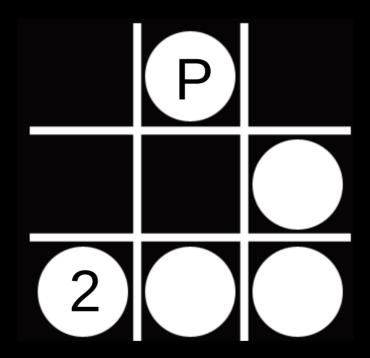


Geography for Hackers



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



Agenda

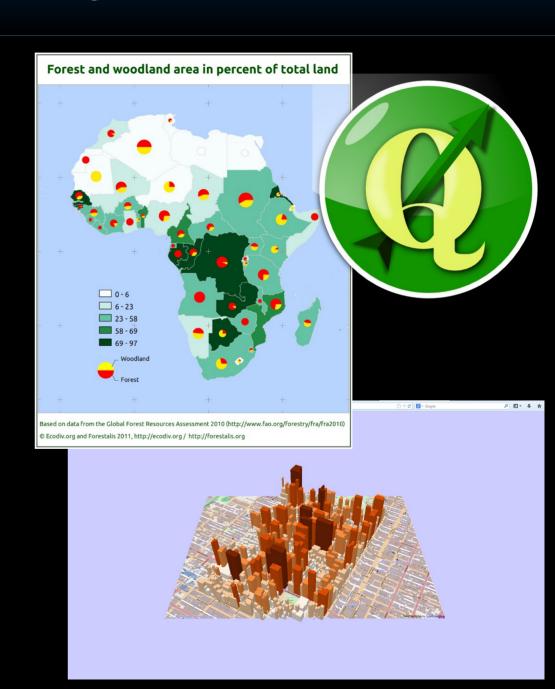
What is QGIS?
Concepts
Goals
Other Courses
Resources

https://github.com/joeblankenship1



What is QGIS?

- GIS Analysis Suite
- Free and Open Source
- Windows, Mac, Linux, BSD, and Android
- Create, Edit,
 Visualize, Analyze,
 Publish
- Desktop, Browser, Server, Web Client, Android (Beta)





What is QGIS?

- Diverse Global User Base
 - World Bank
 - NGOs
 - Local, State, Federal Governments
- Works with...
 - OSM, OpenGeo
 Suite, Python,
 MapBox, Google,
 Oracle, SQLServer,
 Bing, and more!





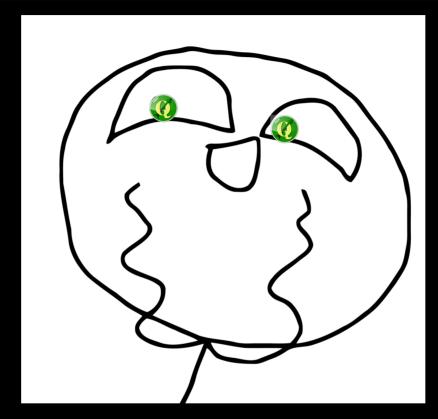








What is QGIS?

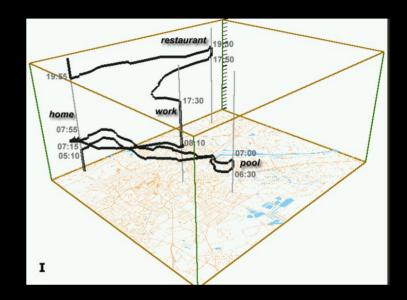


Please Support this Project and Donate!



Concepts

- Geography
 - Space
 - Place
 - Scale
 - Time



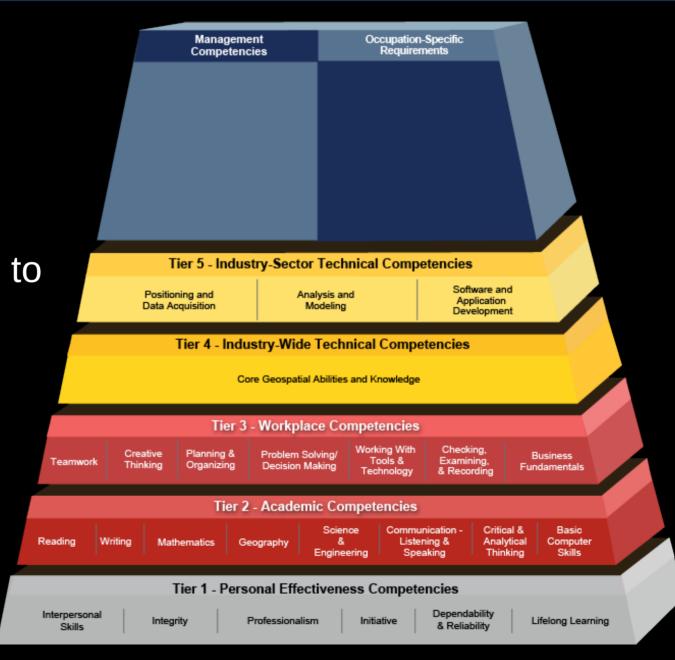
- Why do you need Geography?
 - Spatial relationships
 - Spatial practices
 - Scalability of space and place
 - Mutual production of space/time



Concepts

GIScience

 Use of geospatial technologies to examine problems in human and physical geographies





Goals

- Basics
 - Download and Install
 - Windows, Mac, Linux
 - Start up and GUI
 - "Buttonology"
 - Plugins
 - OpenLayers,
 OpenGeo, Explorer,
 Processing, Plugin
 Builder, GeoSearch
 - Search, Update, Install

- Tools
 - Selection Tools
 - Density Map
 - Projection Tools
 - Resampling
 - GeoStats
- Vector Data and Analysis
- Raster Data and Analysis



Other Courses

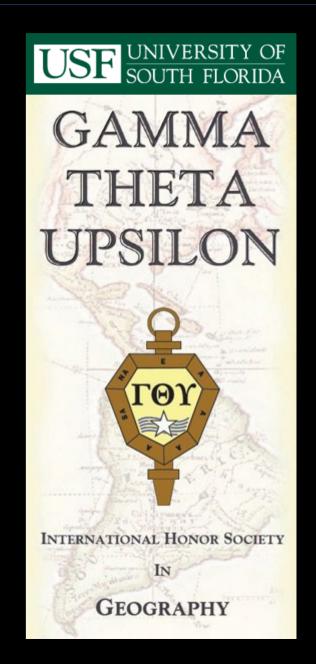
- Introduction to Cartography
- WebGIS with OpenGeo Suite
- Python Programming with PyQGIS
 - Remote Sensing for Hackers





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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