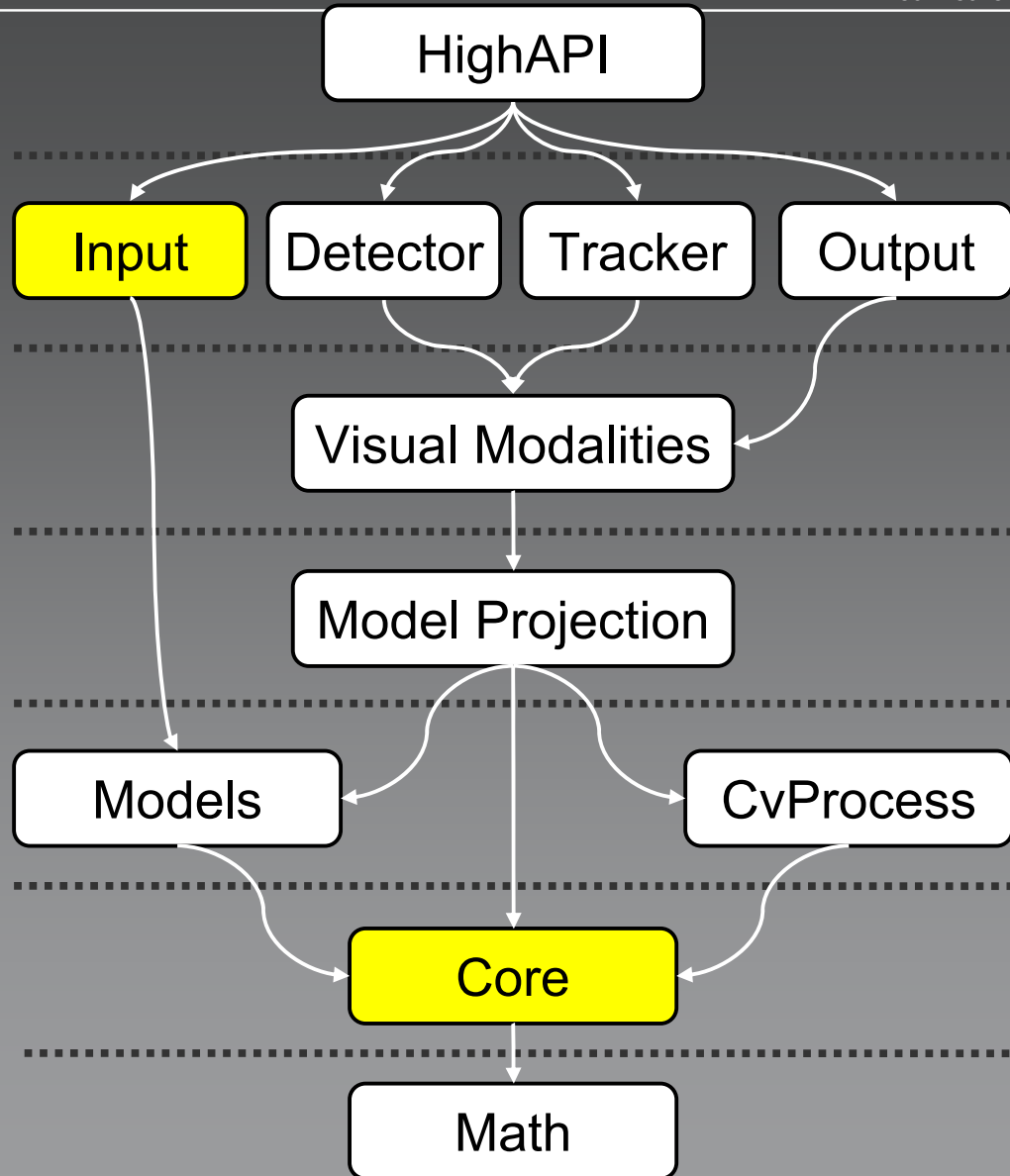


## OpenTL – Tutorial 1

- Grabbing frames from a camera and show the output





## Input – Image Sensors

- Video-File
- USB-Camera
- Firewire Camera  
→ in this tutorial we use Guppy firewire cameras from ALLIED vision technologies



## Firewire Camera

- Create an instance of a camera:  
→ `input::FirewireCamera::createFirewireCamera(0)`
- Open the camera  
→ `camera->open();`
- You can set some features of the camera  
→ `camera->enableWhiteBalanceAuto(true)`  
→ `camera->enableGainAuto(true)`
- Start the frame-grabbing:  
→ `camera->captureStart()`

- Create a camera (as explained before)
- Define a `cvdata::Image` pointer *srcImage*
- Create an OpenCV Window:
  - `cvNamedWindow("image",1);`
- *Loop:*
  - `captureNext()`
  - `getImage()`
  - show Image with OpenCV:
    - `cvShowImage("image",srcImage->getIplImage());`
- Stop the frame capturing, close the camera
  - `stop()`
  - `close()`