

QGIS

LEARNING THE
KEYSTROKES TO BRING
YOUR CONCEPTS TO LIFE!

Lecture Summary...

- Discover the difference between GIS application tool
- Development of useful GIS data storage techniques and their importance
- Identify the applications of the QGIS Desktop versus Browser
- Introduction to the 'Geography of Keystrokes'
 - ▶ Layers,
 - ▶ Data frames,
 - Symbols
 - ▶ Labels
 - ▶ And much more

GIS software "The code behind the Keystrokes"

- Quantum GIS (QGIS) (We WILL use this software this semester)
 - ▶ Open-source GIS <u>Freeware download</u>
 - ► QGIS User guide v.-1.8
 - Our 'textbook' = A Gentle Introduction to GIS
 - ► Helpful resources
 - Additional videos, worksheets, and tutorials (with sexy South African accents!)
- ESRI ArcGIS (We will NOT use this software this semester)
 - ▶ What is GIS
 - ► ESRI Freeware = ArcExplorer
 - ► GIS Dictionary



GIS application tools

- QGIS Browser Data Search and Management
 - ► Equivalent to Windows Explorer

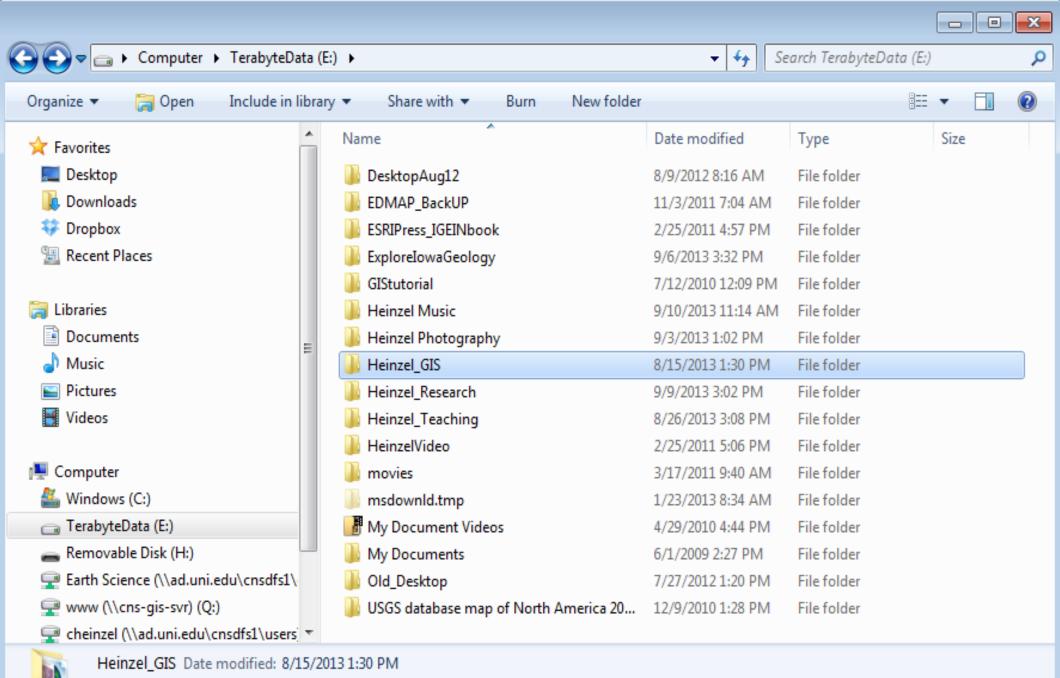
QGIS Desktop – Data manipulation (Developing your Maps!)

Downloading QGIS

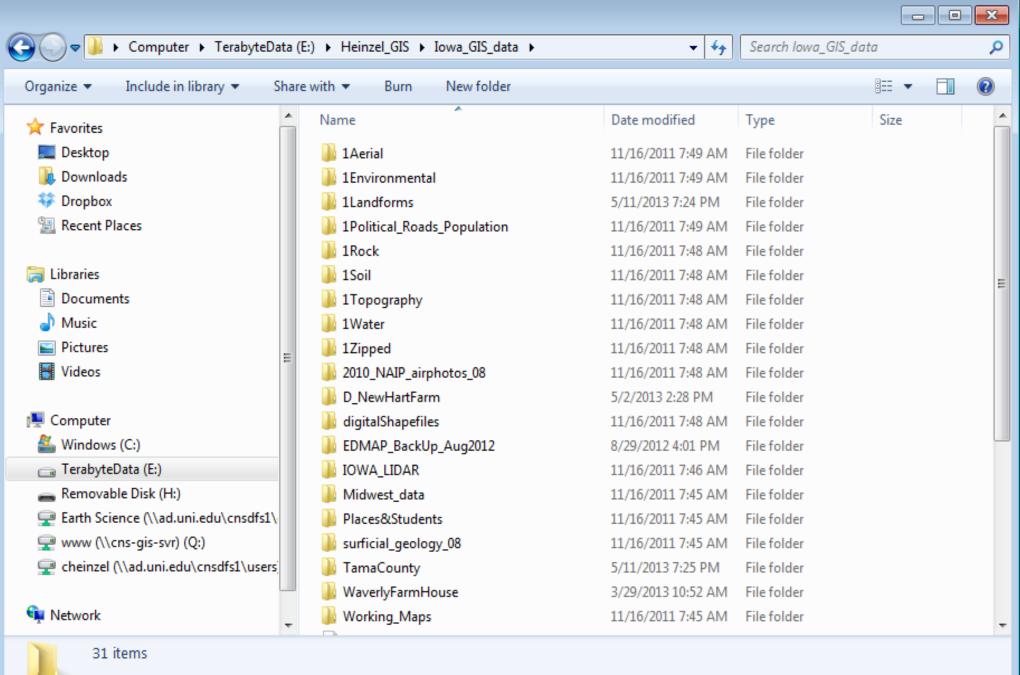
- Windows, Macintosh, Linux, Android...
- ▶ Download link again...
- Homework (part one) for week 3 is to download this software to your computer
 - ▶ Make sure you have administrative rights on your computer
 - ► Make friends with your school's digital technology technician

Homework (part 2) week three

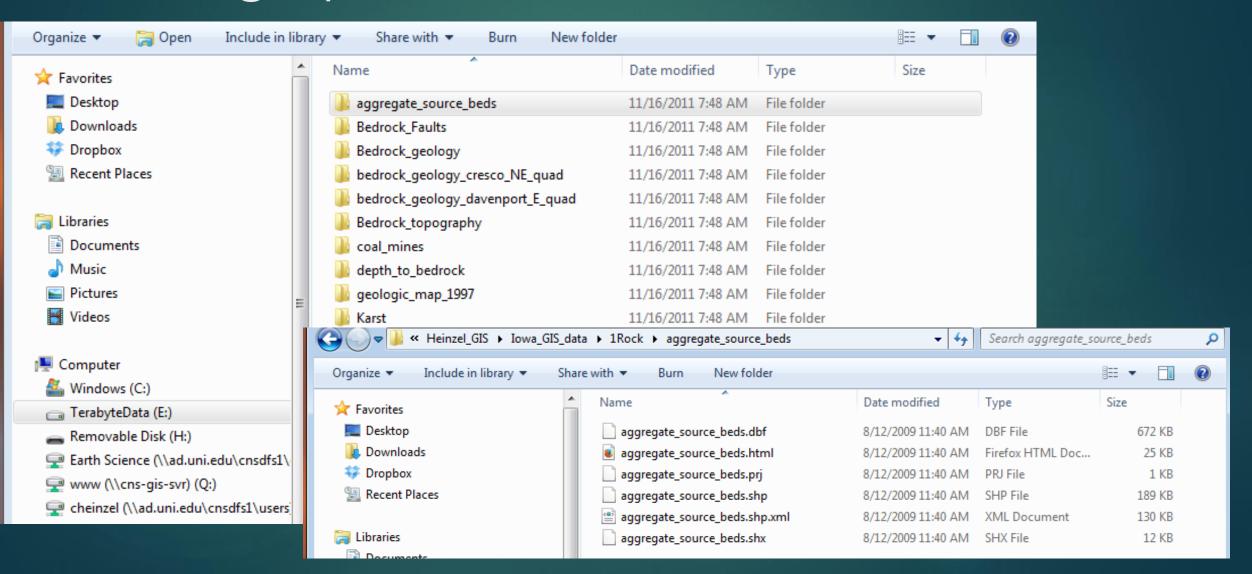
- ▶ Get ready to store GIS data on your computer...
- What type of GIS projects do you want to develop? OR What kind of GIS data do you think you might work with?
- Make a fold in your 'My Documents'
 - ▶ Last_name_GIS
 - eg. Heinzel_GIS
- Develop additional folders for specific data



File folder

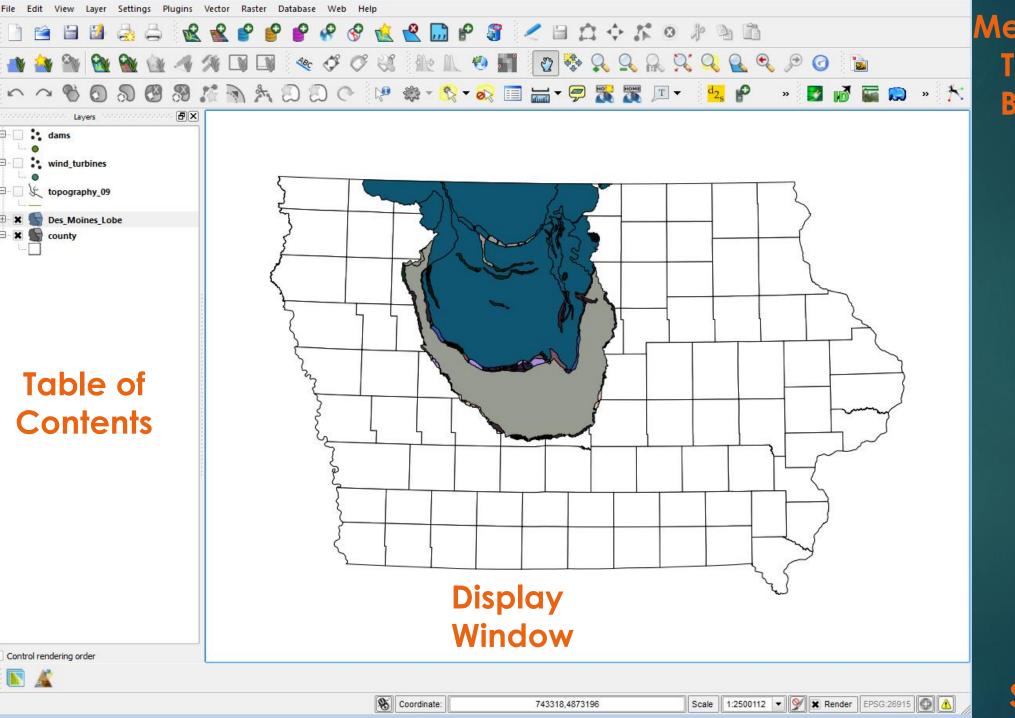


Importance of developing a data storage plan



QGIS Desktop...

- Displaying and working with data
 - ▶ Importing/deleting map layers
 - Editing
 - Querying
 - ▶ Analyzing
 - ▶ Graphing
 - ▶ Reporting



Menu & Tool Bars

QGIS Desktop

Status Bar

Layers

- Layer
 - Represents georeferenced data

- Table of contents
 - Organizes the layers

- Map
 - Layers
 - Map elements (symbols, text, photos etc.)

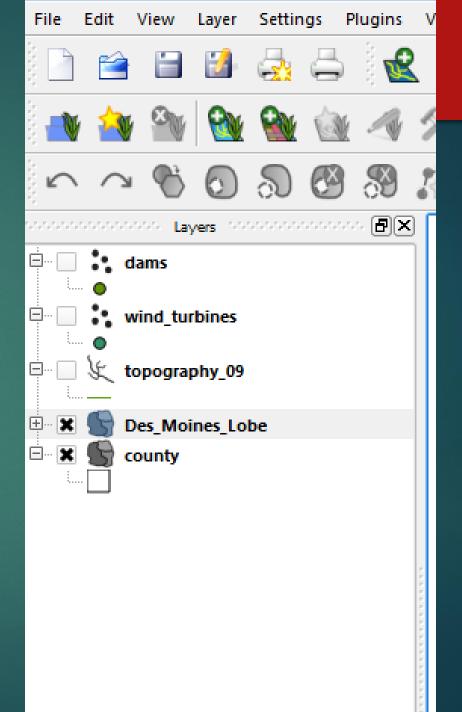
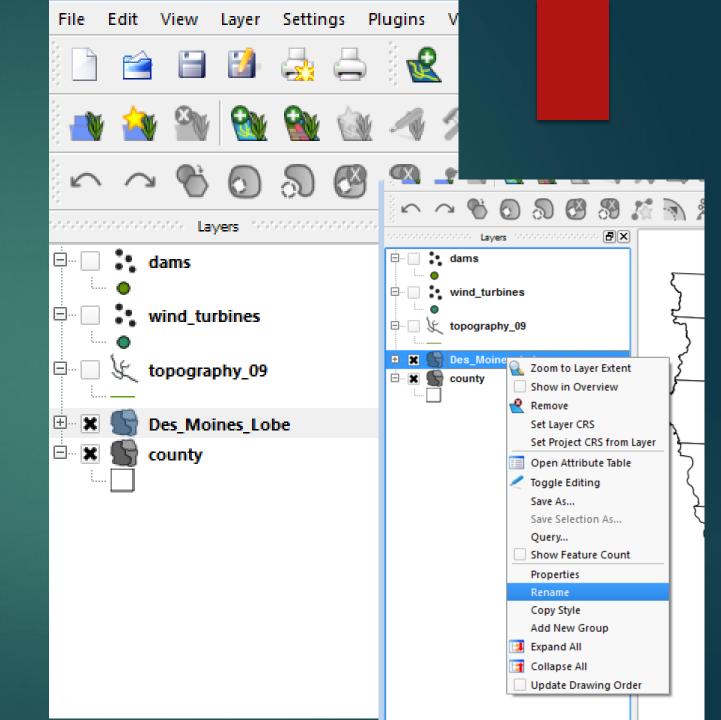
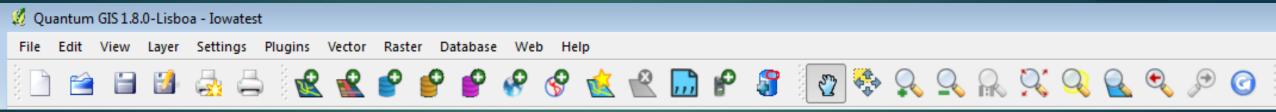


Table of Contents

- Drag layers up or down to change display order
- Rename Layers
- Remove Layers
- Via the 'Power of Right Click' (windows)

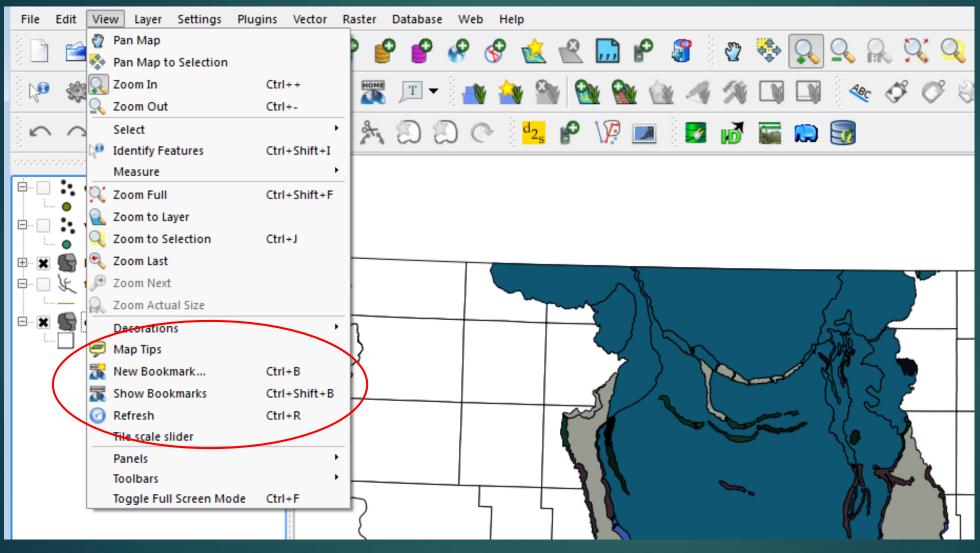


Navigating around your Map



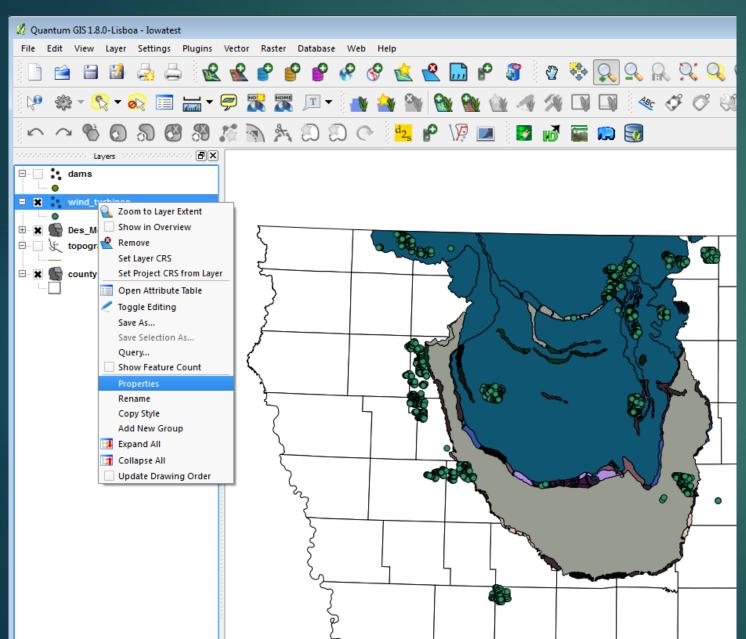
- Zoom in or out
- Pan
- Full extent
- ▶ Hold mouse over icon to identify!

Using bookmarks



- Set/bookmark a location's extent
- Return to it at anytime

Layer Properties



Changing Symbol properties

