ArcGIS Online:
GIS for Everyone

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- **GIS Specialist**
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Previously:
- **GIS Manager**
  Carnegie Museum of Natural History

- **Master of Science in Geography, concentration in GIS and Cartography**
  Indiana University of Pennsylvania

- **Bachelor of Arts in Zoology**
  Ohio Wesleyan University
GIS at Scholarly Commons

• Provide GIS research services and consultation

• Provide GIS workshops and training

• Manage the University Library’s geospatial data and GIS software resources

• Act as a central resource for the University’s GIS community and promote the use of GIS in research
Learning Objectives

• Introduction to ArcGIS Online map viewer to explore, search, and analyze maps

• Work with GIS data in ArcGIS Online

• Understand ArcGIS Online basic web map design and research data visualization
ArcGIS Online
What is ArcGIS Online

- Part of the ArcGIS platform
- Cloud-based web software
- Use, create, and share interactive web maps, apps, and data
- Public vs. Organizational accounts

What is ArcGIS Online

- Collaboration
- Citizen Engagement
- Executive Access
- Work Anywhere
- Content Management
- Workflow Integration
- Maps
- Apps
- Catalog
- Hosting
- Groups
- Content
- Services

Cloud GIS
What is an ArcGIS web map?

• Interactive display of geographic information

• Opens in a standard internet browser (IE, Firefox, Chrome, etc.), mobile devices, and other ArcGIS map viewers

• Contains:
  – Basemaps and Layers
  – Legend and navigation tools

• Saved to your contents in ArcGIS Online account
What is an ArcGIS web map?

1. **Choose an area.**
   Pan and zoom the map to an area or search by its name or address.

2. **Decide what to show.**
   Choose a Basemap then Add layers on top of it.

3. **Add more to your map.**
   Add map notes to draw features on the map.
   Display descriptive text, images, and charts for map features in a pop-up.

4. **Save and share your map.**
   Give your map a name and description then share it with other people.
Exercise 1

Explore the ArcGIS Online Web Interface
GIS Data in ArcGIS Online

• Ready to use maps and data (Search for Layers)
  – Layers already loaded onto ArcGIS Online
  – Layers from a GIS sever

• GIS data layers on the web (Add Layers from Web)
  – Layers from a GIS sever
  – Google KML (.kml or .kmz)
  – GeoRSS
  – Delimited text files (.csv or .txt)
GIS Data in ArcGIS Online

• GIS data files (Add Layers from File)
  - Shapefiles
    • Must be compresses as .zip and include all files
    • Maximum of 1,000 features
  - Delimited text files (.csv or .txt)
    • Comma, semi-colon, or tab delimited tables
    • Must include lat/long or addresses to geocode locations
    • Maximum of 250 features if using addresses to geocode
    • Maximum of 1,000 features with lat/long
  - GPS Exchange Format (.gpx)
    • Waypoints (points)
    • Tracks (lines)
    • Routes (lines)
Shapefiles

• A vector data storage format for storing the location, shape, and attributes of geographic features

• Stored in a set of related files and contains one feature class – at least three different files to make a shapefile

• Uses a simple, flat table structure
GIS Data in ArcGIS Online

- **Map Notes (Add Map Notes)**
  - Good for quickly adding data
  - Add general info to the map for presentation purposes
  - Many templates to choose from
Exercise 2

Adding Data to the Web Map
Demonstration 1

Web Map Design
Demonstration 2

Sharing Maps and Creating Apps