Esri Production Mapping: Creating Color Separations and “Press-ready” PDFs

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Why can’t we just use a plotter?

Sharing geographic Information

Although digital/web maps are becoming the norm…

Paper/hard copy maps will be around for a long time

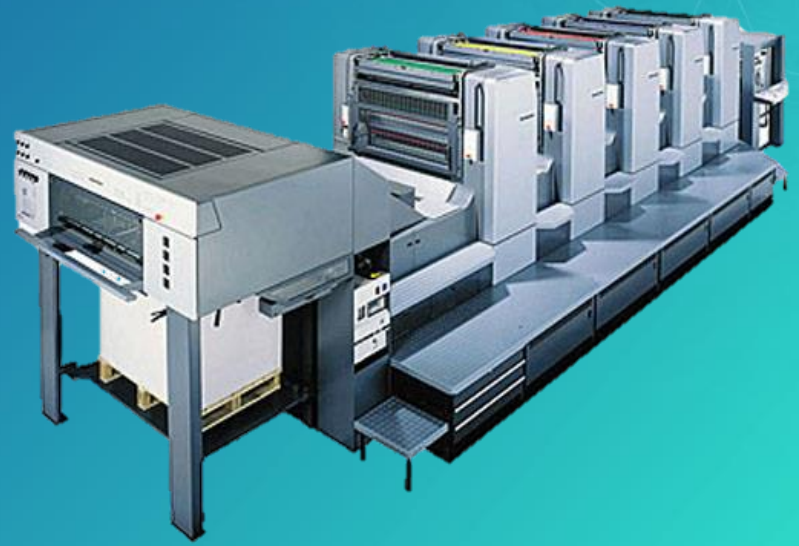
Plotters 😐

Ink is costly, printing time is lengthy (for 1000s of copies), etc…

Need for a durable/higher quality product

Printing press provides:

- Thicker paper
- Ink does not run
- Cleaner lines/images
- Specialized control of color

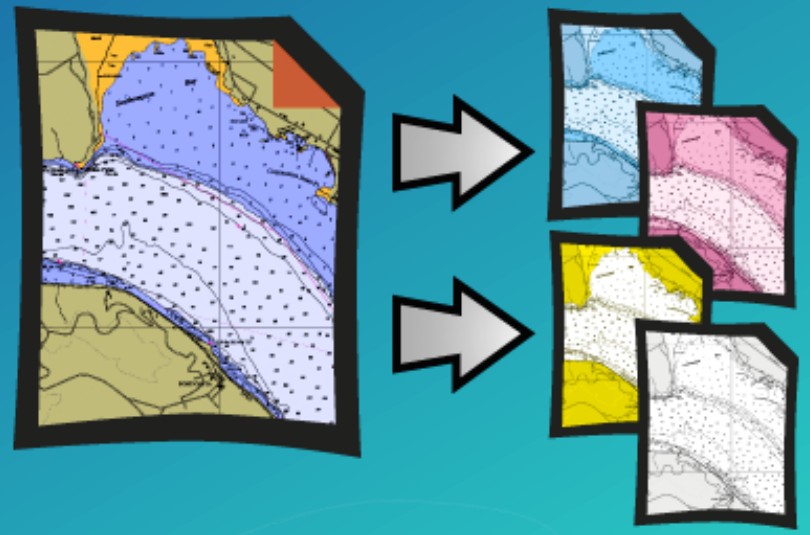


Overview of color separation

Map printing background

CMYK (Cyan, Magenta, Yellow and Black) – Called “Process Color”

- 4 ink colors/plates combine to create ‘all’ colors
- Mix of colors



Spot

- Created with a single, unique ink
- Colors only mix when defined as an ‘overprint’

Two methods of performing color separation

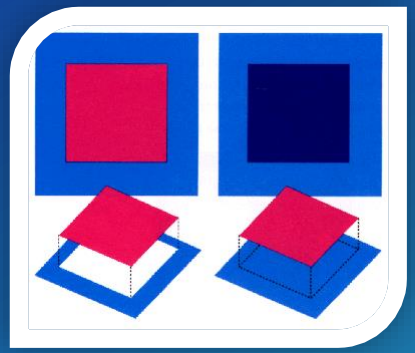
- Production PDF
- Separated TIFF

Production PDF

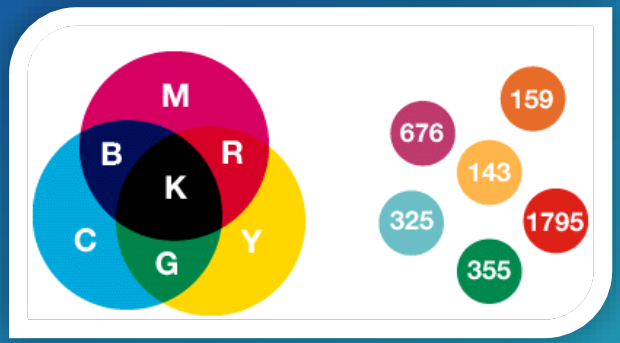
PDF map exporter with print production features

Includes all standard PDF settings

+ print production functionalities



Knockout Overprint

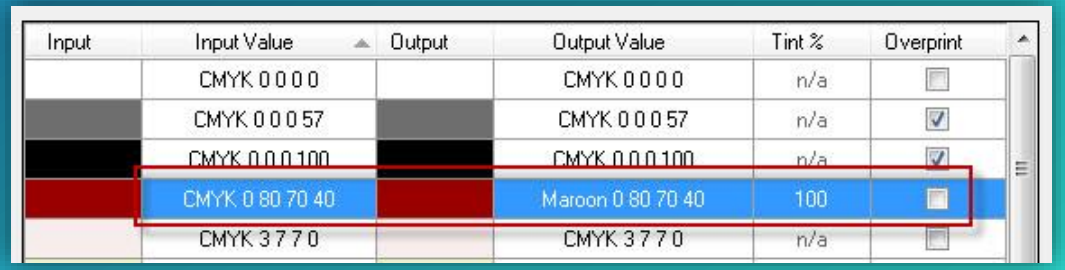


CMYK process Spot Color

Printer Marks

Color remapping on output

CMYK / RGB > CMYK / RGB / Spot



Input	Input Value	Output	Output Value	Tint %	Overprint
	CMYK 0 0 0 0		CMYK 0 0 0 0	n/a	☐
	CMYK 0 0 0 57		CMYK 0 0 0 57	n/a	☑
	CMYK 0 0 0 100		CMYK 0 0 0 100	n/a	☑
	CMYK 0 80 70 40		Maroon 0 80 70 40	100	☐
	CMYK 3 7 7 0		CMYK 3 7 7 0	n/a	☐

Color Separations and “Press-ready” PDFs

Demo

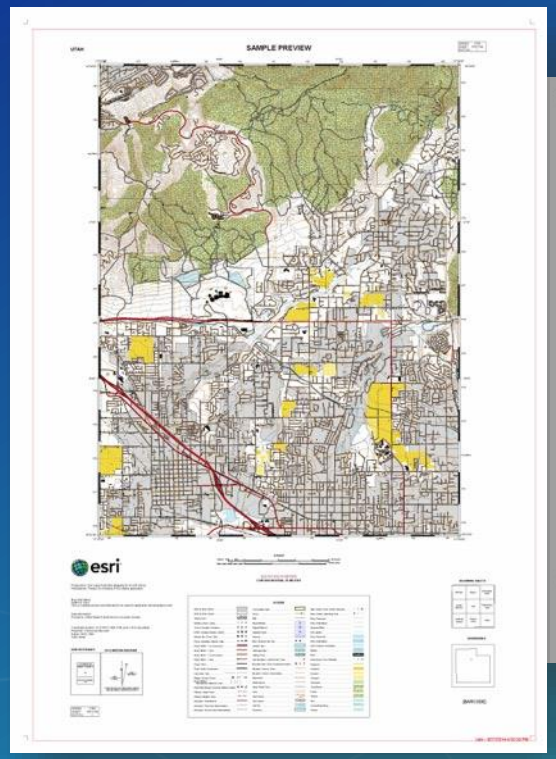
Production Mapping

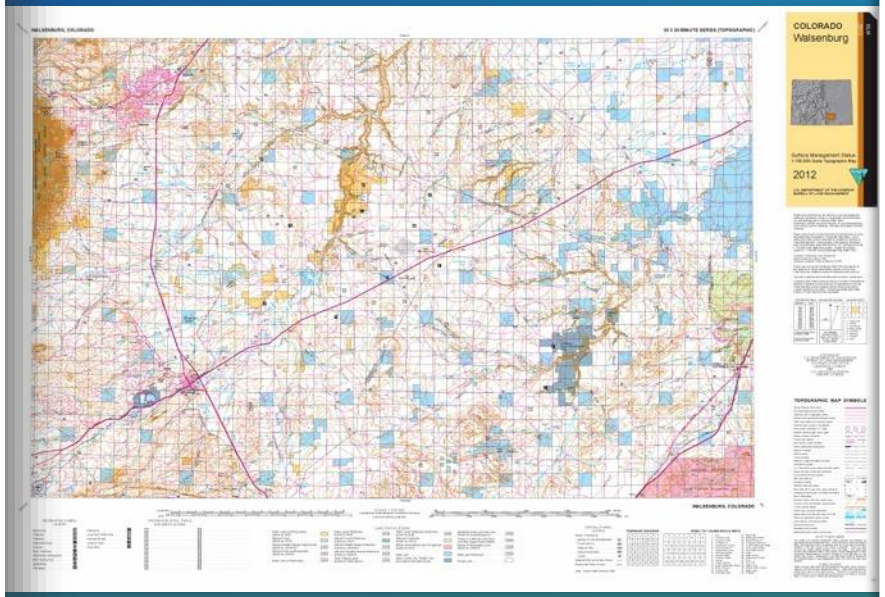
Why is this feature in this extension?

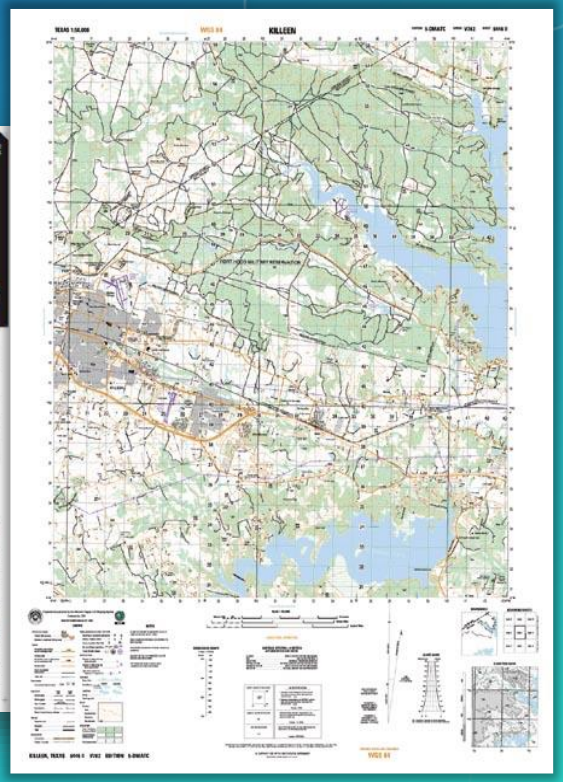
Supports high-volume and custom map creation

Facilitates standard, repeatable workflows

Configurable for specific industries







Production Mapping

Other map exporters and advanced features

Production PDF

- Layer Transparency – *New @ 10.5*
- Embedded InRIP
- Allows sharing and reusability

Layout GeoTIFF

PDF to TIFF - *Now part of standard ArcMap!*

- 32 CMYK based TIFF
- Geo-enabled PDF to GeoTIFF

Separated TIFF

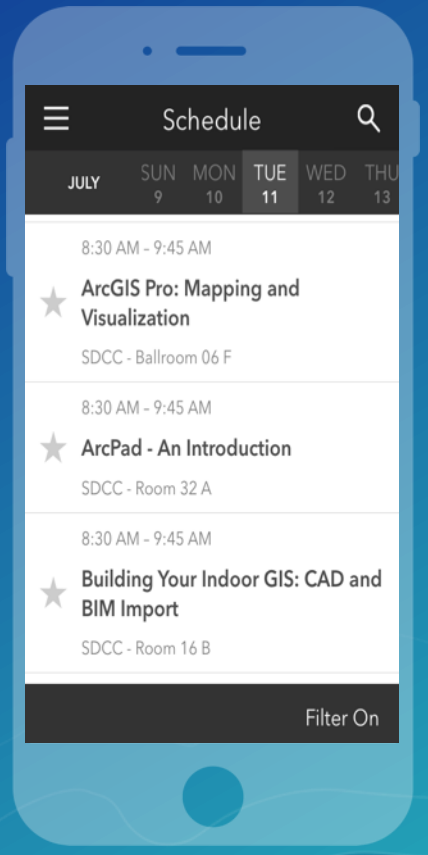
Python Access

ArcpyProduction Site Package

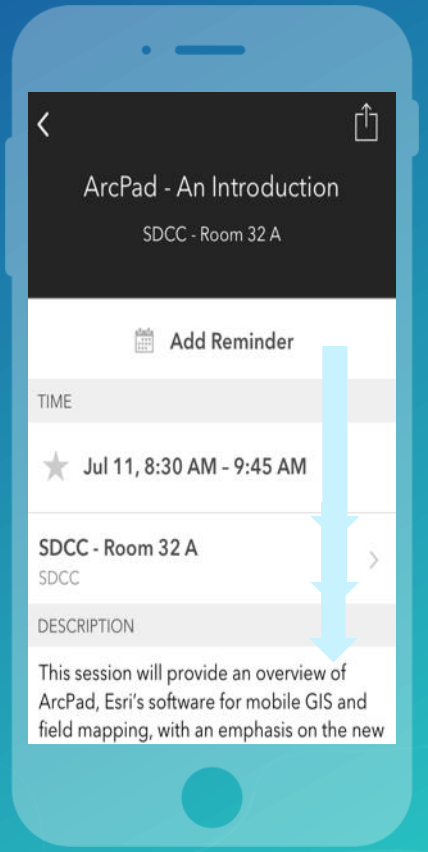
Please Take Our Survey on the **Esri Events App!**

Download the Esri Events app and find your event

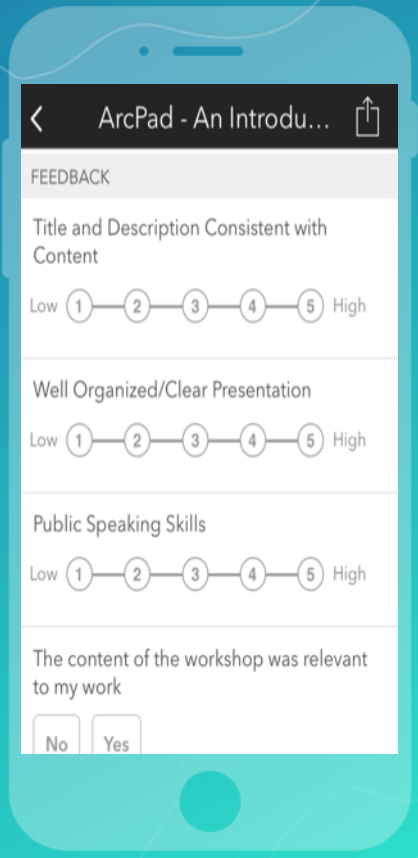
Select the session you attended



Scroll down to find the survey



Complete Answers and Select “Submit”



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