDeadzone(axisName: string, deadzone: float): void SetAxisDeadzone(axisHash: int, deadzone: float): void

Parameters

axisName The name of the axis you want to change deadzone for.

axisHash The hashcode of the name of the axis you want to change deadzone for.

deadzone The value to use for deadzone.

Description

Sets the deadzone for axisName to deadzone.

Example

// sets the deadzone for a previously defined axis cliput.SetAxisDeadzone("Horizontal Movement", 0.1f);

SetAxisGravity

SetAxisGravity(axisName: string, gravity: float): void SetAxisGravity(axisHash: int, gravity: float): void

Parameters

axisName The name of the axis you want to change gravity for.

axisHash The hashcode of the name of the axis you want to change gravity for.

gravity The value to use for gravity.

Description

Sets the gravity of axisName to gravity.

Example

// sets the gravity of a previously defined axis cliput.SetAxisGravity("Horizontal Movement", 0.3f);

SetAxisSensitivity

SetAxisSensitivity(axisName: string, sensitivity: float): void SetAxisSensitivity(axisHash: int, sensitivity: float): void

Parameters

axisName The name of the axis you want to change sensitivity for.

axisHash The hashcode of the name of the axis you want to change sensitivity for.

sensitivity The value to use for sensitivity.

Description

Sets the sensitivity of axisName to sensitivity.

Example

// sets the sensitivity of a previously defined axis cliput.SetAxisSensitivity("Horizontal Movement", 0.5f);

SetKey

SetKey(name: string, primary: string, [secondary: string], [primaryModifier: string],

[secondaryModifier: string]): void

Parameters

name The description of what the key is used for. **primary** The primary input to be used for this key.

secondary Optional secondary input to be used for this key. Defaults to None if left blank.

primaryModifier Optional modifier key to be used for the primary input. **secondaryModifier** Optional modifier key to be used for the secondary input.

Description

Defines the default primary input (keyboard button or gamepad/mouse axis) and optionally the secondary input to the keymap. Also optionally assigns modifier keys.

Example

// this creates a new key called "Left" and binds A and the Left Arrow to the key clinput.SetKey("Left", "A", "LeftArrow");

// this uses Keys.D and Keys.RightArrow to accomplish something similar

cInput.SetKey("Right", Keys.D, Keys.RightArrow);

// creates a new key called "Pause" and binds Escape to the key

clnput.SetKey("Pause", Keys.Escape); // note that secondary input defaults to None

// creates a new key called "Target" with LeftControl as a modifier. This means Ctrl-T is the "Target" key.

clnput.SetKey("Target", Keys.T, Keys.None, Keys.LeftControl, Keys.None);

Valid Inputs

Keyboard Inputs

Alpha0	F3	KeypadPeriod	Slash	
Alpha1	F4	KeypadPlus	Space	
Alpha2	F5	LeftAlt	SysReq	
Alpha3	F6	LeftApple	Tab	
Alpha4	F7	LeftArrow	Underscore	
Alpha5	F8	LeftBracket	UpArrow	
Alpha6	F9	LeftControl	Α	
Alpha7	F10	LeftParen	В	
Alpha8	F11	LeftShift	C	
Alpha9	F12	LeftWindows	D	
AltGr	F13	Less	E	
Ampersand	F14	Menu	F	
Asterisk	F15	Minus	G	
At	Greater	Numlock	Н	
BackQuote	Hash	PageDown	1	
Backslash	Help	PageUp	J	
Backspace	Home	Pause	K	
Break	Insert	Period	L	
CapsLock	Keypad0	Plus	M	
Caret	Keypad1	Print	N	
Clear	Keypad2	Question	0	
Colon	Keypad3	Quote	Р	
Comma	Keypad4	Return	Q	
Delete	Keypad5	RightAlt	R	
Dollar	Keypad6	RightApple	S	
DoubleQuote	Keypad7	RightArrow	Т	
DownArrow	Keypad8	RightBracket	U	
End	Keypad9	RightControl	V	
Equals	KeypadDivide	RightParen	W	
Escape	KeypadEnter	RightShift	X	
Exclaim	KeypadEquals	RightWindows	Υ	
F1	KeypadMinus	ScrollLock	Z	
F2	KeypadMultiply	Semicolon		

Mouse Inputs

Mouse2 Mouse5 Mouse Wheel Up Mouse Right Mouse Up	Mouse0 Mouse1 Mouse2	Mouse3 Mouse4 Mouse5	Mouse6 Mouse Wheel Down Mouse Wheel Up	Ü
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Gamepad Inputs

		T	1	T I
JoystickButton0	Joystick2Button4	Joystick4Button8	Joy1 Axis 1-	Joy3 Axis 1-
JoystickButton1	Joystick2Button5	Joystick4Button9	Joy1 Axis 1+	Joy3 Axis 1+
JoystickButton2	Joystick2Button6	Joystick4Button10	Joy1 Axis 2-	Joy3 Axis 2-
JoystickButton3	Joystick2Button7	Joystick4Button11	Joy1 Axis 2+	Joy3 Axis 2+
JoystickButton4	Joystick2Button8	Joystick4Button12	Joy1 Axis 3-	Joy3 Axis 3-
JoystickButton5	Joystick2Button9	Joystick4Button13	Joy1 Axis 3+	Joy3 Axis 3+
JoystickButton6	Joystick2Button10	Joystick4Button14	Joy1 Axis 4-	Joy3 Axis 4-
JoystickButton7	Joystick2Button11	Joystick4Button15	Joy1 Axis 4+	Joy3 Axis 4+
JoystickButton8	Joystick2Button12	Joystick4Button16	Joy1 Axis 5-	Joy3 Axis 5-
JoystickButton9	Joystick2Button13	Joystick4Button17	Joy1 Axis 5+	Joy3 Axis 5+
JoystickButton10	Joystick2Button14	Joystick4Button18	Joy1 Axis 6-	Joy3 Axis 6-
JoystickButton11	Joystick2Button15	Joystick4Button19	Joy1 Axis 6+	Joy3 Axis 6+
JoystickButton12	Joystick2Button16		Joy1 Axis 7-	Joy3 Axis 7-
JoystickButton13	Joystick2Button17		Joy1 Axis 7+	Joy3 Axis 7+
JoystickButton14	Joystick2Button18		Joy1 Axis 8-	Joy3 Axis 8-
JoystickButton15	Joystick2Button19		Joy1 Axis 8+	Joy3 Axis 8+
JoystickButton16	Joystick3Button0		Joy1 Axis 9-	Joy3 Axis 9-
JoystickButton17	Joystick3Button1		Joy1 Axis 9+	Joy3 Axis 9+
JoystickButton18	Joystick3Button2		Joy1 Axis 10-	Joy3 Axis 10-
JoystickButton19	Joystick3Button3		Joy1 Axis 10+	Joy3 Axis 10+
Joystick1Button0	Joystick3Button4		Joy2 Axis 1-	Joy4 Axis 1-
Joystick1Button1	Joystick3Button5		Joy2 Axis 1+	Joy4 Axis 1+
Joystick1Button2	Joystick3Button6		Joy2 Axis 2-	Joy4 Axis 2-
Joystick1Button3	Joystick3Button7		Joy2 Axis 2+	Joy4 Axis 2+
Joystick1Button4	Joystick3Button8		Joy2 Axis 3-	Joy4 Axis 3-
Joystick1Button5	Joystick3Button9		Joy2 Axis 3+	Joy4 Axis 3+
Joystick1Button6	Joystick3Button10		Joy2 Axis 4-	Joy4 Axis 4-
Joystick1Button7	Joystick3Button11		Joy2 Axis 4+	Joy4 Axis 4+
Joystick1Button8	Joystick3Button12		Joy2 Axis 5-	Joy4 Axis 5-
Joystick1Button9	Joystick3Button13		Joy2 Axis 5+	Joy4 Axis 5+
Joystick1Button10	Joystick3Button14		Joy2 Axis 6-	Joy4 Axis 6-
Joystick1Button11	Joystick3Button15		Joy2 Axis 6+	Joy4 Axis 6+
Joystick1Button12	Joystick3Button16		Joy2 Axis 7-	Joy4 Axis 7-
Joystick1Button13	Joystick3Button17		Joy2 Axis 7+	Joy4 Axis 7+
Joystick1Button14	Joystick3Button18		Joy2 Axis 8-	Joy4 Axis 8-
Joystick1Button15	Joystick3Button19		Joy2 Axis 8+	Joy4 Axis 8+
Joystick1Button16	Joystick4Button0		Joy2 Axis 9-	Joy4 Axis 9-
Joystick1Button17	Joystick4Button1		Joy2 Axis 9+	Joy4 Axis 9+
Joystick1Button18	Joystick4Button2		Joy2 Axis 10-	Joy4 Axis 10-
Joystick1Button19	Joystick4Button3		Joy2 Axis 10+	Joy4 Axis 10+
Joystick2Button0	Joystick4Button4			'
Joystick2Button1	Joystick4Button5			
Joystick2Button2	Joystick4Button6			
Joystick2Button3	Joystick4Button7			