# Head pose estimation

### Start program:

From the prompt:

python lib\_headpose\_NN.py (PT2 released version)

or

python lib\_headpose\_NN2.py (variation)

From window:

Doubleclick the file lib\_headpose\_NN.py

or

Doubleclick the file lib\_headpose\_NN2.py

## Stop program:

Press the Esc key when the main window showing the webcam image is active.

### Usage:

import lib\_headpose\_NN

pitch, yaw = HeadPose(image, region)

# Examples

Example using webcam:

import lib\_headpose\_NN

capture = cv.CaptureFromCAM(-1)

image = cv.QueryFrame(capture)

cv.ShowImage("image", image)

key = cv.WaitKey(30) # only works with cv window

image, center, detected, region = nao.Detect(image, False)

if detected:

pitch, yaw = HeadPose(image, region)

Example using nao cam

import lib\_headpose\_NN

nao.InitProxy(‘your Nao IP’

nao.InitVideo()

image=nao.GetImage()

cv.ShowImage("image", image)

key = cv.WaitKey(30) # only works with cv window

image, center, detected, region = nao.Detect(image, False)

if detected:

pitch, yaw = HeadPose(image, region)