Rust Stream and Frame Processing Powered by opency

中文版在这里

Introduction

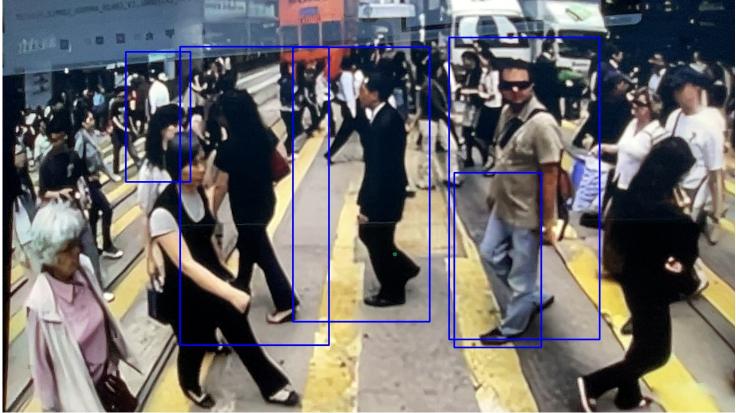
A tool that can detect body, face, QR Code and take photo. The stream or frame sources from video, camera or pictures. T0D0:

- Body Detection
- Face Detection
- Moving Object Detection
- Support for single frame
- QR Code Detection and Decode

Preview







Requirements

• Install opency

Macos:

brew install opencv

Linux:

- 1. Download opency-4.x.x source code in https://opency.org/releases/
- 2. unzip it to anywhere you want
- 3. cd opencv-4.x.x
- 4. mkdir build && cd build
- 5. cmake -D WITH_TBB=ON -D WITH_EIGEN=ON -D OPENCV_GENERATE_PKGCONFIG=ON -D BUILD_DCCS=ON -D BUILD_TESTS=OFF -D BUILD_PERF_TESTS=OFF -D BUILD_PERF_TES
- 6. make -i8
- 7. make install
- 8. sudo -i vim /etc/ld.so.conf.d/opencv.conf and then add /usr/local/lib in it
- 9. sudo echo 'PKG_CONFIG_PATH=\$PKG_CONFIG_PATH:/usr/local/lib/pkgconfig' >> /etc/bash.bashrc

sudo echo 'export PKG_CONFIG_PATH' >> /etc/bash.bashrc

Usage

Clone this repository
git clone https://github.com/BinciLuo/RustWebCam.git
cd RustWebCam

Build

cargo build

• Run

cargo run

It will create folders $\,$ pics , pics/Camera , pic/Capture $\,$ if they don't exist.

TroubleShooting

Macos

Temporarily None

Linux

openssl

- Message: failed to run custom build command for openssl-sys v0.9.60
- Solution: sudo apt install libssl-dev

llvm

- Message: Could not execute 'llvm-config' one or more times
- Solution: sudo apt install llvm clang libclang-dev

videoio compile error

- Message: function or associated item not found in 'VideoCapture'
- Solution: OpenCV version too old. first exec sudo apt-get purge *libopencv* && sudo apt-get autoremove && sudo apt-get autoclean to uninstall old opency and then install it again following tips in Requirements.

gtk

- Message: Failed to load module acnberra-gtk-module
- Solution: sudo apt install libcanberra-gtk-moudle

'limits' file not found

- · Message: 'limits file not found'
- Soulution sudo apt install libstdc++-12-dev