Advanced arcade emulation on Batocera

If new to arcade emulation, it is recommended to read the arcade guide first before reading this one.

This section could probably do with an overhaul of its headers.

All the arcade emulators on Batocera

Too many columns. Information is not accurate. For the actual information here, can it be merged with the table on the regular guide?

Arcade emulator	Alternative name	Romset	Roms folder	Default on hardware	Purpose	Extras	Notes
MAME (standalone)	Mame	Latest	mame	PC	All arcade hardware	highscores, samples, overlays	The latest and greatest, usually the hardest to run
libretro/mame	Mame	Latest	mame	PC	All arcade hardware	highscores, samples, overlays	Batocera for PC is shipped with the latest stable MAME version available at the time of release, see table up there
libretro/imame4all	iMame4All	0.37b5	mame	RPi0 (<**v30**)	All arcade hardware	highscores, samples, overlays	Very old version, good for lower devices like pi0, but not many games supported
libretro/mame0139	Mame2010	0.139	mame	PC	All arcade hardware	highscores, samples, overlays	Good core for medium powerful boards like Pi3
libretro/mame078plus	Mame2003Plus	0.78+	mame	PC	All arcade hardware	highscores, samples, overlays	Good port for less powerful boards with back porting of more recent developments Romset is a bit specific, it's not the same as standard 0.78

Arcade emulator	Alternative name	Romset	Roms folder	Default on hardware	Purpose	Extras	Notes
libretro/fbneo	Final Burn Neo	Latest	fbneo	All	All 2D arcade hardware	highscores	1.0.0.X romset is always evolving, it is mostly base on MAME 0.187 romset, but some ROMs are different
libretro/neogeo	Neo Geo	Latest	fbneo	All	All 2D arcade hardware	highscores	can also set to use mame emulators, but fbneo is the recommanded way to go
libretro/flycast	Flycast	Latest	atomiswave	All	Atomiswave arcade hardware		AtomisWave roms can be picked from the latest mame romset
libretro/flycast	Flycast	Latest	naomi	All	Naomi arcade hardware		Naomi roms and CHD can be picked from the latest mame romset
Hypseus	Daphne	Specific	daphne	All	Daphne arcade hardware		Emulator for laserdisc arcade games like Dragon's Lair, uses a very specific non-mame based romset
libretro/fbalpha2012	Final Burn Alpha	FB Alpha 0.2.97.29	fbneo / neogeo	RPi0 (>**v31**)	All 2D arcade hardware		Emulator that performs well on low-power boards. Retropietest's excellent page on it (note we aren't using the same romset version).

NeoGeo system

The NeoGeo system is not an emulator itself, but uses the FBNeo emulator. (Fix Me! Why do we have this? This doesn't work like this for any other system. This section is also confusing, are we no longer defining systems by their folder? Are settings retained from the general mame and fbneo folder?)

You can use this system to visually separate the NeoGeo games from the other arcade games, they will appear as a dedicated system in EmulationStation.

It uses the same romset as the FBNeo emulator.

Setting a Rotary Joystick with libretro mame2003plus

If you have a special stick like the Happ Rotary Arcade you need to configure both joystick and keyboard at same time:

```
Dial :   AZERTY keyboard: "^" (between  "P" and "Enter") -- QWERTY keyboard:
"[" (leftbracket)
Dial :   AZERTY keyboard: "$" (between "P" and "Enter")  -- QWERTY keyboard:
"]" (rightbracket)
Dial 2 : AZERTY keyboard: "*" (between "m" and "Enter")  -- QWERTY keyboard:
"/" (slash)
Dial 2 : AZERTY keyboard: "!" (between "m" and Right)    -- QWERTY keyboard:
"\" (backslash)
```

You must launch your game, open the *Retroarch menu* with Hotkey + B, go to **Input Interface** and activate the option **Simultaneous**. Then you can use your joystick and keyboard keys at the same time.

Highscores

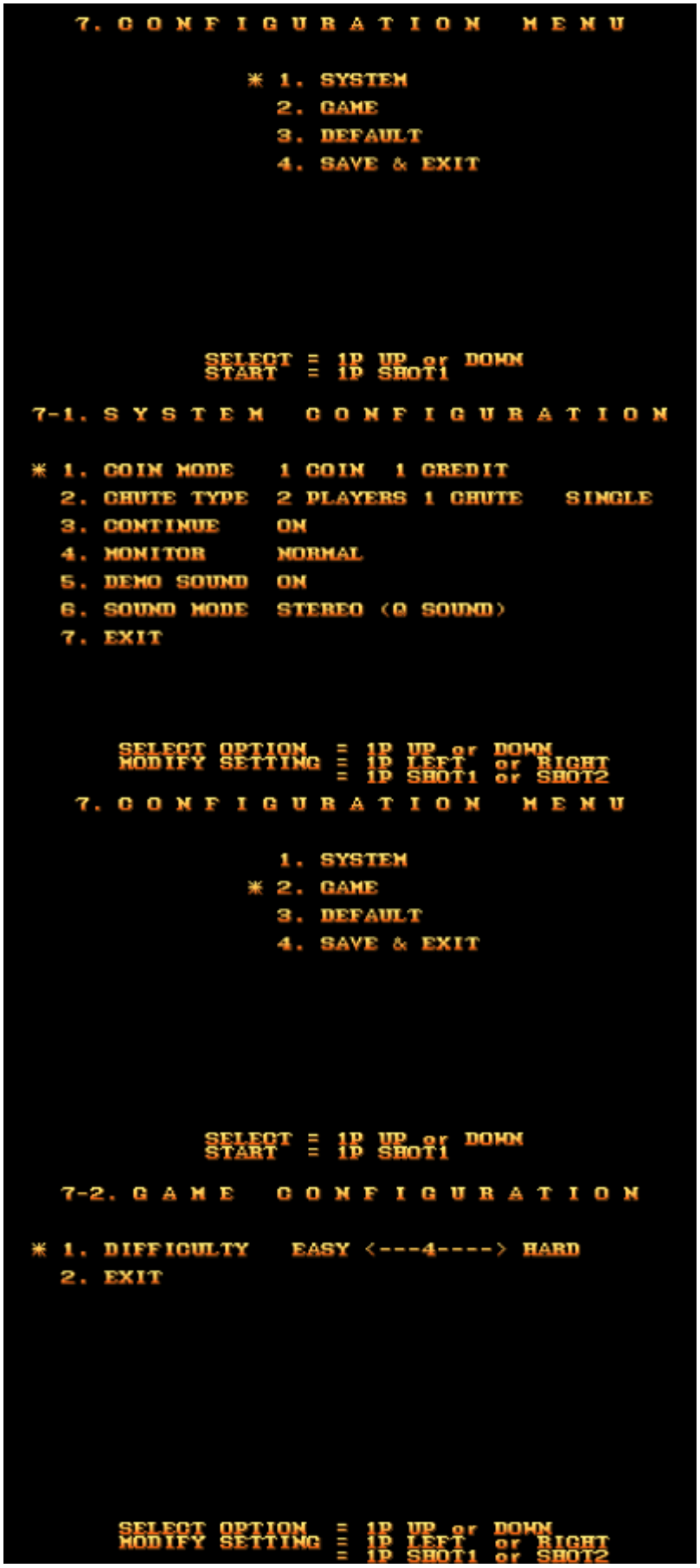
Highscores can be tracked and kept throughthe use of `highscore.dat` which mus be in the right version for each emulator / emulator version, they can be found or must be placed here :

- For FBNeo : `/userdata/bios/fbneo`
- For mame2003plus : `/userdata/saves/mame/mame2003-plus/hi`
- For mame2010: `/userdata/saves/mame/mame2010/hi`
- For mame: see temporary solution in following post

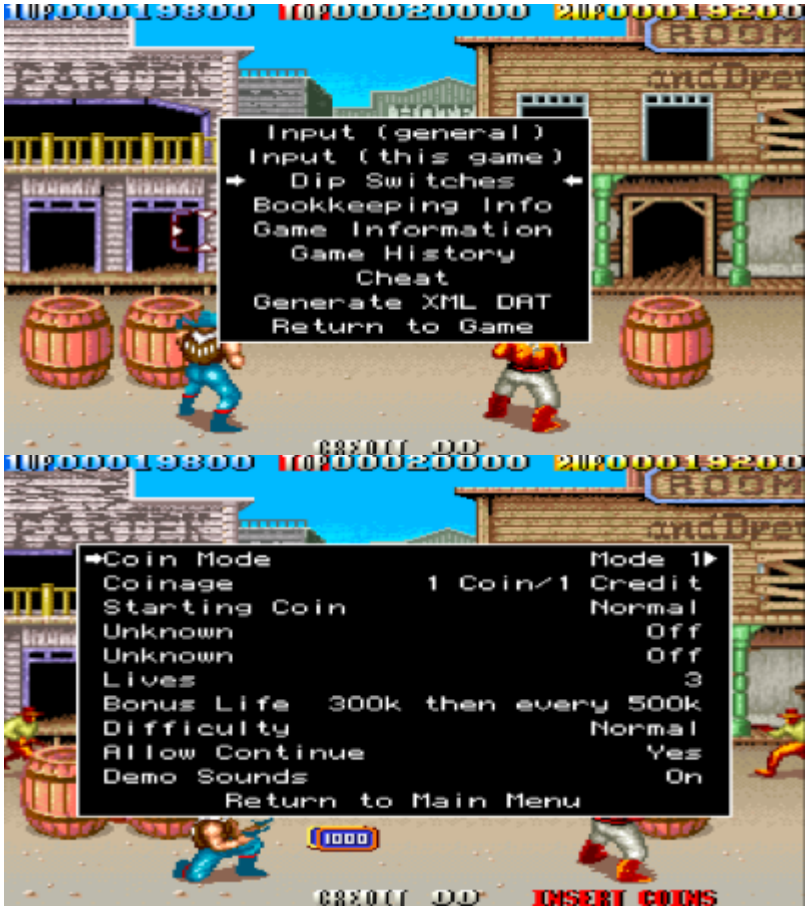
Configuration menus

This is the per-game menu for accessing the machine's advanced configuration such as its dip switches, service mode and diagnostic input.

For FB NEO, the default combo is `[START] + [L1] + [R1]` (old versions (Fix Me! what older versions? Be specific): Hold `[START]`)


7. CONFIGURATION MENU
* 1. SYSTEM
2. GAME
3. DEFAULT
4. SAVE & EXIT
SELECT = 1P UP or DOWN
START = 1P SHOT1
7-1. SYSTEM CONFIGURATION
* 1. COIN MODE 1 COIN 1 CREDIT
2. CHUTE TYPE 2 PLAYERS 1 CHUTE SINGLE
3. CONTINUE ON
4. MONITOR NORMAL
5. DEMO SOUND ON
6. SOUND MODE STEREO (0 SOUND)
7. EXIT
SELECT OPTION = 1P UP or DOWN
MODIFY SETTING = 1P LEFT or RIGHT
= 1P SHOT1 or SHOT2
7. CONFIGURATION MENU
1. SYSTEM
* 2. GAME
3. DEFAULT
4. SAVE & EXIT
SELECT = 1P UP or DOWN
START = 1P SHOT1
7-2. GAME CONFIGURATION
* 1. DIFFICULTY EASY <---4----> HARD
2. EXIT
SELECT OPTION = 1P UP or DOWN
MODIFY SETTING = 1P LEFT or RIGHT
= 1P SHOT1 or SHOT2

For MAME, the default combo is pushing in [L3] + [R3] (old versions (🔧Fix Me! what older versions? Be specific. I also don't think this was even removed, ie. you can still press Tab on the keyboard to access the dip switch menu): [Tab] on the keyboard)

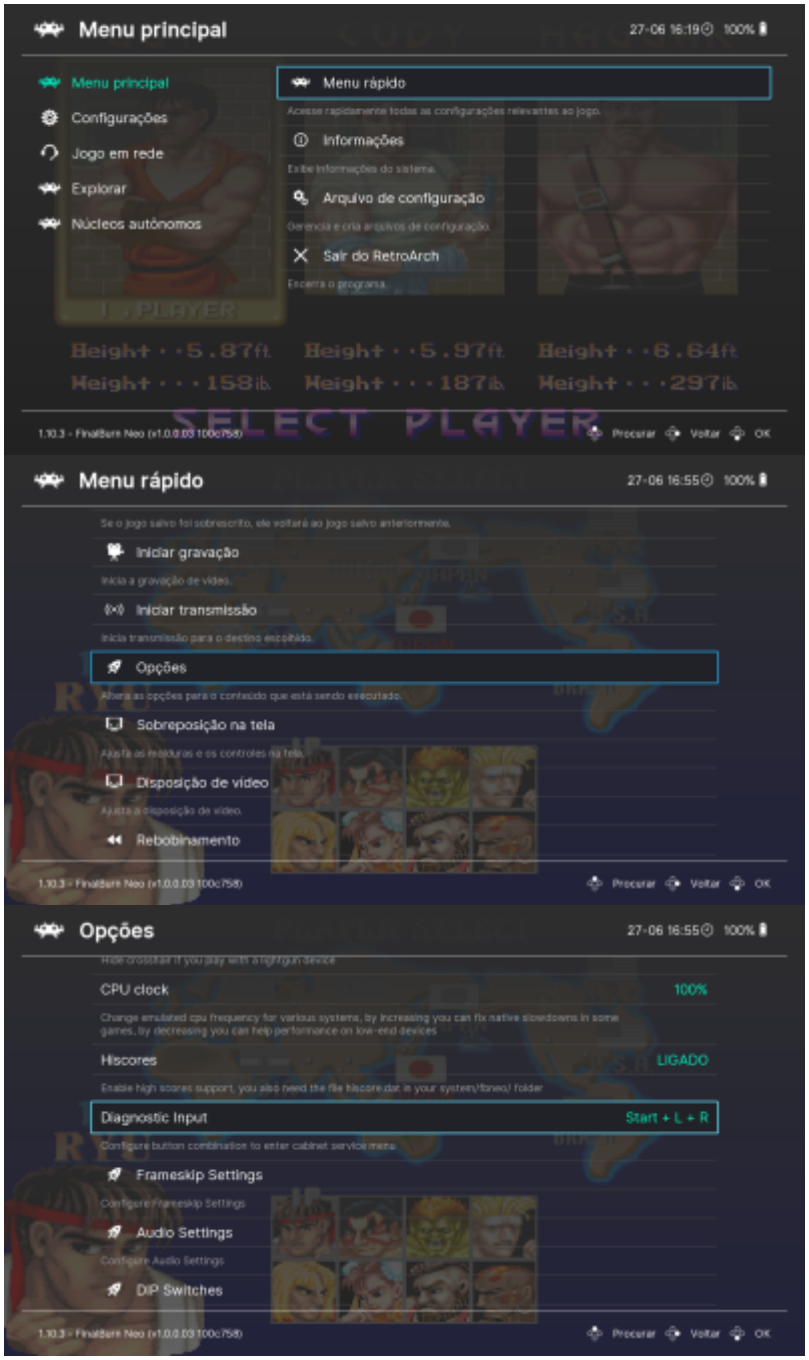


For NEOGEO:

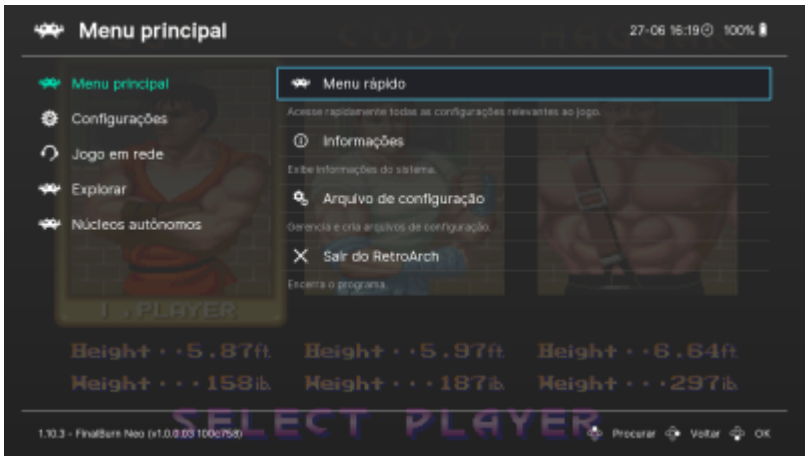
- For the default (Fix Me! factory?) NEOGEO BIOS, the default combo is [START] + [L1] + [R1] (old versions (Fix Me! what older versions? Be specific): Hold [START])
- For the universal BIOS:
  - At the boot screen, the default combo is holding down + +
  - During gameplay, the default combo is holding down [START] + [SELECT] or holding down [START] + + +

Setup a new shortcut via RetroArch:

[HOTKEY] + → **Quick Access** → **Options** → **Diagnostic Input**



Setup DIP Switches via RetroArch: [HOTKEY] + → **Quick Access** → **Options** → **Dip Switches**

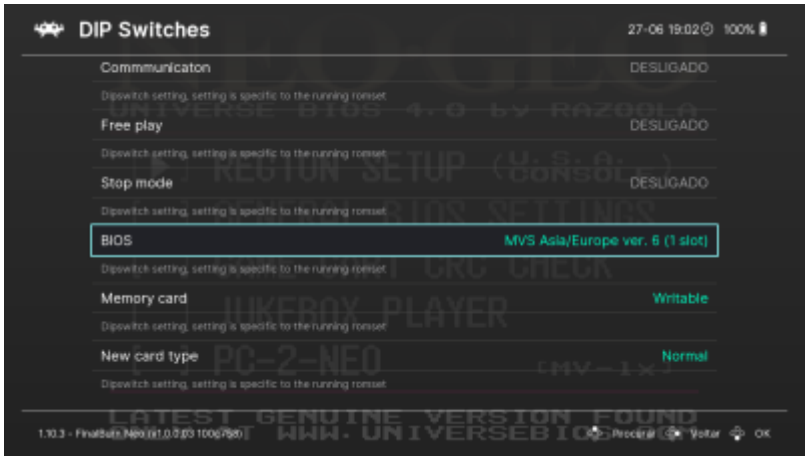


Setup NEO-GEO BIOS via RetroArch:

[HOTKEY] + → **Quick Access** → **Options** → **SPECIFIC NEO GEO BIOS** → **UNIBIOS** or **SPECIFIC BY DIP SWITCHES** (UNIBIOS)

Menu principal
27-06 16:19 100%
Menu principal
Configurações
Jogo em rede
Explorar
Núcleos autônomos
Menu rápido
Informações
Arquivo de configuração
Sair do RetroArch
Procurar
Voltar
OK
Menu rápido
Iniciar gravação
Iniciar transmissão
Opções
Sobreposição na tela
Disposição de vídeo
Rebobinamento
Opções
CPU clock
100%
Diagnostic Input
Start + L + R
Neo-Geo Settings
Frameskip Settings
Audio Settings
DIP Switches
Neo-Geo Settings
Neo-Geo mode
UNIBIOS
Memory card mode
per-game
Debug Dip 1_1
DESLIGADO
Debug Dip 1_2
DESLIGADO
Debug Dip 1_3
DESLIGADO
Debug Dip 1_4
DESLIGADO

Menu principal
27-06 16:19 100%
Menu principal
Configurações
Jogo em rede
Explorar
Núcleos autônomos
Menu rápido
Acesse rapidamente todas as configurações relevantes ao jogo.
Informações
Exibe informações do sistema.
Arquivo de configuração
Gerencia e cria arquivos de configuração.
Sair do RetroArch
Encerra o programa.
1.10.3 - FinalBurn Neo (v1.0.0.03 100c758)
Procurar
Voltar
OK
Menu rápido
27-06 16:19 100%
Se o jogo salvo foi sobrescrito, ele voltará ao jogo salvo anteriormente.
Iniciar gravação
Inicia a gravação de vídeo.
Iniciar transmissão
Inicia transmissão para o destino escolhido.
Opções
Altera as opções para o conteúdo que está sendo executado.
Sobreposição na tela
Ajusta as molduras e os controles na tela.
Disposição de vídeo
Ajusta a disposição de vídeo.
Rebobinamento
1.10.3 - FinalBurn Neo (v1.0.0.03 100c758)
Procurar
Voltar
OK
Opções
27-06 16:19 100%
Hide crosshair if you play with a lightgun device
CPU clock
100%
Change emulated cpu frequency for various systems, by increasing you can fix native slowdowns in some games, by decreasing you can help performance on low-end devices
Hiscores
LIGADO
Enable high scores support, you also need the file hiscore.dat in your system/fbneo/ folder
Frameskip Settings
Configure Frameskip Settings
Audio Settings
Configure Audio Settings
DIP Switches
1.10.3 - FinalBurn Neo (v1.0.0.03 100c758)
Procurar
Voltar
OK
DIP Switches
27-06 16:19 100%
Coin A
1 Coin 1 Credit
Dipswitch setting, setting is specific to the running romset
Coin B
1 Coin 1 Credit
Dipswitch setting, setting is specific to the running romset
2C to Start, 1 to Cont
DESLIGADO
Dipswitch setting, setting is specific to the running romset
Difficulty
4 (Normal)
Dipswitch setting, setting is specific to the running romset
Difficulty 2
Normal
Dipswitch setting, setting is specific to the running romset
Bonus Life
100k
Dipswitch setting, setting is specific to the running romset
1.10.3 - FinalBurn Neo (v1.0.0.03 100c758)
Procurar
Voltar
OK



Not all games have a dip switch menu, and may crash when using these commands.

Here you can change number of players, get more lives, switch for arcade or console mode, setup subtitles, or even active the free mode!

Options available (Defaults)

- Diagnostic Input (shortcut combination):
  - None
  - `Hold Start`
  - `Start + A + B`
  - `Hold Start + A + B`
  - **`Start + L + R`** (Default)
  - `Hold Start + L + R`
  - `Hold Select`
  - `Select + A + B`
  - `Hold Select + A + B`
  - `Select + L + R`
  - `Hold Select + L + R`
- DIP Switches (settings) - may differ from game to game:
  - Autofire: Off* or On
  - Coin Mode: Mode 1*, Mode 2
  - Coin A / Coin B | Coinage | Coin setting : 4 Coins 3 Credit, 2 Coins 1 Credit, 1 Coin 1 Credit*, 1 Coin 2 Credits, 1 Coin 3 Credits, 1 Coin 4 Credits, 1 Coin 6 Credits, Free to Play
  - 2C to Start, 1 to Continue: Yes or No* | Starting Coin: Normal, 2x
  - Difficulty: 1 (Easiest), 2, 3, 4 (Normal)*, 5, 6, 7, 8 (Hardest)
  - Difficulty 2: Easy, Normal*, Hard, Hardest
  - Bonus Life: 100K*, 200K, 100K and every 200K, None
  - Number of Players: 1, 2*, 3, 4
  - Change Lives: 1, 2*, 3, 4, 5
  - Free to play: Yes or No*
  - Freeze: : Yes or No*
  - Flip: Yes or No*
  - Demo Sound | Attractive: Yes* or No
  - Allow Continue: Yes* or No

- Game Mode: Game* or Test
- Sound Output: Mono or Stereo
- Unknown: Off* or On
- Region: Europe, USA or Japan
- Mode: ARCADE or CONSOLE-AES
- Subtitles: English, Japanese, Korean or Portuguese
- Jukebox

←-

MAME input remap files

Is this heading really required?

MAME machines can be remapped in-game by pressing `[L3] + [R3]` (old versions: `[Tab]`) to open the MAME configuration screen, then go to “Input for this game”. Press `[Enter]` or . Inputs can be cleared by double-tapping `[Enter]`/ instead.

Remap configuration files are stored at `\userdata\saves\mame\mame(version)\cfg\`

Automatic Controller Mapping

Standalone MAME and libretro/MAME have options to automatically map the controls for certain games and controller types. For more information, see Automatic Controller Layouts.

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