pilpres2014

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python based code to download C1 form to support transparency of Indonesia President election.

How to use :

1. Determine your Operating System, either Windows, Mac OS X or Linux/\*nix.
2. Download python 2.7.x for your OS, not 3.x !

Python for windows : <https://www.python.org/ftp/python/2.7.8/python-2.7.8.msi>

Python for Mac OS X : <https://www.python.org/download/releases/2.7.8/>

Python for Linux/\*nix : [https://www.python.org/download/releases/2.7.8/](https://www.python.org/download/releases/2.7.8/%22)

Windows Operating System

1. Setup environment for Python : instruction : [http://docs.python-guide.org/en/latest/starting/install/win/](http://docs.python-guide.org/en/latest/starting/install/win/%20) or here are the summaries for windows OS :
2. Install the downloaded installer by double click the installer file. The file should look like this : python**-2.7.8.msi**.
3. follow on-screen instruction, use the default configuration.
4. open your command prompt by : hit [window button]+R at the same time. A RUN dialog box will appears, type 'cmd' and hit ENTER.
5. command prompt dialog box will appears.
6. type the following : ‘set PATH=%PATH%;C:\xampp\php;C:\Python27\;C:\Python27\Scripts\’ and hit ENTER

type ‘path’ and see the result. If you see c:\python27\ or c:\python27\scripts, then it works.

1. type 'python' and hit ENTER. if you see the following output that mean you have successfully install python. Yeaayy! Now you can go to step h.

Python 2.7.6 (default, Nov 10 2013, 19:24:18) [MSC v.1500 32 bit (Intel)] on win32

Type "help", "copyright", "credits" or "license" for more information.

>>>

If you do not see that message, do not be scare, we could use another way to run the script.

1. if you do not see that message, make sure that you have to go to python directory in order to run PYTHON. here's how to do it: in command prompt, type 'cd c:\python27\'. if you prompt look like : "c:\Python27>", then you are on the right track, otherwise, make sure python27 is the same directory which you entered in the installation process.
2. download these files and save it to your python directory :

* ez\_setup.py : <https://bitbucket.org/pypa/setuptools/raw/bootstrap/ez_setup.py>

get-pip.py : <https://raw.github.com/pypa/pip/master/contrib/get-pip.py>

run these file in your current directory or "cd c:\Python27\" :

1. type 'python ez\_setup.py' and hit ENTER

2. type 'python get-pip.py' and hit ENTER

once done, you may continue to the next step.

1. Create virtual environment for python. here is how to do it: in command prompt, at python27 directory, type 'pip install virtualenv'.
2. In ‘c:\Python27\’ , type ‘virtualenv venv’, it will creates venv folder under c:\python27\
3. once virtual environment has been installed, enter the virtual env by :

type 'cd c:\Python27\venv\scripts' and hit ENTER

type 'activate' and hit ENTER

if you see this output, you are in the right track:

(venv) c:\Python27\venv\Scripts>

1. install supporting tools to run pilpres2014 code. In '(venv) c:\Python27\venv\Scripts>' :

type 'easy\_install pycurl' and hit ENTER

type 'easy\_install beautifulsoup4' and hit ENTER

if these file installed, then you are ready to go.

1. download pilpres2014 file :

download-per-propinsi.py : <https://github.com/tandhy/pilpres2014/blob/master/download-per-propinsi.py>

download-semua-c1.py : <https://github.com/tandhy/pilpres2014/blob/master/download-semua-c1.py> by copy all codes from line 1 all the way to the end, and paste into notepad.

Save them as ‘download-per-propinsi.py’ and ‘download-semua-c1.py’ to 'c:\python27\venv'

1. before start to download, please modify the save path inside each file. In the file, I save it to drive F: under pilpres2014 folder : f:/pilpres2014, therefore I need to create a new folder, I named it 'pilpres2014' in drive F:. You may change the drive letter and the folder name.

So, open the file, either download-semua-c1.py or download-per-propinsi.py. Right click on the file, choose "open with...", select or find notepad. Once the file opened, find 'savePath', it sits after 'import xxx' line.

eg. if you want to save it to z:\pemilu2014, create the folder and modify savePath to 'z:/pemilu2014'. So it will looks like this: savePath = "z:/pemilu2014". Make sure to use ‘/’ instead of ‘\’ for windows users.

1. if you want to download all C1, in '(venv) c:\Python27\venv\Scripts>', type 'python download-semua-c1.py' and hit ENTER.

it will creates propinsi folder, kabupaten folder, kecamatan folder and kelurahan folder under the savePath folder. The scanned c1 will be formatted into : tpsNo-tpsID-imageID.jpg.

The same way works if you want to download by propinsi. But you need to modify another line. Open the ‘download-per-propinsi.py’ with your notepad and find the propinsi you’d like to download.

#prop = {'kode': '1', 'nama': 'ACEH'}

#prop = {'kode': '6728', 'nama': 'SUMATERA UTARA'}

#prop = {'kode': '12920', 'nama': 'SUMATERA BARAT'}

#prop = {'kode': '14086', 'nama': 'RIAU'}

#prop = {'kode': '15885', 'nama': 'JAMBI'}

#prop = {'kode': '17404', 'nama': 'SUMATERA SELATAN'}

#prop = {'kode': '20802', 'nama': 'BENGKULU'}

#prop = {'kode': '22328', 'nama': 'LAMPUNG'}

#prop = {'kode': '24993', 'nama': 'KEPULAUAN BANGKA BELITUNG'}

#prop = {'kode': '25405', 'nama': 'KEPULAUAN RIAU'}

#prop = {'kode': '25823', 'nama': 'DKI JAKARTA'}

#prop = {'kode': '26141', 'nama': 'JAWA BARAT'}

#prop = {'kode': '32676', 'nama': 'JAWA TENGAH'}

#prop = {'kode': '41863', 'nama': 'DAERAH ISTIMEWA YOGYAKARTA'}

#prop = {'kode': '42385', 'nama': 'JAWA TIMUR'}

#prop = {'kode': '51578', 'nama': 'BANTEN'}

#prop = {'kode': '53241', 'nama': 'BALI'}

#prop = {'kode': '54020', 'nama': 'NUSA TENGGARA BARAT'}

#prop = {'kode': '55065', 'nama': 'NUSA TENGGARA TIMUR'}

#prop = {'kode': '58285', 'nama': 'KALIMANTAN BARAT'}

prop = {'kode': '60371', 'nama': 'KALIMANTAN TENGAH'}

#prop = {'kode': '61965', 'nama': 'KALIMANTAN SELATAN'}

#prop = {'kode': '64111', 'nama': 'KALIMANTAN TIMUR'}

#prop = {'kode': '65702', 'nama': 'SULAWESI UTARA'}

If you want to download RIAU, Remove ‘#’ in the beginning of the line :

#prop = {'kode': '14086', 'nama': 'RIAU'}

So it will looks like this :

prop = {'kode': '14086', 'nama': 'RIAU'}

Do not forget to add ‘#’ to the others so there’d be only 1 line without ‘#’

Run the script by type : ‘python download-per-propinsi.py’

Instruksi utk apabila skrip timeout, hang atau diam seribu bahasa:

1. tekan control-C atau di tutup saja command prompt dialog.
2. Klik start button/windows logo, ketik ‘cmd’ and hit ENTER.
3. Type ‘cd c:\python27\scripts\venv\scripts’ or ‘cd c:\python27\venv\scripts’
4. Type ‘activate’
5. Type ‘cd ..’
6. Type ‘python download-per-propinsi.py’

Seharusnya sudah langsung jalan. Foldernya disesuaikan pas instalasi ya.

OS X Operating System

1. By default, OSX has python pre-installed, to make sure, open ‘terminal’ by hit apple button + space, it will shows spotlight, then type ‘terminal’ and hit ENTER. A new dialog will pop up.
2. In the prompt, mine is “tandhy-macbook$”, type python and hit ENTER. If you see the following, it means python has been installed.

Tandhy-MacBook-2 tandhy$ **python**

Python 2.7.1 (r271:86832, Jun 16 2011, 16:59:05)

[GCC 4.2.1 (Based on Apple Inc. build 5658) (LLVM build 2335.15.00)] on darwin

Type "help", "copyright", "credits" or "license" for more information.

>>>

1. Now, type exit() to get out from the application. The only remaining task is installing the required tools. Type ‘which python’ and hit ENTER. It shows :

Tandhy-MacBook-2:htdocs tandhy$ which python

/usr/bin/python

1. Go to that folder by typing ‘cd /usr/bin/python’ and hit ENTER. If the above path is different, just follow the one that in your screen. Replace ‘/usr/bin/python’ with your path.
2. Now we are going to install first tool, by typing ‘easy\_install virtualenv’. Hit ENTER. It will shows process, wait until finished.
3. Once it finished, take a good look on the last few lines, it probably looks like this:

Installed /Library/Python/2.7/site-packages/virtualenv-1.11.6-py2.7.egg

Processing dependencies for virtualenv

Finished processing dependencies for virtualenv

1. Check out the line with red color. We need to go to that directory. It may different with yours, just replace the red color with yours. Type ‘cd /Library/Python/2.7’ and hit ENTER.
2. Run first tool by typing ‘sudo virtualenv venv’ and hit ENTER. You need to enter the password. Wait until process is finished.
3. now, we go to 2nd tool, type ‘sudo pip install pycurl’ or ‘sudo easy\_install pycurl’ and hit ENTER.
4. Once it finished, type ‘pip freeze’ and hit ENTER. It allows you to check whether pycurl and beautifulsoup4 has been installed. The output should be like this:
5. D
6. D
7. D
8. If the following error shows :

ImportError: pycurl: libcurl link-time ssl backend (openssl) is different from compile-time ssl backend (none/other)

You need to uninstall pycurl

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