Getting Started with ArcGIS Pro

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ArcGIS Pro 2.1

The most important thing you need to know:
• Pro is the desktop product moving forward

Integration of ArcGIS Pro and ArcGIS Enterprise
• ArcGIS Pro uses settings from Active Portal

Sharing from Pro
• Maps, scenes, and layers can be shared in one click or configured first
• Packages can be used to share desktop workflows or to extend sharing functionality
• Multiple sharing jobs are supported and continue running if Pro is closed
ArcGIS Pro 2.1

- System Requirements
- Getting Started with ArcGIS Pro
- What’s New
## ArcMap Product Lifecycle

<table>
<thead>
<tr>
<th>Version</th>
<th>Release Date</th>
<th>General Availability</th>
<th>Extended Support</th>
<th>Mature Support</th>
<th>Retired</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.6</td>
<td>January 17, 2018</td>
<td>Jan 2018 - Dec 2019</td>
<td>Jan 2020 - Dec 2021</td>
<td>Jan 2022 - Dec 2023</td>
<td>January 01, 2024</td>
</tr>
</tbody>
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Solutions Deployment Tool

• Plug-in available for ArcGIS Pro
• This will make implementation of solutions much easier
• Visit: solutions.arcgis.com
Scanned Aerial Images

Create Historical Map

- 44 photos of year 1965, Davis, UT
- 13 GCPs manually collected (NAIP as reference)
- RMS: 1.7
ArcGIS Pro – Working with LiDAR

- Work directly with LAS files
  - Benefit - convenience when needing to quickly do something with one file
  - Not a substitute for LAS dataset
- Las Building Multipatch - New GP tool
  - Constructs multipatch based building shells using airborne lidar points, building footprints, and ground height information
  - Roof points are triangulated into a mesh and sides are extruded into ground
  - Results are closed, so can be used in other models that require closed structure, like volume Profile graph
Arcade

- Arcade is a new expression language for the ArcGIS Platform
- Primarily designed for embedded expression cases
  - Labeling
  - Rendering
  - Symbol variation
  - Range aliases
- It is not a replacement for Python - Python is the better language for geoprocessing, automation, etc...
- Why not just use JavaScript, Python, etc...? - see slide for more
- Security
  - Cross-site scripting concerns with languages like JS
- Portability - including size
  - Python has huge runtime
- ArcGIS Online - December 2016 - Arcade has actually been in use behind the scenes for sometime - predominance renderer, some of the time renderer
Script your Web GIS with the ArcGIS Python API

The ArcGIS Python API integrates well with the Jupyter Notebook and SciPy stack. It enables academics, data scientists, and GIS analysts to share programs and reproducible research with others.

- Automate workflows and perform repetitive tasks using scripts
- Perform analysis and big data analytics
- Update content
- Script ArcGIS for Portal Administration
Working with Metadata

• ArcGIS Pro allows you to **view and edit metadata**
  - Feature classes, projects, raster files, shapefiles, etc.

• By default, metadata is set to the “Item Description” (ArcGIS Online/Portal)
  - Can be changed to a different metadata standard
Demonstration
Using ArcGIS Pro
Resources

- Desktop Resource Page: desktop.arcgis.com
  - Redesigned page is a one-stop shop for Pro resources such as getting started, help documentation, and engaging with the Pro Community
- Lessons: learn.arcgis.com
- GeoNet Community: community.esri.com
- Esri Blogs: blogs.esri.com
- Training: training.esri.com
Keynote by Esri President Jack Dangermond