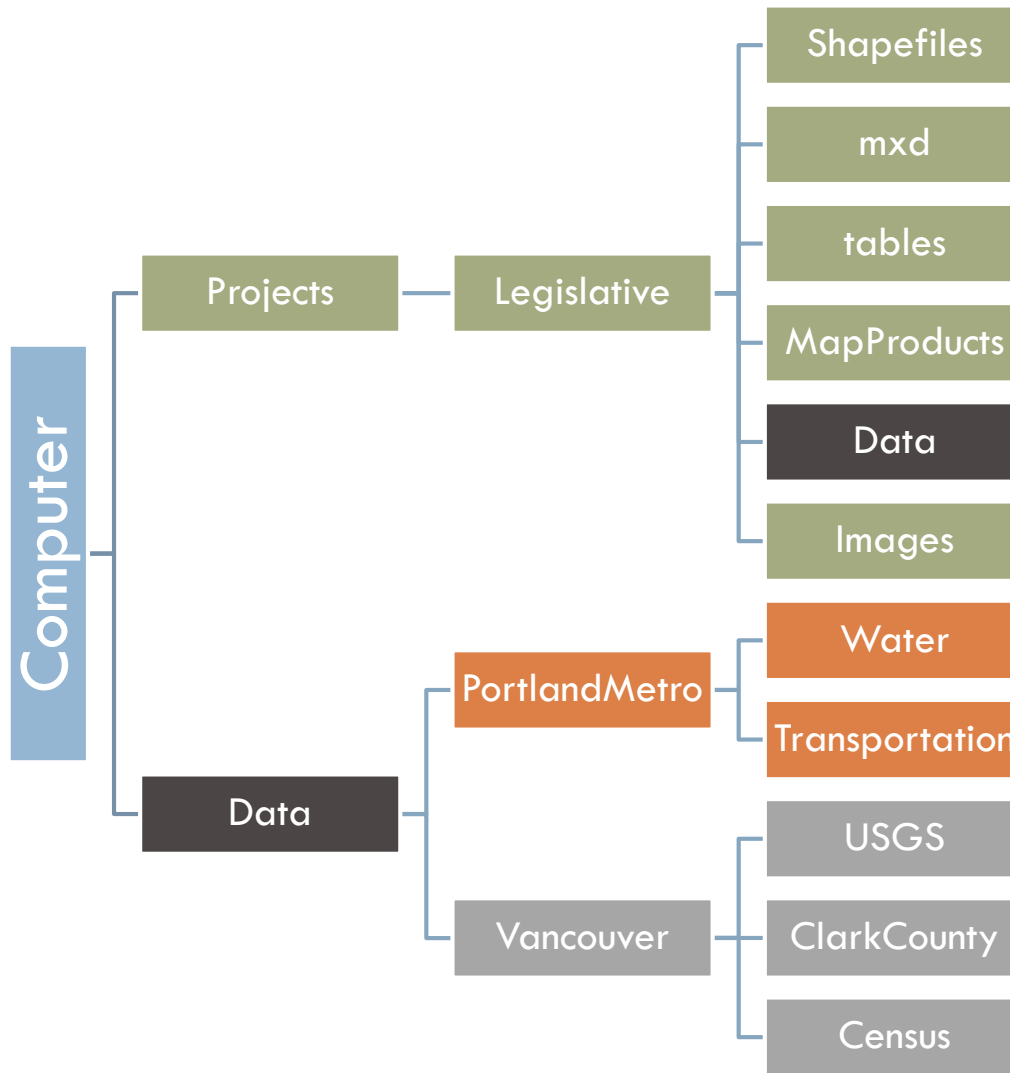


# DATA & PROJECT MANAGEMENT

GIS Analysis | Winter 2016

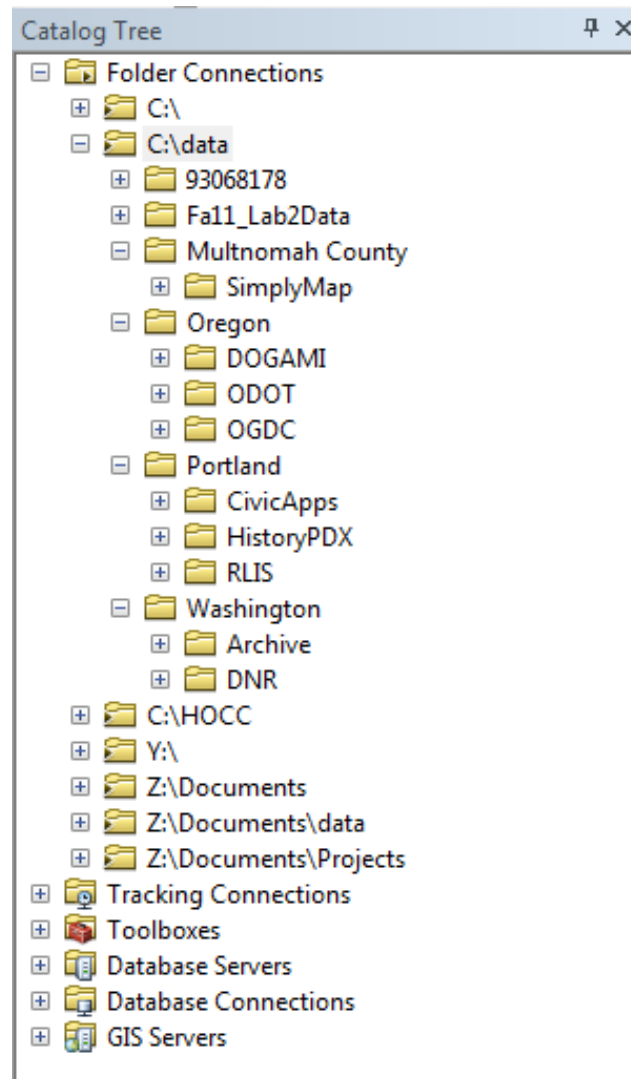


# Data Management

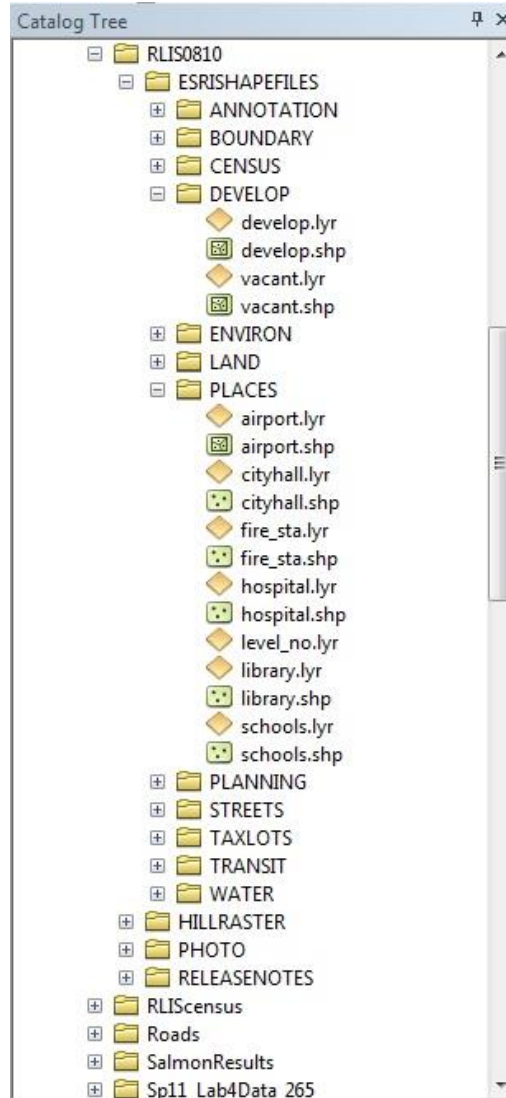


- GIS data can get complicated quickly!

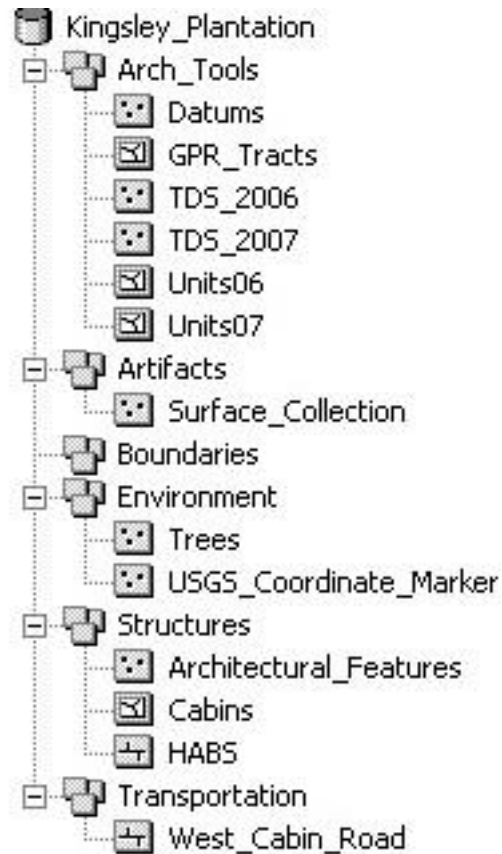
# GIS data Structure by Location & Source



# GIS data structure by topic

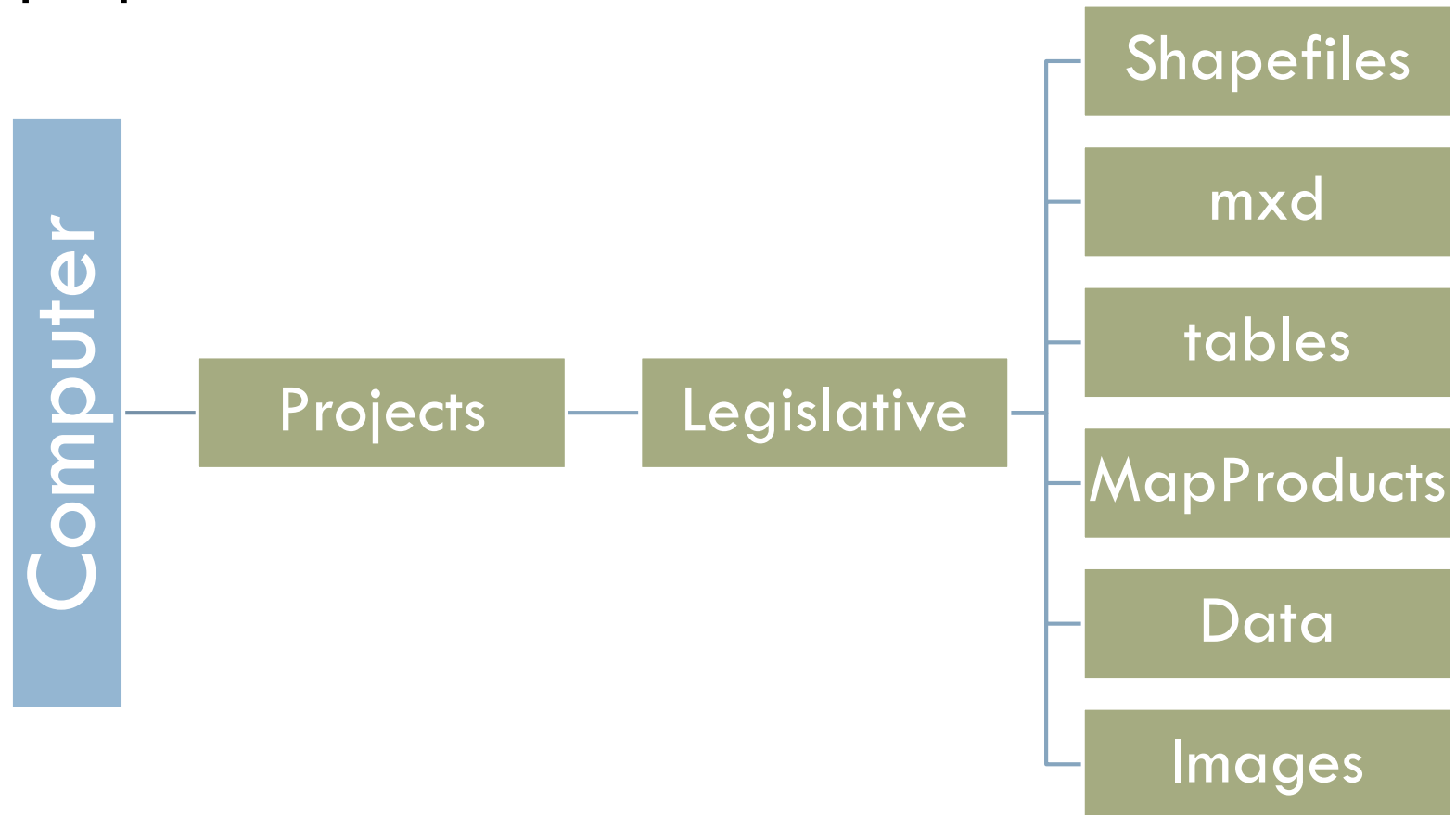


# Geodatabase as data structure

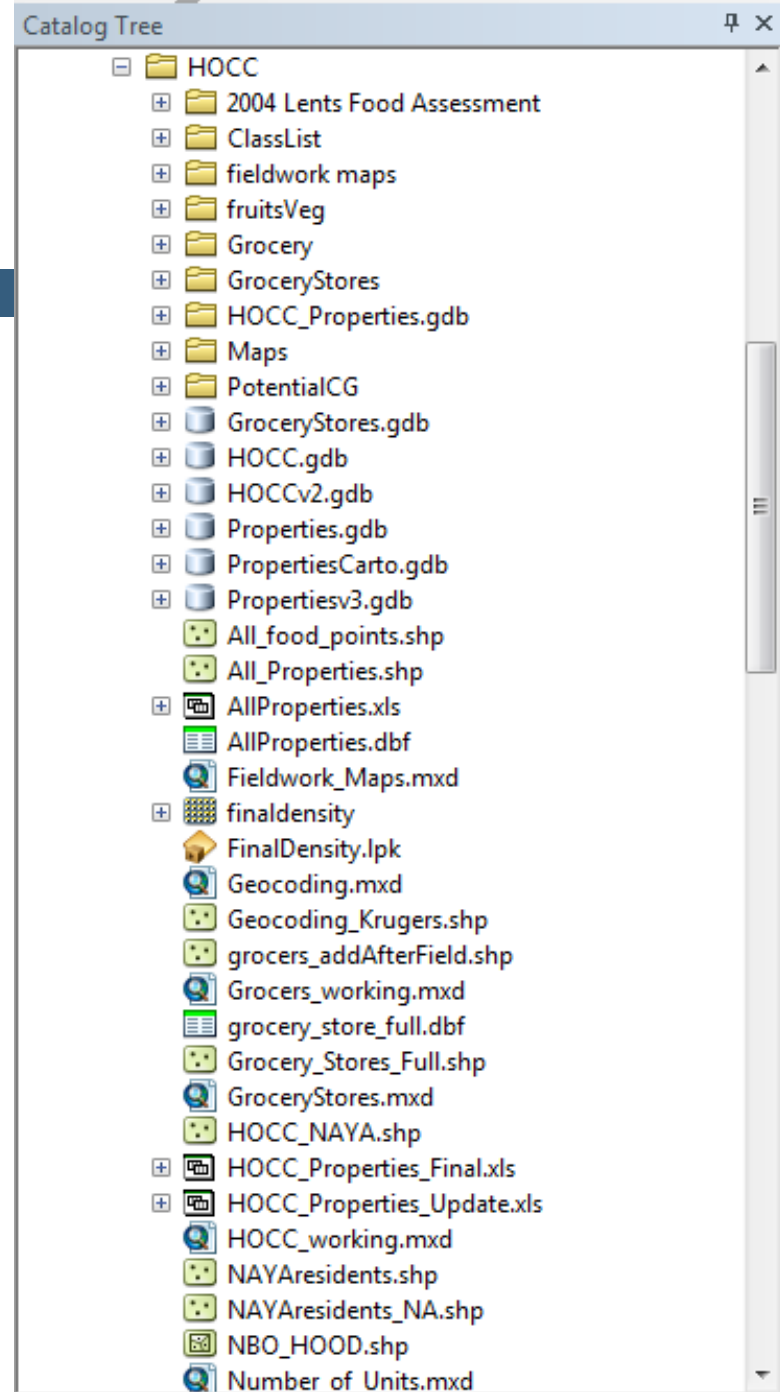


# Project Management

- Create a standard directory structure for each GIS project

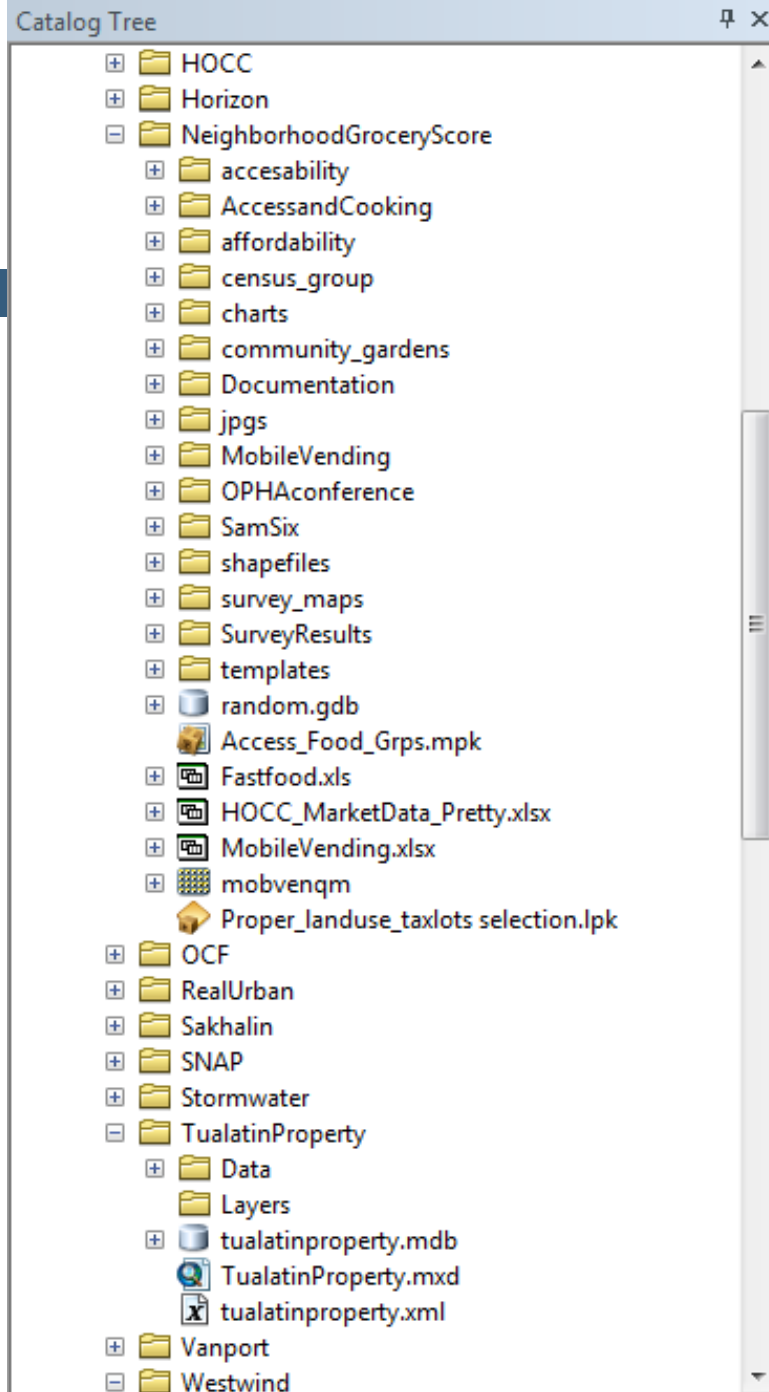


Poor ☹️





# Improved 😊

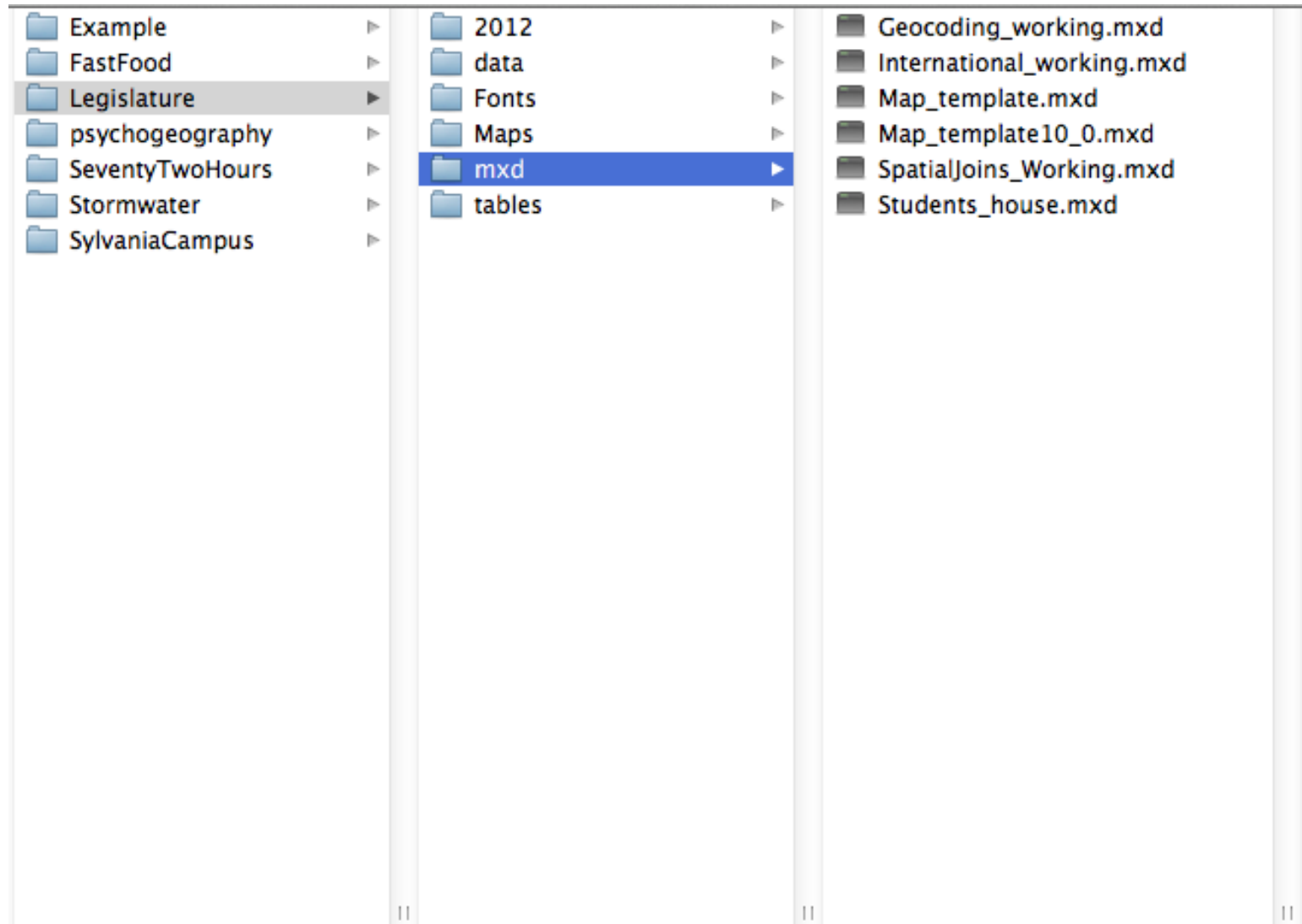


# Improved 😊

Catalog Tree

- [-] TualatinProperty
  - [+] Data
  - Layers
  - [+] tualatinproperty.mdb
  - TualatinProperty.mxd
  - tualatinproperty.xml
- [+] Vanport
- [-] Westwind
  - [+] aarons part
  - [+] aerials
  - [+] boundary
  - [+] clipped
  - [+] DEM
  - [+] Eric
  - [+] Hazard
  - [+] Hazards
  - [+] hwynet
  - [+] Kris\_hillshade
  - [+] Maps
  - [-] neils part
    - docs
    - [+] gps
    - [+] jpg
    - [+] lyr
    - [+] mdb
    - [+] metaData
    - [+] mxd
    - [+] mxdTemplates
    - pdf
    - [+] raster
    - [+] shp
    - tbx
    - [+] temp-unkn
    - [+] working
  - [+] View
  - [+] WestWind.mdb
  - [+] WestWindJuly2011.mdb
  - data driven pages.mxd

# Improved 😊

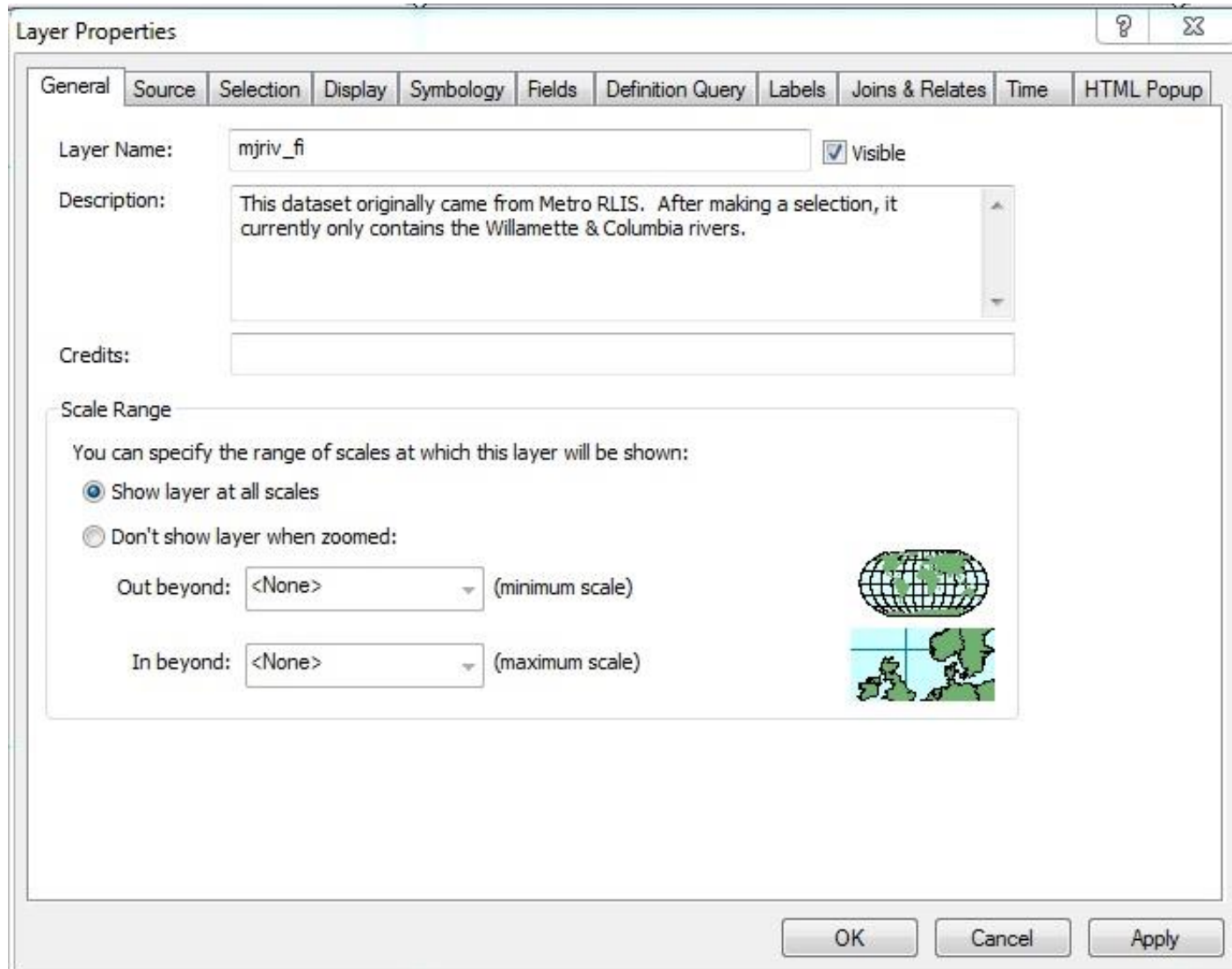


# Data Management



- GIS data can get complicated quickly!
- **Document & create metadata!**

# Add a description to your datasets – newly created or existing




# Edit the metadata if you change or create a new file

Contents Preview Description

Save Cancel

## Item Description

Title U.S. Cities












Delete Update...

Tags

point, cities, capitals, demographics, population, households, location, society, United States , 2000

Summary

Description

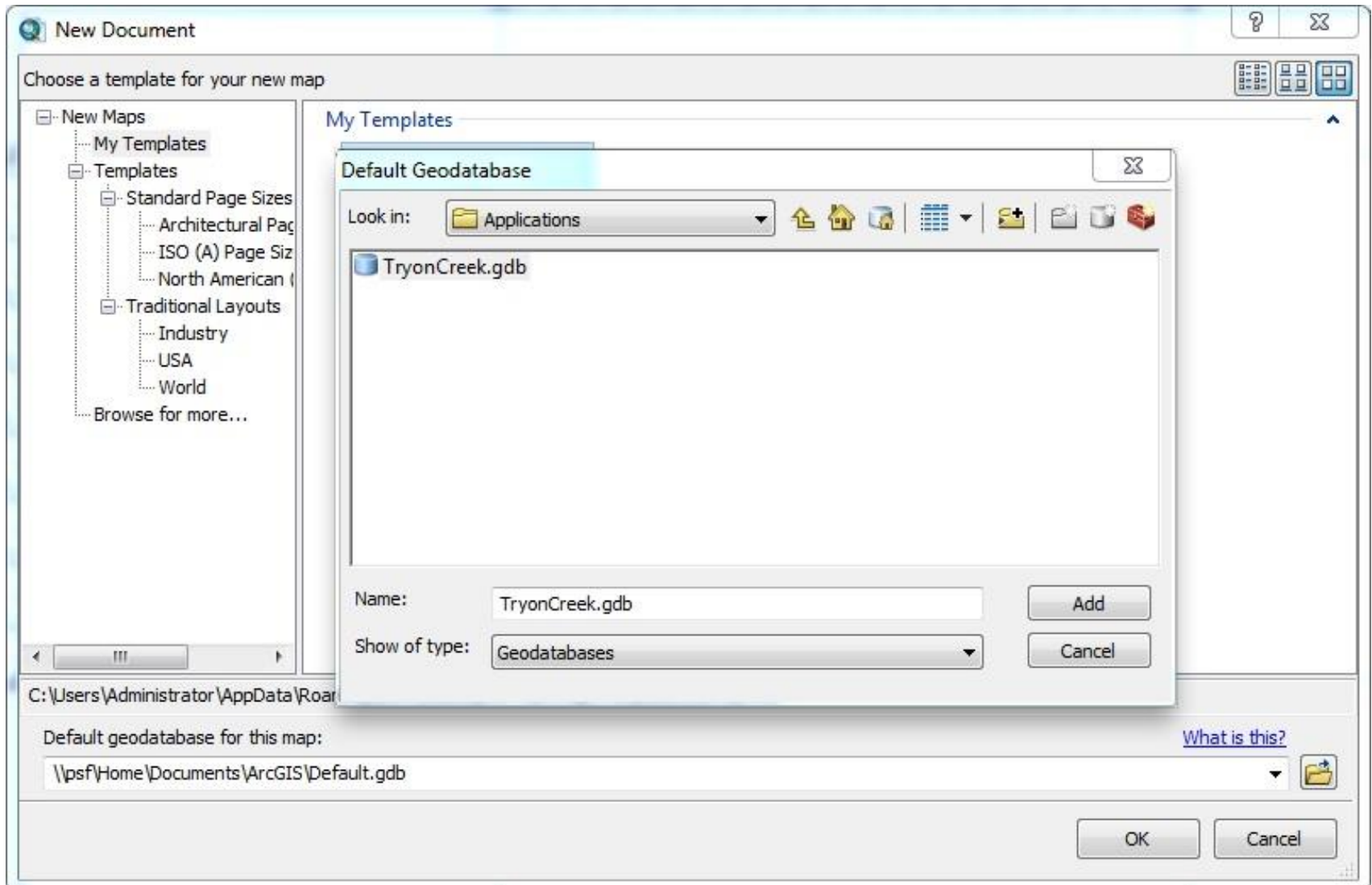
**B** *I* U <sup>A</sup> <sub>A</sub>         

The name by which the cited resource is known. Data type: CharacterString. From: ISO 19115:2003.

# Data Management

- GIS data can get complicated quickly!
- Document & create metadata!
- **Use & set-up the default Geodatabase**

# Use a geodatabase to store all project data in one location





# Data Management

- GIS data can get complicated quickly!
- Document & create metadata!
- Use & set-up the default Geodatabase
- **If you want to change an existing data structure – understand the implications for broken links**

# Data Management

- GIS data can get complicated quickly!
- Document & create metadata!
- Use & set-up the default Geodatabase
- If you want to change an existing data structure – understand the implications for broken links
- **Document your sources**

# Document data sources in a worksheet or document

|   | A               | B             | C   | D           |
|---|-----------------|---------------|---|-------------|
| 1 | Data Set        | Source        | Website   | Notes       |
| 2 | Oregon Counties | OGDC          | <a href="http://www.oregon.gov/DAS/CIO/GEO/pages/alphalist.aspx#c">http://www.oregon.gov/DAS/CIO/GEO/pages/alphalist.aspx#c</a>                   |             |
| 3 | City Limits     | OGDC          | <a href="http://www.oregon.gov/DAS/CIO/GEO/pages/alphalist.aspx#c">http://www.oregon.gov/DAS/CIO/GEO/pages/alphalist.aspx#c</a>                   |             |
| 4 | State House     | OGDC          | <a href="http://www.oregon.gov/DAS/CIO/GEO/pages/alphalist.aspx#o">http://www.oregon.gov/DAS/CIO/GEO/pages/alphalist.aspx#o</a>                   |             |
| 5 | State Senate    | OGDC          | <a href="http://www.oregon.gov/DAS/CIO/GEO/pages/alphalist.aspx#o">http://www.oregon.gov/DAS/CIO/GEO/pages/alphalist.aspx#o</a>                   |             |
| 6 | Hwys            | OGDC          | <a href="http://www.oregon.gov/DAS/CIO/GEO/pages/alphalist.aspx#h">http://www.oregon.gov/DAS/CIO/GEO/pages/alphalist.aspx#h</a>                   | 1:2,000,000 |
| 7 | States          | Census        | <a href="http://www.census.gov/geo/maps-data/data/tiger-cart-boundary.html">http://www.census.gov/geo/maps-data/data/tiger-cart-boundary.html</a> |             |
| 8 | Countries       | Natural Earth | <a href="http://www.naturalearthdata.com/downloads/50m-cultural-vectors/">http://www.naturalearthdata.com/downloads/50m-cultural-vectors/</a>     |             |
| 9 |                 |               |   |             |