B CVAUX } = resimented algorithms} Introduction to OpenCV *Include Files The main header files of interest in ... prency2/ope-cu-hpp. -> This include all the ordered hander file. => You ca cuse the include file opener.hpp to include any or every possible OpenCV furtion. But it will slow down compile time. Las For fast compiletion, use Specific header => The include Piles are located on disk under m: Imodules dischary. * First Program - Display a Picture CV: Met 1= (V: imstead ("Pathtofile", +1); PperCV functions live withing Loda Shuiter to (me momospare colled CV > High-level mouline that determines the file format to be loaded board on the Pilename; 91 automaticuly allocates the memosy needed for the image dela Structure and one time cv: Med.

img.emplo() See if an image was in fail smad. CV: named Window ("Windy News", CV WINDOW_ADTOSITE); [Na. of n. wide-) (Window property) At may be get wither Oldful. OD CV: WINDOW-AUTOSIZE CV:: imshow ("WindowName", ima); Ov: wait koy (0); -> Asks the program to stop and wait for a Keystroke. > If a positive argument is given, the program will wait for that number of millise conds ad than Continue even if nothing is passed. = If the argument is set to O or to a negative number, the program will wet indefinitely for a Kny-priss. O: distroy Window ("Window Name"); Lo Close the window and deallocate any associated memory boage.

+ Socond Program (Video) CV :: Video Capture cap; STLis object can open and close Video files of as mans type co famping Supports cap. open ("filename"); Fully Video. * Moving Anound Cap. Set (CV: CAP_PROP_POS_FRAME, Pos) Javiden Capture) Sot me forame of the vider forames = (int). Cop. got (CV:: CAP_PROP_FRAME_COUNT) >) Return number of frame)
in the video widh = (int) (cp. get (cv:: CAP_PROP_FRAME_WIDTH) >) Return, wider of a frame in height = (int) Cop. get (CV:: CAP_PROP_FRAME_MELGAT) >> > Returns height of a frame in }

> (Ku :: Mat). Cap >> franc; S get the count from of the video Curvet-pos = (Int) Cap. git (cv: CAP_PROP_POS_FRAMES). >) get cares fra. position) CV: set Torakban POS ("label", "Windu Nove", & slide posto , franco, callbook); Inumber of (Slider Rish's) At corectes trackban to the Window mana given Void Collback (int pos, void +); I frame position) * A Simple transformation CV: Gerussian Blun (ampdinge, odpd-inge, CV: Size (5,5) (Standard deviction) or Kennel Size

Scanned by CamScanner

Tront for a Comera
on disk on from a comera.
an disk on from a camera.
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For the former, you give it a path/flement of not be the latter you give it a Common ID
who .
30 of Connected to Soften
b defent is -1, which meen just pick one.
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> Vide write object.
Worker Open ("f. levon: , CV_FOUR((("M', 'J', 'P','G'))
, fes, size)
CV: Size Gisize (width, height)
DA1
Worder K Gare
towns france to the object
capture. onelocose ()
copture. oralectic () close the video file on coptuing device.

1. Cone

The "core section contain all of the basic object types and their basic operations.

2. imaproc

Contains bosic transformations on images, including filters and similar convolutions operators.

3. highgui

This module contains user interface functions that can be used to display Images on take Simple user imput.

4. Video

The video library Contains he functions you need to read and write video, Streams.

5. <u>Calib3d</u>

This module Contains implementations of algorithms you will need to Calibrate Single Comera as will as Sterios on multicomera aways.

6. feature 20

This module Contain algorithms for detections, des cribing, and matching key-point features.

7. Objeletect

This module contains algorithms for detection & specific objects.

E. ML

Contains a wide away of ML algorithm
implemented in such a way as to work
who has made data structure of OpenCV.

9. april
Contains must of the sist of the library functions
optimized for openation on Cupa Gpvs.

10. nonfree

Non need to do some Kind of Special work
in order to use them in a Commercial predut

GH filenamercpp 'pkg-config --libs --cflags opener"

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New Low . Gart sales at . , and .

> (Compiling on Open(V prugnon)