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Face recognition system project pdf download windows 10

Built using dlib's state-of-the-art face recognition built with deep learning. Installing Face Recognition on Windows :Prerequisites:Face Recognition module can only be installed for Python version 3.7 and 3.8.Step 1: Install git for WindowsStep 2: Clone this repository and go inside the folder using the following commandsgit clone cd face_recog_dlib_fileStep 3: Enter the following command to install dlib and cmake using pipPython 3.7: pip install dlib-19.19.0-cp37-cp37m-win_amd64.whl Python 3.8: pip install dlib-19.19.0-cp38-cp38-win_amd64.whlpip install cmakeMethod 1: Using pip to install Face Recognition PackageFollow the below steps to install the Face Recognition package on Windows using pip:Step 1: Install the latest Python3 in Windows Step 2: Check if pip and python are correctly installed.python --version pip --versionStep 3: Upgrade your pip to avoid errors during installation.pip install --upgrade pipStep 4: Enter the following command to install Face Recognition using pip3.pip install face-recognitionMethod 2: Using setup.py to install Face Recognition Follow the below steps to install the Face Recognition on Windows using the setup.py file:Step 1: Download the latest source package of Face Recognition for python3 from here.curl > face_recognition-1.3.0.tar.gzStep 2: Extract the downloaded package using the following command.tar -xzf face_recognition-1.3.0.tar.gzStep 3: Go inside the folder and Enter the following command to install the package.cd face_recognition-1.3.0 python setup.py installVerifying Face Recognition installation on Windows :Make the following import in your python terminal to verify if the installation has been done properly:import face_recognitionIf there is any error while importing the module then is not installed properly. You will get good enough results in most cases, but occasionally the algorithm will identify incorrect objects as faces. Review the other comments and questions, since your questions have probably already been addressed. I changed the parameters and found that setting the scaleFactor to 1.2 got rid of the wrong face. If you get strange unexplainable errors, it could be due to library clashes, 32/64 bit differences, and so on. minSize, meanwhile, gives the size of each window. Have a working webcam so this script can work properly. This is why the scaleFactor had to be modified. The algorithms break the task of identifying the face into thousands of smaller, bite-sized tasks, each of which is easy to solve. I found it easiest to just use a Linux virtual machine and install OpenCV from scratch. Since we are calling it on the face cascade, that's what it detects. Instead of taking hours, face detection can now be done in real time. This loads the face cascade into memory so it's ready for use. Though the theory may sound complicated, in practice it is quite easy. Since some faces may be closer to the camera, they would appear bigger than the faces in the back. ... Is this a face?" Since there are 6,000 or more tests per block, you might have millions of calculations to do, which will grind your computer to a halt. The first option is the grayscale image. The algorithm may have 30 to 50 of these stages or cascades, and it will only detect a face if all stages pass. # Get user supplied values imagePath = sys.argv[1] cascPath = sys.argv[2] You first pass in the image and cascade names as command-line arguments. Grab the face detect.py script, the abba.png pic, and the haarcascade_frontalface_default.xml. OpenCV is the most popular library for computer vision. Well, the first photo was taken fairly close up with a high quality camera. Thank you. # Create the haar cascade faceCascade = cv2.CascadeClassifier(cascPath) Now we create the cascade and initialize it with our face cascade. Next, we will loop over where it thinks it found something. Weather Live tiles display real-time updates for email, weather, and more, giving immediate context without having to dive into a web page or widget.Social The new social app corrals your fragmented networks-Facebook, Twitter, LinkedIn-into one simple hub of status updates.Store The Windows Store promises to let users download and install tons of third-party apps (including Netflix and eBay) as easily as on an iPhone.Xbox Live The Xbox SmartGlass app will connect tablets and smartphones to TVs, letting users interact with content and turning mobile devices into remote controls.Live The mail app features a stripped-down interface that's minimalist to the core: less clutter, more content.Maps Tired of opening your browser, jumping to Google Maps, and looking for directions? What's a cascade? The detection algorithm uses a moving window to detect objects. For example, if you run a banana shop and want to track people stealing bananas, this guy has built one for that! First, you need to find the correct setup file for your operating system. The second is the scaleFactor. Let's test against the ABBA photo: \$ python face_detect.py abba.png haarcascade_frontalface_default.xml That worked. Be warned though that since this is based on machine learning, the results will never be 100% accurate. I will also cover machine learning, for those who are interested in it. print "Found {0} faces!".format(len(faces)) # Draw a rectangle around the faces for (x, y, w, h) in faces: cv2.rectangle(image, (x, y), (x+w, y+h), (0, 255, 0), 2) This function returns 4 values: the x and y location of the rectangle, and the rectangle's width and height (w, h). ... Is this a face? We'll use the ABBA image as well as the default cascade for detecting faces provided by OpenCV. For something like a face, you might have 6,000 or more classifiers, all of which must match for a face to be detected (within error limits, of course). The advantage is that the majority of the picture will return a negative during the first few stages, which means the algorithm won't waste time testing all 6,000 features on it. The second one seems to have been taken from afar and possibly with a mobile phone. Originally written in C/C++, it now provides bindings for Python. In real life, you would experiment with different values for the window size, scale factor, and so on until you found one that works best for you. The scale factor compensates for this. But therein lies the problem: for face detection, the algorithm starts at the top left of a picture and moves down across small blocks of data, looking at each block, constantly asking, "Is this a face? Recognize and manipulate faces from Python or from the command line with the world's simplest face recognition library. What if you want to use a webcam? There are even cascades for non-human things. These tasks are also called classifiers. OpenCV grabs each frame from the webcam, and you can then detect faces by processing each frame. In this article, we'll look at a surprisingly simple way to get started with face recognition using Python and the open source library OpenCV. The cascades themselves are just a bunch of XML files that contain OpenCV data used to detect objects. Many operations in OpenCV are done in grayscale. You initialize your code with the cascade you want, and then it does the work for you. Let's break down the actual code, which you can download from the repo. Windows 8 gets you there with one click. The final code can be found here. You must understand what the code does, not only to run it properly but also to troubleshoot it. Since face detection is such a common case, OpenCV comes with a number of built-in cascades for detecting everything from faces to eyes to hands to legs. cv2.imshow("Faces found", image) cv2.waitKey(0) In the end, we display the image and wait for the user to press a key. Because faces are so complicated, there isn't one simple test that will tell you if it found a face or not. I found that installing OpenCV was the hardest part of the task. Make sure to use OpenCV v2. Note: I took commonly used values for these fields. OpenCV uses machine learning algorithms to search for faces within a picture. As I said, you'll have to set up the algorithm on a case-by-case basis to avoid false positives. You will need a powerful computer, but my five-year-old laptop seems to cope fine, as long as I don't dance around too much. Before you ask any questions in the comments section: Do not skip the article and just try to run the code. If that passes, it does a slightly more detailed test, and so on. I will be covering this and more in my upcoming book Python for Science and Engineering, which is currently on Kickstarter. The best answer can be found in the dictionary: "a waterfall or series of waterfalls." Like a series of waterfalls, the OpenCV cascade breaks the problem of detecting faces into multiple stages. Thanks! Master Real-World Python Skills With Unlimited Access to Real Python Join us and get access to hundreds of tutorials, hands-on video courses, and a community of expert Pythonistas: Level Up Your Python Skills » Master Real-World Python SkillsWith Unlimited Access to Real Python Join us and get access to hundreds of tutorials, hands-on video courses, and a community of expert Pythonistas: Level Up Your Python Skills » In this article, we will learn how to install Face Recognition in Python on Windows. Once you have completed the installation, you can test whether or not it works by firing up a Python session and typing: If you don't get any errors, you can move on to the next part. The function returns a list of rectangles in which it believes it found a face. Let's try again. minNeighbors defines how many objects are detected near the current one before it declares the face found. How about another photo: That ... is not a face. For each block, it does a very rough and quick test. Instead, there are thousands of small patterns and features that must be matched. We use these values to draw a rectangle using the built-in rectangle() function. # Read the image image = cv2.imread(imagePath) gray = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY) Here we read the image and convert it to grayscale. # Detect faces in the image faces = faceCascade.detectMultiScale(gray, scaleFactor=1.1, minNeighbors=5, minSize=(30, 30), flags = cv2.CV_HAAR_SCALE_IMAGE) This function detects the actual face and is the key part of our code, so let's go over the options: The detectMultiScale function is a general function that detects objects. To get around this, OpenCV uses cascades. Note: Also check out our updated tutorial on face detection using Python. Remember, the cascade is just an XML file that contains the data to detect faces.

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