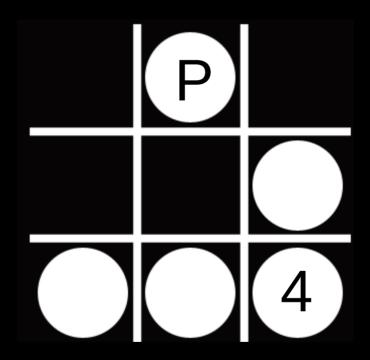


Geography for Hackers



Prepared by Joe Blankenship www.thejoeblankenship.com www.cgrii.org



Agenda

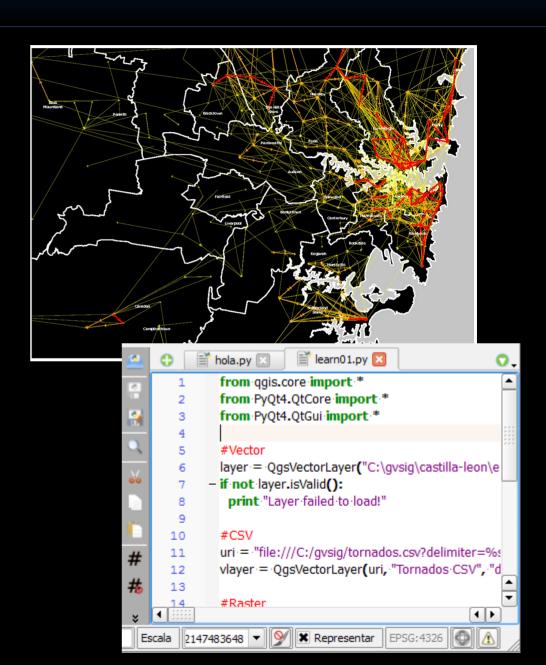
What is PyQGIS?
Concepts
Goals
Other Courses
Resources

https://github.com/joeblankenship1



What is PyQGIS?

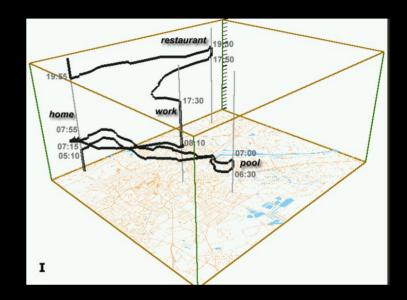
- Python 2.X Library for QGIS
- Open Source!
- Scripts and Plugins
- Automate tasks
- Data and UX
 Manipulation
- Integrate powerful Python libraries into your analysis





Concepts

- Geography
 - Space
 - Place
 - Scale
 - Time

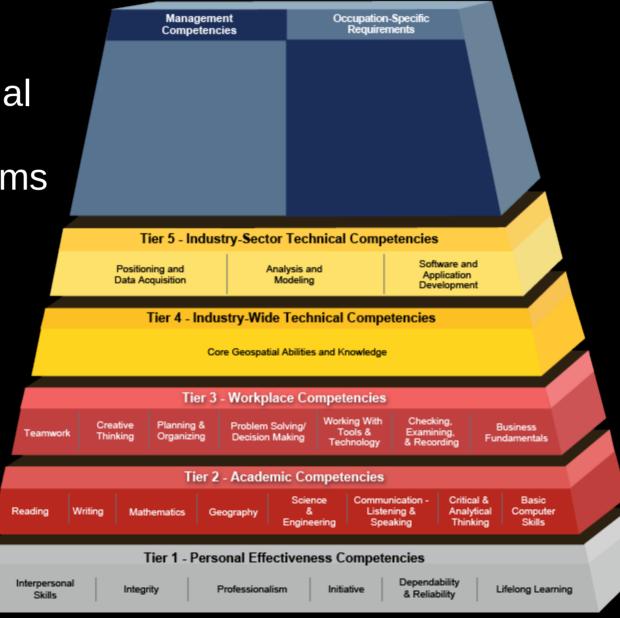


- Why do you need Geography?
 - Spatial relationships
 - Spatial practices
 - Scalability of space and place
 - Mutual production of space/time



Concepts

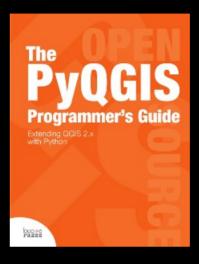
- GIScience
 - Use of geospatial technologies to examine problems in human and physical geographies
 - GeographicInformationSystems (GIS)





Goals

- Basics
 - Download and Setup
 - QGIS 2.X
 - Python 2.X
 - QT
 - PyQT
 - PyQGIS
 - Sample Data
 - Start up and GUI
 - QGIS Console
 - IDE



http://locatepress.com/ppg

http://www.qt.io/developers/





http://locatepress .com/ppg/data_c ode



Goals

- Python Basics
 - Very Quickly... Just the Basics
- QGIS API
 - Documentation, QGIS Classes and Methods, QT Signal and Slots
- Using Console
 - Settings, Functionality, Data Providers
- Applications
 - Writing, Running, Script Runner, Documentation
 - Plugins, Wrappers, Workflow



Other Courses

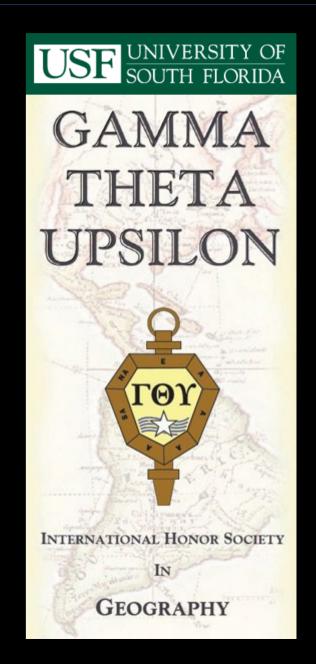
- Introduction to Cartography
- Spatial Analysis with QGIS
- WebGIS with OpenGeo Suite
- Remote Sensing for Hackers





Resources

- USF School of Geosciences
 - http://hennarot.forest.usf.edu/main/depts/g eosci/
 - If you're a USF student, take a course!
- USF GTU-KK
 - Eager Geo-minds wanting to do great things (link coming soon!)
- QGIS
 - http://www.qgis.org/en/docs/index.html
- Boundless
 - http://boundlessgeo.com/
- Python
 - https://www.python.org/





Resources

- R
 - https://www.r-project.org/
- Books
 - Thematic cartography and geovisualization (3rd ed) by Slocum, McMaster, Kessler,& Howard
 - Elements of cartography (6th ed) by Arthur H. Robinson
 - The PyQGIS Programmer's Guide: Extending QGIS with Python by Gary Sherman
- FOSS4G GeoAcademy
 - http://spatialquerylab.com/foss4g-academy-curriculum/
- ColorBrewer
 - http://colorbrewer2.org/flash/index.php
- TypeBrewer
 - http://typebrewer.org/



That's all folks!

Thanks!

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