

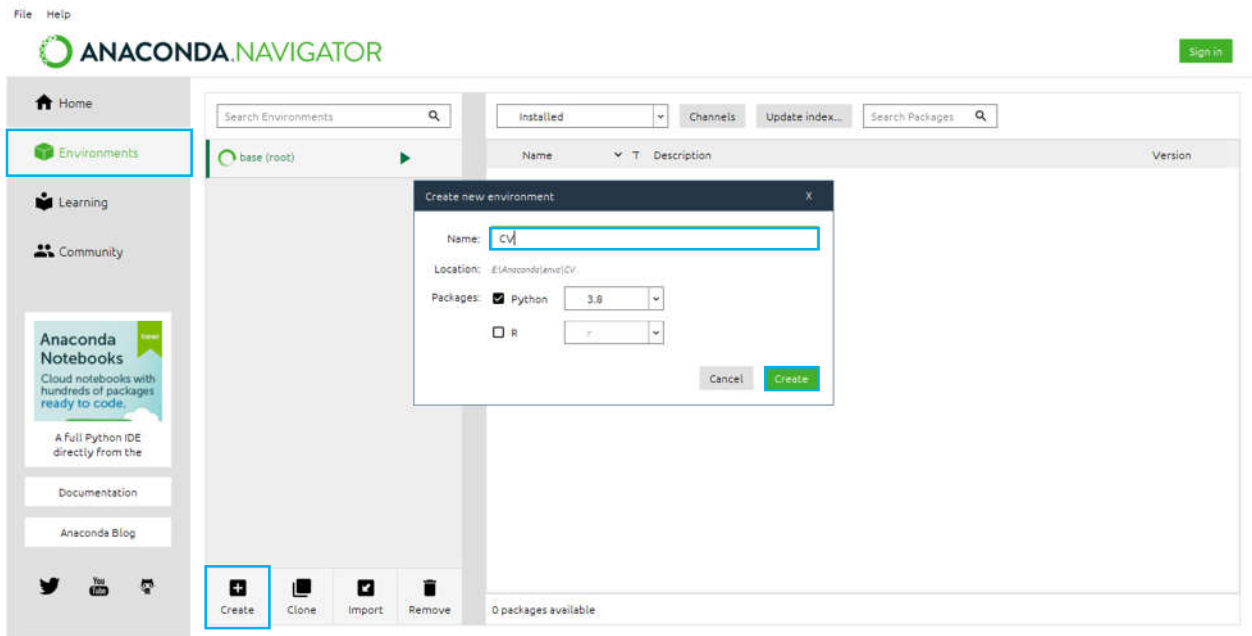
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Kelas : Jumatec

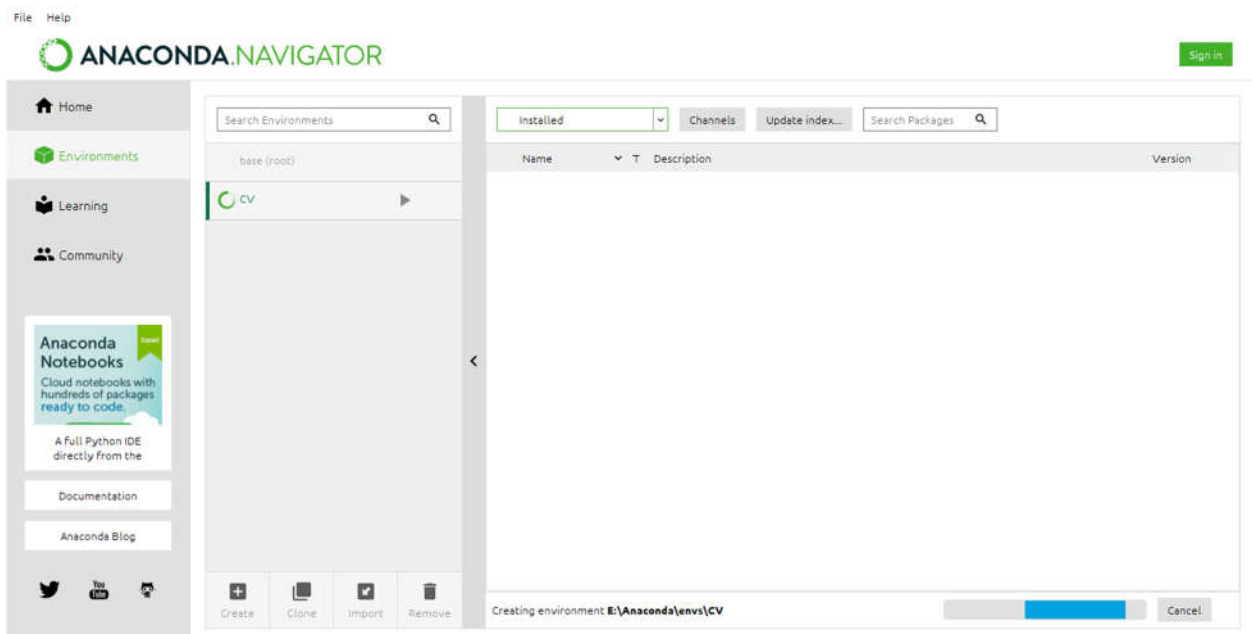
## Review Materi 1 Computer Vision

### a) Membuat environment baru di python

- Buka anaconda navigator
- Pilih environment, kemudian create, masukkan nama environment nya, misalkan “CV” dan klik enter



- Tunggu sampai proses pembuatan selesai



- b) Install semua library yang ada dalam file README.md
- Buka Anaconda Prompt

```
Anaconda Prompt (Anaconda)

(base) C:\Users\LENOVO>
```

- Aktifkan environment yang sudah dibuat

```
Anaconda Prompt (Anaconda)

(base) C:\Users\LENOVO>activate CV

(CV) C:\Users\LENOVO>
```

- Instal opencv dengan mengetikkan “pip install opencv-python”

```
Anaconda Prompt (Anaconda) - pip install opencv-python

(base) C:\Users\LENOVO>activate CV

(CV) C:\Users\LENOVO>pip install opencv-python
Collecting opencv-python
  Downloading opencv_python-4.6.0.66-cp36-abi3-win_amd64.whl (35.6 MB)
    - 1.6/35.6 MB 211.5 kB/s eta 0:02:41
```

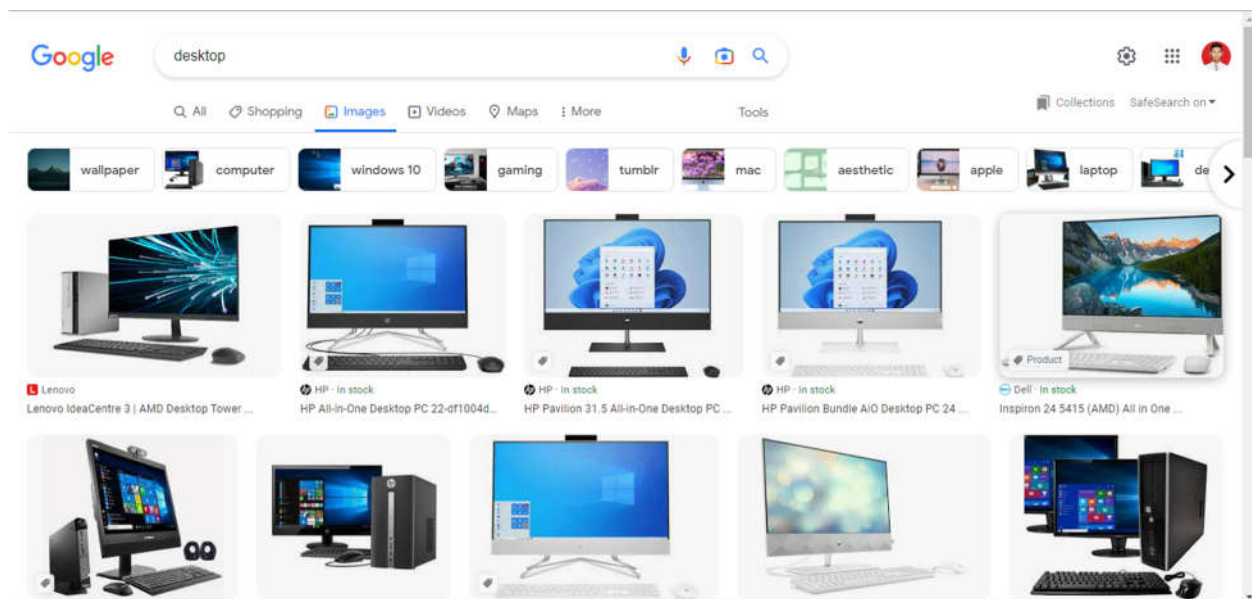
- Kemudian menginstal requests dengan mengetikkan “pip install requests”

```
(CV) C:\Users\LENOVO>pip install requests
Collecting requests
  Using cached requests-2.28.1-py3-none-any.whl (62 kB)
Collecting urllib3<1.27,>=1.21.1
  Using cached urllib3-1.26.12-py2.py3-none-any.whl (140 kB)
Collecting idna<4,>=2.5
  Downloading idna-3.4-py3-none-any.whl (61 kB)
----- 61.5/61.5 kB 32.2 kB/s eta 0:00:00
Requirement already satisfied: certifi>=2017.4.17 in e:\anaconda\envs\cv\lib\site-packages (from requests) (2022.9.24)
Collecting charset-normalizer<3,>=2
```

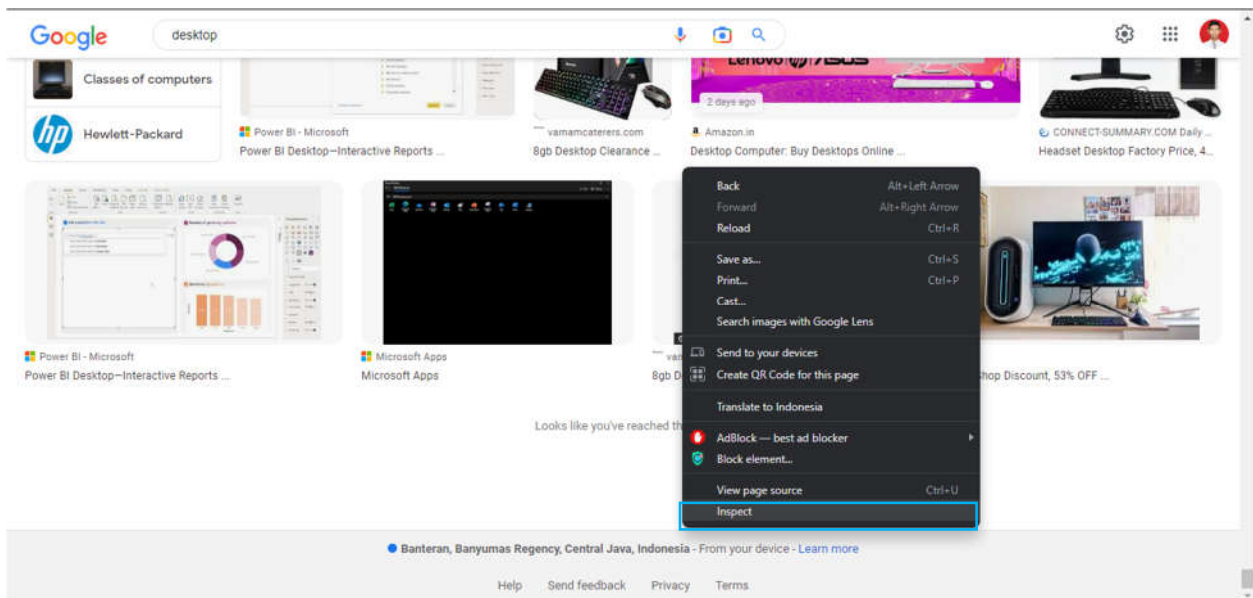
- Instal library imutils, ketik “pip install imutils”

```
(CV) C:\Users\LENOVO>pip install imutils
Collecting imutils
  Downloading imutils-0.5.4.tar.gz (17 kB)
  Preparing metadata (setup.py) ... done
Building wheels for collected packages: imutils
  Building wheel for imutils (setup.py) ... /_
```

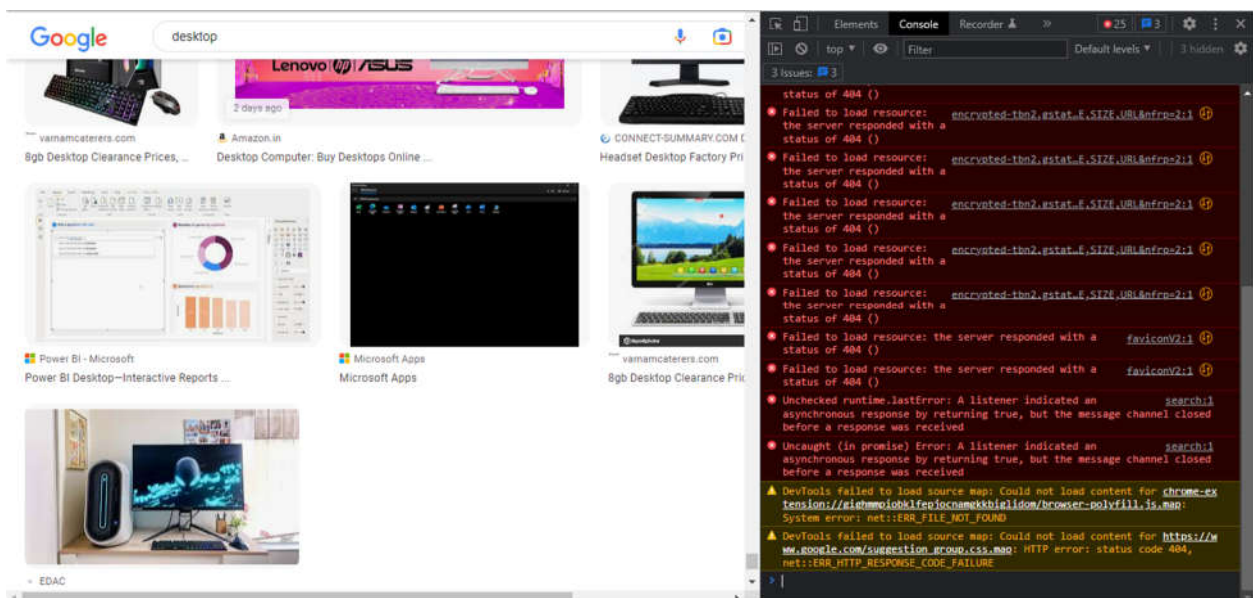
- Cari gambar yang diinginkan hanya melalui image.google.com



- Scroll sampai ke paling bawah, klik kanan, pilih inspect



- Pilih console

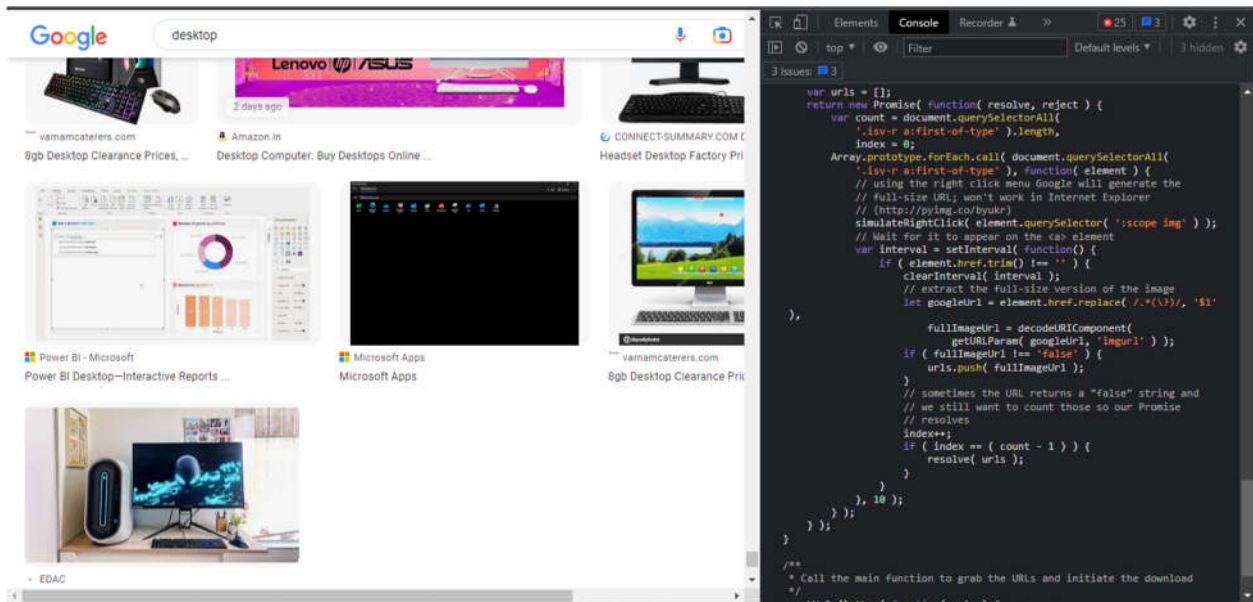


- Copykan code yang ada di js\_code.js ke console

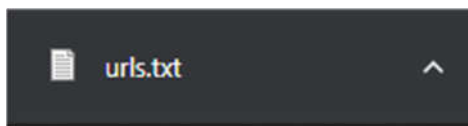
```

1
2
3 /*
4  referensi: https://www.pyimagesearch.com/2017/12/04/how-to-create-a-deep-learning-dataset-using-google-images/
5
6  Cara mendapatkan urls.txt
7  1. Buka google chrome image
8  2. Cari gambar yang ingin di download
9  3. Scroll sampai bawah
10 4. Buka dev tools chrome dengan cara, klik titik 3 di pojok kanan atas, lalu pilih more tools, dan klik
11  Developer tools
12 5. Pilih console
13 6. Lalu paste kode js dibawah ini
14 7. Tunggu sampai teks file urls.txt ter-downloads
15 */
16
17 /**
18  * simulate a right-click event so we can grab the image URL using the
19  * context menu alleviating the need to navigate to another page
20  *
21  * attributed to @jmiserez: http://pyimg.co/9qe7y
22  *
23  * @param {object} element DOM Element
24  *
25  * @return {void}
26  */
27 function simulateRightClick( element ) {
28     var event1 = new MouseEvent( 'mousedown', {
29         bubbles: true,
30         cancelable: false,
31         view: window,

```

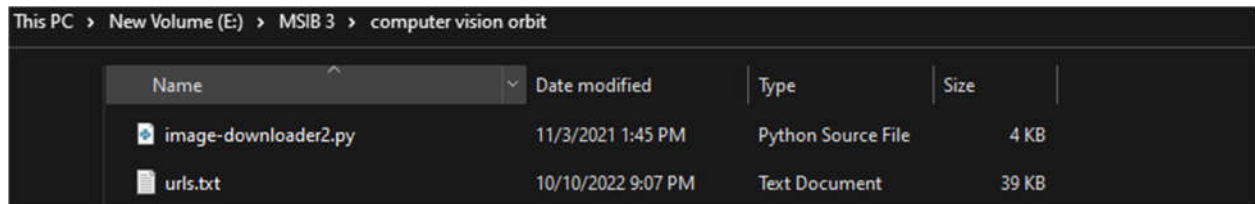


- Klik enter pada keyboard, kemudian akan mendownload

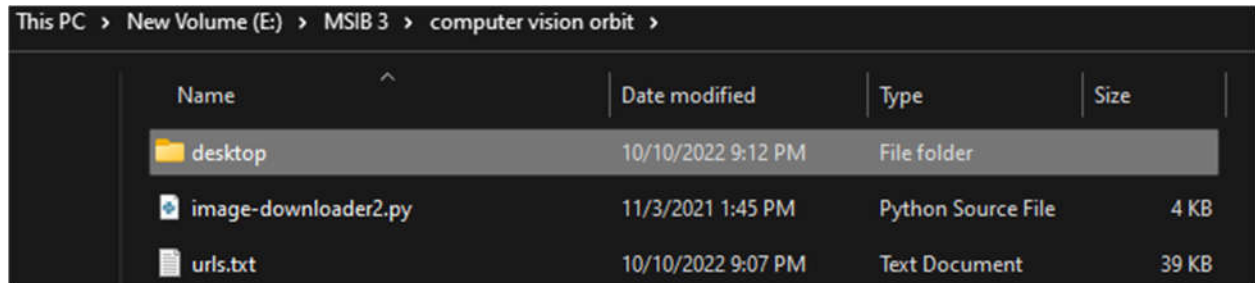




- Pindahkan file tersebut dan image-downloader2.py ke dalam folder sama



- Buat folder baru dengan nama “desktop”



- Buka Anaconda Prompt, masuk ke folder computer vision orbit, kemudian aktifkan environment yang sudah dibuat sebelumnya

```
(CV) E:\MSIB 3\computer vision orbit>_
```

- Ketikkan code “python image-downloader2.py -u urls.txt -o desktop”

```
(CV) E:\MSIB 3\computer vision orbit>python image-downloader2.py -u urls.txt -o desktop_
```

- Klik enter untuk mendownload gambar

```
(CV) E:\MSIB 3\computer vision orbit>python image-downloader2.py -u urls.txt -o desktop
image-downloader2.py:59: DeprecationWarning: The binary mode of fromstring is deprecated, as it behaves surprisingly on unicode inputs. Use frombuffer instead
  nparr = np.fromstring(data, np.uint8)
```

