

Systems Note 14

pyenv environments on Apple

Hardware - Intel Mac mini (2018)

OS - macOS Catalina 10.15.6

uname -a gives Darwin 19.6.0 Jul 5 2020 xnu-6153.141.1~9/RELEASE_X86_64

git clone <https://github.com/pyenv/pyenv.git> ~/.pyenv

Asks for command line developer tools if not available. Click Install Agree Repeat line above

```
echo 'export PYENV_ROOT="$HOME/.pyenv"' >> ~/.zshrc
```

```
echo 'export PATH="$PYENV_ROOT/bin:$PATH"' >> ~/.zshrc
```

```
echo -e 'if command -v pyenv 1>/dev/null 2>&1; then\n  eval "$(pyenv init -)\nfi' >> ~/.zshrc
```

```
~/.zshrc
```

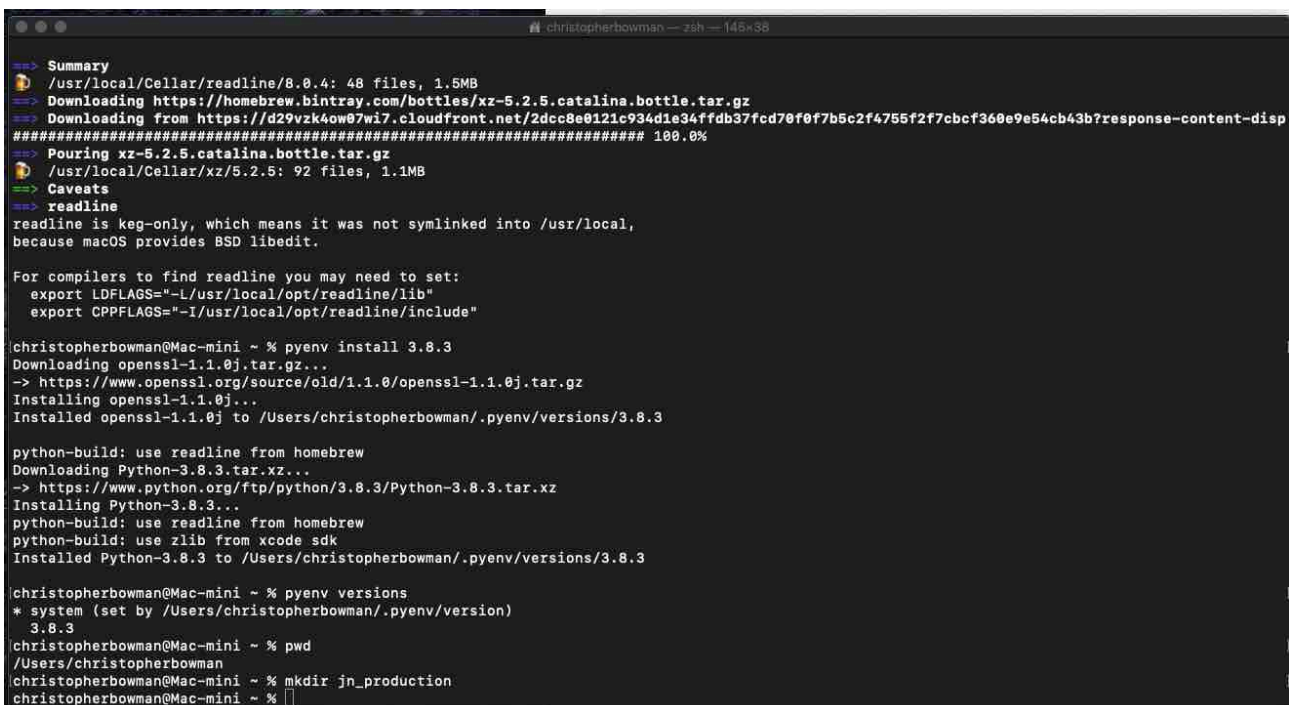
pyenv does not compile a python with lzma compression which pandas complains about. Fix that with:

```
/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install.sh)"  
brew install readline xz
```

```
pyenv install 3.8.3
```

```
pyenv versions
```

```
mkdir jn_production
```



```
Summary  
  /usr/local/Cellar/readline/8.0.4: 48 files, 1.5MB  
  Downloading https://homebrew.bintray.com/bottles/xz-5.2.5.catalina.bottle.tar.gz  
  Downloading from https://d29vzk4ow07wi7.cloudfront.net/2dcc8e0121c934d1e34ffdb37fcd70f07b5c2f4755f2f7cbcf360e9e54cb43b?response-content-disp  
##### 100.0%  
  Pouring xz-5.2.5.catalina.bottle.tar.gz  
  /usr/local/Cellar/xz/5.2.5: 92 files, 1.1MB  
Caveats  
  readline  
readline is keg-only, which means it was not symlinked into /usr/local,  
because macOS provides BSD libedit.  
  
For compilers to find readline you may need to set:  
  export LDFLAGS="-L/usr/local/opt/readline/lib"  
  export CPPFLAGS="-I/usr/local/opt/readline/include"  
  
christopherbowman@Mac-mini ~ % pyenv install 3.8.3  
Downloading openssl-1.1.0j.tar.gz...  
-> https://www.openssl.org/source/old/1.1.0/openssl-1.1.0j.tar.gz  
Installing openssl-1.1.0j...  
Installed openssl-1.1.0j to /Users/christopherbowman/.pyenv/versions/3.8.3  
  
python-build: use readline from homebrew  
Downloading Python-3.8.3.tar.xz...  
-> https://www.python.org/ftp/python/3.8.3/Python-3.8.3.tar.xz  
Installing Python-3.8.3...  
python-build: use readline from homebrew  
python-build: use zlib from xcode sdk  
Installed Python-3.8.3 to /Users/christopherbowman/.pyenv/versions/3.8.3  
  
christopherbowman@Mac-mini ~ % pyenv versions  
* system (set by /Users/christopherbowman/.pyenv/version)  
  3.8.3  
christopherbowman@Mac-mini ~ % pwd  
/Users/christopherbowman  
christopherbowman@Mac-mini ~ % mkdir jn_production  
christopherbowman@Mac-mini ~ %
```

```
cd jn_production
```

```
pyenv local 3.8.3
```

```
python -V
```

```
pip install --upgrade pip
```

```
pip install pipenv
```