



Introduction to GIS with ArcGIS Pro

**Adding Text to a Map:
Using Label Classes**

Session 12

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Lecture Outline

- Introduction & Recap (5 minutes)
- Using Label Classes (45 minutes)
- Guided Exercise & Q&A (10 minutes)

Week 5: Controlling Feature Display and Selection

- **Class 9:** Selecting Features with Queries
- **Class 10:** Managing Feature Visibility
- **Milestone:** Assignment 1 (Data Creation and Mapping) will be assigned.

Week 6: Adding Text to a Map

- **Class 11:** Creating and Modifying Labels
- **Class 12:** Using Label Classes



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

Recap of Season 11

- Creating and Modifying Labels
- Label expressions

Using Label Classes

in ArcGIS Pro

Use label classes

You can use label classes to restrict labels to certain features or to specify label fields, symbols, scale ranges, label priorities, and sets of label placement options for groups of labels.

For example, for a roads layer, you can use a different text size to label road types based on a field classifying roads by importance.

You can also create a query to label only cities with a population greater than 1 million.

Label expressions

- Using an advanced label expression, you can add any Arcade, Python, VBScript, or JScript logic to label expressions, including conditional logic and looping.
- For example, you can produce labels that have only the first letter of each word capitalized, regardless of how the text strings are stored in the attribute fields.

Expression examples

Concatenate a string to the value in a field. For example, the following expression creates a label in which the value of the PARCELNO field is preceded by the text "Parcel no:":

Arcade

```
"Parcel no: " + $feature.PARCELNO
```

Python

```
"Parcel no: " + [PARCELNO]
```

VBScript

```
"Parcel no: " & [PARCELNO]
```

JScript

```
"Parcel no: " + [PARCELNO]
```

References

Create multiline labels with concatenated text using Arcade in ArcGIS Pro

<https://support.esri.com/en-us/knowledge-base/how-to-create-multiline-labels-with-concatenated-text-u-000026373>

Text formatting tags in ArcGIS Pro

<https://pro.arcgis.com/en/pro-app/latest/help/mapping/text/text-formatting-tags.htm>

Exercise

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1. Create 2 or Label Classes for a layer with different symbology.
2. Apply SQL expression to one of the label classes

Sample Shapefiles - City of Newcastle, Australia

<https://classroom.google.com/c/NzkxNDA4MzgwOTE3/m/ODAzNjU5NTY0Mzc0/details>

Preview for Season 13

Working with Tabular Data: Creating Features from Tabular Data