



# OPENCV APPLICATIONS

# OpenCV Applications

## CamShift Object Tracking

### OpenCV CamShift filter

- Bring up
  - [Robot] \$ roslaunch rchomeedu\_vision **multi\_astra.launch**
- Image topic
  - image:=/camera/rgb/image\_raw (or camera\_top)
- Launch node
  - \$ roslaunch opencv\_apps **camshift.launch**  
image:=/camera/rgb/image\_raw

# OpenCV Applications

## People/Face Detection and Recognition

- Bring up
  - [Robot] \$ roslaunch rchomeedu\_vision **multi\_astra.launch**
- Image topic:
  - image:=/camera/rgb/image\_raw (or camera\_top)
- Face Detection using Cascade Classifier
  - \$ roslaunch opencv\_apps **face\_detection.launch**  
image:=/camera/rgb/image\_raw
- Face Recognition
  - \$ roslaunch opencv\_apps **face\_recognition.launch**  
image:=/camera/rgb/image\_raw
- People Detection using Histogram of Oriented Gradients (HOG)
  - \$ roslaunch opencv\_apps **people\_detect.launch**  
image:=/camera/rgb/image\_raw