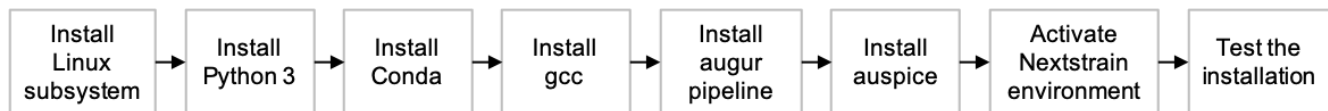


Nextstrain installation

This tutorial is designed to assist you to install nextstrain, and the workflow below explains the main steps to accomplish that. Windows users must install a Linux subsystem first (see step 1).



(1) Nextstrain only operates on UNIX systems (MacOS or Linux). As a workaround, Windows users can install Linux (version Ubuntu) as a subsystem. Access the link below to install and set up Linux on Windows:

<https://nextstrain.org/docs/getting-started/windows-help>

(2) Access the Terminal in your system, and run the commands below to check if Python 3 is installed (see box):

```
python --version
```

If no version information is shown, it means the software is not installed. Please **access** the sites below to install it:

Python3 → <https://www.python.org/downloads/>

(3) While it may be available on MacOS, Linux subsystems may not come with a gcc compiler. Test if gcc is available by typing:

```
gcc --version
```

(4) If this command does not tell you which gcc version is installed, Linux users can install it by typing the commands below, one line at a time (MacOS users, please see note):

```
sudo apt-get update
sudo apt install gcc
gcc --version
```

Note: apt (Advanced Package Tool) is a software used for installing and removing other software in Linux only. MacOS users should use brew instead (type `brew -h` to check if it's installed. If not installed, access <https://brew.sh/>)

```
brew update
brew upgrade
brew install gcc
```

(5) If Python 3 and gcc are now installed, run the commands below, one line at a time, to install augur:

```
python3 -m pip install nextstrain-cli
curl http://data.nextstrain.org/nextstrain.yml --compressed -o nextstrain.yml
conda env create -f nextstrain.yml
```

(6) Activate the nextstrain environment using the command below. It will change the prefix of the command prompt (please see the 'nextstrain' prefix):

```
conda activate nextstrain
```

(7) Now let's install auspice. First, check if npm is available (see box):

```
npm --version
```

If npm is not installed, use the command below to install it:
`sudo apt install nodejs`

(8) With npm installed, you are good to go. Run the following command to install auspice, the software used to visualize the results generated by augur:

```
npm install --global auspice
```

(9) That's it. Now run the commands below to test the software installation. These commands will print information about how to use each software:

```
augur -h  
auspice -h  
nextstrain -h  
conda deactivate
```

All set! 🎉