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richermans
Fceux API

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Overview

⬇　　HTTPS ▾　https://MichaelDerGrosse@bitbucket.or

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What is this repository for?

This repository provides code to access the Fceux emulator using lua on the Emulator side to communicate with the emulator and python to communicate with the lua code.

This code can technically work for any rom to control the character, but we currently only implemented Super Mario Bros. which is also the main game for our topic.

It was done for th Machine Learning Class of SJTU in 2015.

How do I get set up?

Dependencies

You first need to download Fceux. On Windows refer to this link.

Moreover we use OpenCV as our image frontend processing library.

If you use windows , please download and install PyWin.

LINUX

For Linux, if youre on debian based distributions just run:

```
sudo apt-get install fceux
```

For other distributions please refer to your package manager (e.g. yum or pacman)

Moreover you need OpenCV.

Run:

```
sudo apt-get install python-opencv
```

WINDOWS

Please better not use Windows! Install Linux/MacOSx

You need to install Lua on your system and python.

Downloading a rom

Currently we recommend to somewhere get a Mario rom. We can provide ours.

Running the code

Put the mario.nes file into your cloned directory. Simply execute

```
python mario.py
```

or

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👤 **6 commits**
Pushed to richermans/fceux-api
　a6f4cd7 Merge branch 'master' of https://…
　15fa547 Merge branch 'master' of ssh://lai…
　d72a3c7 FINALLY Windows working
　6cd4092 Merge branch 'master' of ssh://lai…
　3cbb699 add some untested workaround t…
　+ 1 more…
Heinrich Dinkel · 2015-04-09

👤 **1 commit**
Pushed to richermans/fceux-api
　bd65268 README.md edited online with B…
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👤 **5 commits**
Pushed to richermans/fceux-api
　dd87409 Merge branch 'master' of https://…
　5c64247 Merge branch 'master' of ssh://lai…
　4f1ee10 Merge
　c468519 Merged
　67aff44 Tried to get windows running, but…
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👤 **1 commit**
Pushed to richermans/fceux-api
　809c806 README.md edited online with B…
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👤 **1 commit**
Pushed to richermans/fceux-api
　1b673a6 FIxed README
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👤 **12 commits**
Pushed to richermans/fceux-api
　e615002 Merged README
　5db4b95 added REadme
　ebe1603 Merge branch 'master' of ssh://lai…
　fe1d1bc Still doesn't work, fixed with the p…
　9d5b179 Added Windows support
　+ 7 more…
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👤 **1 commit**
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　24700f3 README.md edited online with B…
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```
mario.py
```

on windows, if python is in your PATH (default).

On windows you might need to specify the directory of Fceux. As default we expect having a directory in the cloned directory called fceux-2.2.2-win32. If it is any other directory please open up emulator.py and change in the class WinEmulator the attribute FCEUX_BASEDIR to your directory.

If any errors occur, make sure the file is called mario.nes and that it is in the same directory.

Extending the Code

We provide already a template in the file *Mario.py* how to use Mario to do certain actions.

Mario has certain attributes to control him:

- self.BUTTON_UP
- self.BUTTON_UP
- self.BUTTON_DOWN
- self.BUTTON_LEFT
- self.BUTTON_RIGHT
- self.BUTTON_A
- self.BUTTON_B

And some buttons to control the game flow:

- self.BUTTON_START
- self.BUTTON_SELECT
- self.SOFTRESET

1 commit
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1cedc36 README.md edited online with B…

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