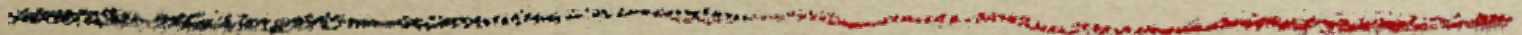


# Python



Installing Anaconda on a Mac

© Jeff Parker

Summer, 2018



# Anaconda?

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**Anaconda** is a package of goodies

Widely used for data analysis.

Many useful Python libraries preinstalled

Versions for major **O**perating **S**ystems (OS)

# Mission Impossible



Following the directions in Canvas

Modules/Resources/Tips/Anaconda

Download and install a version of Anaconda with Python 3.6 or later.

<https://www.anaconda.com/download/>

I have some screenshots for a Mac Install

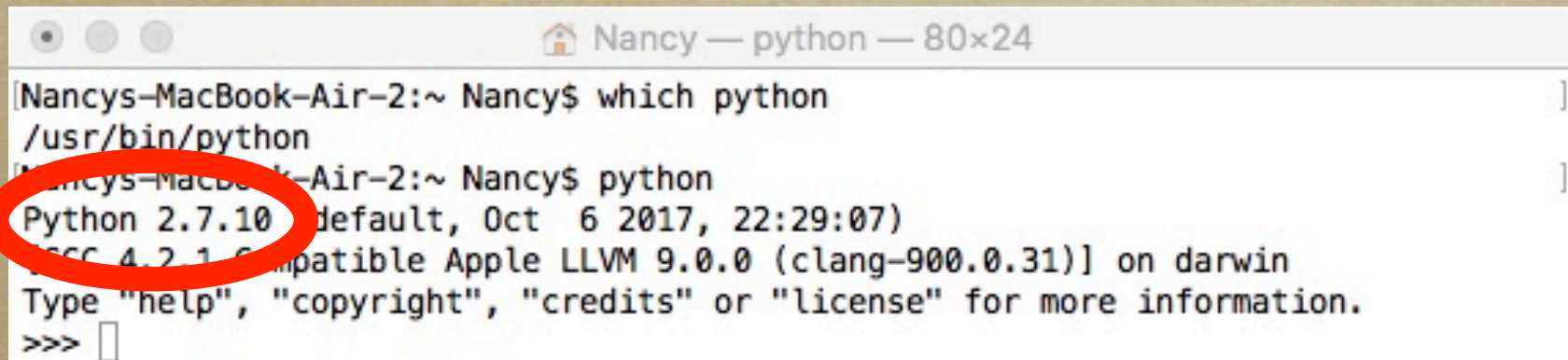
Diane Howard prepared steps for PC install



# Do you already have Python?

Testing to see if we have python

Python is installed, but wrong version (2.7.10)

A screenshot of a macOS terminal window titled "Nancy — python — 80x24". The terminal shows the command "which python" returning "/usr/bin/python". Then, the command "python" is entered, which outputs "Python 2.7.10 default, Oct 6 2017, 22:29:07)". The version number "2.7.10" is circled in red. The output continues with "GCC 4.2.1 Compatible Apple LLVM 9.0.0 (clang-900.0.31) on darwin" and a prompt to type "help", "copyright", "credits" or "license" for more information. The prompt ">>>" is followed by a cursor.

```
[Nancys-MacBook-Air-2:~ Nancy$ which python
/usr/bin/python
[Nancys-MacBook-Air-2:~ Nancy$ python
Python 2.7.10 default, Oct 6 2017, 22:29:07)
GCC 4.2.1 Compatible Apple LLVM 9.0.0 (clang-900.0.31) on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>> ]
```

# www.anaconda.com/download/

The screenshot shows the Anaconda website's download page for macOS. The browser's address bar displays 'anaconda.com'. The page features a navigation bar with links to 'Documentation', 'Blog', 'Contact', 'Anaconda Cloud', and a search icon. Below this is a secondary navigation bar with links to 'What is Anaconda?', 'Products', 'Support', 'Community', 'Resources', 'About', and a prominent green 'Download' button. The main content area is divided into three columns: 'High-Performance Distribution', 'Package Management', and 'Portal to Data Science'. A section titled 'Download For:' includes icons for Windows, macOS, and Linux. The macOS section is selected, leading to the 'Anaconda 5.1 For macOS Installer' section. This section offers two download options: 'Python 3.6 version' and 'Python 2.7 version'. The 'Python 3.6 version' option is circled in red and includes a green 'Download' button. Below the button, it lists the '64-Bit Graphical Installer (595 MB)' and the '64-Bit Command-Line Installer (511 MB)'. The 'Python 2.7 version' option also has a green 'Download' button and lists the '64-Bit Graphical Installer (588 MB)' and the '64-Bit Command-Line Installer (506 MB)'.

anaconda.com

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**Portal to Data Science**  
Uncover insights in your data and create interactive visualizations

Windows macOS Linux

**Anaconda 5.1 For macOS Installer**

**Python 3.6 version \***

**Download**

64-Bit Graphical Installer (595 MB) ⓘ  
64-Bit Command-Line Installer (511 MB) ⓘ

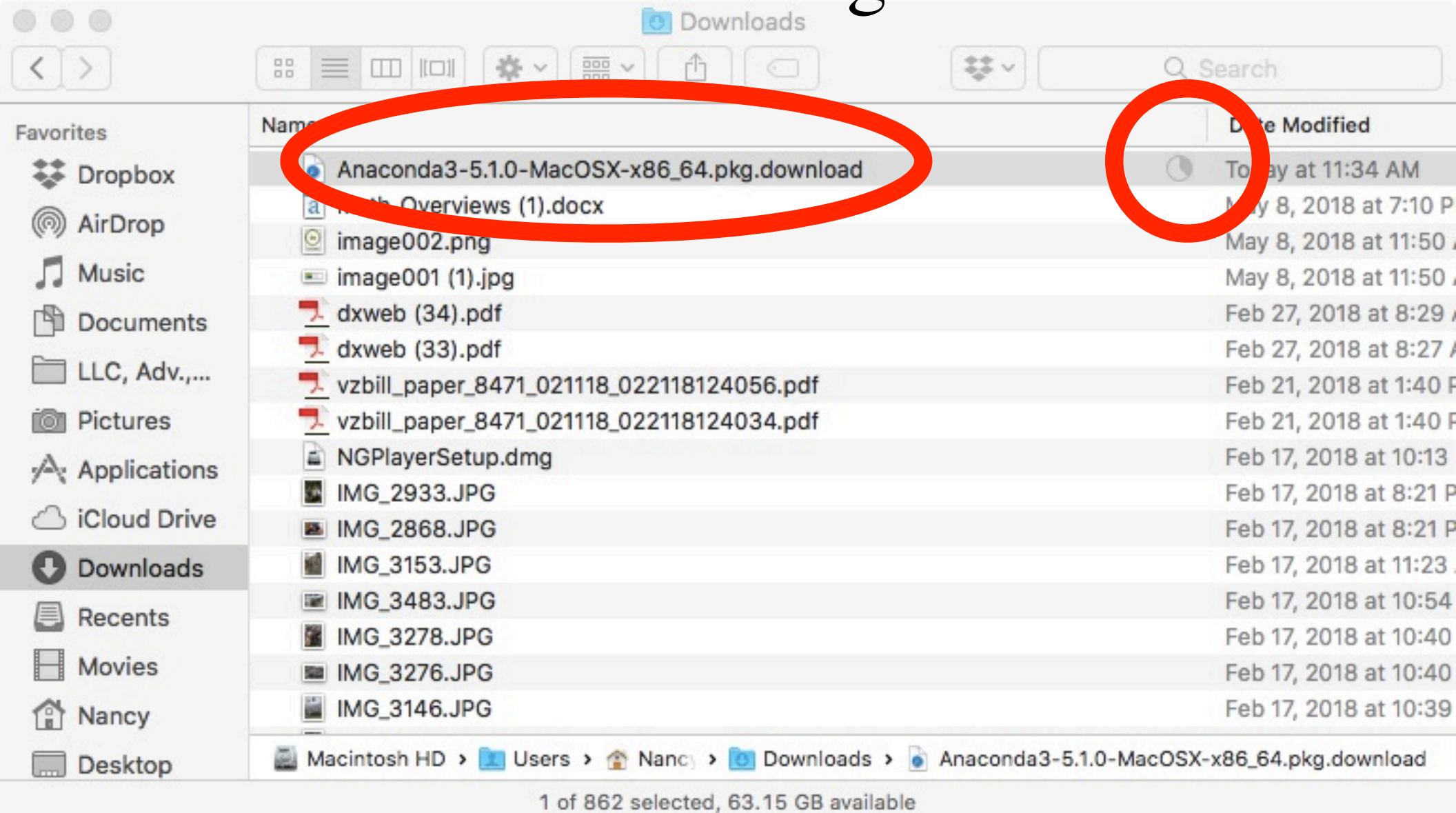
**Python 2.7 version \***

**Download**

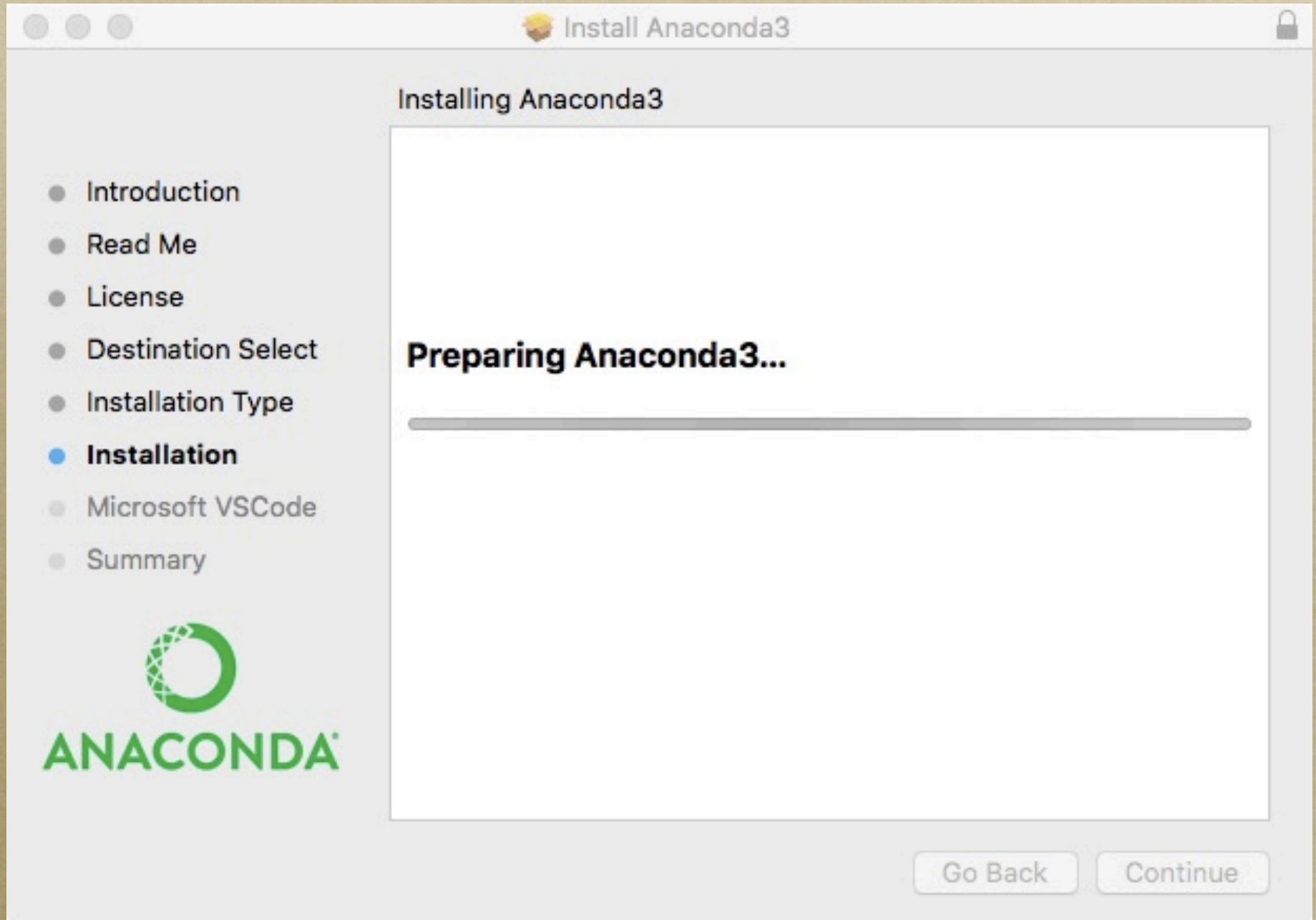
64-Bit Graphical Installer (588 MB) ⓘ  
64-Bit Command-Line Installer (506 MB) ⓘ



# Downloading...

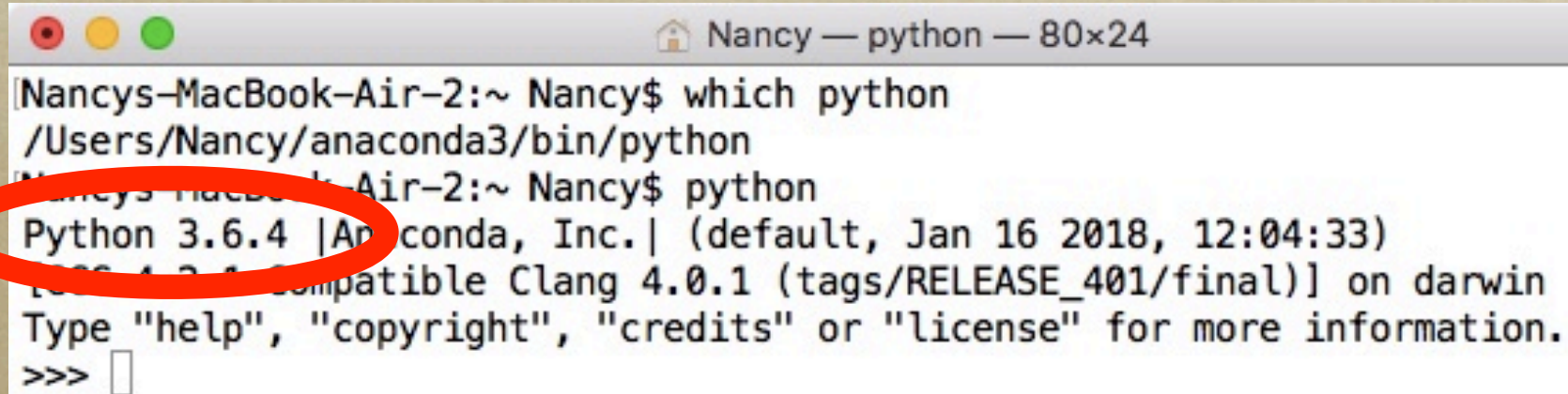


# Click to install





# Reboot and start a Terminal Window, type python



A screenshot of a macOS terminal window titled "Nancy — python — 80x24". The window shows the following text:

```
[Nancys-MacBook-Air-2:~ Nancy$ which python  
/Users/Nancy/anaconda3/bin/python  
[Nancys-MacBook-Air-2:~ Nancy$ python  
Python 3.6.4 [Anaconda, Inc.] (default, Jan 16 2018, 12:04:33)  
[Python 3.6.4 compatible Clang 4.0.1 (tags/RELEASE_401/final)] on darwin  
Type "help", "copyright", "credits" or "license" for more information.  
>>> ]
```

The text "Python 3.6.4 [Anaconda, Inc.] (default, Jan 16 2018, 12:04:33)" is circled in red.

*You might not need to reboot,  
but it won't hurt and it often helps*



# Mission Impossible



If you cannot install Anaconda, use  
<http://www.pythontutor.com>

Write code in Python 3.6  
(drag lower right corner to resize code editor)

```
1 s = 'Hello, World!'
2 print(s)
3 |
```

→ line that has just executed  
→ next line to execute

Print output (drag lower right corner to resize output box)  
Hello, World!

Frames

Global frame  
s "Hello, World!"

<< First < Back Done running (2 steps) Forward > Last >>

# Environments

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<http://www.pythontutor.com>

- or -

Install **Anaconda** Environment

Allows

Terminal running Python Interpreter

Running Scripts - Wednesday

Jupyter Notebook - Next week



# PyCharm

[www.jetbrains.com/pycharm/download/](http://www.jetbrains.com/pycharm/download/)

Install it and play with it

Walk through Wednesday

