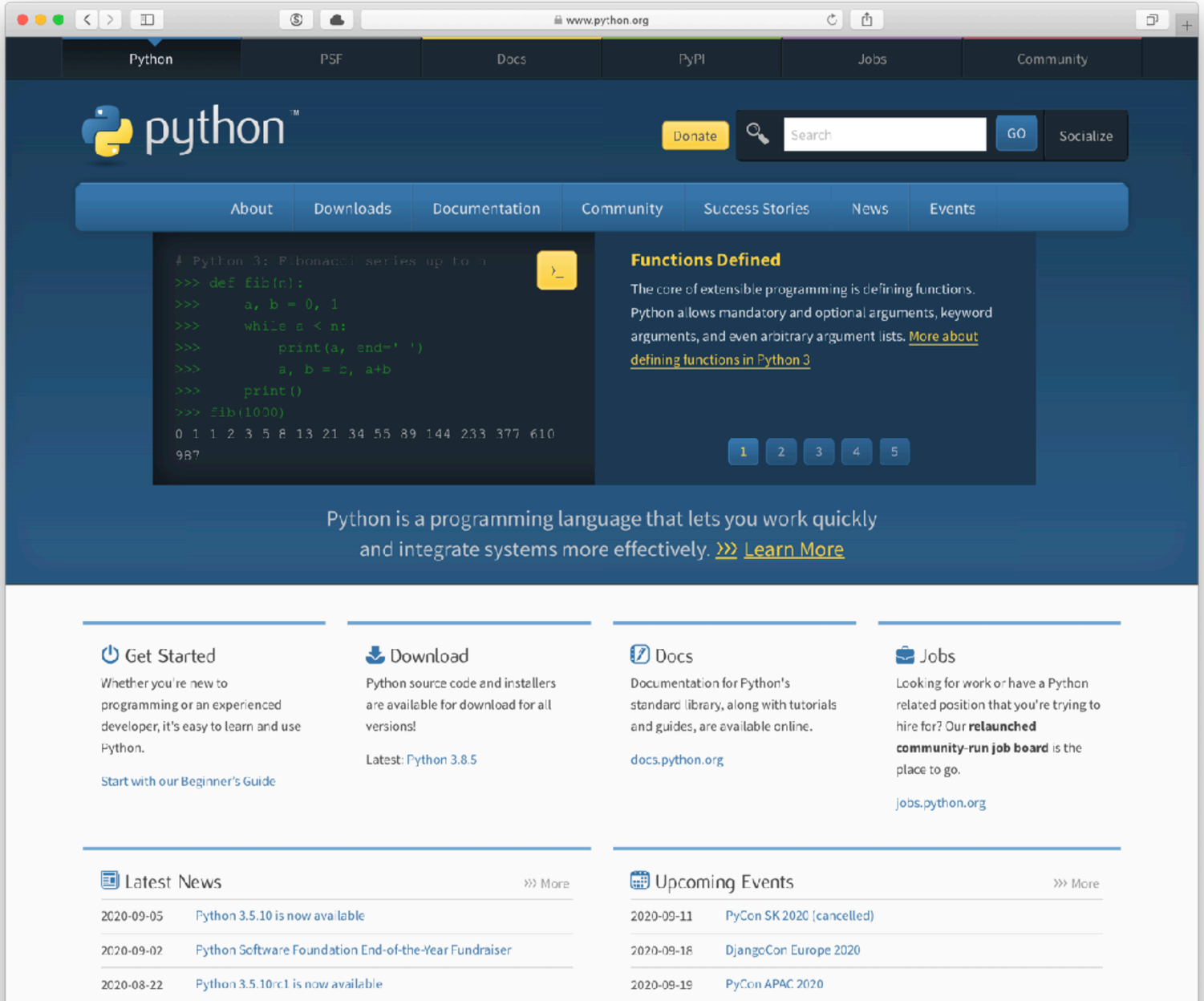
Getting Started with Python

Gavin Wiggins

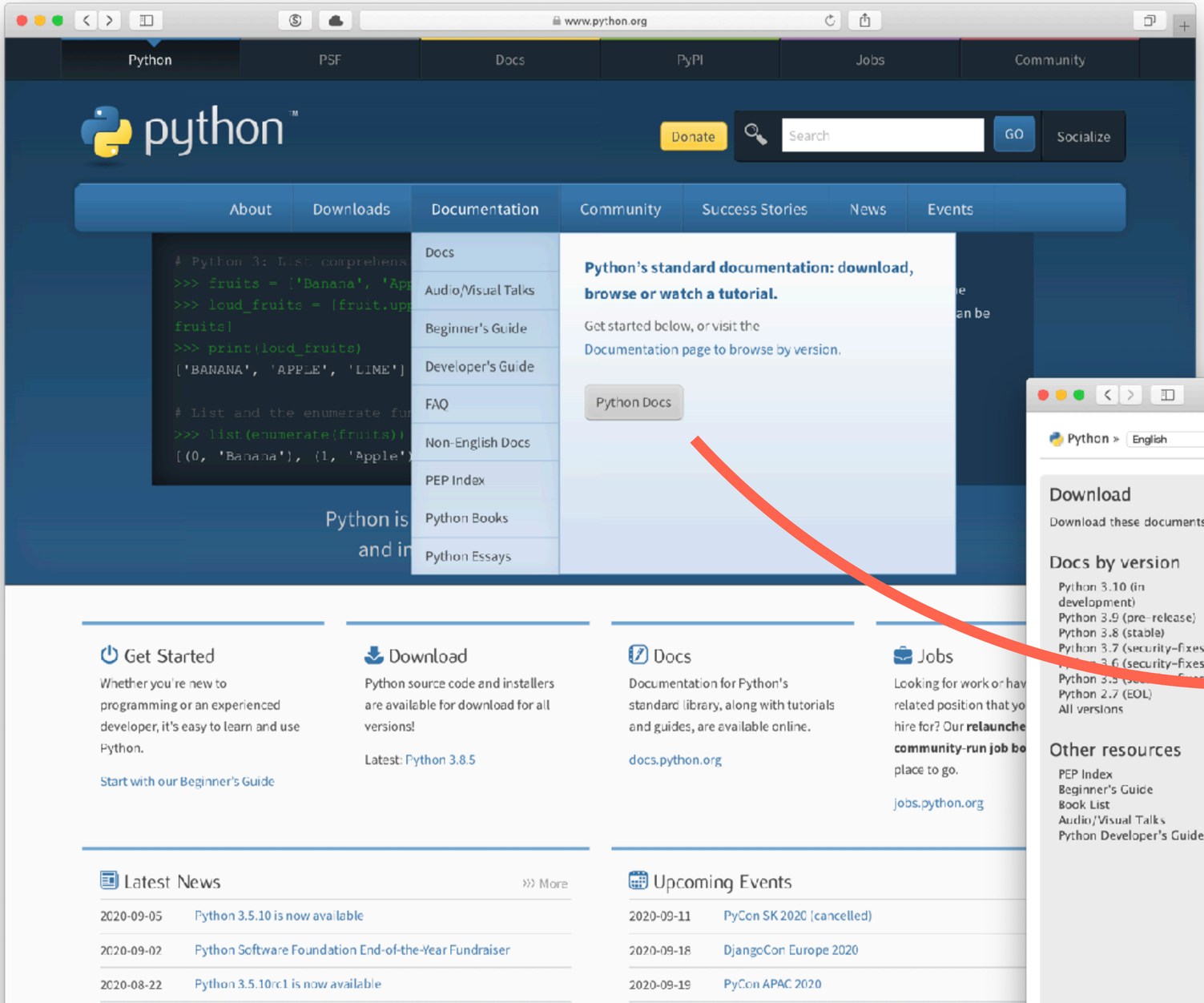
KnoxPy meetup on September 10, 2020

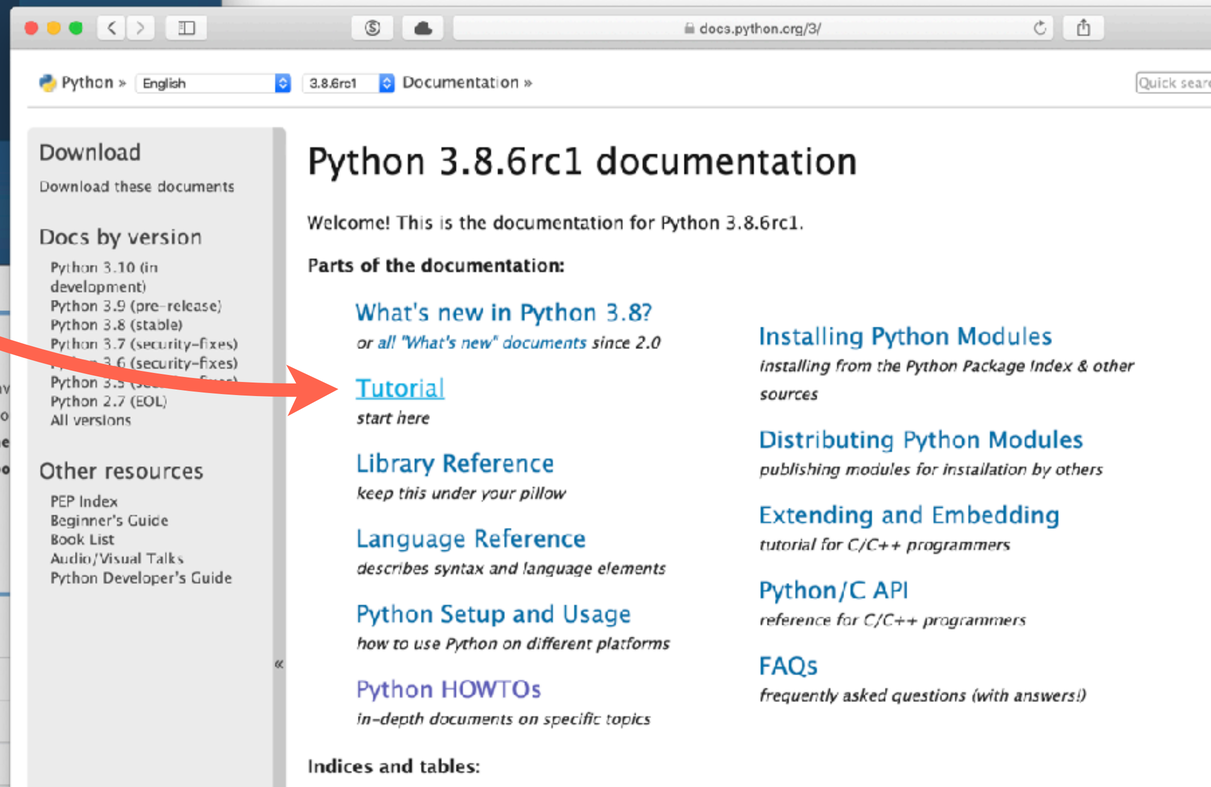
Slides available at https://gavinw.me

Download and install Python 3

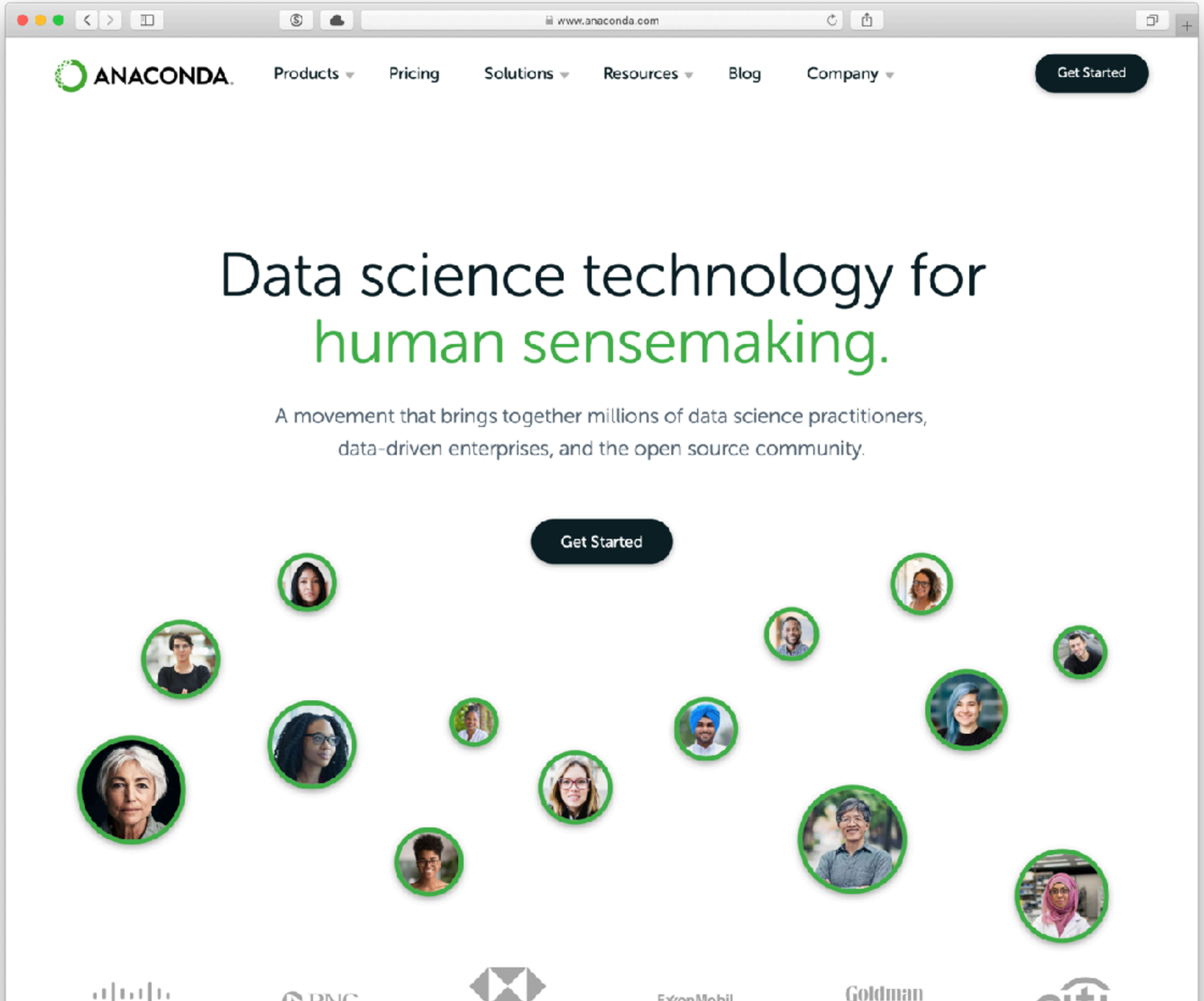


Python tutorial





Anaconda - Python for scientists



IDEs and Text Editors

PyCharm
https://www.jetbrains.com/pycharm/

Sublime Text
https://www.sublimetext.com

Spyder IDE
https://github.com/spyder-ide/spyder

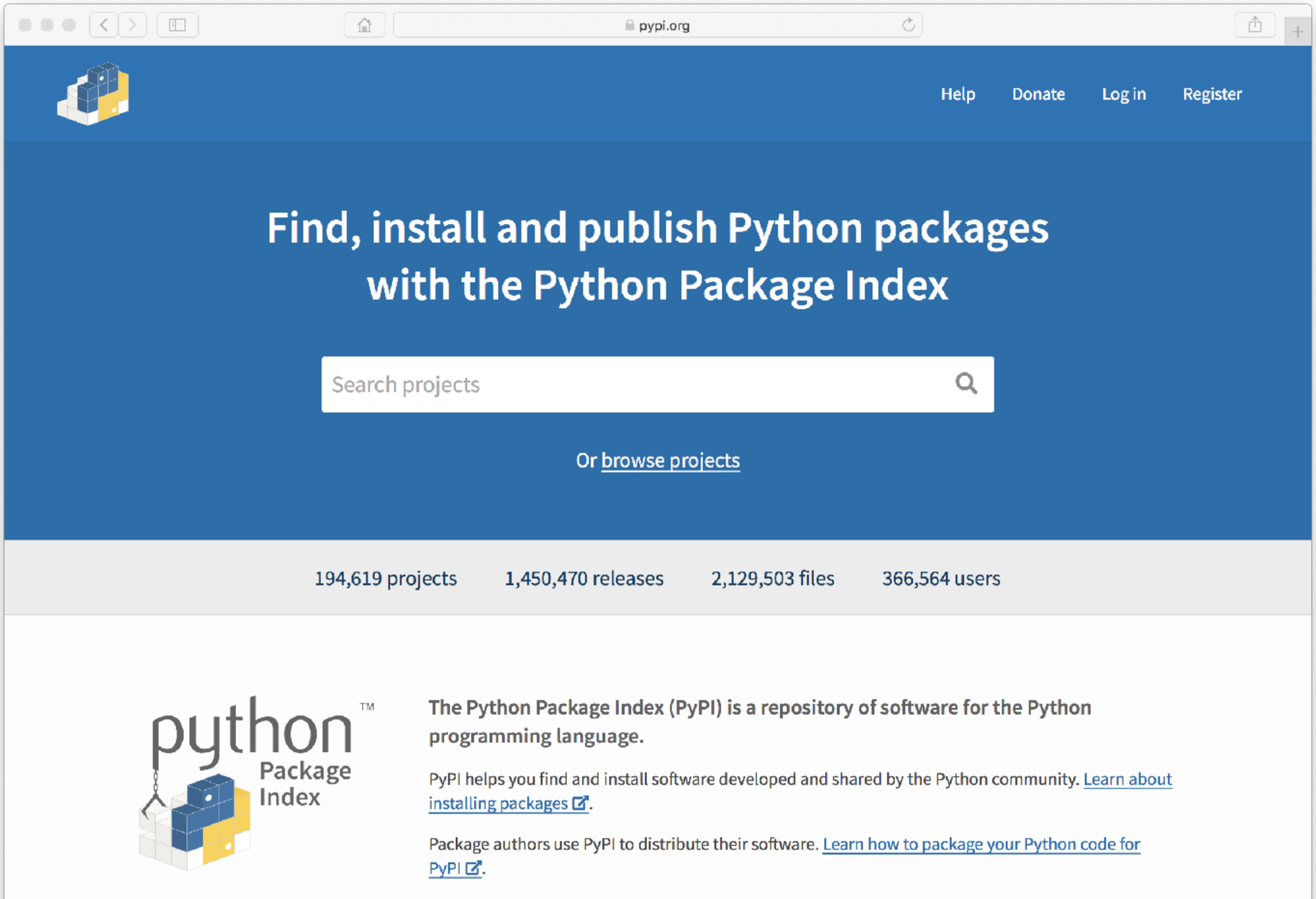
IP[y]:
IPython

iPython
https://ipython.org

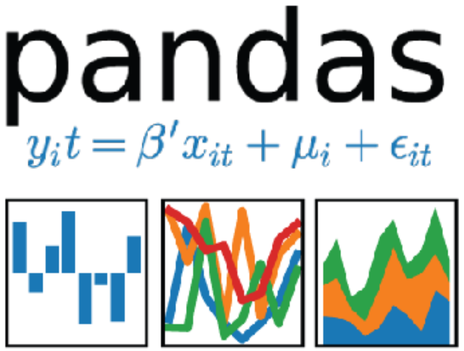
Jupyter Notebook
http://jupyter.org

Visual Studio Code
https://code.visualstudio.com

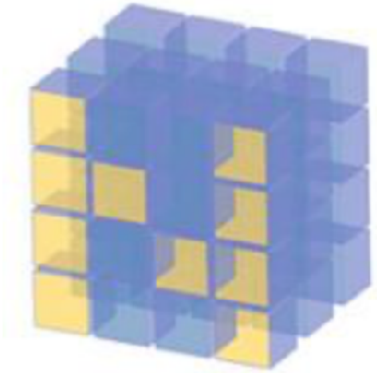
Python Package Index (PyPI)



Scientific and visualization packages



Pandas
http://pandas.pydata.org



NumPy
http://www.numpy.org

SciPy
https://www.scipy.org

Bokeh
https://bokeh.pydata.org

Matplotlib
http://matplotlib.org

Plotly
https://plotly.com/python/

Web and database packages

Flask
http://flask.pocoo.org

Django
https://www.djangoproject.com

Requests
http://docs.python-requests.org

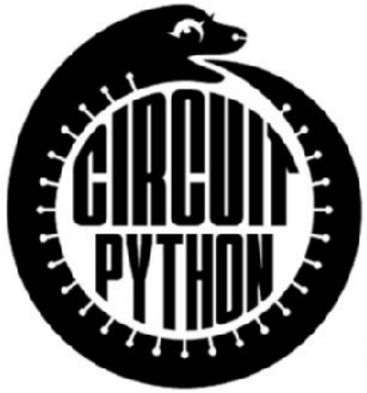
Bottle
https://bottlepy.org

h5py
https://www.h5py.org

SQLAlchemy
https://www.sqlalchemy.org

Other packages

MicroPython
https://micropython.org



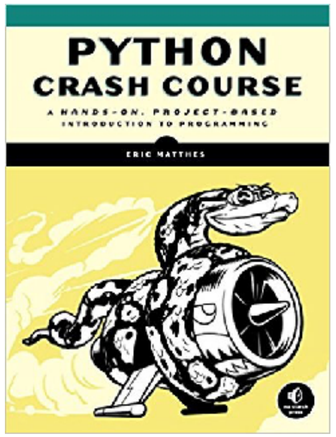
CircuitPython
https://github.com/adafruit/circuitpython

Pillow
https://python-pillow.org

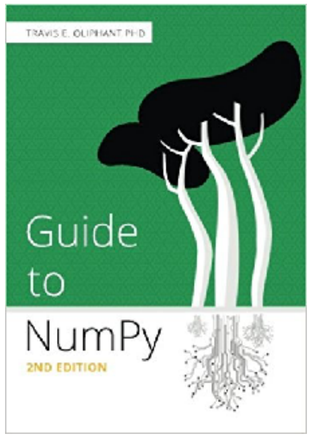
scikit-learn
https://scikit-learn.org

SymPy
http://www.sympy.org

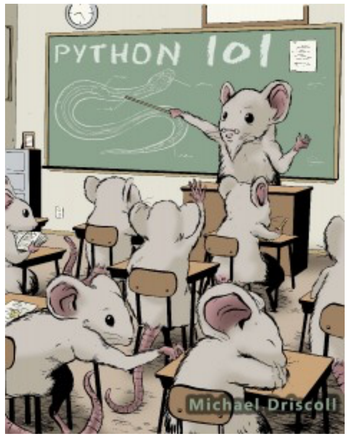
Books



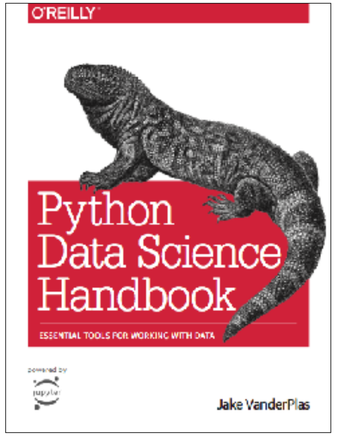
Python Crash Course
by Eric Matthes



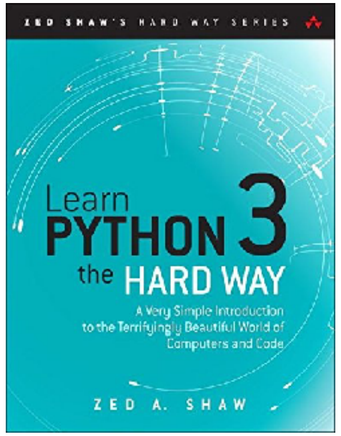
Guide to NumPy
by Travis Oliphant



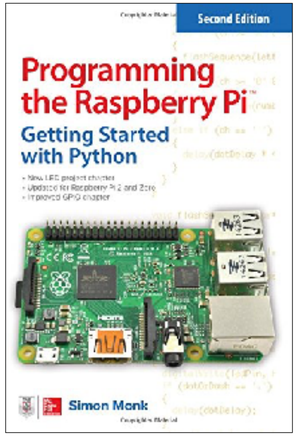
Python 101
by Michael Driscoll



Python Data Science Handbook
by Jake VanderPlas
https://jakevdp.github.io/PythonDataScienceHandbook/



Learn Python 3 the Hard Way
by Zed Shaw



Programming the Raspberry Pi
by Simon Monk

Online Courses and Tutorials

DataCamp
https://www.datacamp.com

Snakify
https://snakify.org

Test Driven Development
http://testdriven.io

LearnPython
https://www.learnpython.org

Coursera
https://www.coursera.org

Udacity
https://www.udacity.com

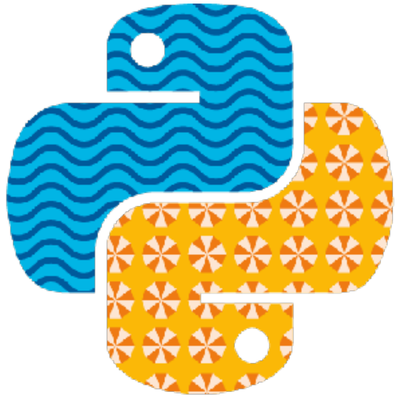
Conferences

SciPy
scientific computing conference
https://conference.scipy.org

PyCon
largest gathering for open-source python
https://us.pycon.org

PyTennessee
regional conference in Nashville
https://www.pytennessee.org

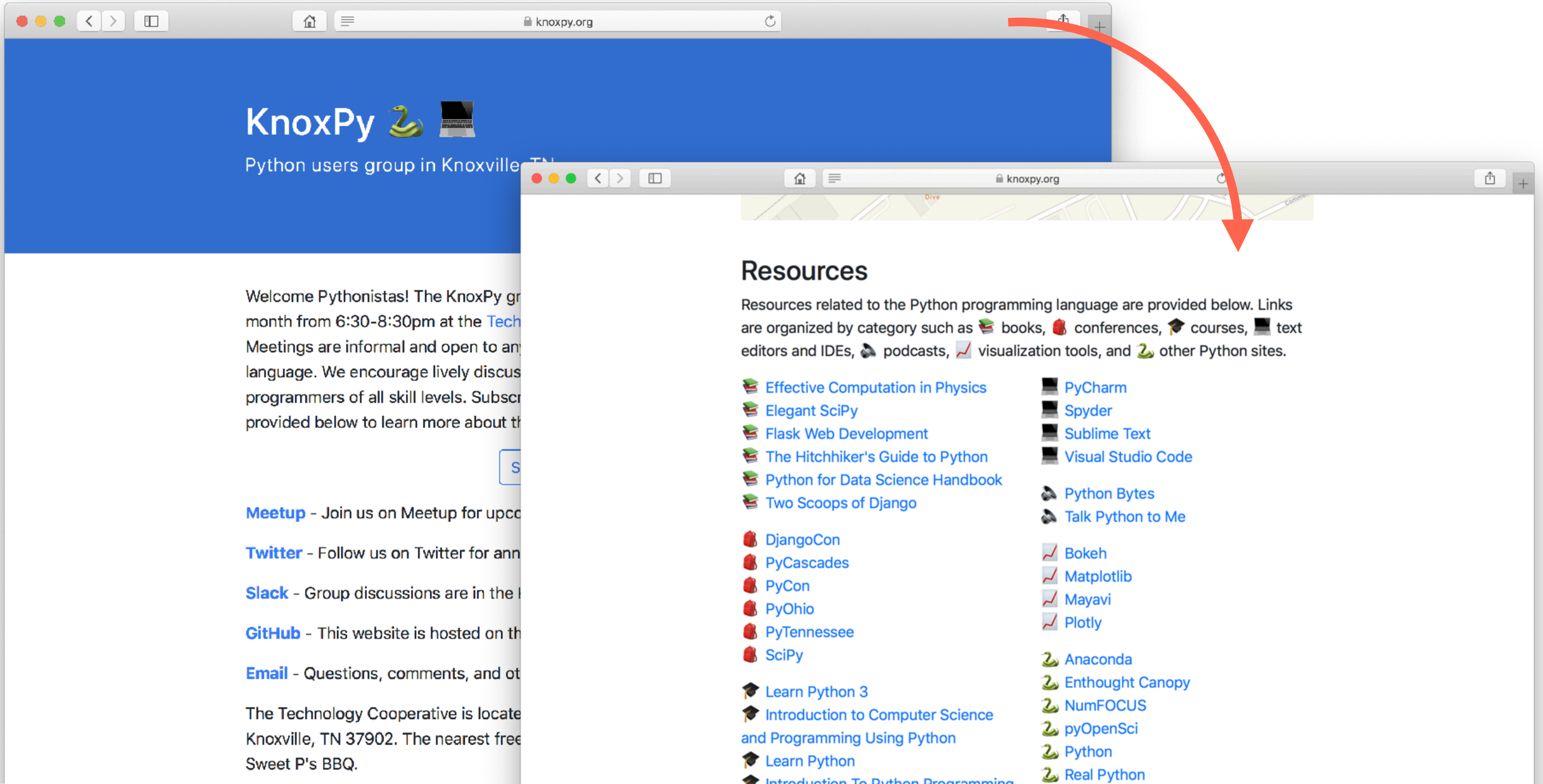
AnacondaCon
open data science conference
https://anacondacon18.io



EuroPython
largest European python conference
https://ep2017.europython.eu/en/

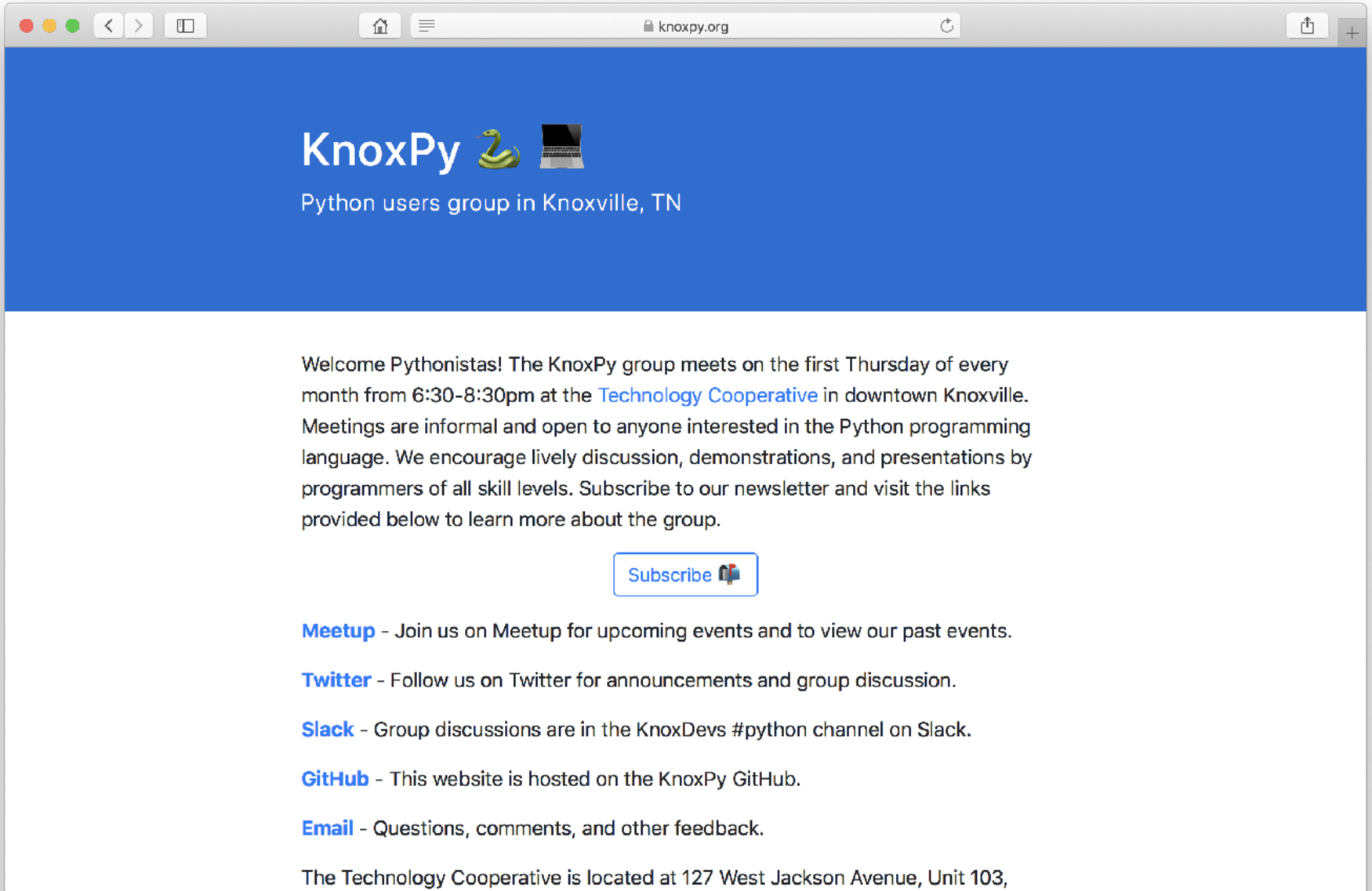
PyOhio
free annual python conference
https://pyohio.org

More Resources



Next steps…

Attend more KnoxPy meetings! https://knoxpy.org



Questions?

KnoxPy website https://knoxpy.org

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