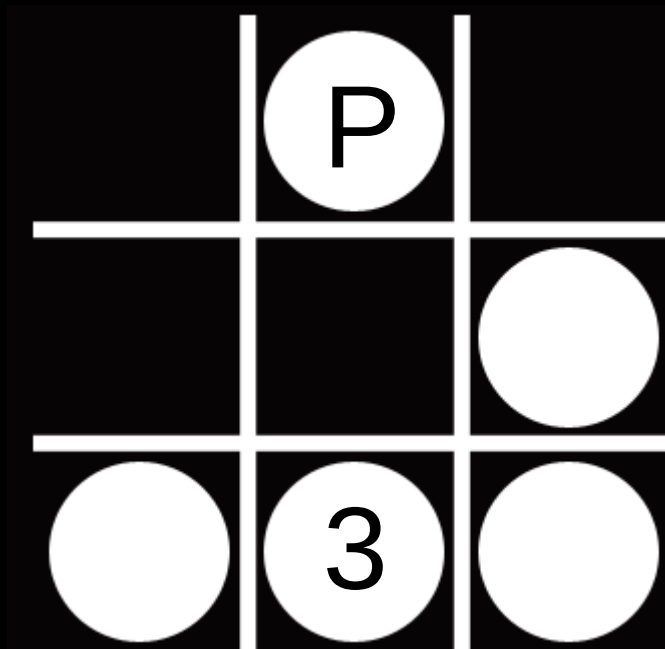




Geography for Hackers



Prepared by Joe Blankenship
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www.cgrii.org



Agenda

What is OpenGeo Suite?

Concepts

Goals

Other Courses

Resources

<https://github.com/joeblankenship1>



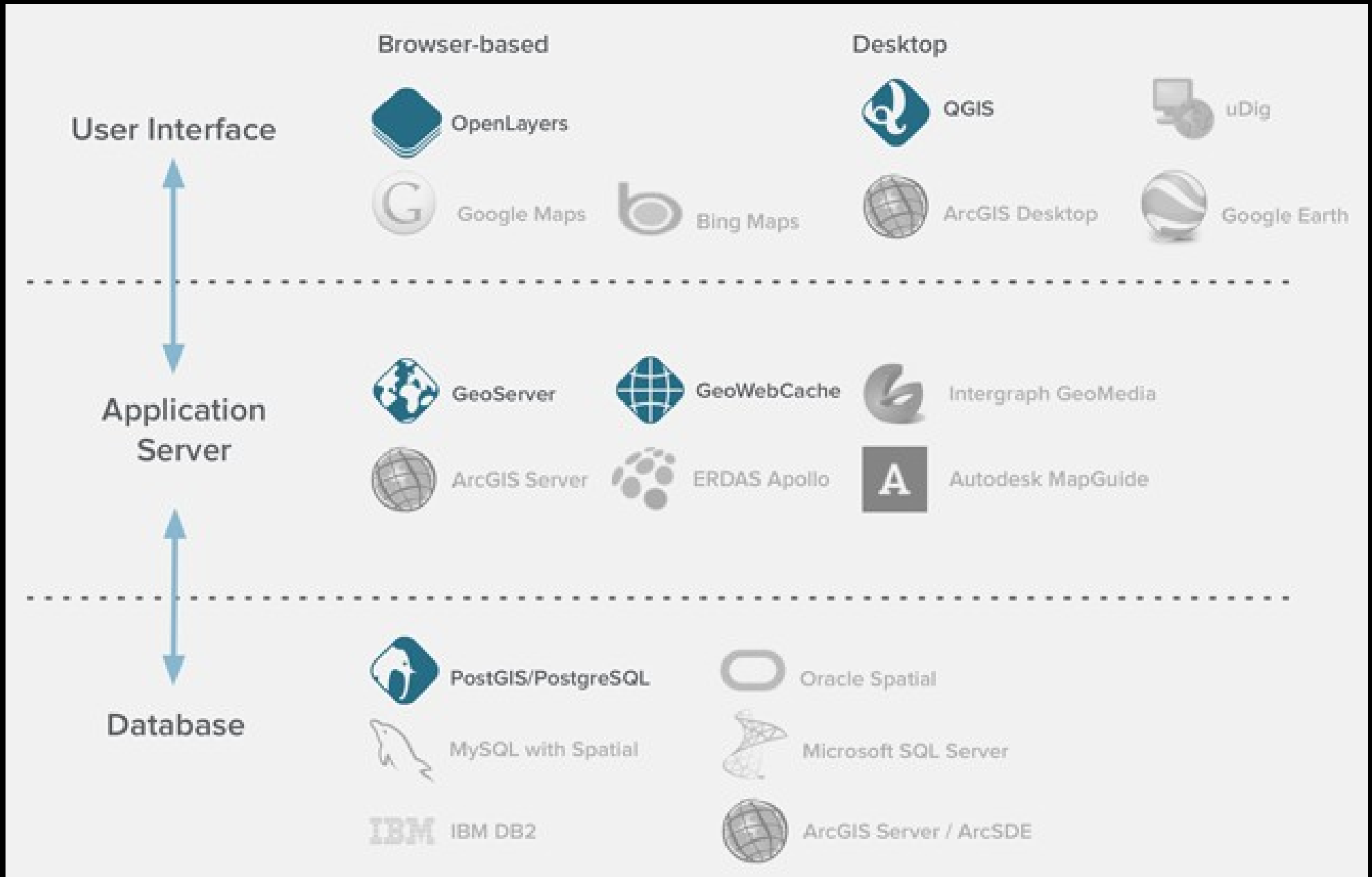
What is OpenGeo Suite?

- Suite built with Open Source Software
- Manage Data, Publish Maps, Build Apps, Analytic Tools
- PostGIS, GeoServer, GeoWebCache, OpenLayers, and More
- Web, Desktop, and Mobile
- Cloud Instances (AWS, Azure)





What is OpenGeo Suite?





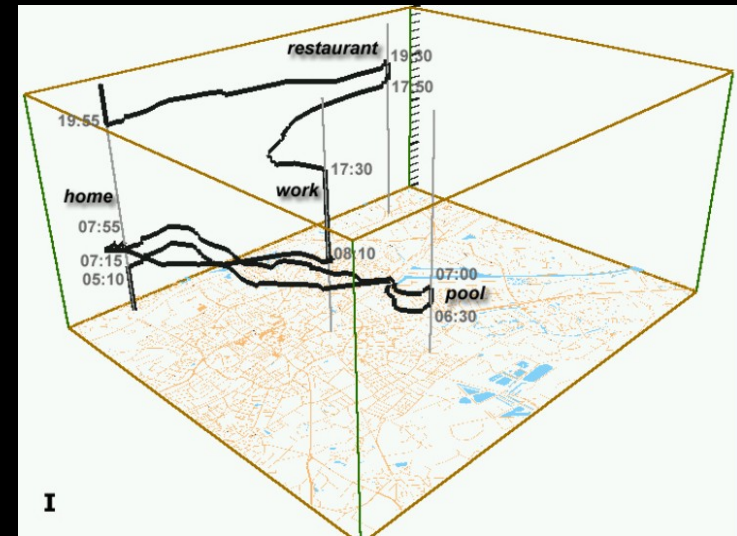
What is OpenGeo Suite?





Concepts

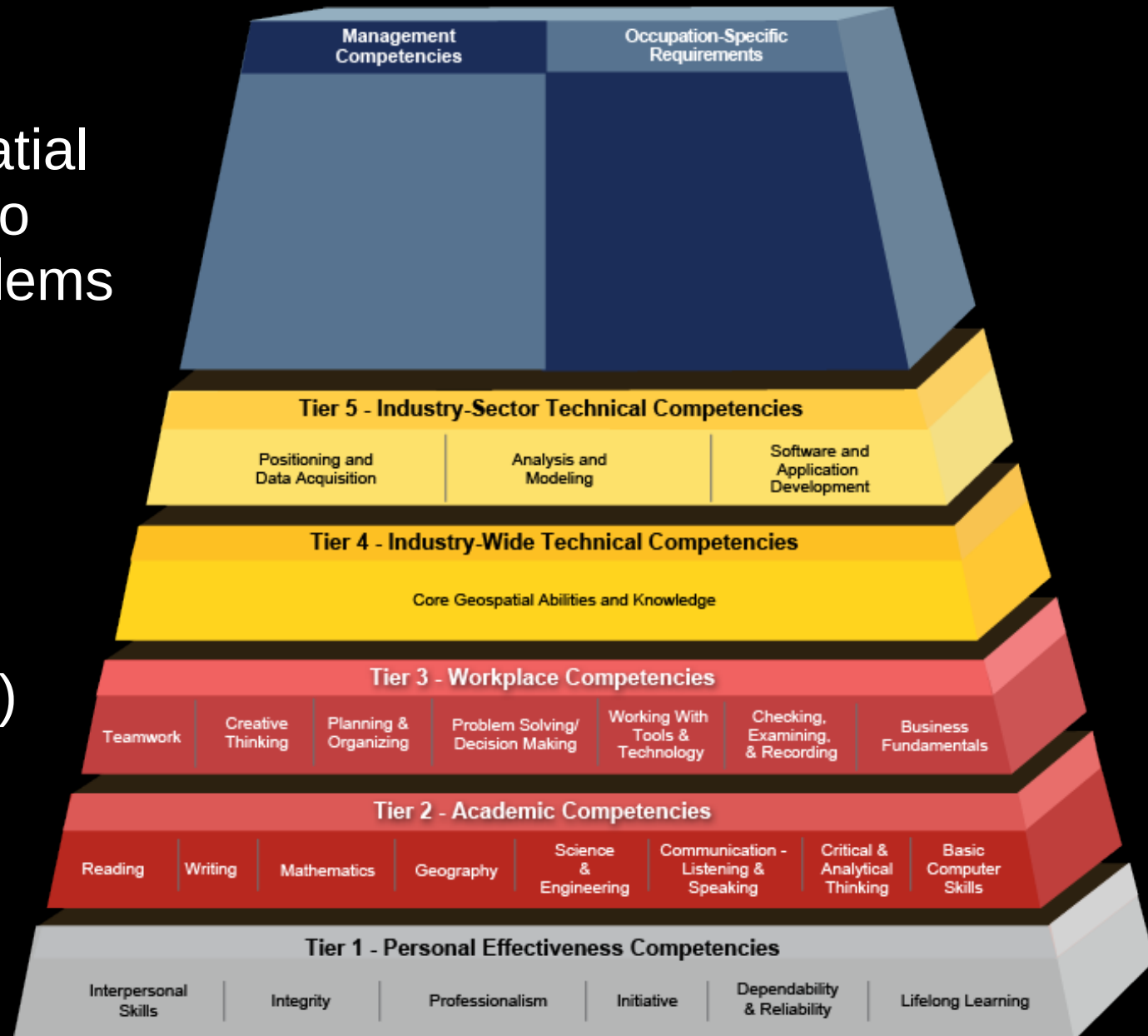
- Geography
 - Space
 - Place
 - Scale
 - Time
- Why do you need Geography?
 - Spatial relationships
 - Spatial practices
 - Scalability of space and place
 - Mutual production of space/time





Concepts

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





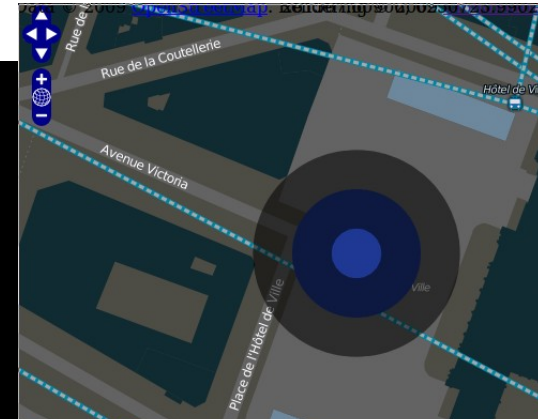
Goals

- Basics
 - Download and Install
 - Windows, Mac, Linux
 - VirtualBox
 - OpenGeo Suite
 - Optional
 - GeoNode
 - GeoGig
 - Start up and GUI
 - Bash (SSH, Putty)
 - Web Interface
- PostGIS
 - PostgreSQL
 - PGAdminIII
- GeoServer
 - Security
 - Data (QGIS, Raw)
 - Connections
 - Data Management
 - Group Policy

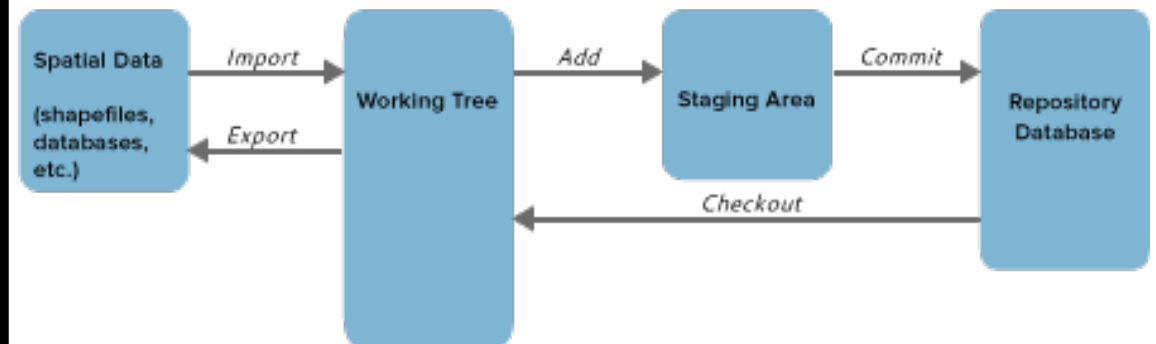


Goals

- GeoWebCache
 - Tiling Overview
- OpenLayers
 - Create Web Map
 - Data
 - Styling
 - Publication
 - URL Manipulation
 - GeoNode
- GeoGig
 - Versioning



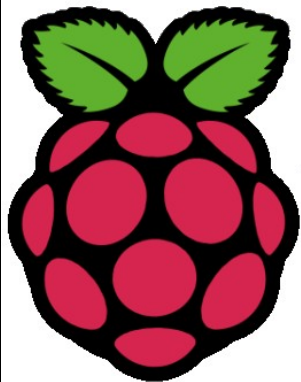
GeoGit Workflow





Other Courses

- Introduction to Cartography
- Spatial Analysis with QGIS
- Python Programming with PyQGIS
- Remote Sensing for Hackers



RaspberryPi



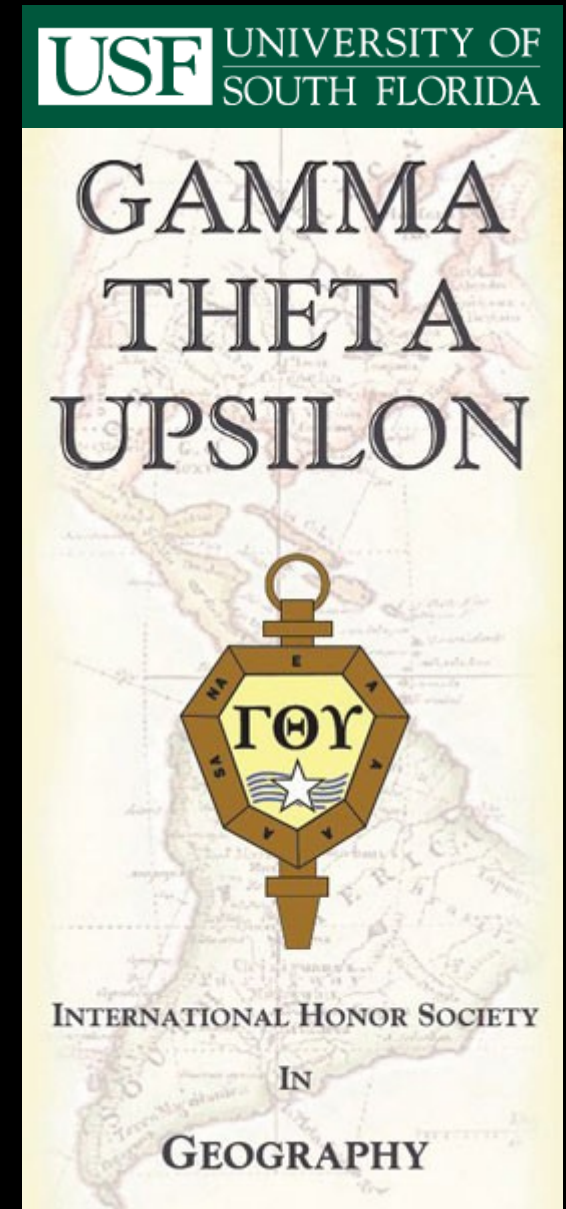
ARDUINO
OPEN - SOURCE
COMMUNITY





Resources

- USF School of Geosciences
 - <http://hennarot.forest.usf.edu/main/depts/geosci/>
 - 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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