

● TROUBLE SHOOTING ● Wav2Lip 환경 설정

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```
pip install -r requirements.txt
```

- Apple Silicon 에서는 python 3.8 미만 버전 설치 불가

1 python 3.8 가상환경 (FAIL)

```
(w2ienv) jubi@Joohyunui-MacBookPro Wav2Lip % pip install -r requirements.txt
Collecting librosa==0.7.0 (from -r requirements.txt (line 1))
  Downloading librosa-0.7.0.tar.gz (1.6 MB)
    Preparing metadata (setup.py) ... done
Collecting numpy==1.17.1 (from -r requirements.txt (line 2))
  Downloading numpy-1.17.1.zip (6.5 MB)
    Preparing metadata (setup.py) ... done
Collecting opencv-contrib-python==4.2.0.34 (from -r requirements.txt (line 3))
  Downloading opencv_contrib_python-4.9.0.80-cp37-abi3-macosx_11_0_arm64.whl.metadata (20 kB)
ERROR: Ignored the following yanked versions: 3.4.11.39
ERROR: Ignored the following versions that require a different python version: 1.25.0 Requires-Python >=3.9; 1.25.0rc1 Requires-Python >=3.9; 1.25.1 Requires-Python >=3.9; 1.25.2 Requires-Python >=3.9; 1.26.0 Requires-Python <3.13,>=3.9; 1.26.0b1 Requires-Python <3.13,>=3.9; 1.26.0rc1 Requires-Python <3.13,>=3.9; 1.26.1 Requires-Python <3.13,>=3.9; 1.26.2 Requires-Python >=3.9; 1.26.3 Requires-Python >=3.9
ERROR: Could not find a version that satisfies the requirement opencv-python==4.1.0.25 (from versions: 3.4.0.14, 3.4.10.37, 3.4.11.41, 3.4.11.43, 3.4.11.45, 3.4.13.47, 3.4.15.55, 3.4.16.57, 3.4.16.59, 3.4.17.61, 3.4.17.63, 3.4.18.65, 4.3.0.38, 4.4.0.40, 4.4.0.42, 4.4.0.44, 4.4.0.46, 4.5.1.48, 4.5.3.56, 4.5.4.58, 4.5.4.60, 4.5.5.62, 4.5.5.64, 4.6.0.66, 4.7.0.68, 4.7.0.72, 4.8.0.74, 4.8.0.76, 4.8.1.78, 4.9.0.80)
ERROR: No matching distribution found for opencv-python==4.1.0.25
```

● ERROR MESSAGE ●

Downloading opencv_contrib_python-4.9.0.80-cp37-abi3-macosx_11_0_arm64.whl.metadata (20 kB)

ERROR: Ignored the following yanked versions: 3.4.11.39

ERROR: Ignored the following versions that require a different python version: 1.25.0 Requires-Python >=3.9; 1.25.0rc1 Requires-Python >=3.9; 1.25.1 Requires-Python >=3.9; 1.25.2 Requires-Python >=3.9; 1.26.0 Requires-Python <3.13,>=3.9; 1.26.0b1 Requires-Python <3.13,>=3.9; 1.26.0rc1 Requires-Python <3.13,>=3.9; 1.26.1 Requires-Python <3.13,>=3.9; 1.26.2 Requires-Python >=3.9; 1.26.3 Requires-Python >=3.9

ERROR: Could not find a version that satisfies the requirement opencv-python==4.1.0.25 (from versions: 3.4.0.14, 3.4.10.37, 3.4.11.41, 3.4.11.43, 3.4.11.45, 3.4.13.47, 3.4.15.55, 3.4.16.57, 3.4.16.59, 3.4.17.61, 3.4.17.63, 3.4.18.65, 4.3.0.38, 4.4.0.40, 4.4.0.42, 4.4.0.44, 4.4.0.46, 4.5.1.48, 4.5.3.56, 4.5.4.58, 4.5.4.60, 4.5.5.62, 4.5.5.64, 4.6.0.66, 4.7.0.68, 4.7.0.72, 4.8.0.74, 4.8.0.76, 4.8.1.78, 4.9.0.80)

ERROR: No matching distribution found for opencv-python==4.1.0.25

2 Python 3.9 가상환경 (FAIL)

```
(w2ienv2) jubi@Joohyunui-MacBookPro Wav2Lip % pip install -r requirements.txt
Collecting librosa==0.7.0 (from -r requirements.txt (line 1))
  Using cached librosa-0.7.0.tar.gz (1.6 MB)
    Preparing metadata (setup.py) ... done
Collecting numpy==1.17.1 (from -r requirements.txt (line 2))
  Using cached numpy-1.17.1.zip (6.5 MB)
    Preparing metadata (setup.py) ... done
Collecting opencv-contrib-python==4.2.0.34 (from -r requirements.txt (line 3))
  Using cached opencv_contrib_python-4.9.0.80-cp37-abi3-macosx_11_0_arm64.whl.metadata (20 kB)
ERROR: Ignored the following yanked versions: 3.4.11.39
ERROR: Could not find a version that satisfies the requirement opencv-python==4.1.0.25 (from versions: 3.4.0.14, 3.4.10.37, 3.4.11.41, 3.4.11.43, 3.4.11.45, 3.4.13.47, 3.4.15.55, 3.4.16.57, 3.4.16.59, 3.4.17.61, 3.4.17.63, 3.4.18.65, 4.3.0.38, 4.4.0.40, 4.4.0.42, 4.4.0.44, 4.4.0.46, 4.5.1.48, 4.5.3.56, 4.5.4.58, 4.5.4.60, 4.5.5.62, 4.5.5.64, 4.6.0.66, 4.7.0.68, 4.7.0.72, 4.8.0.74, 4.8.0.76, 4.8.1.78, 4.9.0.80)
ERROR: No matching distribution found for opencv-python==4.1.0.25
```

3 Python 3.9 & opencv-python 4.3.0.38 (FAIL)

- 수정 전 : opencv-python==4.1.0.25
- 수정 후 : opencv-python==4.3.0.38

```

[(w2lenv2) jubi@Joohyunui-MacBookPro Wav2Lip % pip install -r requirements.txt
Collecting librosa==0.7.0 (from -r requirements.txt (line 1))
  Using cached librosa-0.7.0.tar.gz (1.6 MB)
  Preparing metadata (setup.py) ... done
Collecting numpy==1.17.1 (from -r requirements.txt (line 2))
  Using cached numpy-1.17.1.zip (6.5 MB)
  Preparing metadata (setup.py) ... done
Collecting opencv-contrib-python==4.2.0.34 (from -r requirements.txt (line 3))
  Using cached opencv_contrib_python-4.9.0.80-cp37-abi3-macosx_11_0_arm64.whl.metadata (20 kB)
Collecting opencv-python==4.3.0.38 (from -r requirements.txt (line 4))
  Downloading opencv-python-4.3.0.38.tar.gz (88.0 MB)
      88.0/88.0 MB 5.3 MB/s eta 0:00:00

Installing build dependencies ... error
error: subprocess-exited-with-error

x pip subprocess to install build dependencies did not run successfully.
  exit code: 1
  > [3096 lines of output]
    Ignoring numpy: markers 'python_version == "3.5"' don't match your environment
    Ignoring numpy: markers 'python_version == "3.6"' don't match your environment
    Ignoring numpy: markers 'python_version == "3.7"' don't match your environment

note: This error originates from a subprocess, and is likely not a problem with pip.
ERROR: Failed building wheel for numpy
Running setup.py clean for numpy
error: subprocess-exited-with-error

x python setup.py clean did not run successfully.
  exit code: 1
  > [10 lines of output]
    Running from numpy source directory.

    `setup.py clean` is not supported, use one of the following instead:

    - `git clean -xdf` (cleans all files)
    - `git clean -Xdf` (cleans all versioned files, doesn't touch
      files that aren't checked into the git repo)

    Add `--force` to your command to use it anyway if you must (unsupported).

    [end of output]

note: This error originates from a subprocess, and is likely not a problem with pip.
ERROR: Failed cleaning build dir for numpy
Failed to build numpy
ERROR: Could not build wheels for numpy, which is required to install pyproject.toml-based projects
[end of output]

note: This error originates from a subprocess, and is likely not a problem with pip.
error: subprocess-exited-with-error

x pip subprocess to install build dependencies did not run successfully.
  exit code: 1
  > See above for output.

note: This error originates from a subprocess, and is likely not a problem with pip.

```

4 python 3.9 & 하나씩 설치

① conda update

```
conda update -n base -c defaults conda
```

- current version : 23.7.4
- latest version : 23.11.0

① conda 버전 확인

```
conda --version
```

```
[(w2lenv) ~] jubi@Joohyunui-MacBookPro ~ % conda --version
conda 23.11.0
```

① librosa=0.7.0 → 0.10.1

```
conda install conda-forge::librosa
```

- 설치된 버전 : librosa 0.10.1

```
librosa 0.10.1 pyhd8ed1ab_0 conda-forge
```

```
conda install conda-forge::librosa=0.7.0
```

② numpy=1.17.1 → 1.24.3

- 이미 설치됨

```
numpy 1.24.3 py38h1398885_0
```

③ opencv-contrib-python≥4.2.0.34

```
conda
```

- 설치 불가

5 miniforge 가상환경 & python 3.8

- miniforge만이 arm64 Silicon Mac을 실험적으로 지원하고 있음
- M1(CPU-8CORE & CPU-8CORE) 특성상 다른 CPU와 GPU와는 연산 방식이 다르기 때문에 일반적인 방법으로 ANACONDA에서 tensorflow 및 opencv를 설치하면, 연산이 안되나 예러가 난다
- 그래서 Apple에서 공식적으로 ANACONDA가 아닌 miniforge3를 지원하고 있다

① conda 삭제

anaconda-clean 패키지

```
conda install anaconda-clean
```

```
anaconda-clean
```

Anaconda 디렉토리 삭제

```
cd
```

```
sudo rm -rf anaconda3
```

Anaconda 백업 제거

```
sudo rm -rf .anaconda_backup
```

관련 파일 삭제

```
sudo rm -rf ~/.condarc ~/.conda ~/.continuum
```

.bash-profile & .zshrc 에서 Anaconda path 제거

```
open -e .bash_profile
```

```
open -e .zshrc
```

① Miniforge3-MacOSX-arm64 설치

GitHub - conda-forge/miniforge: A conda-forge distribution.


A conda-forge distribution. Contribute to conda-forge/miniforge development by creating an account on GitHub.

<https://github.com/conda-forge/miniforge?tab=readme-ov-file>

conda-forge/
miniforge

A conda-forge distribution.

36 Contributors 92 Issues 9 Discussions 5k Stars 274 Forks



② Miniforge3-MacOSX-arm64.sh 설치

① Miniforge3-MacOSX-arm64.sh 를 원하는 디렉토리로 이동

② 터미널에서 해당 디렉토리로 이동

③ 권한 설정

```
chmod +x Miniforge3-MacOSX-arm64.sh
```

④ 설치

```
sh Miniforge3-MacOSX-arm64.sh
```

→ miniforge3 설치 (`cd` 에서 확인)

⑤ 설치 확인

```
brew info miniforge
```

```

[(base) jubu@Joohyunui-MacBookPro ~ % brew info miniforge
==> miniforge: 23.11.0-0 (auto_updates)
https://github.com/conda-forge/miniforge
/opt/homebrew/Caskroom/miniforge/23.11.0-0 (55.7MB)
From: https://github.com/Homebrew/homebrew-cask/blob/HEAD/Casks/m/miniforge.rb
==> Name
miniforge
==> Description
Minimal installer for conda specific to conda-forge
==> Artifacts
Miniforge3-23.11.0-0-MacOSX-arm64.sh (Installer)
/opt/homebrew/Caskroom/miniforge/base/condabin/conda (Binary)
==> Caveats
Please run the following to setup your shell:
  conda init "${basename "${SHELL}"}"

==> Analytics
install: 1,867 (30 days), 5,521 (90 days), 21,730 (365 days)

```

② miniforge 가상환경 생성

① 가상환경 목록 조회

```
conda info --envs
```

```

[(base) jubu@Joohyunui-MacBookPro ~ % conda info --envs
# conda environments:
#
base                        *  /Users/jubu/miniforge3

```

② 가상환경 생성 python=3.8

3.8 미만은 지원하지 않음

```
conda create -n "myenv" python=3.8
```

▼ 결과

```
[(base) jubi@Joohyunui-MacBookPro ~ % conda create -n "myenv" python=3.8
Channels:
- conda-forge
Platform: osx-arm64
Collecting package metadata (repodata.json): done
Solving environment: done
```

Package Plan

environment location: /Users/jubi/miniforge3/envs/myenv

added / updated specs:
- python=3.8

The following packages will be downloaded:

package	build		
python-3.8.18	h2469fbe_1_cpython	12.8 MB	conda-forge
setuptools-69.0.3	pyhd8ed1ab_0	460 KB	conda-forge
Total:		13.3 MB	

The following NEW packages will be INSTALLED:

bzip2	conda-forge/osx-arm64::bzip2-1.0.8-h93a5062_5
ca-certificates	conda-forge/osx-arm64::ca-certificates-2023.11.17-hf0a4a13_0
libffi	conda-forge/osx-arm64::libffi-3.4.2-h3422bc3_5
libsqlite	conda-forge/osx-arm64::libsqlite-3.44.2-h091b4b1_0
libzlib	conda-forge/osx-arm64::libzlib-1.2.13-h53f4e23_5
ncurses	conda-forge/osx-arm64::ncurses-6.4-h463b476_2
openssl	conda-forge/osx-arm64::openssl-3.2.0-h0d3ecfb_1
pip	conda-forge/noarch::pip-23.3.2-pyhd8ed1ab_0
python	conda-forge/osx-arm64::python-3.8.18-h2469fbe_1_cpython
readline	conda-forge/osx-arm64::readline-8.2-h92ec313_1
setuptools	conda-forge/noarch::setuptools-69.0.3-pyhd8ed1ab_0
tk	conda-forge/osx-arm64::tk-8.6.13-h5083fa2_1
wheel	conda-forge/noarch::wheel-0.42.0-pyhd8ed1ab_0
xz	conda-forge/osx-arm64::xz-5.2.6-h57fd34a_0

Proceed ([y]/n)? y

Downloading and Extracting Packages:

```
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
#
# To activate this environment, use
#
#     $ conda activate myenv
#
# To deactivate an active environment, use
#
#     $ conda deactivate
```

③ 가상환경 목록 조회

```
conda info --envs
```

▼ 결과


```
[(base) jubi@Joohyunui-MacBookPro ~ % conda info --envs
# conda environments:
#
base                                *  /Users/jubi/miniforge3
myenv                              /Users/jubi/miniforge3/envs/myenv
```

③ 가상환경 활성화

```
conda activate myenv
```

▼ 결과

```
[(base) jubi@Joohyunui-MacBookPro ~ % conda activate myenv
[(myenv) jubi@Joohyunui-MacBookPro ~ %
```

④ requirements.txt 설치

```
pip install -r requirements.txt
```

```
Collecting opencv-python==4.3.0.38 (from -r requirements.txt (line 4))
Using cached opencv-python-4.3.0.38.tar.gz (88.0 MB)
Installing build dependencies ... done
Getting requirements to build wheel ... done
Preparing metadata (pyproject.toml) ... done
ERROR: Ignored the following versions that require a different python version: 1.25.0 Requires-Python >=3.9; 1.25.0rc1 Requires-Python >=3.9; 1.25.1 Requires-Python >=3.9; 1.25.2 Requires-Python >=3.9; 1.26.0 Requires-Python <3.13,>=3.9; 1.26.0b1 Requires-Python <3.13,>=3.9; 1.26.0rc1 Requires-Python <3.13,>=3.9; 1.26.1 Requires-Python <3.13,>=3.9; 1.26.2 Requires-Python >=3.9; 1.26.3 Requires-Python >=3.9
ERROR: Could not find a version that satisfies the requirement torch==1.1.0 (from versions: 1.9.0, 1.10.0, 1.10.1, 1.10.2, 1.11.0, 1.12.0, 1.12.1, 1.13.0, 1.13.1, 2.0.0, 2.0.1, 2.1.0, 2.1.1, 2.1.2)
ERROR: No matching distribution found for torch==1.1.0
```

- python version 3.9 이상으로 해보기
- torch 1.1.0 은 찾을 수 없음
1.9.0, 1.10.0, 1.10.1, 1.10.2, 1.11.0, 1.12.0, 1.12.1, 1.13.0, 1.13.1, 2.0.0, 2.0.1, 2.1.0, 2.1.1, 2.1.2

5 miniforge 가상환경 & python 3.9 & 직접 설치

① python 3.9 가상환경 생성

```
conda create -n "myenv39" python=3.9
```

② 가상환경 활성화

```
conda activate myenv39
```

③ librosa

```
conda install conda-forge::librosa
```

- 필요한 버전 : 0.7.0
- 설치된 버전 : 0.10.1

④ numpy 다운그레이드 : 설치 불가능하다


- 이미 설치된 버전 : 1.26.3
- 필요한 버전 : 1.17.1
 - python 3.5-3.7 만 지원한다
 - 설치 불가능!!

```
!pip install numpy==1.17.1
```

6 intel 환경으로 세팅

[Python] M1 맥북에서 Python 설치하기

Apple M1 ARM 아키텍처에서 파이썬 3.9.1 미만의 버전을 설치하는 방법을 공유합니다.

 <https://chrisjune-13837.medium.com/python-m1-맥북에서-python-설치하기-4f0907dd5da8>

**Install Python3.X
on
Apple M1**

조유성

TL;DR

<https://cys.wo.tc/blog/84/>