Multi-Emulator Launcher

A custom frontend for libretro cores with PS4 controller support, automatic game scanning, ZIP handling, and multi-disk game management.

Features

- **Automatic Platform Detection** Scans your ROM folders and creates tabs automatically
- **ZIP Support** Automatically extracts and caches ZIPped ROMs
- Multi-Disk Games Intelligently groups and launches multi-disk games
- PS4 Controller Support Full navigation with DualShock 4
- **BIOS Management** Organized BIOS folder structure matching your platforms
- **✓ Smart Caching** Fast loading of previously extracted ZIPs
- Clean UI Dark theme, easy navigation

Project Structure



Installation

Prerequisites

- 1. **Python 3.8**+
- 2. **RetroArch** installed and accessible in PATH
- 3. **Libretro cores** for your platforms

Step 1: Install Python Dependencies

bash
pip install -r requirements.txt

Step 2: Install RetroArch

Linux (Ubuntu/Debian):

sudo add-apt-repository ppa:libretro/stable sudo apt update sudo apt install retroarch

macOS:

bash

brew install retroarch

Windows: Download from https://www.retroarch.com/

Step 3: Download Libretro Cores

Option A: Via RetroArch

- 1. Open RetroArch
- 2. Go to Main Menu \rightarrow Online Updater \rightarrow Core Downloader
- 3. Download cores for your platforms:
 - Amiga: P-UAE or PUAE

- Atari ST: Hatari
- **Amstrad CPC**: Caprice32
- Atari 2600: Stella
- **Atari 800**: Atari800
- etc.

Option B: Copy from RetroArch

Find your RetroArch cores directory:

- **Linux**: (~/.config/retroarch/cores/)
- macOS: (~/Library/Application Support/RetroArch/cores/)
- Windows: (%APPDATA%\RetroArch\cores\)

Copy the (.so) (Linux), (.dylib) (Mac), or (.dll) (Windows) files to the launcher's (cores/) directory.

Step 4: Organize Your ROMs

Place your ROMs in the (roms/) directory with each platform in its own folder:

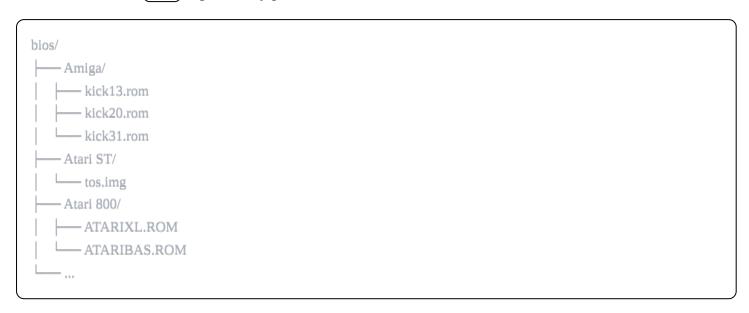
Supported folder names:

- Acorn Electron
- Amiga
- Amstrad 464
- Amstrad 6128
- Amstrad CPC
- Apple-II

- Atari 2600
- Atari 800
- Atari-8-bit
- Atari ST

Step 5: Add BIOS Files

Place BIOS files in (bios/) organized by platform:



Required BIOS files:

Platform	Files Needed	
Amiga	kick13.rom, kick20.rom, kick31.rom	
Atari ST	tos.img	
Atari 800/8-bit	ATARIXL.ROM, ATARIBAS.ROM	

Usage

Starting the Launcher

bash		
python main.py		

Keyboard Controls

- Arrow Keys Navigate game list
- Enter Launch selected game
- Left/Right Arrows Switch between platform tabs
- Escape Exit launcher

PS4 Controller Controls

- **D-Pad / Left Stick** Navigate game list
- 🗶 (Cross) Launch game
- • (**Circle**) Exit
- L1 / R1 Switch between platform tabs
- **Options Button** Open settings
- **△ (Triangle)** Quick actions (future)

Game Icons