

ArcGIS Pro: Layouts and Map Series

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Note, write this down:
<http://esriurl.com/>

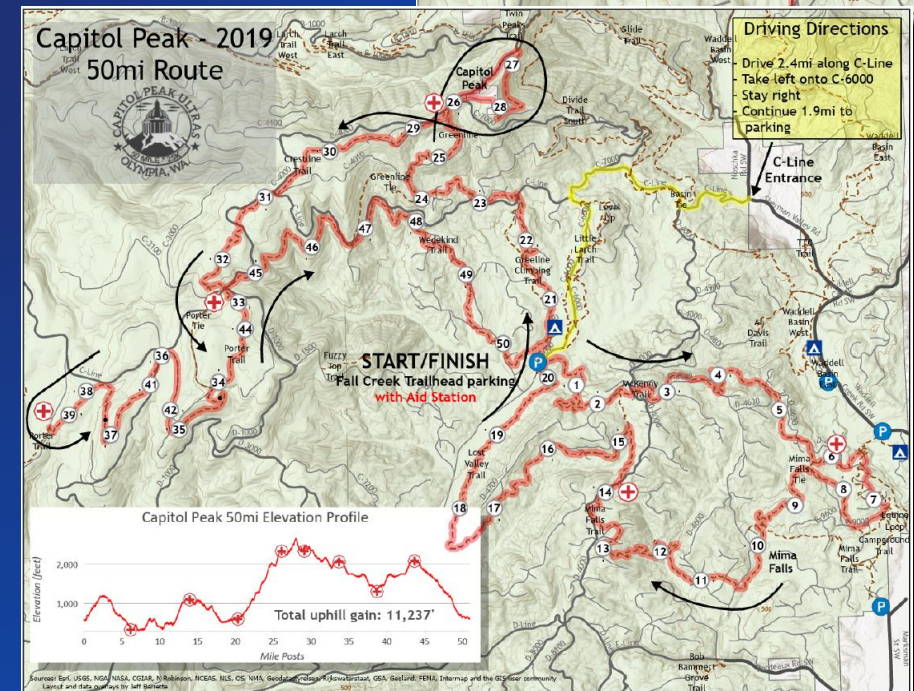
Agenda

- Basic layout workflow in ArcGIS Pro
- Make a map series
- Use dynamic elements to enhance standard layouts and map series
- Make a complete map book (using the python basics)



Layouts in ArcGIS Pro

- A layout is a representation of a printed page
- Typically you make a layout before exporting to PDF or printing
- ArcGIS Pro supports multiple layouts
- Layouts are stored together with maps, in a project
- Map frame extents are independent of map view extents

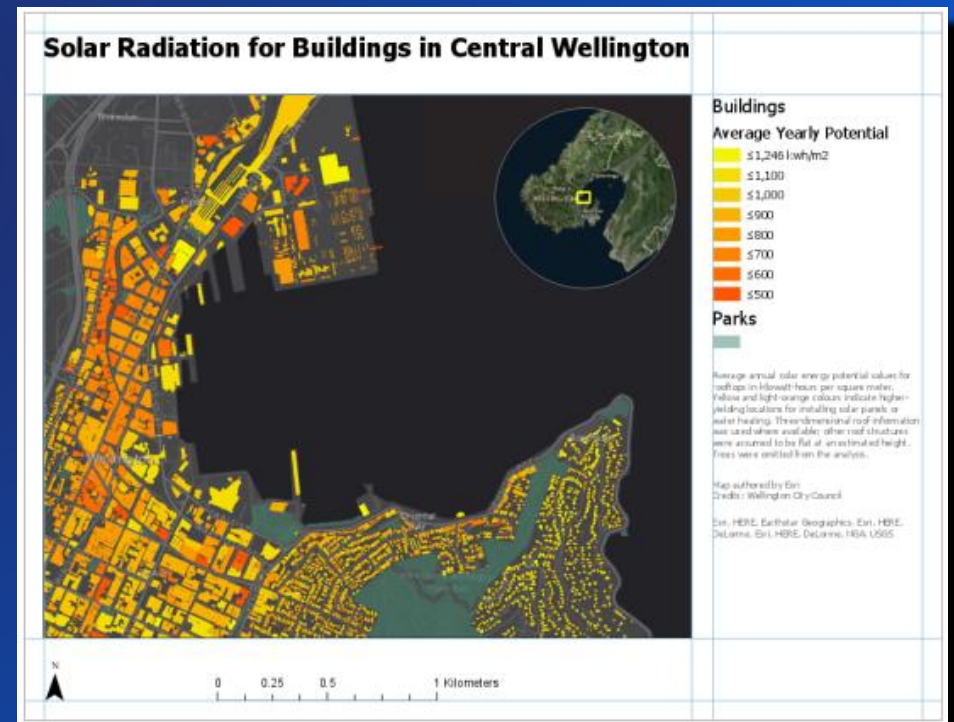


Layouts in ArcGIS Pro

- For a great intro to layouts, see the *Make a Layout* Quick-start tutorial

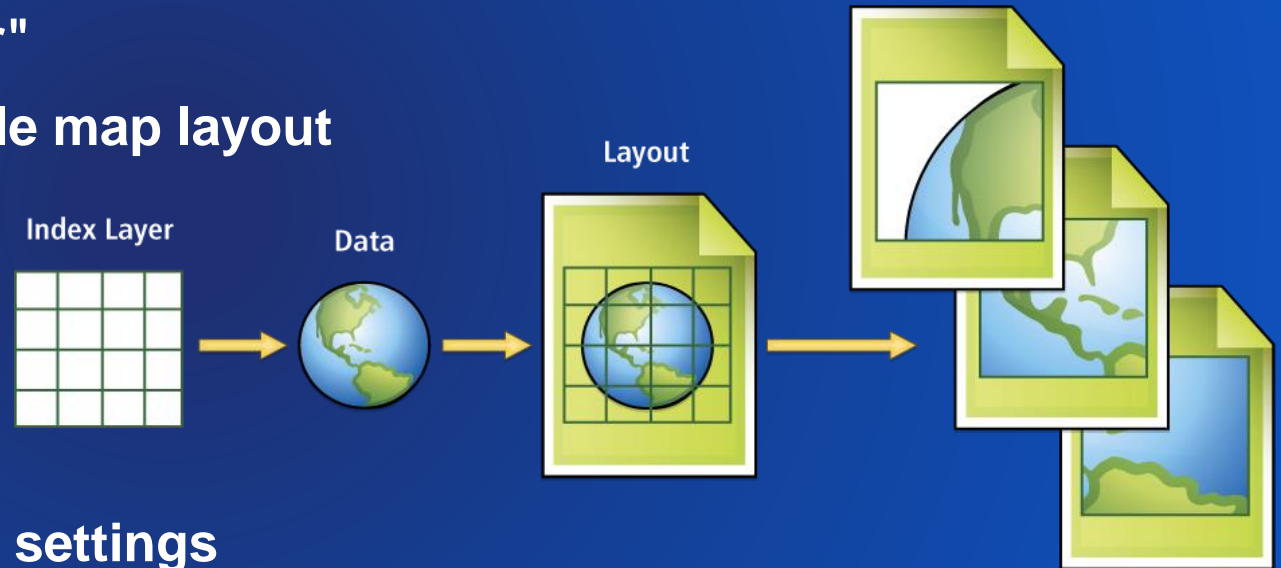
- Insert a new layout
- Add a map frame, north arrow, legend, text
- Work with dynamic text
- Create overview map and extent rectangle
- Export the layout

- <http://esriurl.com/14546>



Layout Map Series

- **Spatial Map Series:** a series of pages that iterate across a geographic area
- In ArcMap, map series was called "Data Driven Pages"
- Extent is driven by an "Index layer"
- Generate many pages from a single map layout










- Created with a combination of geoprocessing tools and layout settings
- Can be enhanced with
 - Dynamic legends, text, tables, and pictures

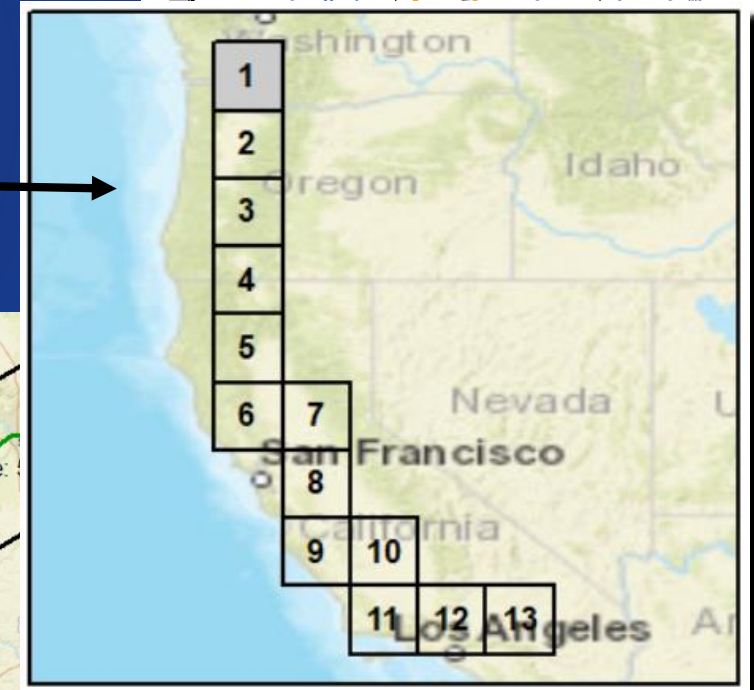
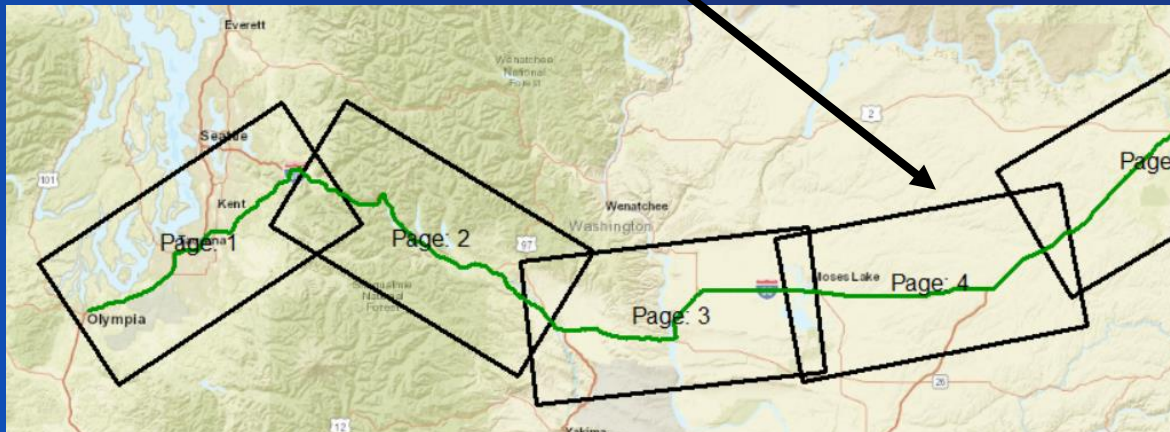
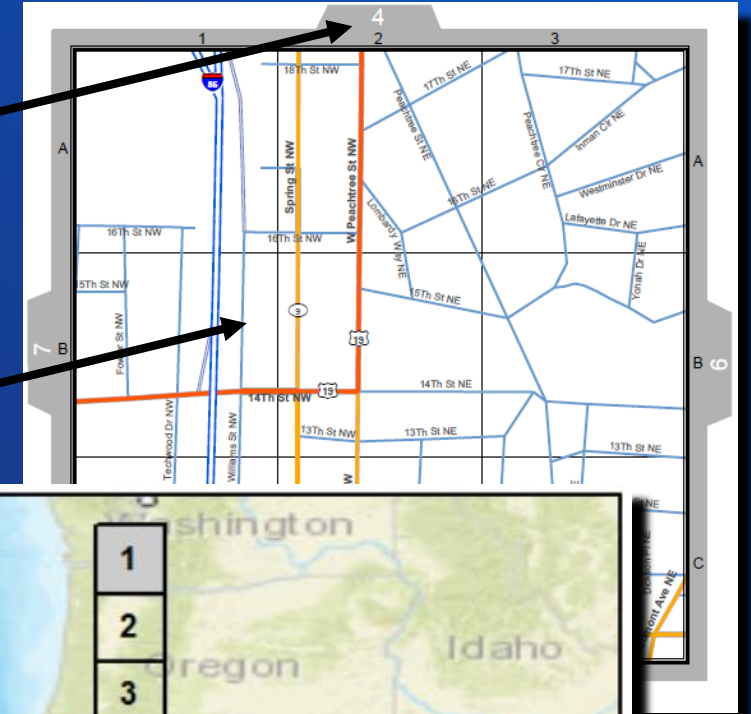
Geoprocessing Tools for Map Series

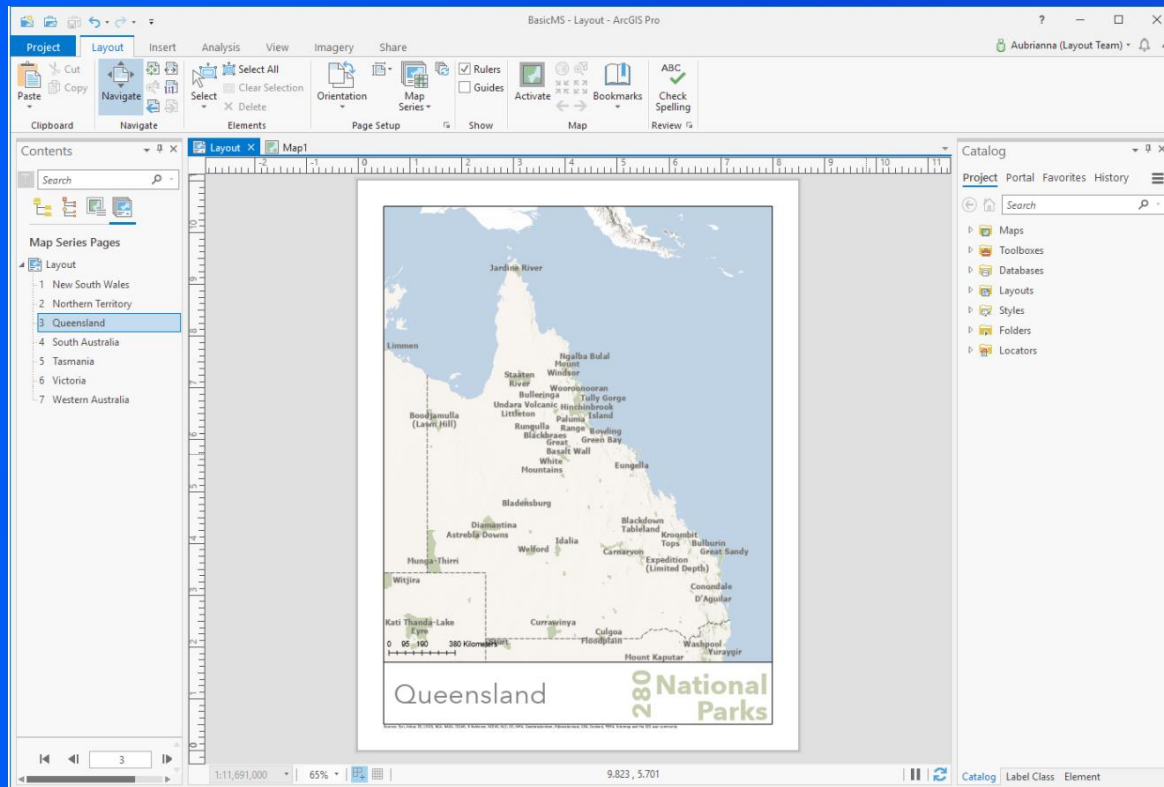
Added index fields

New layer

 Map Series

-  Calculate Adjacent Fields
-  Calculate Central Meridian And Parallels
-  Calculate Grid Convergence Angle
-  Calculate UTM Zone
-  Grid Index Features
-  Strip Map Index Features



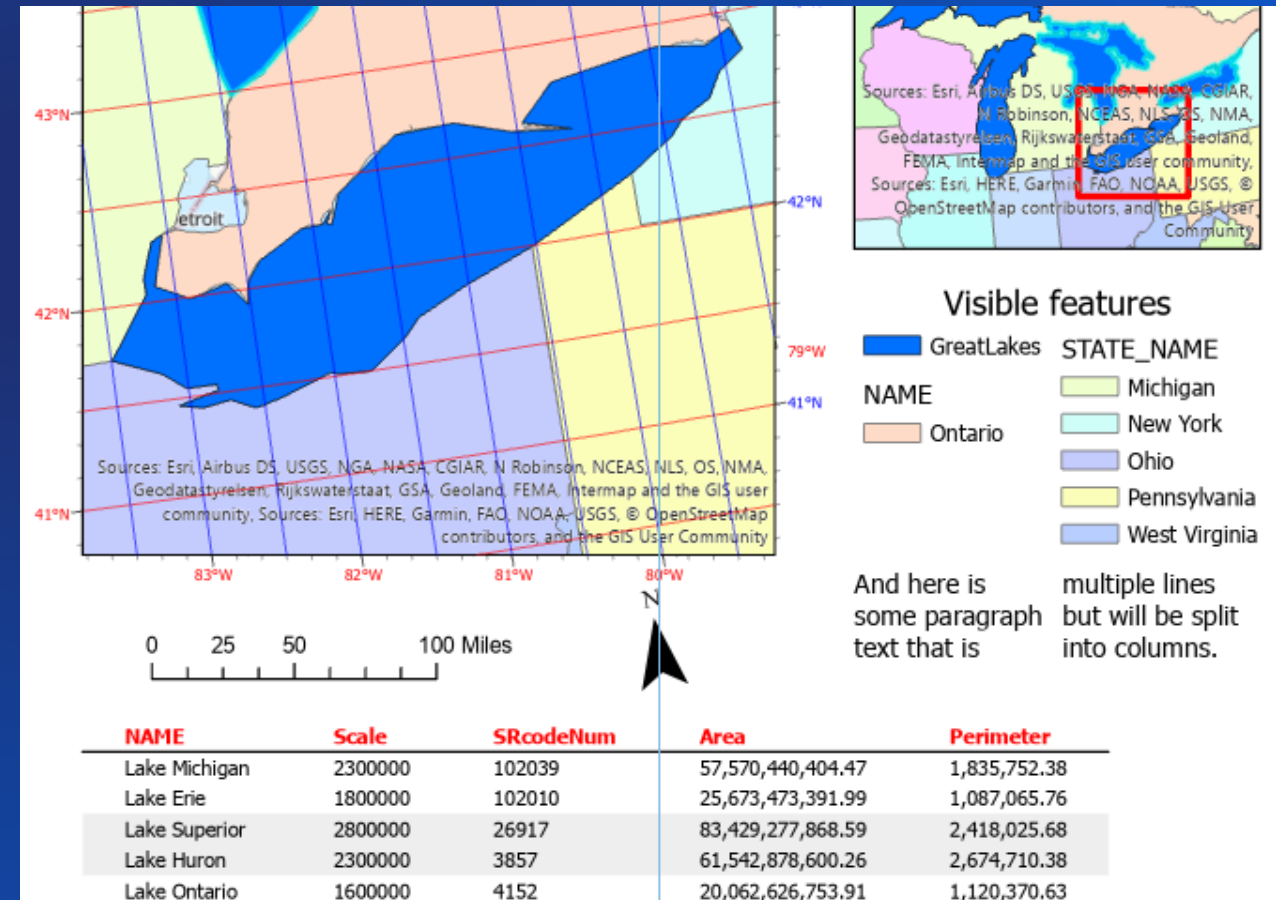


Basic Layout and Map Series Workflow

Aubri Kinghorn

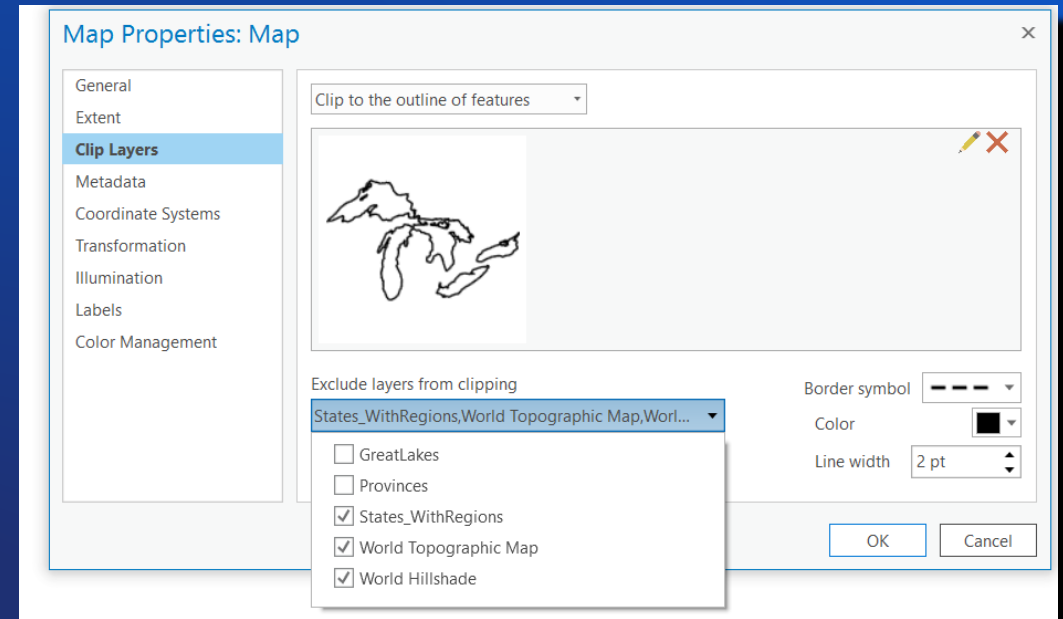
Dynamic Layout or Map Series Elements

- Dynamic text
 - Basic page information OR map series page numbering, attribute info etc
- Legends, tables, charts
 - Show all info, map extent, or based on map series shape
- Dynamic pictures
 - Change the picture from map series page to page
- Grids and graticules
 - Configure ticks, labels and gridlines



Clipping options

- Clip the layers in a map frame to:
 - Outline of features or custom extent
- Exclude layers from being clipped



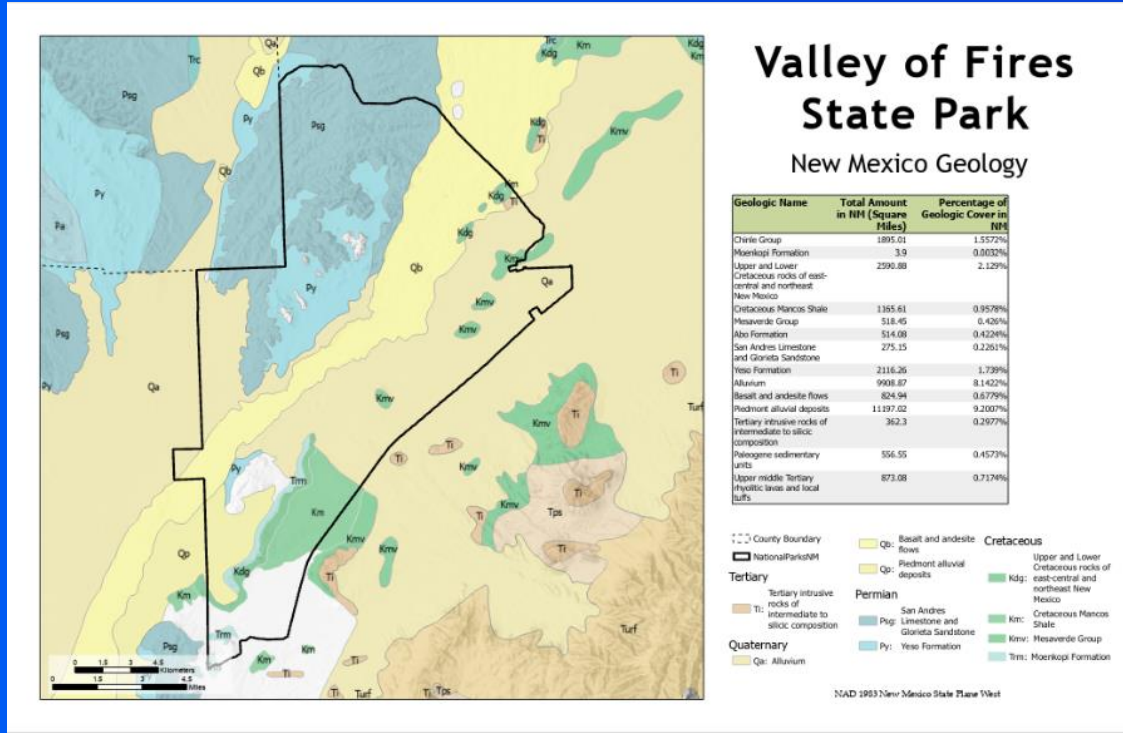
- Map series
 - Use the current index feature
 - Layout properties → Map Series → Extent

☒ Clip to index feature



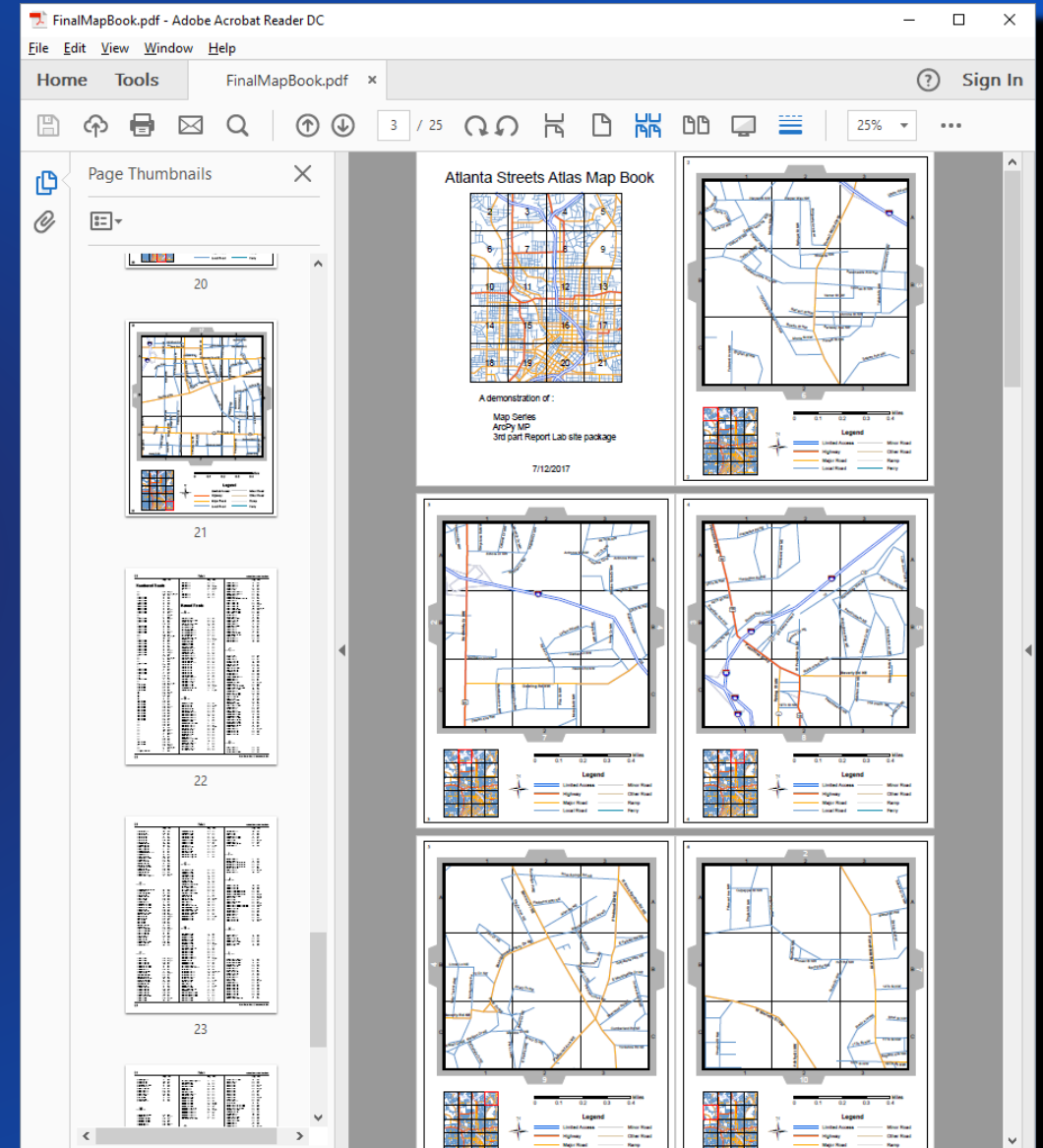
Enhance a Map Series with Dynamic Elements

Aubri Kinghorn



Make a Complete Map Book

- A complete map book is a collection of map pages, plus additional pages:
 - Title
 - Table of Contents
 - Index/gazetteer pages
 - Anything else you want!
- You can create one using Python and the `arcpy.mp` module



Python and arcpy.mp

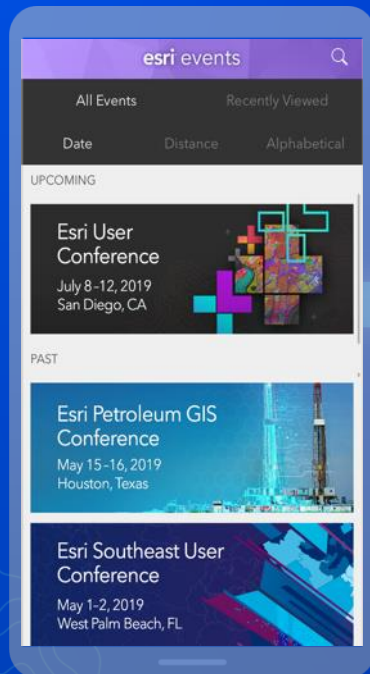
- Example - Appending PDFs

```
import arcpy
newPDF = arcpy.mp.PDFDocumentCreate("C:/project/newpdf.pdf")
newPDF.appendPages("C:/project/titlepage.pdf")
newPDF.appendPages("C:/project/mappages.pdf")
newPDF.appendPages("C:/project/indexpages.pdf")
newPDF.saveAndClose()
```

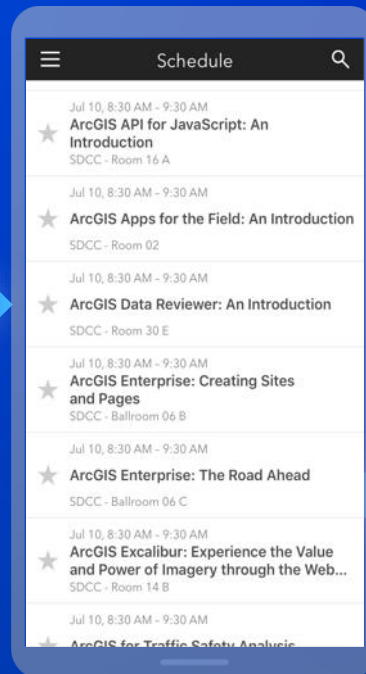
- Documentation: PDFDocument in arcpy.mp
<http://esriurl.com/14549>
- Sample: Generate Map Book with Index Pages (for ArcMap)
<http://esriurl.com/8899>
- Tutorial: Getting started with arcpy.mp
<http://esriurl.com/14548>

THANK YOU! Please Share Your Feedback in the App

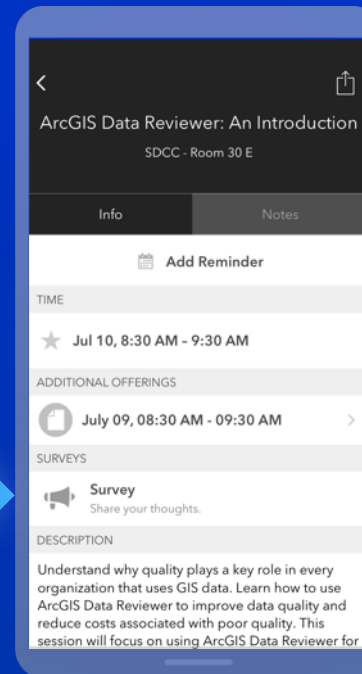
Download the Esri Events app and find your event



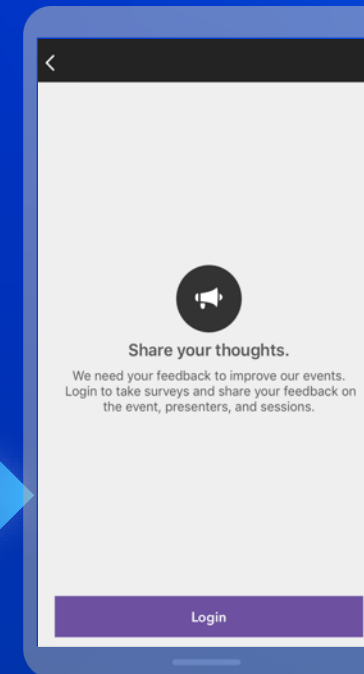
Select the session you attended



Scroll down to "Survey"



Log in to access the survey



Complete the survey and select "Submit"

