

**Federal GIS Conference**

February 9–10, 2015 | Washington, DC



# **ArcGIS Pro: What's New in Mapping and Visualization**

**Pro.ArcGIS.com**

# Mapping and Visualization - Vision

- **Improve drawing performance and quality**
- **Provide an intuitive and efficient map authoring experience in 2D and 3D**
  - **Creating 2D maps, 3D maps, and layers**
  - **Layer symbology including symbol selection and editing**
  - **Layer properties**
  - **Labeling**
- **Support existing maps you have today and extend them with new capabilities**
  - **e.g. Procedural Modelling**

# Mapping Overview

- **Goal for a Unified 2D/3D mapping experience**
- **One symbol model integrating 2D, 3D and representation symbols**
- **Decoupling maps and layouts**
- **Modern graphics support**
  - **Anti-aliasing**
  - **True transparency support**
  - **Improved drawing performance and application responsiveness**

# High Level Mapping Design Goals

- **Emphasis on showcasing the work (maps and layouts)**
- **Layer symbology and labeling**
  - Provide better support for iterative workflows (map design)
- **Layer properties**
  - Provide ability to make changes across many layers
- **Provide quick access to commonly changed items but allow deeper changes**
- **Erase differences between 2D and 3D where appropriate**



## Solution: 2 types of maps

- **Maps (2D) and Scenes (3D)**
  - **.MXDs – Maps**
  - **.SXD / .3DD – Scenes in Local or Global views**
- **You can create new Maps and Scenes**
  - **Then add in data, set coordinate system, etc**
- **You can convert a Map into a new scene**
  - **..and vice versa**
- **You can also:**
  - **Copy layers between them**
  - **Re-use Bookmarks between them**
  - **Link them together for interactive navigation**

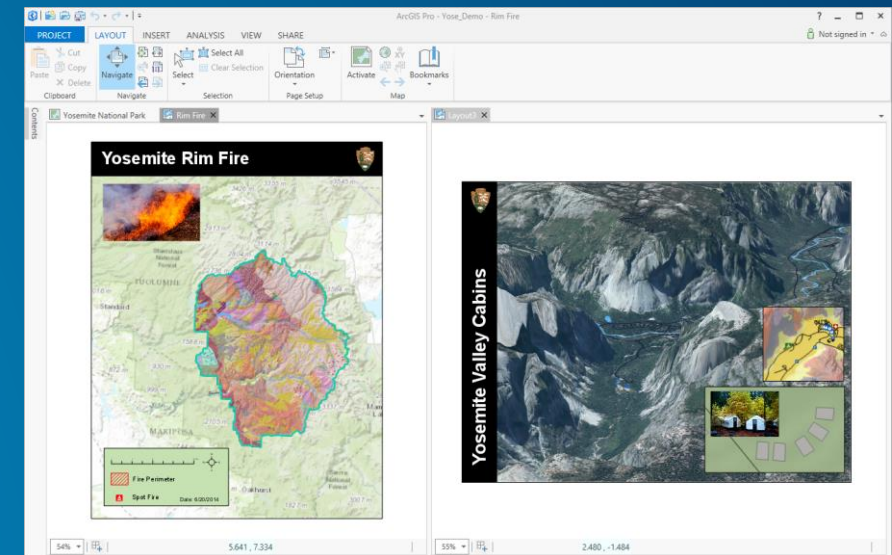
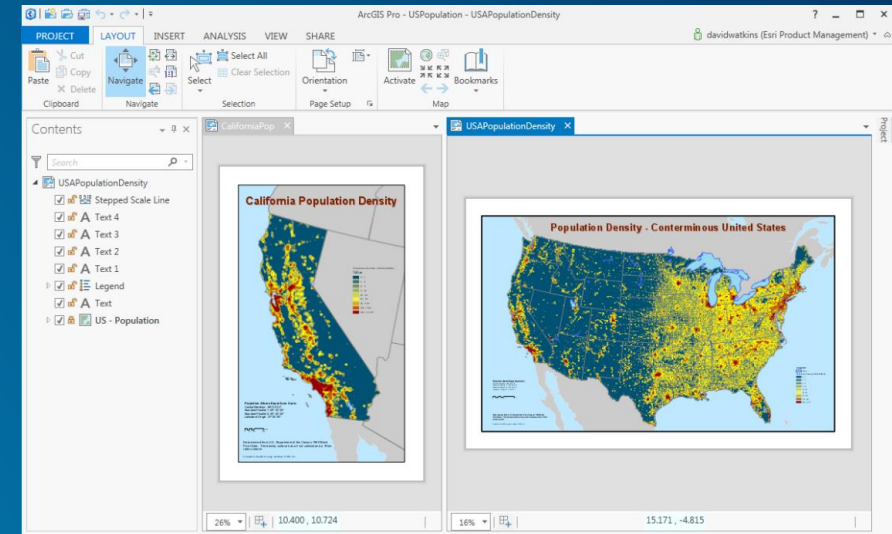
# Terminology Changes

ArcGIS Desktop (pre 10.3)	ArcGIS Pro name
Data Frame	Map
Globe	Scene: Global View
Scene	Scene: Local View
Color ramp	Color scheme
Marker symbol	Point symbol
Fill symbol	Polygon symbol
Symbol layer	Symbol layer of type Marker, stroke or fill



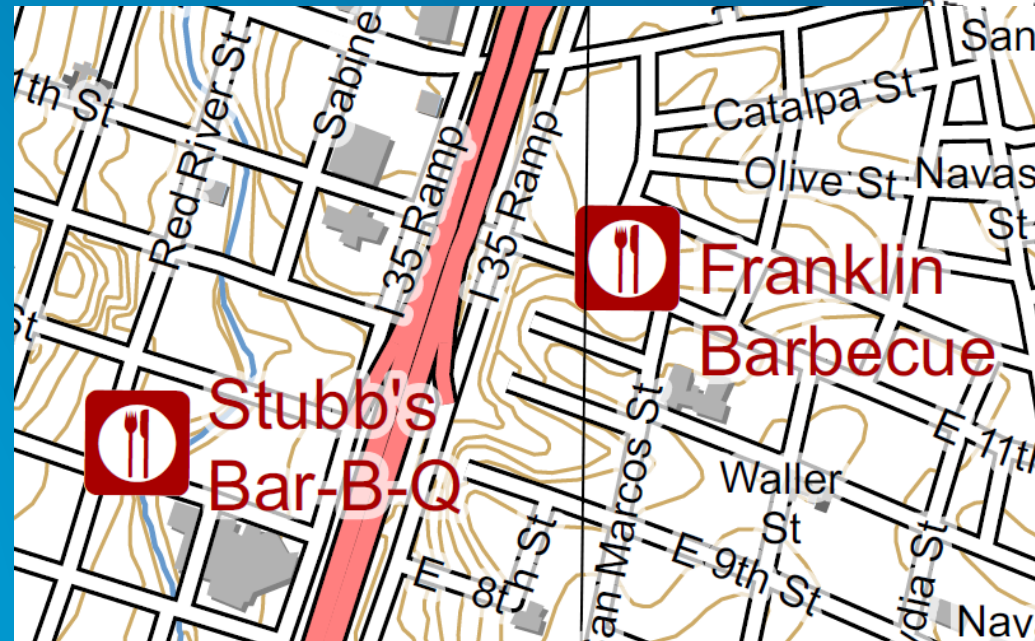
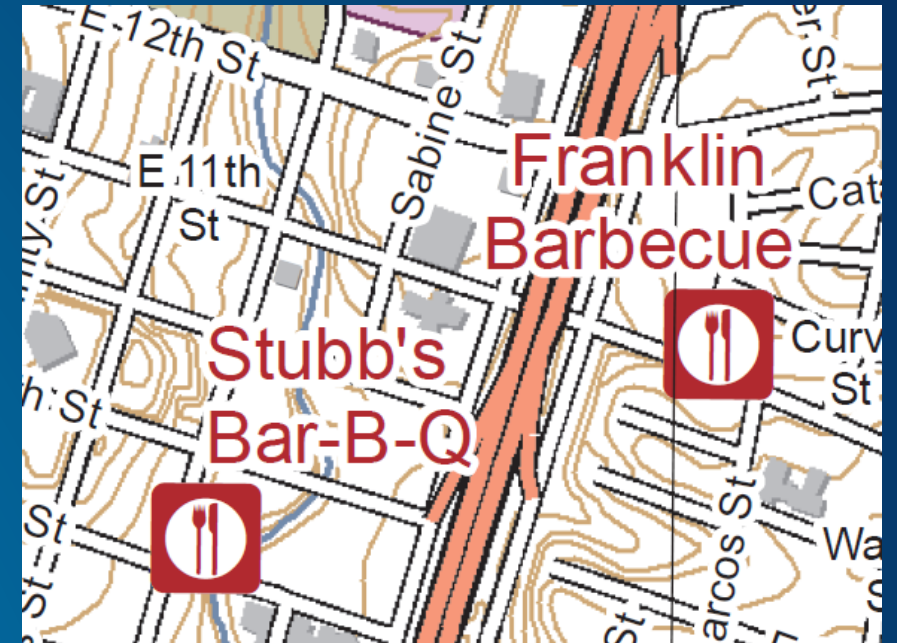
# Layout Enhancements

- Multiple layouts
- 3D Maps in layouts
- Layout contents
- Map decoupled from the layout
- Removed printer dependencies



## Export Improvements

- Support for transparency in PDF
- Anti-aliasing and improved graphics
- Faster
- Smaller file sizes



## Map Automation

- Continue to use arcpy.mapping scripts with some modifications
- Script redundant mapping workflows
- Create map books
- Update projects, maps and layers (data sources, symbology)
- Automate the sharing of maps via export or publishing
  
- What changes?
  - Python 3.4 (in ArcGIS Pro)
  - Projects (aprx)
  - Layer file changes
  - Multiple layouts

# Map Automation

- DEMO – Python tool in ArcMap 10.3

# ArcGIS Pro – Get it Today!

- Be a current ArcGIS user
  - Desktop
  - ArcGIS Online Organizations

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The screenshot shows the ArcGIS Pro website homepage. At the top, there is a green navigation bar with the text "ArcGIS Pro" and a menu with links for "Home", "Get Started", "Help", "Tool Reference", "ArcPy", and "Videos". Below the navigation bar, the main content area features a "Download the app" section. This section includes the text "Version: 1.0 BETA 1" and "Released: April 2014". A description states: "ArcGIS Pro is the essential application for creating and working with spatial data on your desktop. It provides tools to visualize, analyze, compile, and share your data, in both 2D and 3D environments." There is a prominent orange button labeled "DOWNLOAD ARCGIS PRO" and a grey button labeled "RELATED DOWNLOADS". Below these buttons are links for "System Requirements", "Install and Sign In", "Release Notes", and "FAQ". To the right of the main content, there is a "Get started" box with links for "Guided tour" and "Migrate to ArcGIS Pro". Below that is a "From our Videos" section featuring a video player and a list of video topics: "Layout", "Maps", "Addresses", "Facilities", "Roads", "World", and "Folder Connections". At the bottom of the main content area, there are two columns: "Build Projects" and "Visualize Your Data". The "Build Projects" section explains that work is organized into projects containing all resources. The "Visualize Your Data" section explains that data can be visualized in both 2D and 3D, and multiple maps can be opened side-by-side. To the right of these columns is a "Migrate your content" section with a "MORE VIDEOS" button.

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# DEMOS

## ArcGIS Pro Workshops: Tuesday

- All occurring in Room 202B

**11:00-12:00 ArcGIS Pro: An Overview**

**1:30-2:30 ArcGIS Pro: What's New in Analysis**

**4:00-5:00 (this session repeats)**

**5:15-6:15 ArcGIS Pro: What's New in Editing and Data  
Management**

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**Don't forget to complete  
a session evaluation form!**

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# **Print your customized Certificate of Attendance!**

Printing stations located on L St. Bridge, next to registration

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# GIS Solutions EXPO, Hall D

Monday, 12:30pm – 6:30pm

Tuesday, 10:45 AM–4:00 PM

- Exhibitors
- Hands-On Learning Lab
- Technical & Extended Support
- Demo Theater
- Esri Showcase

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## **Networking Reception:**

# ***National Museum of American History***

Tuesday, 6:30 PM–9:30 PM  
Bus Pickup located on L Street

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## **Interested in diving deeper into Esri technology?**

Add a day to your Fed GIS experience and register to attend the Esri DevSummit Washington DC. Stop by the registration counter to sign up.

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Understanding our world.