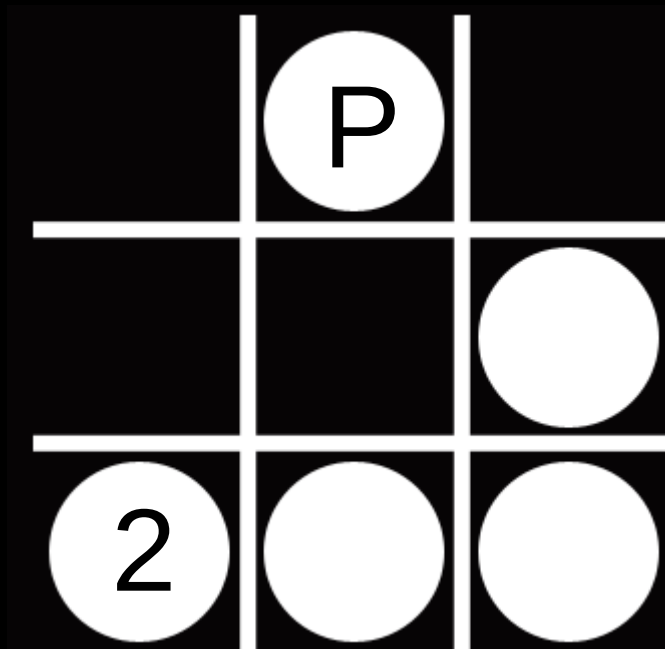




Geography for Hackers



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



Agenda

What is QGIS?

Concepts

Goals

Other Courses

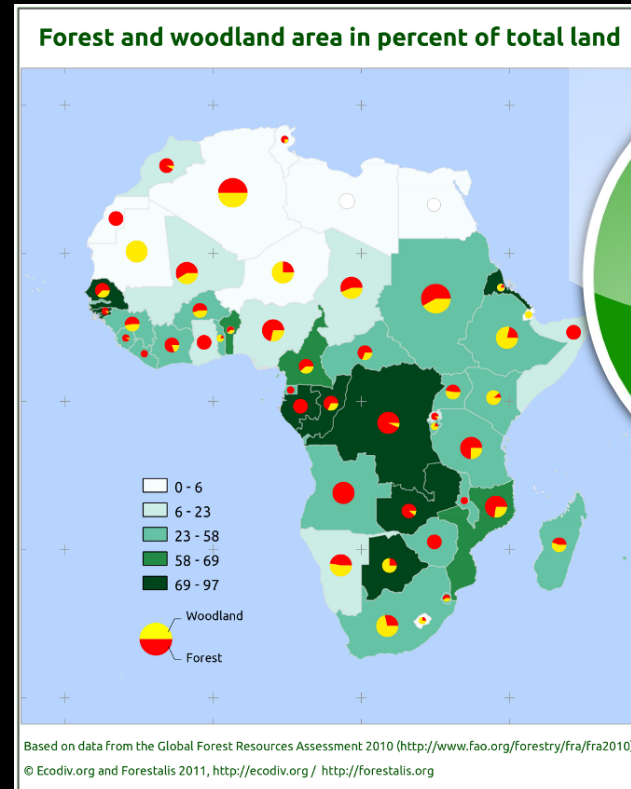
Resources

<https://github.com/joeblankenship1>



What is QGIS?

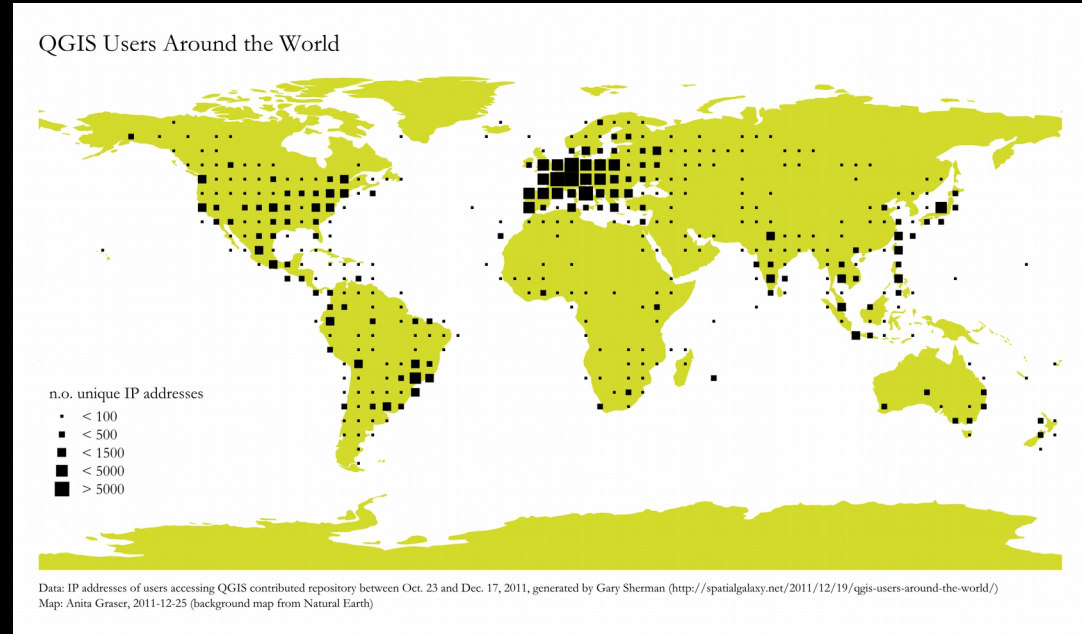
- GIS Analysis Suite
- Free and Open Source
- Windows, Mac, Linux, BSD, and Android
- Create, Edit, Visualize, Analyze, Publish
- Desktop, Browser, Server, Web Client, Android (Beta)



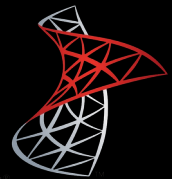


What is QGIS?

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



Google



Microsoft

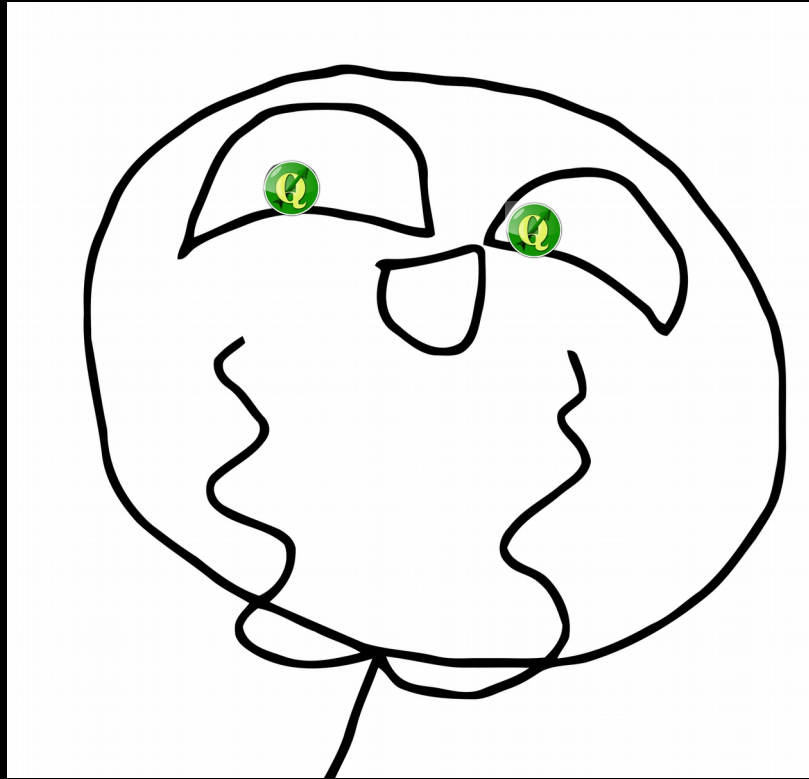


ORACLE®

bing



What is QGIS?

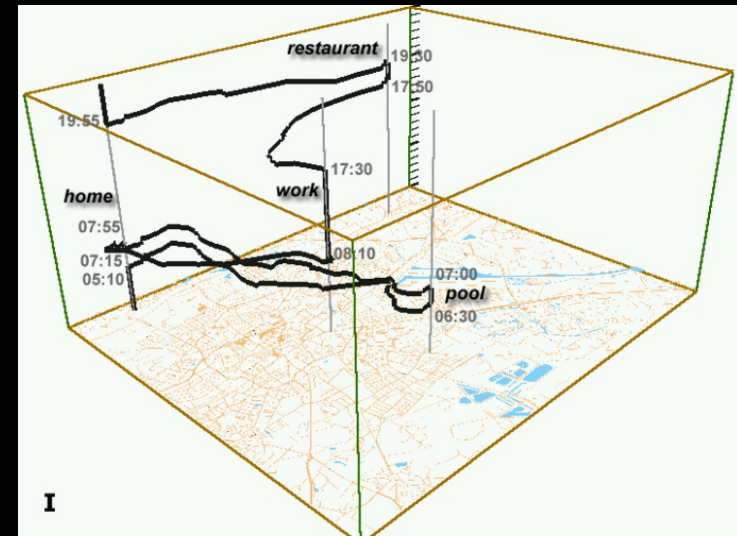


Please Support this
Project and Donate!



Concepts

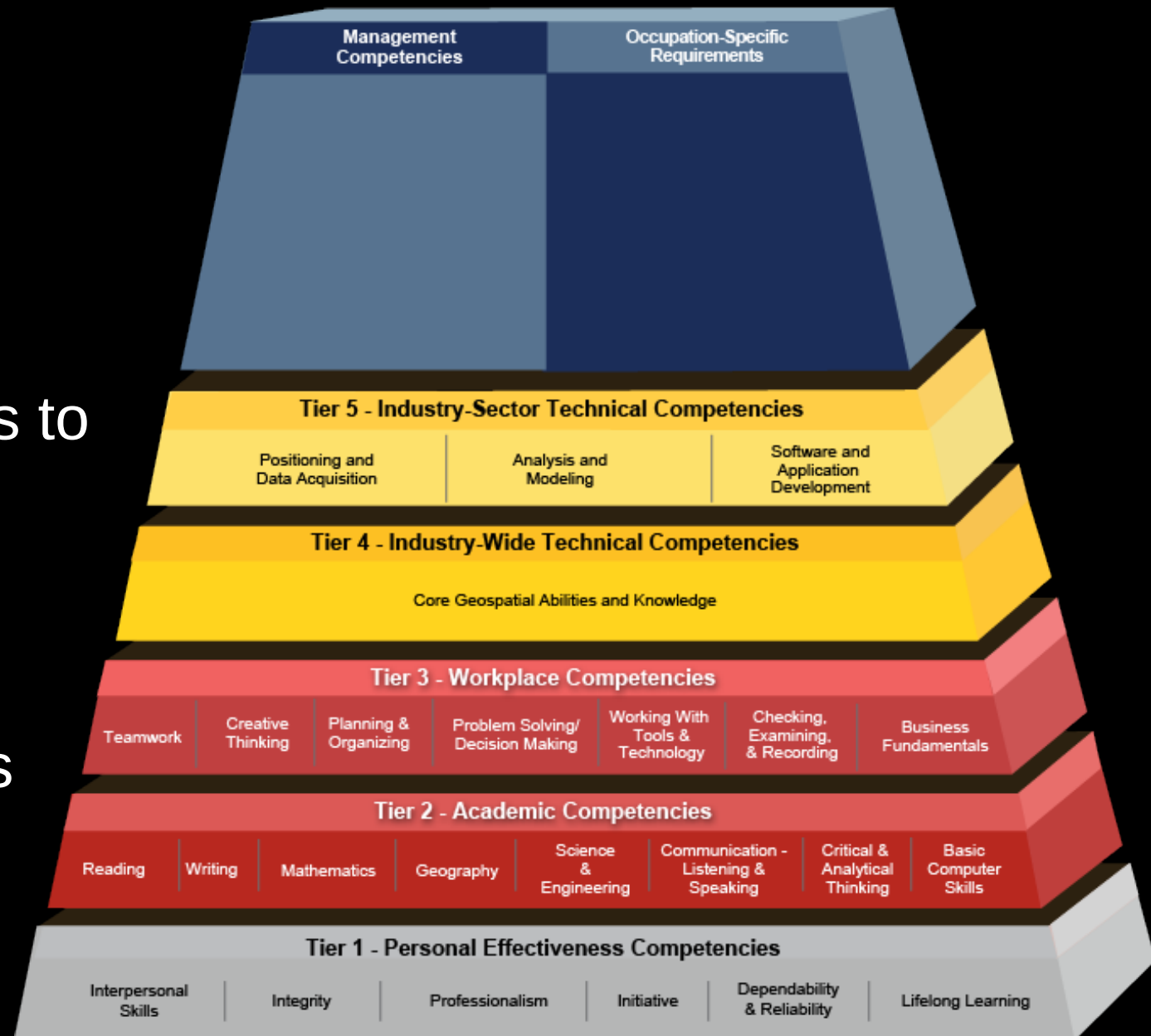
- Geography
 - Space
 - Place
 - Scale
 - Time
- Why do you need Geography?
 - Spatial relationships
 - Spatial practices
 - Scalability of space and place
 - Mutual production of space/time





Concepts

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





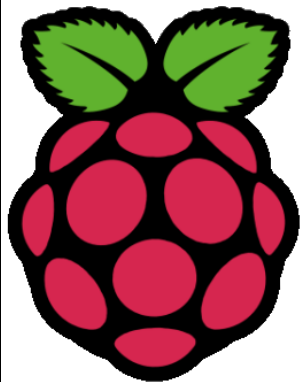
Goals

- 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



RaspberryPi



ARDUINO
OPEN - SOURCE
COMMUNITY





Resources

- QGIS
 - <http://www.qgis.org/en/docs/index.html>
- Boundless
 - <http://boundlessgeo.com/>
- Python
 - <https://www.python.org/>
- 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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