# Windows Subsystem for Linux installation

In Windows Powershell:

Lxrun /install ✓

# Waf installation & python3.6 configuration

In Windows Powershell:

Bash

cd mnt/c/programs/waf-2.0.13

~~./waf-light configure build~~ python needed?

sudo add-apt-repository ppa:jonathonf/python-3.6 ✓ <https://blog.smallsec.ca/2017/09/07/installing-python3-6-on-wsl/>

sudo apt update ✓

sudo apt install python3.6 python3-pip ✓

sudo -H pip3 install --upgrade pip ✓

sudo -H pip3 install virtualenv virtualenvwrapper ✓

export WORKON\_HOME=$HOME/.virtualenvs ✓ # Environments stored here

export PROJECT\_HOME=/mnt/c/Users/David/python-projects ✓ # Path to your Python projects

export VIRTUALENVWRAPPER\_PYTHON=/usr/bin/python3.6 ✓ # Make Python3 the default

source /usr/local/bin/virtualenvwrapper.sh ✓ # Engage!

~~./waf-light configure build~~ virtual env nicht eingerichtet?

python3 ./waf-light configure build ✓

python3 -m pip install aubio ?

cd /mnt/c/programs/aubio-0.4.7 🡪 python3 ./setup.py build ✓

sudo apt-get install make

sudo apt-get install –reinstall make ✓

# Waf installation

sudo apt install python2.7 ✓ python2.7 needed: <https://waf.io/book/#_getting_the_waf_file>

python2.7 ./waf-light ✓ 'build' finished successfully (3.379s)

cd aubio-0.4.7 🡪 ./scripts/get\_waf.sh ./scripts/get\_waf.sh: line 42: python: command not found

* python2.7 ./waf configure ✓

root@David-THINK:/mnt/c/programs/aubio-0.4.7# python2.7 ./waf configure

Setting top to : /mnt/c/programs/aubio-0.4.7

Setting out to : /mnt/c/programs/aubio-0.4.7/build

Checking for 'gcc' (C compiler) : /usr/bin/gcc

Checking for header stdlib.h : yes

Checking for header stdio.h : yes

Checking for header math.h : yes

Checking for header string.h : yes

Checking for header limits.h : yes

Checking for header stdarg.h : yes

Checking for header getopt.h : yes

Checking for header unistd.h : yes

Checking for library m : yes

Checking for C99 \_\_VA\_ARGS\_\_ macro : yes

Checking for size of smpl\_t : float

Checking for size of lsmp\_t : double

Checking if complex.h is enabled : no

Checking for FFT implementation : ooura

Checking for program 'pkg-config' : not found

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Checking for program 'pkg-config' : not found

Checking for all libav libraries : not found (missing avcodec)

Checking if using source\_wavread : yes

Checking if using sink\_wavwrite : yes

Checking for program 'txt2man' : not found

Checking for program 'doxygen' : not found

Checking for program 'sphinx-build' : not found

'configure' finished successfully (7.632s)

# Pd-aubio installation

~~python make  
python2.7 make~~

cd /mnt/c/programs/aubio-0.4.7

pip install -e ./ ✓

cd /mnt/c/programs/pd-aubio-0.4

~~python2.7 ./waf install~~

~~python2.7 ./waf configure~~ Checking for header m\_pd.h : not found

apt install apt-file

apt-file update

apt install pkg-config

apt install text2man

apt install doxygen

~~apt install sphinx-build~~ E: Unable to locate package sphinx-build

C:\Program Files (x86)\PureData\src\ zu PATH hinzugefügt

apt-file search m\_pd.h puredata-dev: /usr/include/m\_pd.h

PATH=$PATH:~/usr/include/

root@David-THINK:/mnt/c/programs/pd-aubio-0.4# python2.7 ./waf configure

PATH=$PATH:/usr/include

PATH=$PATH:/mnt/c/PROGRA~2/PureData/src

m\_pd.h in C:\Ubuntu1604\rootfs\usr\include kopiert

~~./waf configure~~

Apt-install libasound2-dev

Apt-get install puredata unable to install new version of '/usr/include/m\_pd.h': File exists  
Errors were encountered while processing:  
/var/cache/apt/archives/puredata-dev\_0.46.7-3\_all.deb  
E: Sub-process /usr/bin/dpkg returned an error code (1)

m\_pd.h aus C:\Ubuntu1604\rootfs\usr\include entfernt

apt-get install puredata puredata is already the newest version (0.46.7-3).  
puredata : Depends: puredata-dev but it is not going to be installed  
E: Unmet dependencies. Try 'apt-get -f install' with no packages (or specify a solution).

apt-get install puredata-dev ✓

root@David-THINK:/mnt/c/programs/pd-aubio-0.4#

python2.7 ./waf configure Checking for header m\_pd.h : yes  
Checking for program pkg-config : /usr/bin/pkg-config  
Checking for 'aubio' >= 0.4.0 : not found

root@David-THINK:/mnt/c/programs/aubio-0.4.7# python2.7 ./waf install ✓ 'install' finished successfully (15.381s)

root@David-THINK:/mnt/c/programs/pd-aubio-0.4# python2.7 ./waf configure ✓ 'configure' finished successfully (0.454s)

root@David-THINK:/mnt/c/programs/pd-aubio-0.4# python2.7 ./waf install ✓ 'install' finished successfully (0.865s)

pd -lib aubio application-specific initialization failed: no display name and no $DISPLAY environment variable

🡪 pd per Kommandozeile in Windows öffnen?

Aubio ohne Windows Subsystem for Linux installieren:

Eingabeaufforderung als Administrator öffnen:

@"%SystemRoot%\System32\WindowsPowerShell\v1.0\powershell.exe" -NoProfile -InputFormat None -ExecutionPolicy Bypass -Command "iex ((New-Object System.Net.WebClient).DownloadString('https://chocolatey.org/install.ps1'))" && SET "PATH=%PATH%;%ALLUSERSPROFILE%\chocolatey\bin"

(neustarten als Administrator)

powershell

choco install puredata ✓

choco install make

c:\Users\David\python\python2.7>choco install python --version 2.7.2  
PATH environment variable does not have C:\Python27 in it. Adding...  
Environment Vars (like PATH) have changed. Close/reopen your shell to see the changes (or in powershell/cmd.exe just type refreshenv`). The install of python was successful.

* installiere python2.7
* entferne python3.7 aus PATH
* **benenne C:\Users\David\AppData\Local\Programs\Python\Python37-32\python.exe in C:\Users\David\AppData\Local\Programs\Python\Python37-32\python.exe\_ !!!**

c:\Program Files\Pd\extra\pd-aubio-0.4>python waf configure  
msvc and gcc not found

*how to add a lib to puredata?*

*installiere python2.7 in virtual env in windows 🡪 ./waf config unter windows?*