



Introduction to GIS with ArcGIS Pro

Getting Started with ArcGIS Pro: Map Navigation and Data Exploration

Session 2

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Lecture Outline

- Introduction & Recap (5 minutes)
- Mastering Map Navigation (20 minutes)
- Data Exploration: Looking "Under the Hood" (25 minutes)
- Guided Student Exercise & Q&A (10 minutes)

Recap of Season 1

ArcGIS Pro Download, Installation, Login

ArcGIS Pro User Interface

ArcGIS Pro Project components

Course Outline

Week 0: Pre-Course Setup (Self-Paced)

- **Task:** This self-paced module must be completed before the first live class.
- **Topics:** Reviewing system requirements, understanding license options, downloading and installing ArcGIS Pro, and successfully signing in using the provided guidance.

Week 1: Getting Started with ArcGIS Pro

- **Class 1:** Introduction to ArcGIS Pro and Project Structure
- **Class 2:** Map Navigation and Data Exploration

Week 2: Working with GIS Data

- **Class 3:** Connecting to Data Sources
- **Class 4:** Populating a Geodatabase

Week 3: Coordinate Systems

- **Class 5:** Understanding Coordinate Systems
- **Class 6:** Managing Projections and Transformations

Let's download some GIS Dataset

Bangladesh - Subnational Administrative Boundaries

<https://data.humdata.org/dataset/cod-ab-bgd>

bgd_adm_bbs_20201113_SHP.zip

Data and Resources [4]

 BGD_AdminBoundaries_TabularData.xlsx (418.9K)	Modified: 4 April 2023	P-coded: Yes	Download	More
 bgd_adm_bbs_20201113_SHP.zip (186.6M)	Modified: 17 November 2020	P-coded: Yes	Download	More
 bgd_adm_bbs_20201113_EMF.zip (1.6M)	Modified: 17 November 2020	Bangladesh administrative level 0-4 boundary EMF files. (Levels 0-2 labeled.)	Download	More
 BGD_AdminBoundaries_candidate.gdb.zip (98.9M)	Modified: 17 November 2020	P-coded: Yes	Download	More

Bangladesh administrative level 0-4 boundary gazetteer

Bangladesh administrative level 0-4 boundary shapefiles

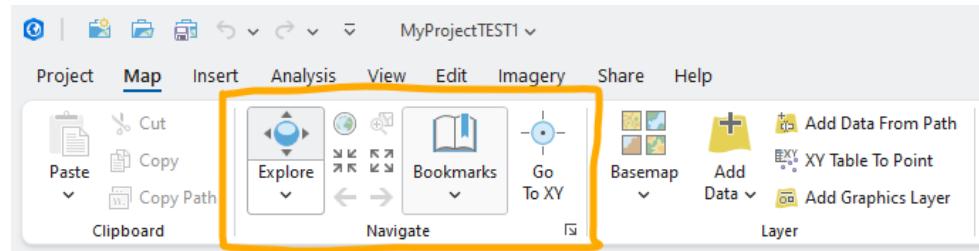
Bangladesh administrative level 0-4 boundary EMF files. (Levels 0-2 labeled.)

Bangladesh administrative level 0-4 boundary geodatabase

Map Navigation and Data Exploration

Map Navigation

- Panning
- Zooming
 - Mouse Scroll Wheel
 - Continuous Zoom
 - Zoom to a Rectangle
- Using Navigation Controls
 - Full Extent
 - Zoom to Layer
- Bookmarks



Data Exploration

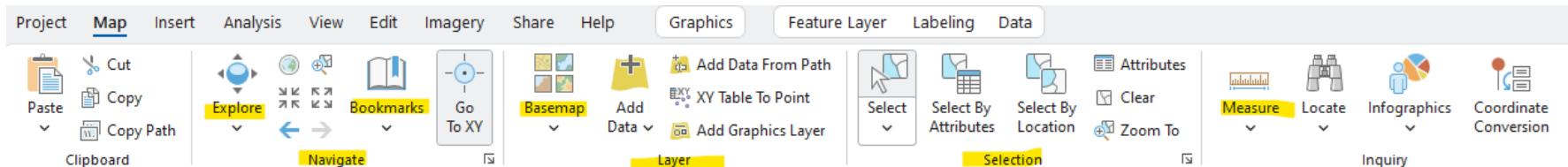
Identifying Features (Pop-ups)

The Attribute Table

Basic Selection Tools

Changing the Basemap

The Measure Tool



Exercise

1. Add district boundary layer of Bangladesh (bgd_admbnda_adm2_bbs_20201113.shp) .
2. Rename the layer as (District Boundary)
3. Zoom into a district you are interested in.
4. Right-click on the "District Boundary" layer and **Zoom To Layer**.
5. Create a new **Bookmark** for this view.
6. Open the **Attribute Table** for the "District Boundary" layer. Select three districts from the table.
7. **Clear** your selection.
8. Change the **Basemap** to "Imagery with Labels".
9. Use your bookmark to return to your saved view.
10. Use the **Explore** tool to click on a district and view its pop-up information.

Preview for Season 3

- Dive deeper into **GIS data** itself
- Discuss the difference between **vector** and **raster** data
- Learn how to **connect** to and **add data** from various sources, such as shapefiles and geodatabases.