



[sprasad@esri.com](mailto:sprasad@esri.com)  
Twitter: [sathyaprasad](#)  
[github.com/sathyaprasad](#)

# Taking your Web Map Offline

Sathya Prasad

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**Demo Theater**

**Session: 729**

# Requirements

1. Creating a map briefing book which may contain audio, video, pics, webmaps, text, documents
2. Support layouts, updating, cloud delivery (easy deployment), now on ios but need to work on Android soon
3. Should work offline also support online. Offline first.
4. 2-6 hr turnaround time from incident/event to briefing
5. App should also support basic map viewing capabilities, also few analytical operations

## Evaluation – Current Offline Solutions

- Pre tiled only
- Standard basemaps or your own (v 10.2.3 +)
- Multiple TPK's for multiple basemaps
- Geared towards field worker/ data collection
- Feature services only (10.2.3+) with sync enabled (we did not need sync as such)

## What About?

- My existing services (map, image, feature)
- My existing webmaps, popups, layer ordering, transparency, metadata etc...
- Services running on older version of ArcGIS Server

## Real Webmap Contains

- Time enabled Layers
- Legend
- Features backed by services
- Rich popups
- Graphics – KML, RSS, CSV , Map notes (not backed by services)

# Custom Solution

- Print Task

## Custom Solution

- Print Task
  - Custom tiling scheme
  - Generate and assemble images for each tile level
  - Arcpy tool to generate TPK from folder
  - GP service with python script
- Handle features as JSON
- Generate Legend at app level
- Leverage Runtime SDK capabilities

# DEMO

**Prototype showing the offline webmap generation process from a given webmap**

# Briefing Book Features - Implemented

- **Webmaps**
- **Images + Carousel**
- **Video**
- **Documents – PDF/WORD/PPT**
- **Different Layouts**
- **Text and HTML**
- **Online Authoring via Web App**
- **WYSIWYG Editor experience**



# APP FEATURES - Implemented

- Online + Offline Books
- Webmaps + Popups + Features + Legend (Supported Offline)
- Measure, Area, Buffer, Point-In-Polygon Tools (Supported offline)
- Built in Redlining tool for markups
- Supports all data types in webmaps (KML, CSV, Image Services, Map Services, Feature Services/Collections, Map Notes)
- All media types are supported Offline

# What's the difference?

## Our Approach

- **WYSIWYG**
- **Any Webmap and all its contents**
  - Map Notes, Image/Feature/Map Services, CSV/KML/etc....
- **One TPK per Webmap**
- **Not made for feature collection but can work**
- **Features as JSON**
- **Using 10.1 technologies**

## 10.2.1

- **ArcGIS.com Basemaps for TPK generation**
- **Only tiled services can generate TPK**
- **Multiple TPK's for multiple layers**
- **Only Supports Feature Services with Sync (v. 10.2.1+)**
- **Mostly for feature collection and syncing**

# DEMO

## Authoring a New Book and Saving to a Group in ArcGIS.com

<https://www.youtube.com/watch?v=jhlkkW7vLMc>

# DEMO

## iPad Native Application consuming books from ArcGIS.com

<https://www.youtube.com/watch?v=jhlkkW7vLMc>

# DEMO

## Viewing existing books and make quick changes

Watch on Youtube - <https://www.youtube.com/watch?v=jhlkkW7vLMc>

# Thank You!



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Please fill out the survey if you liked the session (#729)

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