

North West Florida Python/Perl & Linux Working Group (NWFPUG)

INAUGURAL MEETING

22 AUGUST 2016

Agenda

- ▶ Purpose
- ▶ Expectations
- ▶ Why Python?
- ▶ How to get started
- ▶ Online Resources
- ▶ Online Presence

Purpose

- ▶ NWFPUG is a local Python/Perl user group (This meeting will focus on Python)
- ▶ Aim to foster collaboration between members, local researchers and schools, and other groups on scientific projects
- ▶ Create interesting and hands-on projects for robotics using Raspberry Pi and Arduino just to name a couple
- ▶ Spread the Python message
 - ▶ Use Python at work
 - ▶ Use as a first language for kids
 - ▶ Contribute to the Python ecosystem

Expectations

- ▶ Meet every month or as often as needed
- ▶ Select projects to work on as a group
- ▶ Collaborate on open source projects
- ▶ Assist each other and local school kids and educators
- ▶ Present interesting solutions to certain problems
- ▶ Share our solutions and work with the Python community world wide
- ▶ Tutorials and introductory sessions

Why Python?

- ▶ A complete programming framework
 - ▶ Free & open source
 - ▶ Runs natively on Windows, Linux, and OSX
 - ▶ Scales well from small scripts to large projects
 - ▶ Interoperable with other languages like Matlab, C/C++, Fortran
 - ▶ Symbolic Computation Engine
- ▶ Large and active community
- ▶ Large collection of scientific libraries
 - ▶ Machine learning
 - ▶ Image processing
 - ▶ Data processing and visualization
 - ▶ Documentation system
 - ▶ Parallel processing
 - ▶ Database access
- ▶ Used by large corporations and national labs

How to get started

- ▶ Python distributions
 - ▶ Anaconda
 - ▶ Canopy
 - ▶ Vanilla Python
- ▶ Editors
 - ▶ Vim
 - ▶ Notepad++ (Windows)
 - ▶ Textwrangler (OS X)
 - ▶ Qpad/Gedit (Linux)
 - ▶ Sublime Text
- ▶ IDEs
 - ▶ Vim
 - ▶ PyCharm
 - ▶ Spyder
 - ▶ VStudio Plugin
 - ▶ Eclipse plugin
 - ▶ Netbeans
- ▶ Command Line
 - ▶ Ipython
 - ▶ Jupyter Notebook
 - ▶ Python shell

Online Resources

- ▶ A gallery of interesting IPython Notebooks:
<https://github.com/ipython/ipython/wiki/A-gallery-of-interesting-IPython-Notebooks#introductory-tutorials>
- ▶ Wakari: <https://wakari.io/gallery>
- ▶ IPython/Jupyter Notebook Gallery: <http://nb.bianp.net/sort/views/>
- ▶ Python Tutorials: <https://docs.python.org/2/tutorial/>
- ▶ Safari Books Online: <http://techbus.safaribooksonline.com/alltitles>
 - ▶ Free for DoD
 - ▶ Books and Video Lectures/Tutorials
- ▶ O'Reilly Online (online execution):
<https://www.oreilly.com/learning/regex-golf-with-peter-norvig>
- ▶ Tutorials Point (online execution):
http://www.tutorialspoint.com/execute_python_online.php

Online Presence

- ▶ Reserved nwfug for most social media outlets
 - ▶ Twitter (@nwfug)
 - ▶ Google+ (nwfug@gmail.com)
 - ▶ Blogspot (nwfug.blogspot.com)
 - ▶ Youtube (nwfug)
 - ▶ Github (github.com/nwfug)