

AAE1001 - Introduction to Artificial Intelligence and Data Analytics in Aerospace and Aviation Engineering

Week 7 – Software Installation and Setup (MAC)

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Mr Zekun ZHANG, Mr Mingda YE, Ms Jingxiaotao FANG, Mr Chin Lok TSANG, Mr Di HAI, Mr Zhengdao LI





Software Installation and setup Guide

MAC





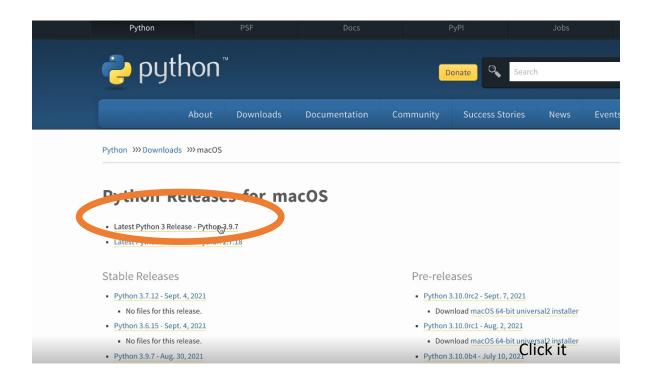
Tutorial Video: https://www.youtube.com/watch?v=p-

joFbfB57c&ab_channel=POLYUIPNL

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	About 92,100,000 results (0.60 seconds) How to Install Python on a Mac								
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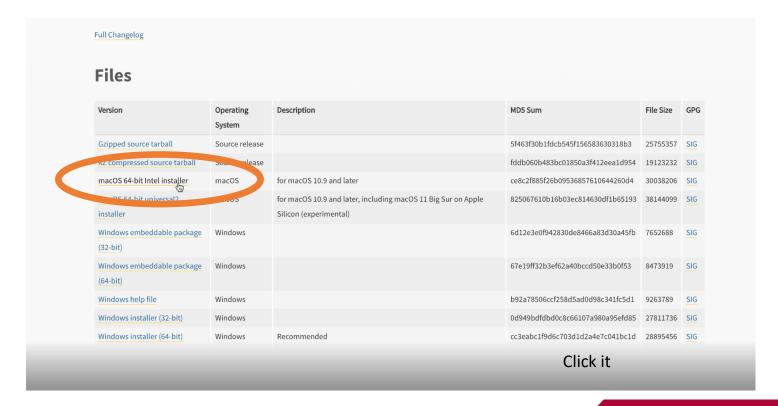


















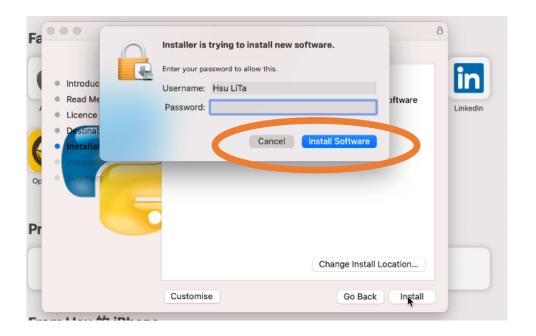






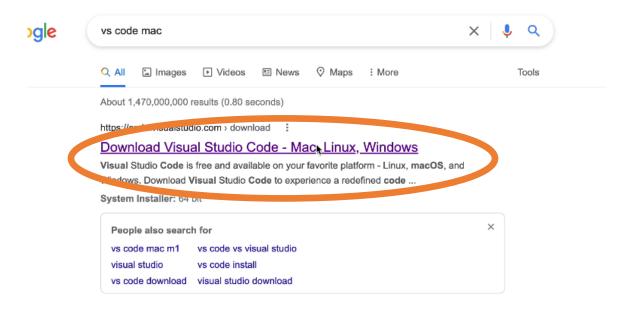










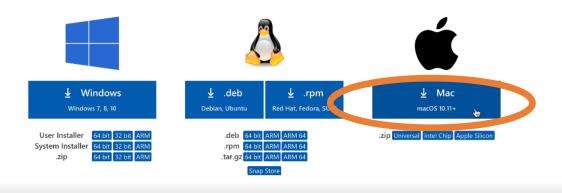






Download Visual Studio Code

Free and built on open source. Integrated Git, debugging and extensions.



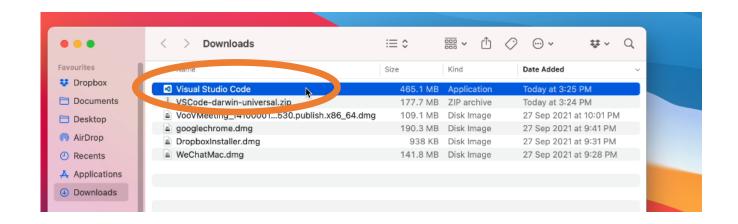






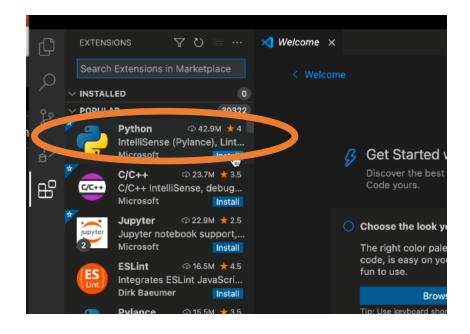






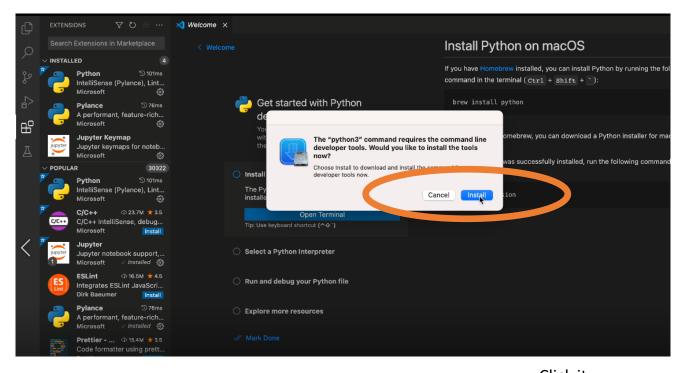






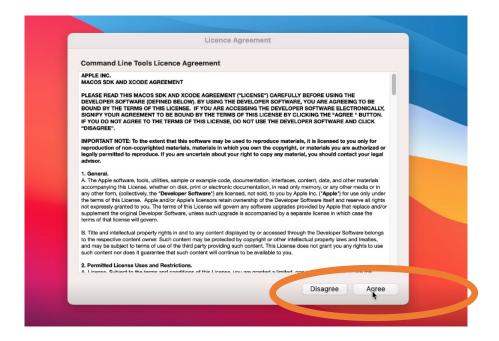






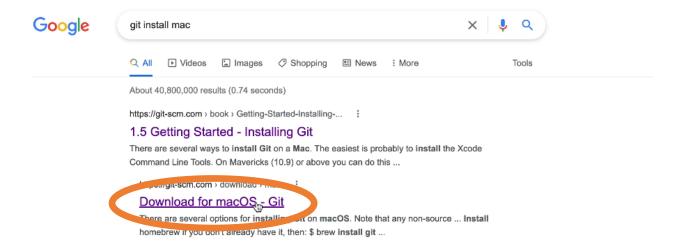






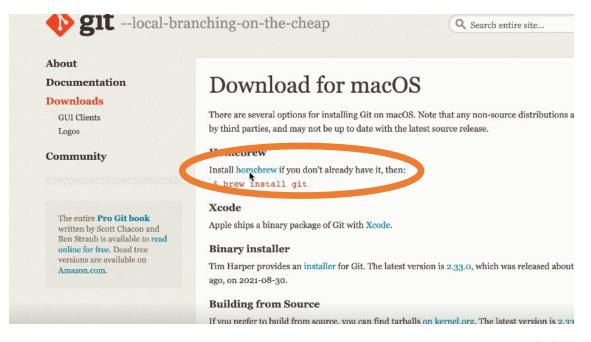














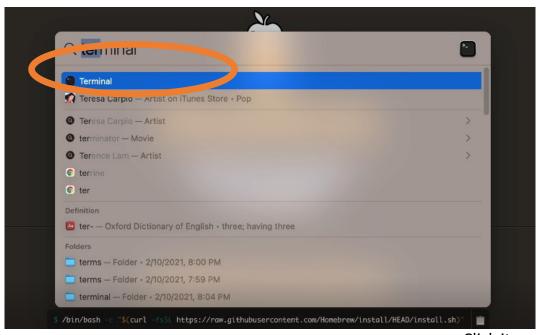




Copy this command







Click it











```
math in hsulita — sudo + bash -c #!/bin/bash\012set -u\012\012abort() {\012 printf "...
Last login: Sat Oct 2 19:54:54 on console
hsulita@Hsus-MacBook-Air ~ % /bin/bash -c "$(curl -fsSL https://raw.githubuserco
ntent_com/Homebrew/install/HEAD/install.sh)"
 Checking for 'udo' access (which may request your password).
Password:
```

Enter your password





```
hsulita — bash -c #!/bin/bash\012set -u\012\012abort() {\012 printf "%s\n"...
/opt/homebrew/share/man/man1/brew.1
/opt/homebrew/share/zsh/site-functions/_brew
/opt/homebrew/etc/bash_completion.d/brew
/opt/homebrew
==> The following new directories will be created:
/opt/homebrew/bin
/opt/homebrew/etc
/opt/homebrew/include
/opt/homebrew/lib
/opt/homebrew/sbin
/opt/homebrew/share
/opt/homebrew/var
/opt/homebrew/opt
/opt/homebrew/share/zsh
/opt/homebrew/share/zsh/site-functions
/opt/homebrew/var/homebrew
/opt/homebrew/var/homebrew/linked
/opt/homebrew/Cellar
/opt/homebrew/Caskroom
/opt/homebrew/Frameworks
==> The Xcode Command Line Tools will be installed.
Press RETURN to ontinue or any other key to abort
```

Press RETURN





```
hsulita — -zsh — 80×24
HEAD is now at b3db6142292 xpdf: update 4.03_1 bottle.
Warning: /opt/homebrew/bin is not in your PATH.
  Instructions on how to configure your shell for Homebrew
  can be found in the 'Next steps' section below.
==> Installation successful!
==> Homebrew has enabled anonymous aggregate formulae and cask analytics.
Read the analytics documentation (and how to opt-out) here:
  https://docs.brew.sh/Analytics
No analytics data has been sent yet (or will be during this 'install' run).
==> Homebrew is run entirely by unpaid volunteers. Please consider donating:
  https://github.com/Homebrew/brew#donations
==> Next stor
 run these two commands in your terminal to add Homebrew to your PATH:
    echo 'eval "$(/opt/homebrew/bin/brew shellenv)"' >> /Users/hsulita/.zprofile
   "$(/opt/homebrew/bin/brew shellenv)"
- Run 'brew neip to get
- Further documentation:
    https://docs.brew.sh
```

Copy this command

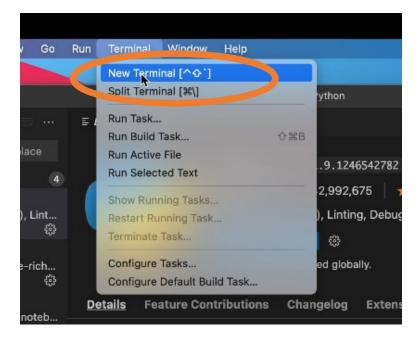




```
hsulita@Hsus-MacBook-Air ~ % echo 'eval "$(/opt/homebrew/bin/brew shellenv)"
' >> /Users/hsulita/.zprofile
[ eval "$(/opt/homebrew/bin/brew shellenv)"
[hsulita@Hsus-MacBook-Air % brew install git
```



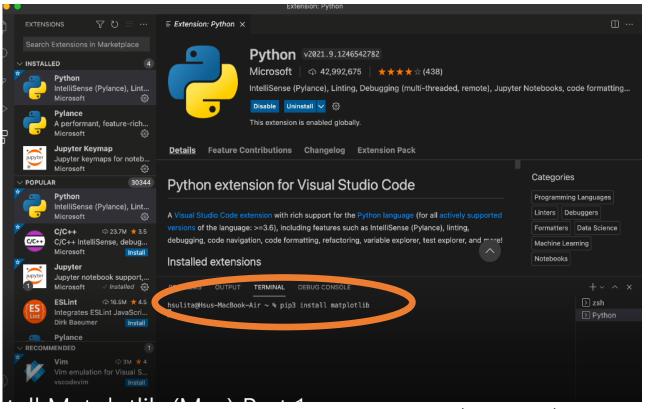




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```
Collecting six
Downloading six-1.16.0-py2.py3-none-any.whl (11 kB)
Installing collected packages: six, python-dateutil, pyparsing, pillow, numpy, kiwisolver, cycler, mat plotlib
Successfully installed cycler-0.10.0 kiwisolver-1.3.2 matplotlib-3.4.3 numpy-1.21.2 pillow-8.3.2 pypar sing-3.4.3 numpy-1.21.2 pillow-8.3.2 pypar si
```

You may encounter this problem





```
WARNING: You are using pip version 21.2.3; however, version 21.2.4 is available.
You should consider upgrading via the /Library/Frameworks/Python.framework/Versions/3.9/bin/python3.9 -m pip install --upgrade pip command.
```

Copy this command





Paste the command





```
PROBLEMS
            OUTPUT
                      TERMINAL
                                 DEBUG CONSOLE
hsulita@Hsus-MacBook-Air ~ % /Library/Frameworks/Python.framework/Versions/3.9/bin/python3.9
-m pip install --upgrade pip
Requirement already satisfied: pip in /Library/Frameworks/Python.framework/Versions/3.9/lib/
python3.9/site-packages (21.2.3)
Collecting pip
 Downloading pip-21.2.4-py3-none-any.whl (1.6 MB)
                                      | 1.6 MB 5.6 MB/s
Installing collected packages: pip
 Attempting uninstall: pip
    Found existing installation: pip 21.2.3
    Uninstalling pip-21.2.3:
      Successfully uninstalled pin-21-3
Successfully installed pip-22.2.4
hsulita@Hsus-MacBook-Air ~ pip3 install matplotlib
```

Type the command