- 1. Face Detectin Demo
 - 1. build FaceDetector and demo client with opency haar and libzmq
 - 1. run
 - 2. communication model
 - 3. zmq protocol spec
 - 4. 3rd-party library and references

Face Detectin Demo

build FaceDetector and demo client with opency haar and libzmq

- 1. build opency from souce code
- 3. build

./build.sh opencv

build artifacts: install/FaceDetector.exe, install/ClientDemo.exe

run

FaceDetector.exe [--show]

--show: openup live camera GUI anchored with detected face regions

communication model

```
camera --> opencv_haar
opencv_haar --> zmq_pub
zmq_pub <--> zmq_sub_1
zmq_pub <--> zmq_sub_..
zmq_pub <--> zmq_sub_n
```

zmq protocol spec

pub/sub model with json payload:

```
{"event": str = "face_on|face_off", cnt:int = NUM_OF_FACES_IN_VISION}
```

3rd-party library and references

- [1] opencv
- [2] libzmq
- [3] zmq via CSharp