



Introduction to GIS with ArcGIS Pro

**Editing Features and Attributes:
Creating Features by Digitizing**

Session 15

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Lecture Outline

- Introduction & Recap (5 minutes)
- Creating Features by Digitizing (45 minutes)
- Guided Exercise & Q&A (10 minutes)

Week 7: Working with Tabular Data

- **Class 13:** Creating Features from Tabular Data
- **Class 14:** Associating Tabular Data (Joins and Relates)

Week 8: Editing Features and Attributes

- **Class 15:** Creating Features by Digitizing
- **Class 16:** Modifying Existing Features



Week 9: Spatial Analysis

- **Class 17:** Answering Questions with Analysis Tools (Buffer, Extract)
- **Class 18:** Performing Overlay Analysis (Intersect, Spatial Join)

Week 10: Page Layouts and Sharing

- **Class 19:** Creating a Page Layout
- **Class 20:** Sharing with ArcGIS Pro & Course Wrap-up
- **Milestone:** Assignment 2 (Mini-Project) will be assigned.

Recap of Season 14

- Associating Tabular Data (Joins and Relates)

Challenge

Construct a map like this one.

Basak, P., Dey, S., & Elahi, K. M. (2022). COVID-19 in Bangladesh: a spatio-temporal and gender analysis. In *Coronavirus (COVID-19) outbreaks, vaccination, politics and society: the Continuing Challenge* (pp. 157-180). Cham: Springer International Publishing.

<https://doi.org/10.1007/978-3-031-09432-3> 11

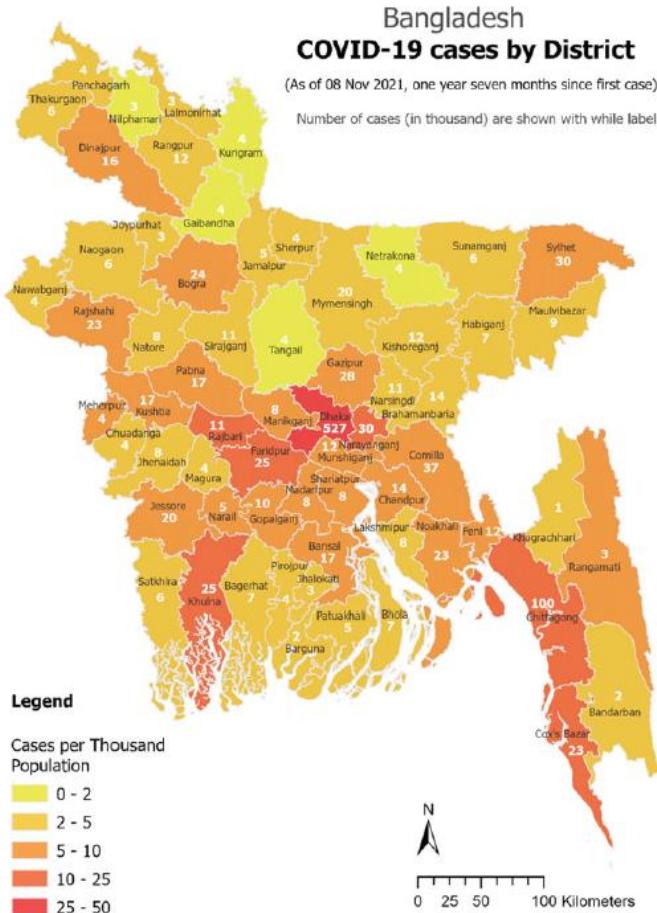
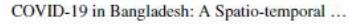


Fig. 3 District-wise distribution of total COVID-19 cases in Bangladesh

Creating Features by Digitizing

in ArcGIS Pro

Feature creation

Creating features by **digitizing** involves drawing new points, lines, or polygons on a map to represent geographic features

This can be done by starting an **editing session**, selecting the appropriate feature **template**, and clicking on the map to add **vertices**.

After creating the **geometry**, you can edit the feature's **attributes** in a separate pane or table to add descriptive data before saving the edits.

Steps for feature creation

Step 1: Prepare for editing

Step 2: Create new features

Step 3: Edit attributes

Step 4: Finish editing

Edit feature attributes

The **Attributes** pane **Selection** tab edits feature attribute values and related records for selected features highlighted in the selection view.

Additional commands appear on the context menu when you right-click a field or item in the selection view.

This pane is available on the ribbon **Edit** tab in the **Selection** group.

References

Data in ArcGIS Pro

<https://pro.arcgis.com/en/pro-app/latest/help/data/main/data-in-arcgis-pro.htm>

Create Features

<https://pro.arcgis.com/en/pro-app/latest/help/editing/introduction-to-creating-2d-and-3d-features.htm>

Exercise

Exercise

1. Create a shapefile and draw lines.
2. Create a point feature class in a File Geodatabase
3. Add a few fields (text and numeric) in the attribute table of a polygon feature class in a File Geodatabase.

Preview for Season 16

Editing Features and Attributes: Modifying Existing Features