

#### Esri International User Conference | San Diego, CA

**Technical Workshops** | 7/12/2011, 1:30-2:45

7/14/2011, 3:15-4:30

# **Building Map Books in ArcGIS**

Jeff Barrette Tom Bole Jeff Moulds

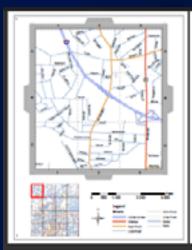
#### Agenda

- Types of map books
- Building map books with Data Driven Pages
- Introduction to arcpy.mapping
  - use to extend Data Driven Pages capabilities
- Custom applications beyond Data Driven Pages and arcpy.mapping
- Q&A

### Types of Map Books

- Always a have a group of "pages"
- They are more than just a collection of map pages
  - titles, TOC, index pages, etc.
- Output printed pages or export to graphics file, usually PDF
- Most common are reference map books
  - series of pages that iterate across a geographic area
  - reference grid based, strip maps, or feature based

Use DDP or arcpy.mapping







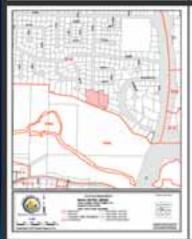


# Types of Map Books (cont.)

- Thematic map books
  - all pages have the same extent
  - each page shows unique theme
  - different layers are turn on and off





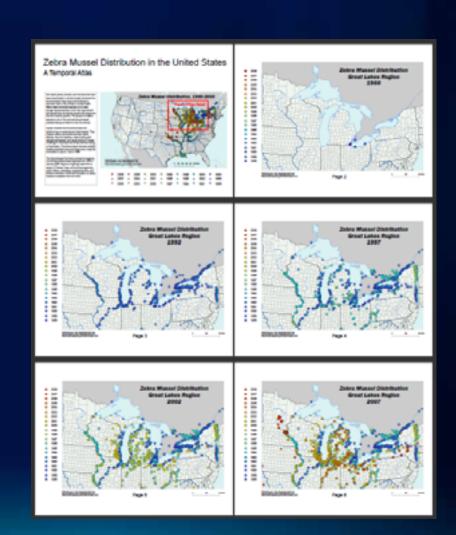




arcpy.mapping only

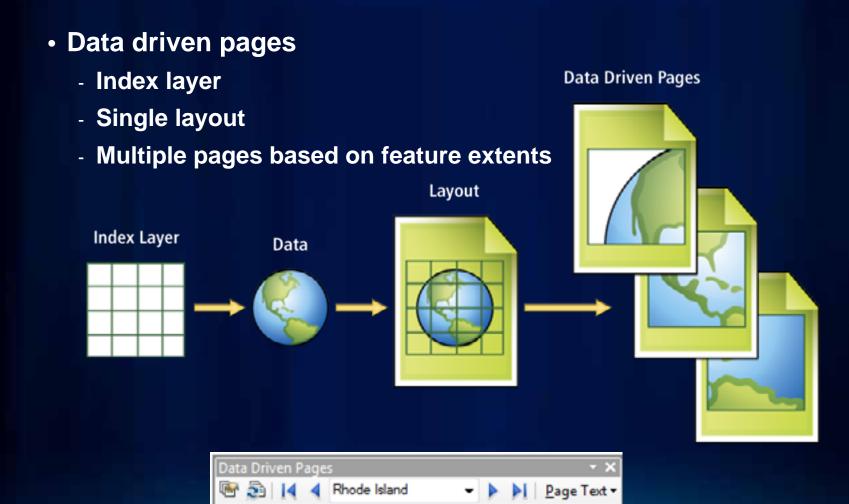
# Types of Map Books (cont.)

- Temporal map books
  - mapping time series data
  - each page shows unique data and time



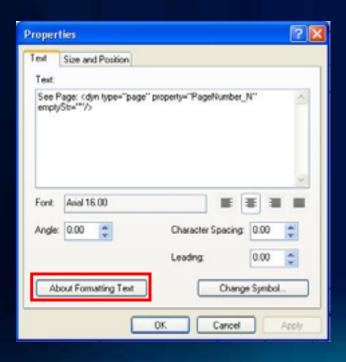
arcpy.mapping only

# **ArcGIS 10 - Data Driven Pages**



### **ArcGIS 10 - Dynamic Text**

- DDP or standard layout text element
- Insert text with dynamic tags
- Additional tags available







### What is arcpy.mapping?

- A new map scripting environment at 10.0
- Mapping module that is part of the ArcPy sitepackage
- Python scripting API that allows our users to:
  - manage map documents, layer files, and their contents
    - find a layer with data source X and replace with Y
    - update a layer's symbology in many MXDs
    - generate reports that lists document information
      - data sources, broken layers, spatial reference info, etc.
  - Automate the exporting and printing of map documents
  - Automate map production and create map books
    - extend Data Driven Pages capabilities

### Who is arcpy.mapping for? Why was it built?

- An easy to use, productive scripting environment for the GIS Analyst
  - courser grained object model
  - not a complete replacement for ArcObjects
- An environment to use for basic map/layer management and map automation tasks
- A simple way to publish mapping tasks to the server environment
  - arcpy.mapping scripts can be easily published as geoprocessing tools

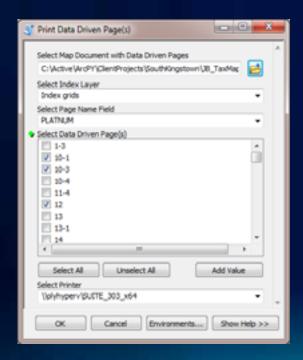


### Custom applications beyond arcpy.mapping and DDP

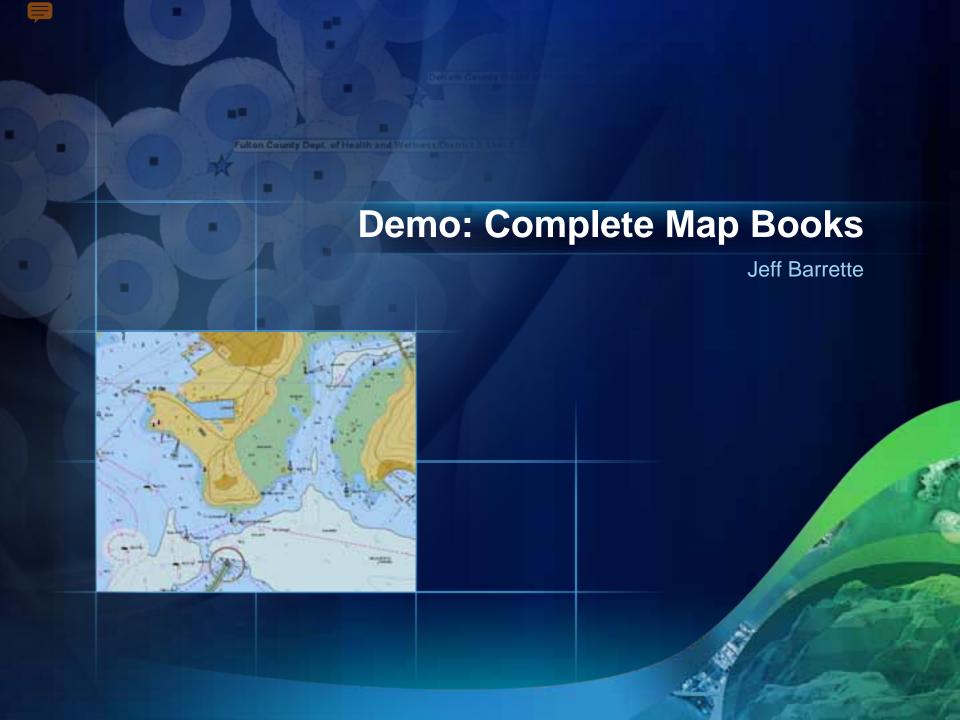
Create simple script tools to quickly execute common

tasks

 Extend capabilities with 3<sup>rd</sup> party Python modules



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#### Other Resources

- Extensive Desktop help with 100's of sample scripts
- Resource Center (Geoprocessing Model and Script tool Gallery)
  - arcpy.mapping Mapbook with Index Pages
  - arcpy.mapping Sample Script Tools
- Geoprocessing Video Presentations
- Map Automation Forum
- Desktop, Server and Geoprocessing Blogs
- Training short web courses
  - Basics of Python (for ArcGIS 10)
  - Python Scripting for Map Automation in ArcGIS 10

#### Related workshops

#### Tuesday

- 4:00-4:45 Using arcpy.mapping with ArcGIS Server to Generate High Quality PDF Map Documents Over the Web (Demo Theatre)
- 4:00 5:00 Road Ahead Map Books and Map Scripting

#### Wednesday

- 1:55 2:15 Managing Layer Data Sources (Demo Theatre)
- 3:15 4:30 Python Scripting for Map Automation
- 3:15 4:30 Road Ahead ArcGIS Desktop 10.1

#### Thursday

- 1:00 1:30 Building the Legislative District Atlas using Data Driven Pages (Demo Theatre)
- 4:05 4:25 Road Ahead Python Scripting Abilities

