Salt Lake County Map Book

Going from printed Map Book to iPhone/iPad application
Humor

FIREFIGHTERS
They Have No Sense Of Humor Where Hydrant Parking Is Concerned
Salt Lake County Map Book

- Created for Emergency Response
- Grid based searching
- Easy to use!
Evolution of the Map Book

2002
- iPhone & iPad App Released

2007
- Updates to the iPhone & iPad App

2010

2011
- iPhone & iPad App Released

2012
- Android App Released
Evolution of the Map Book

- Created completely in Page Maker.

- Every Street driven in the County.
Evolution of the Map Book

Today’s Version
- Developed in ArcGIS 10 using Data Driven Pages
- 482 Pages
- Includes: Road name & Apartment indexes
- 156 Apartment Maps
How the Map Book was created using ArcGIS 10 with data driven pages.

Creating hyperlinks to specific pages within the document.

Getting the document to work on the iPhone or iPad.

Demo
Start out with creating a Grid.

Toolbox: “Grid index features” - Creates a grid of rectangular polygons that can be used as an index to specify pages.
Create dynamic content for the layout, for example page guide, map name & number.

Toolbox: “Calculate Adjacent Fields” – Creates fields in the table that identify neighboring polygons.

Example of dynamic content generated in the table.
Setup data driven pages tool bar based on your grid layer.

Data Driven Pages Tool bar:

[Image of tool bar with fields for data frame, index layer, and page number]

What are data driven pages?

An index layer is used to produce multiple output pages using a single layout. Each page shows the data at a different extent. The extents are defined by the features in the index layer.

- Enable Data Driven Pages
- Index Layer: County_Grid
- Data Frame: Layers
- Name Field: Number
- Sort Field: Order
- Sort Ascending
- Rotation: none
- Spatial Reference: none
- Page Number: Number
- Starting Page Number: 1

[Buttons: OK, Cancel]
Code that calls the data from the grid table to display the map in the layout.
Labeling includes:

Road Name & Coordinate

For Example:
Redwood Rd – 1700 W.
Compiling the Book

- Total Pages: 482
- File Size: 278 MB
- Programs used:
  - ArcGIS 10
  - Adobe Acrobat
  - Indesign
  - Photoshop

- Export Pages as PDF
- Combine cover page etc. using Adobe Acrobat Pro
Adding Hyperlinks

Adding links to the Grid to jump to the individual map pages. Using the Advanced Editing > Link Tool.

Add link, make the link type invisible rectangle. Under the action tab execute go to page #

Total links: 1,772
Importing your PDF to run on an iPhone or iPad

- Use an existing App like iBooks or Goodreader. (These apps recognize all the internal hyperlinks)
- Sync with iTunes or upload via WIFI
Apple Developer
- Requires a Mac, OS 10.3 or greater
- Cost $99 per year
- Learn Xcode/Objective C

Or hire a Developer
- Pixio - www.pixiosoftware.com
Salt Lake County Map Book App is available on the App Store.

- 300+ Copies Downloaded so far.

http://www.slcoem.org/mobileapp.html
Demo
Questions

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