■ OpenCV 4.0.1

RaspberryPi3 B+，Jetson Nano，Jetson TX2 の各種環境でビルド.
それぞれ,

```
dd if=/dev/zero of=swapfile bs=1M count=2048
sudo mkswap swapfile
sudo swapon swapfile
```

で，スワップ領域を用意.
必要そうなものをいろいろインストール

```
sudo apt-get install -y build-essential cmake pkg-config
sudo apt-get install -y libjpeg-dev libtiff5-dev libjasper-dev libpng12-dev libjpeg-dev
sudo apt-get install -y libavcodec-dev libavformat-dev libswscale-dev libv4l-dev
sudo apt-get install -y libxvidcore-dev libx264-dev
sudo apt-get install -y libgtk2.0-dev
sudo apt-get install -y libatlas-base-dev gfortran
sudo apt-get install -y python2.7-dev python3-dev
sudo apt-get install -y python-pip python3-pip
sudo pip install numpy
sudo pip3 install numpy
```

ソースコードを用意して,

```
wget -O opencv.zip https://github.com/Itseez/opencv/archive/4.0.1.zip
unzip opencv.zip
wget -O opencv_contrib.zip https://github.com/Itseez/opencv_contrib/archive/4.0.1.zip
unzip opencv_contrib
```

RaspberryPi3 の場合,

```
cmake -DCMAKE_BUILD_TYPE=Release \
   -DCMAKE_INSTALL_PREFIX=/usr/local \
   -DOPENCV_EXTRA_MODULES_PATH=../../opencv_contrib-4.0.1/modules \
   -DENABLE_VFPV3=ON \
   -DENABLE_NEON=ON \
   -DBUILD_TESTS=OFF \
   -DWITH_TBB=OFF \
   -DINSTALL_PYTHON_EXAMPLES=ON \
   -DOPENCV_SKIP_PYTHON_LOADER=ON \
   -DOPENCV_PYTHON2_INSTALL_PATH=/usr/local/lib/python2.7/dist-packages \
   -DOPENCV_PYTHON3_INSTALL_PATH=/usr/local/lib/python3.5/dist-packages \
   -DOPENCV_GENERATE_PKGCONFIG=ON \
   -DBUILD_EXAMPLES=ON \
   ..
```

Jetson Nano，Jetson TX2 の場合,

```
sudo apt install opencl-headers ocl-icd-libopencl1
```

を追加でいれて,

```
cmake -DCMAKE_BUILD_TYPE=Release \
   -DCMAKE_INSTALL_PREFIX=/usr/local \
   -DOPENCV_EXTRA_MODULES_PATH=../../opencv_contrib-4.0.1//modules \
   -DOPENCV_ENABLE_NONFREE=true \
   -DBUILD_EXAMPLE=ON \
   -DWITH_CUDA=ON \
   -DCUDA_ARCH_BIN=6.2 \
   -DCPU_BASELINE=FP16 \
   ..
```

として

```
make
sudo make install
```

さて，ビルドは成功する，かな？

...RaspberryPi3 ではうまくビルドできたけど，
Jetson Nano と Jetson TX2 はビルド中にディスクが不足して失敗してた.

■打合せ

北参道→巣鴨→四谷