Python Environment Setup on `Windows`

1. Install Package Manager

- [Chocolate](#)

It is the `package manager` for windows. Following the install step on the website to install it.

```
C:\Windows\system32>choco
Chocolatey v0.10.13
Please run 'choco -?' or 'choco <command> -?' for help menu.

C:\Windows\system32>
```

2. Install More Handy Terminal

- [ConEmu](#)

Using `choco` to install it.

```
> choco install conemu
```

```
C:\Windows\system32>choco install conemu
Chocolatey v0.10.13
Installing the following packages:
conemu
By installing you accept licenses for the packages.
Progress: Downloading ConEmu 19.3.10.0... 100%

ConEmu v19.3.10.0 [Approved]
conemu package files install completed. Performing other installation steps.
The package ConEmu wants to run 'chocolateyInstall.ps1'.
Note: If you don't run this script, the installation will fail.
Note: To confirm automatically next time, use '-y' or consider:
choco feature enable -n allowGlobalConfirmation
Do you want to run the script?([Y]es/[N]o/[P]rint): y

Downloading ConEmu 64 bit
  from 'https://github.com/Maximus5/ConEmu/releases/download/v19.03.10/ConEmuSet
up.190310.exe'
Progress: 100% - Completed download of C:\Users\iec070624\AppData\Local\Temp\cho
colatey\ConEmu\19.3.10.0\ConEmuSetup.190310.exe (6.65 MB).
Download of ConEmuSetup.190310.exe (6.65 MB) completed.
Hashes match.
Installing ConEmu...
ConEmu has been installed.
  conemu may be able to be automatically uninstalled.
  The install of conemu was successful.
  Software installed as 'exe', install location is likely default.

Chocolatey installed 1/1 packages.
  See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).

Enjoy using Chocolatey? Explore more amazing features to take your
experience to the next level at
  https://chocolatey.org/compare

C:\Windows\system32>
```
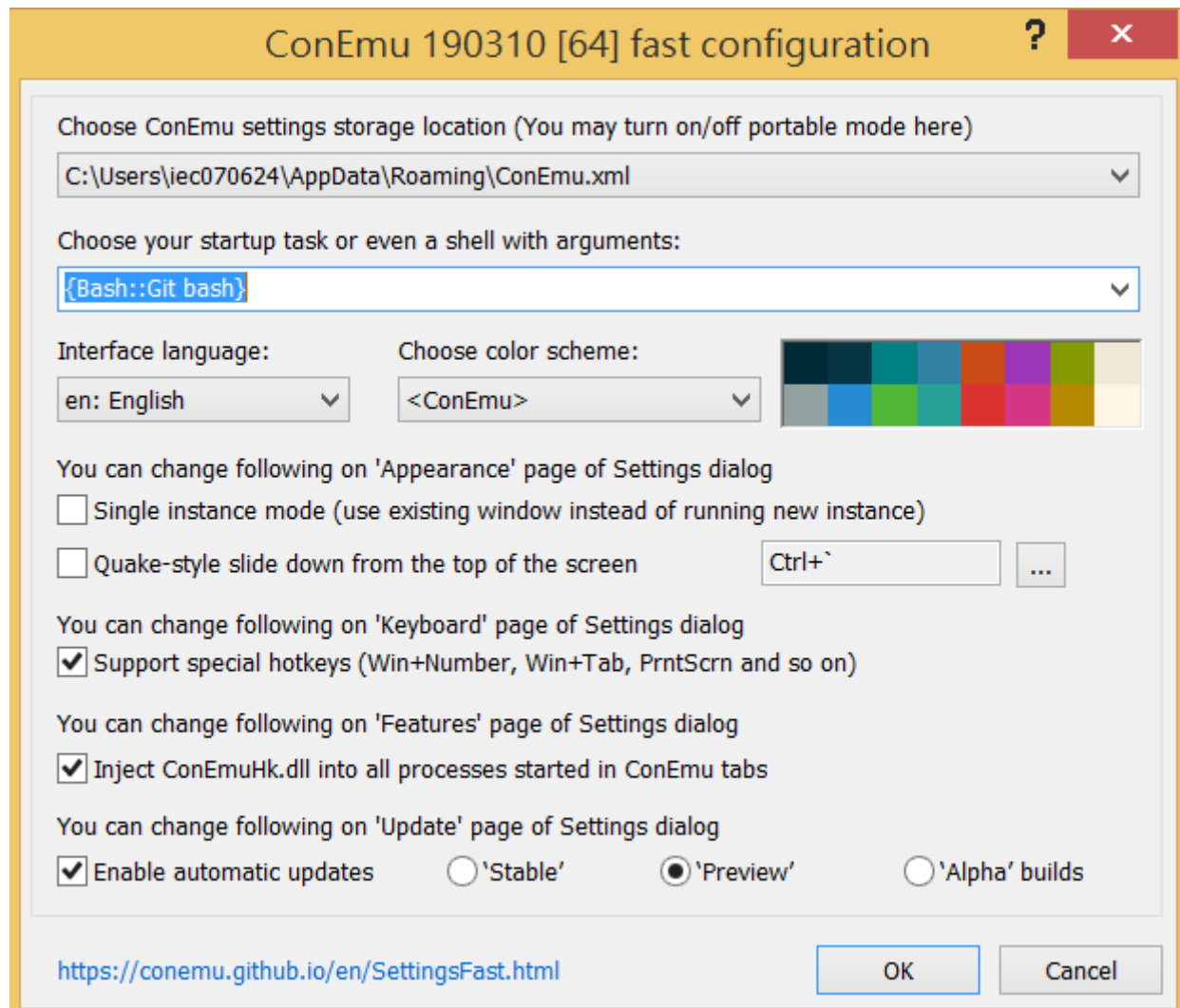
3. Install Git Bash

- Git for Window

  Download and Install it.

4. Open ConEmu

Opening `ConEmu` and choose `git bash`, then you can use `Unix-commands`.

- git bash

5. Install Python3

1. Install Miniconda3

   ```
   $ choco install miniconda3 --params="'/AddToPath:1'"
   ```

   ```
   $ choco install miniconda3 --params="'/AddToPath:1'"
   Chocolatey v0.10.13
   Installing the following packages:
   miniconda3
   By installing you accept licenses for the packages.
   miniconda3 v4.5.12 already installed.
    Use --force to reinstall, specify a version to install, or try upgrade.

   Chocolatey installed 0/1 packages.
    See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).

   Warnings:
    - miniconda3 - miniconda3 v4.5.12 already installed.
    Use --force to reinstall, specify a version to install, or try upgrade.
   ```

   then you can use conda and python

2. If you want to use python3.6

   ```
   $ conda install python=3.6
   ```

   or create a new environment (Recommend)

   ```
   $ conda create --name py36 python=3.6
   ```

```
$ conda create --name py36 python=3.6
Solving environment: ...working... done

## Package Plan ##

  environment location: C:\tools\miniconda3\envs\py36

  added / updated specs:
    - python=3.6


The following packages will be downloaded:

    package                    |                  build
    ---------------------------|-----------------
    setuptools-40.8.0          |           py36_0          664 KB
    wincertstore-0.2           |   py36h7fe50ca_0           13 KB
    python-3.6.8               |       h9f7ef89_7         20.3 MB
    wheel-0.33.1               |           py36_0           57 KB
    certifi-2019.3.9           |           py36_0          156 KB
    pip-19.0.3                 |           py36_0          1.9 MB
    sqlite-3.27.2              |       he774522_0          941 KB
    ------------------------------------------------------------
                                           Total:         24.0 MB

The following NEW packages will be INSTALLED:

    certifi:       2019.3.9-py36_0
    pip:           19.0.3-py36_0
    python:        3.6.8-h9f7ef89_7
    setuptools:    40.8.0-py36_0
    sqlite:        3.27.2-he774522_0
    vc:            14.1-h0510ff6_4
    vs2015_runtime: 14.15.26706-h3a45250_0
    wheel:         0.33.1-py36_0
    wincertstore:  0.2-py36h7fe50ca_0

Proceed ([y]/n)? y
```

```
==> WARNING: A newer version of conda exists. <==
  current version: 4.5.12
  latest version: 4.6.8

Please update conda by running

    $ conda update -n base -c defaults conda


setuptools-40.8.0      | 664 KB    | ########## | 100%
wincertstore-0.2       | 13 KB     | ########## | 100%
python-3.6.8           | 20.3 MB   | ########## | 100%
wheel-0.33.1           | 57 KB     | ########## | 100%
certifi-2019.3.9       | 156 KB    | ########## | 100%
pip-19.0.3             | 1.9 MB    | ########## | 100%
sqlite-3.27.2          | 941 KB    | ########## | 100%
Downloading and Extracting Packages
Preparing transaction: ...working... done
Verifying transaction: ...working... done
Executing transaction: ...working... done

#
# To activate this environment, use:
# > activate py36
#
# To deactivate an active environment, use:
# > deactivate
#
# * for power-users using bash, you must source
#
```

3. Activate the environment of py36

```
$ source activate py36
(py36)
```

```
$ python -i
Python 3.6.8 |Anaconda, Inc.| (default, Feb 21 2019, 18:30:04) [MSC v.1916 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> exit()
(py36)
```

Note:

Because git bash use `MinTTY` that doesn't support interactive operation, If you want to use python interactive shell, you can follow the method as follows

```
$ python -i
```

```
$ python -i
Python 3.7.1 (default, Dec 10 2018, 22:54:23) [MSC v.1915 64 bit (AMD64)] :: Anaconda, Inc. on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> exit()
```