



# Migrating From ArcMap to ArcGIS Pro

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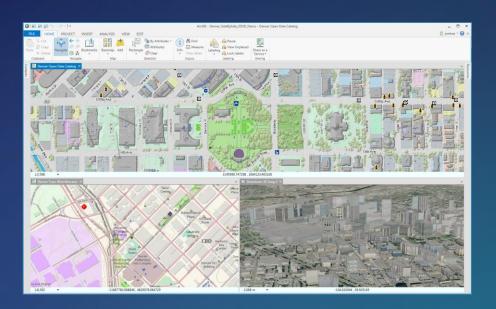


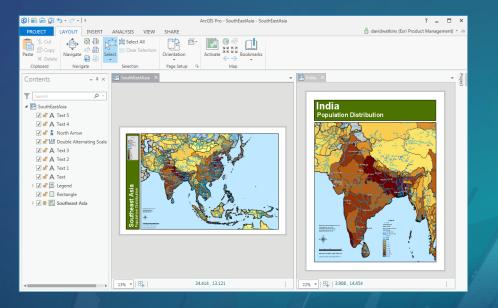
#### Goals

- Familiarize ArcMap users with ArcGIS Pro, be they those who have not tried Pro yet, or had problems, with the basics
- Not trying to replace a training class
- LOTS of resources on YouTube and the Esri website
- Plug the Books from Esri Press!
- Switching to ArcGIS Pro from ArcMap, Excellent starting point for existing ArcMap users
- Getting to Know ArcGIS Pro, the next step for really diving into it, or for users new to ArcGIS, or Pro users looking for guidance

#### **ArcGIS Pro**

- 64 bit, multi-threaded
- Simplified user interface
- Integrated with the ArcGIS platform
- Combined 2D/3D experience
- Multiple maps and layouts
- Improved analysis experience

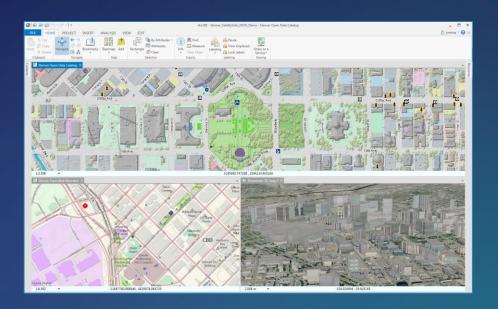


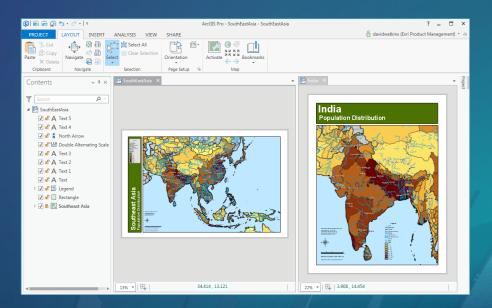


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### Someday it will replace ArcMap

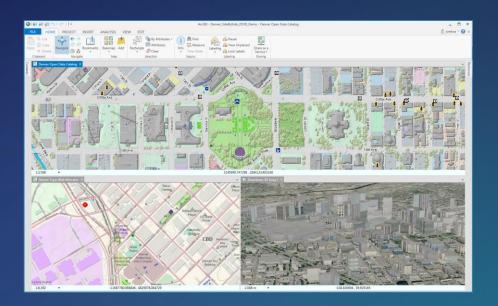


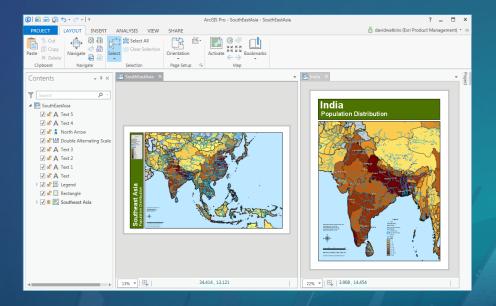


#### **ArcGIS Pro**

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## How do you get started?





# ArcGIS Pro Why Switch?

#### Reasons for switching and/or starting with ArcGIS Pro

- Good reasons include...
  - Performance (64-bit, multicore architecture)
  - Seamless integration of 2D and 3D
  - Improved labeling engine and options
  - Tight integration with ArcGIS Online and ArcGIS Enterprise
  - Default settings for new/inexperienced users
  - ArcMap Product Life Cycle (ArcMap WILL go away, someday)
    <a href="https://support.esri.com/en/Products/Desktop/arcgis-desktop/arcmap/10-7#product-support">https://support.esri.com/en/Products/Desktop/arcgis-desktop/arcmap/10-7#product-support</a>
  - Modern and more intuitive/efficient User Interface
  - Definition Queries on layers (multiple)
  - Spell Check!

#### Reasons for NOT switching and/or starting with ArcGIS Pro

- Your existing computer may not be Pro-friendly
  - 64-bit requirement
  - System resources may be a non-starter, look at the requirements on the support pages. Memory, GPU, Cores, processor, etc.
  - My Iaptop: Dell Precision 5530, Intel I7 CPU, 6-Core, 32 Gb RAM, 1Tb SSD, NVIDIA Quadro P2000 GPU
- Features that are not quite there yet
  - Geometric Networks (being replaced with Utility Network)
  - Parcel Fabric (released at Pro 2.4 and ArcGIS 10.7.1)
  - Map Annotation (moved off to Map Notes Feature Classes)
- Need ArcMap compatibility
- · Finding the time to learn a new desktop GIS is tough, while doing your job.

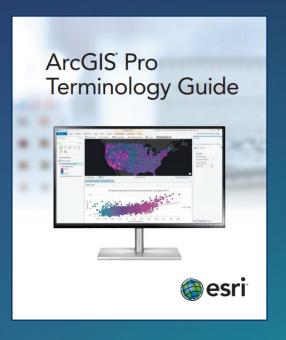
# ArcGIS Pro: New terminology, new interface.

#### Let's talk about the interface

- Existing ArcMap users may find the interface transition...
  - Difficult
  - Annoying
  - Confusing
  - I did...at first
- Tools and Toolbars are now in tabs on the ribbon, like Microsoft Office
  - Remember transitioning from Office 2007 to Office 2010?
  - This can, at first, be challenging, but the majority of feedback has turned positive, once users familiarize themselves with the new GUI.
  - New users like it very much.

#### ArcGIS Pro uses some new terminology

	Name in ArcGIS Pro	Name in ArcMap	Description
0	Feature layers	Feature service	Serve point, line, or polygon features and their attributes
噩	Imagery	Image service	Serve raster data products such as satellite images or aerial photography in analyzable form.
<u>8</u>	Map image layers	Map service	Map cartography based on vector or raster data dynamically rendered and served as image tiles.
<b>=</b>	Tile layers	Hosted tile services	A collection of web-accessible tiles that reside on a service, prerendered for rapid display. Includes basemaps and vector basemaps.
<u> </u>	Elevation layers	Elevation services	Cached elevation image tiles in a compressed format, suitable to show terrain in 3D scenes.
<del>-</del> ā-	Web tools	Geoprocessing services	Geoprocessing function that runs on the GIS server rather than using local GIS software capabilities.
ΔÂ	Scenes	Scenes	Symbolized 3D spatial content for visualization. May include 2D and 3D layer services.
	Web maps	Web maps	Maps based solely on GIS services. May include other types of services listed in this table.
	Packages	Packages	Data uploaded to ArcGIS Online for sharing. Includes layer, map, project, rule, or geoprocessing packages.
00 💆 📆 🔐	Scene layers	Scenes	Collection of 3D objects and z-values, including points, 3D objects, integrated meshes, or point clouds.
<b>III</b>	Tables	Tables	Rows and columns of information. May contain locations and be drawn on the map.

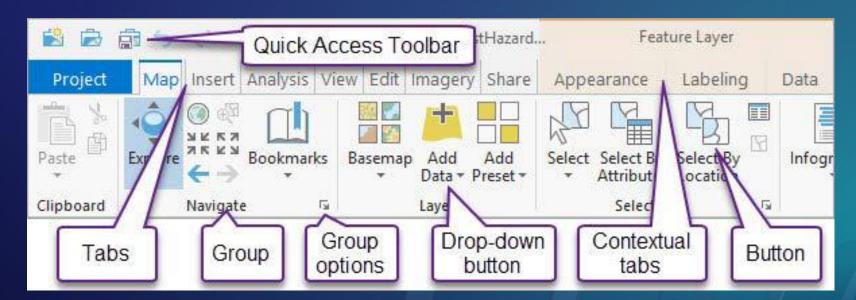


#### Let's talk more about the interface

- Instead of Menus and Toolbars and Tools, we have the Ribbon
  - Tabs, Groups, Group Options
  - Buttons and Drop-Down Buttons

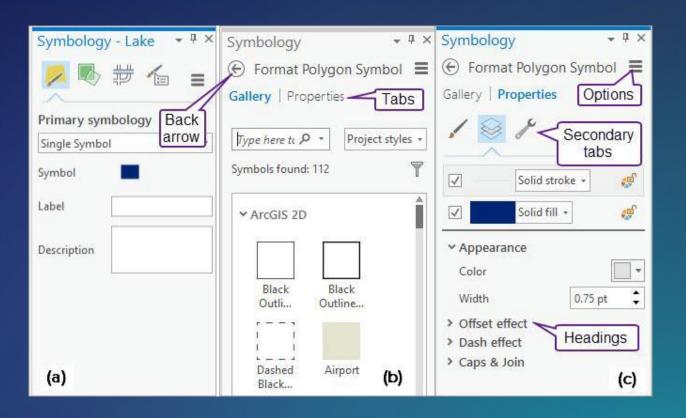
- Tabs may be contextual, meaning they will change, depending on what you are

doing



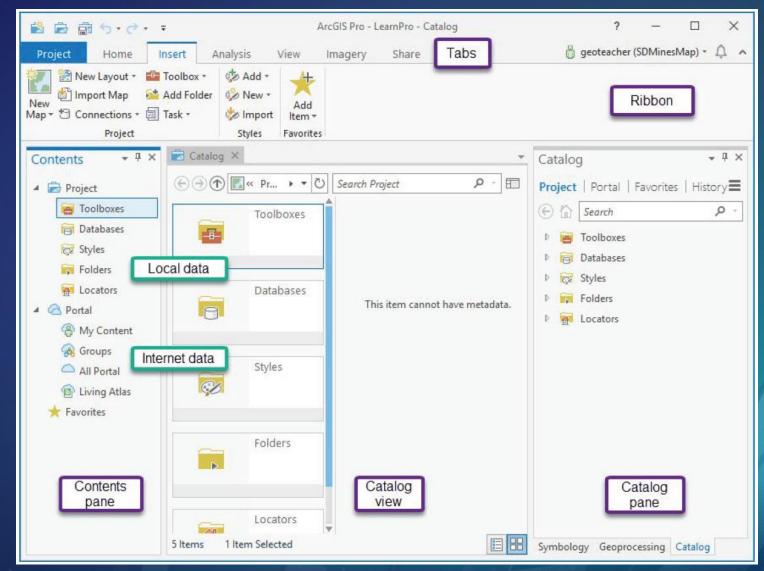
#### Let's talk about the interface

- Information is presented in the form of dockable/moveable Panes and Views
  - Navigate with the Back Arrow, and tabs
  - Access options with the "Hamburger"



#### Templates can get you started

- Catalog Template can re-create the ArcCatalog experience
- Catalog Pane is like the Catalog Window in ArcMap
- Catalog View is where you would edit Metadata
- Can open ArcGIS Pro w/o a project (new)



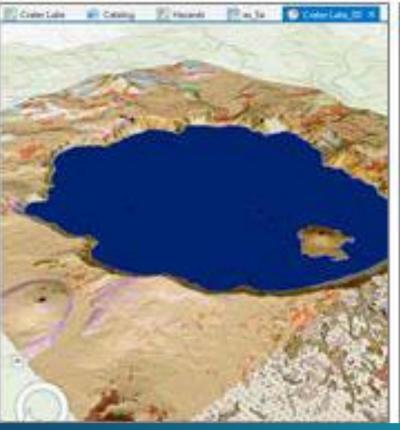
# **ArcGIS Pro Views**

Map view

#### Scene view

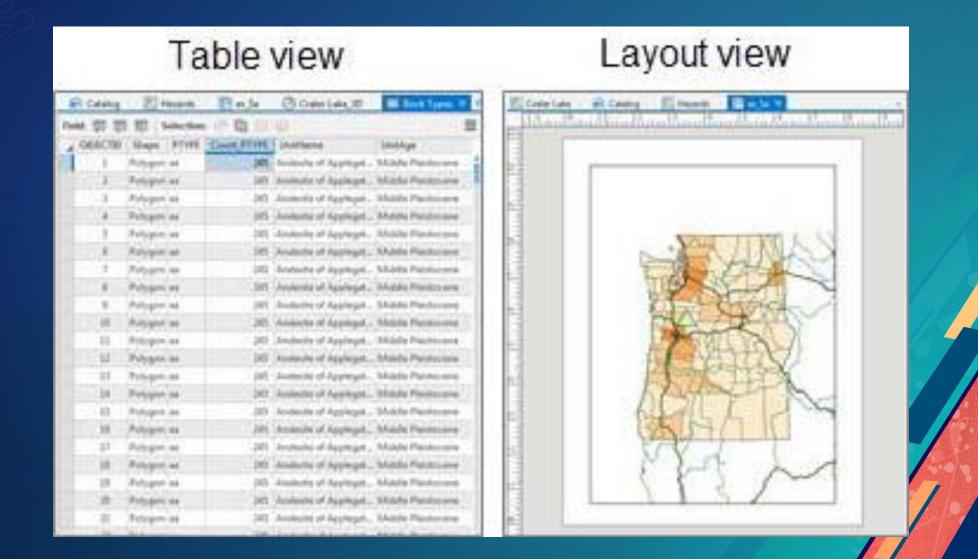
Catalog view



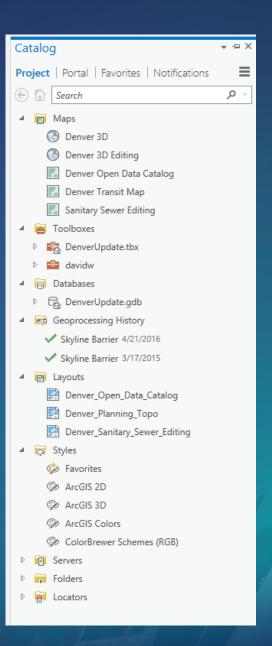




# **ArcGIS Pro Views**

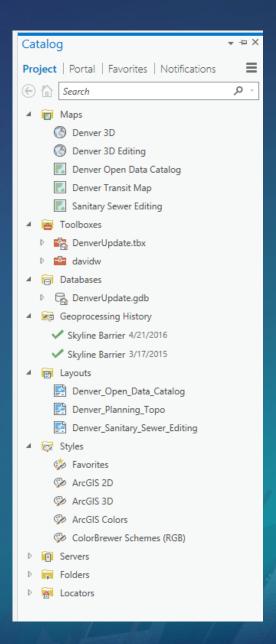


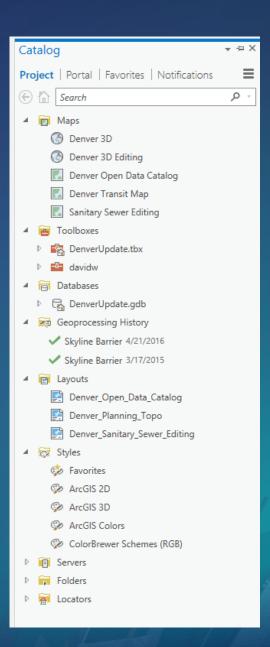
- Multiple maps and layouts
- Database, folder, server connections
- Tools and toolboxes
- Project styles
- Default geodatabase



- Multiple maps and layouts
- Database, folder, server connections
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- Default geodatabase

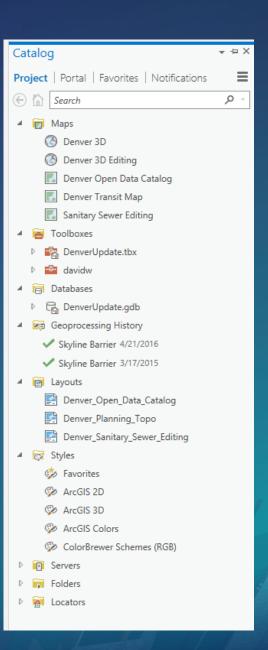
All can be easily packaged and shared



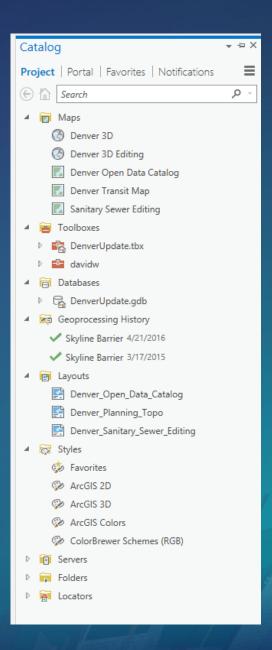


How should you organize your work moving forward?

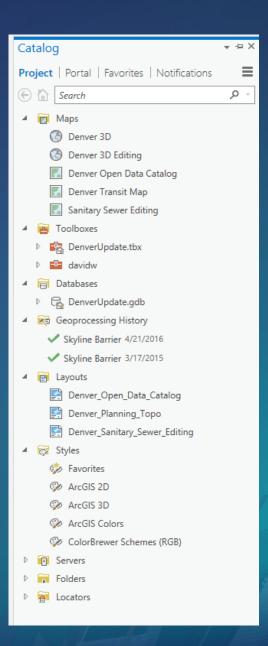
Do you have related maps?



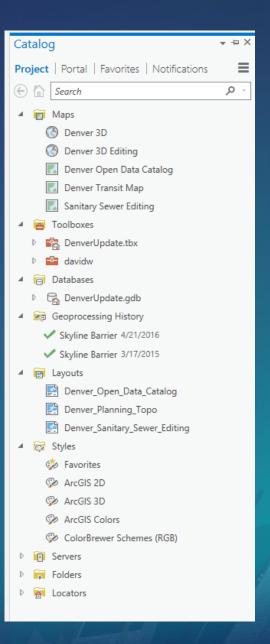
- Do you have related maps?
- Do you use the same map on multiple layouts?



- Do you have related maps?
- Do you use the same map on multiple layouts?
- Do you use the same data connections for groups of maps?

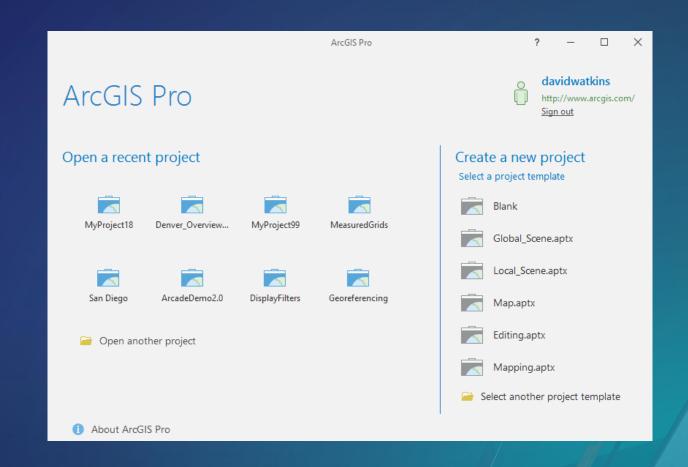


- Do you have related maps?
- Do you use the same map on multiple layouts?
- Do you use the same data connections for groups of maps?
- What are the different types of work you do?



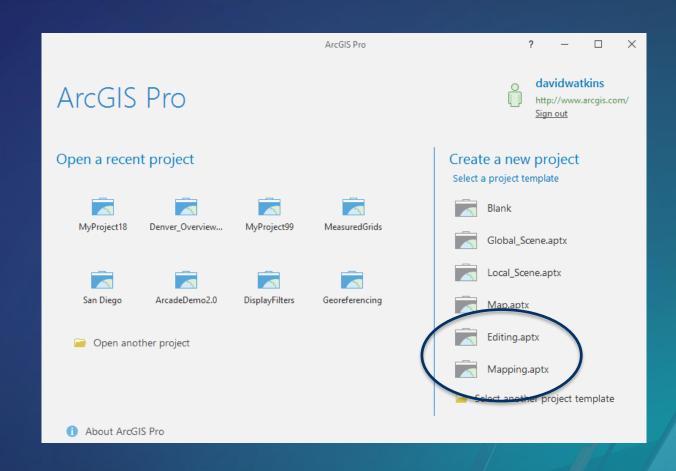
#### Working with project templates

- You can have many templates
  - Editing, mapping, viewing
- Customize and share
  - User interface
  - Project styles
  - Layouts
  - Connections
  - Toolboxes



#### Working with project templates

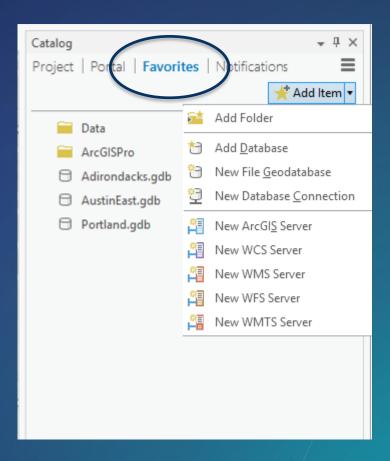
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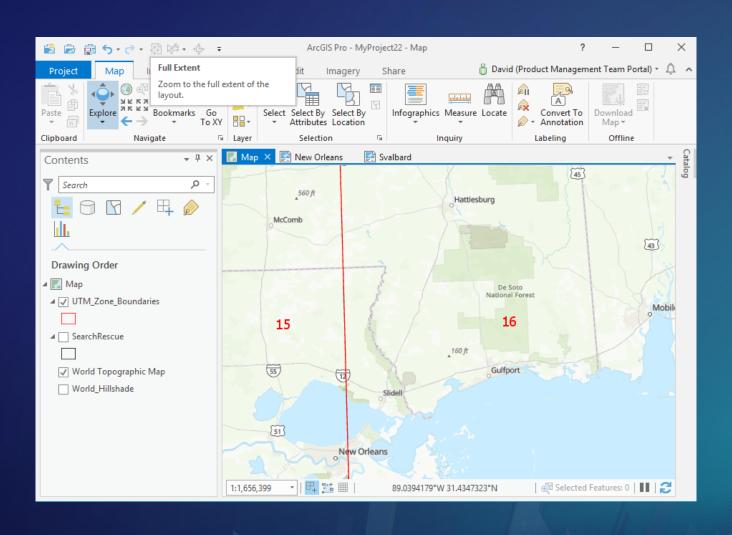


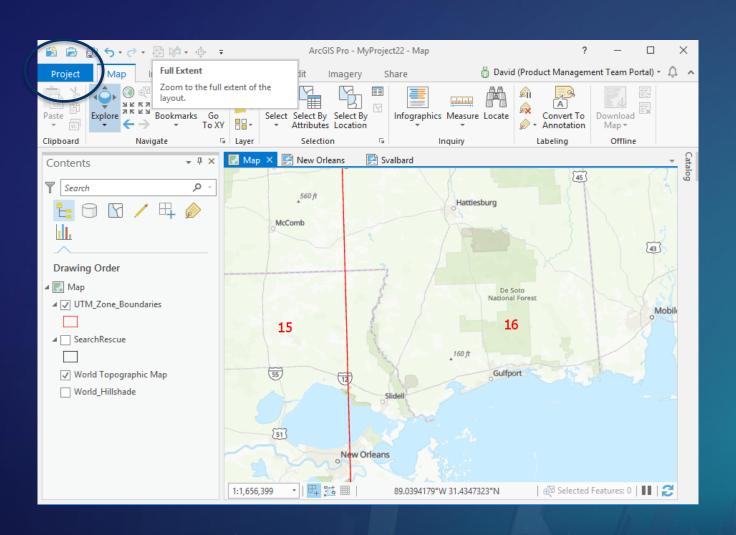
Your templates are displayed on the start screen

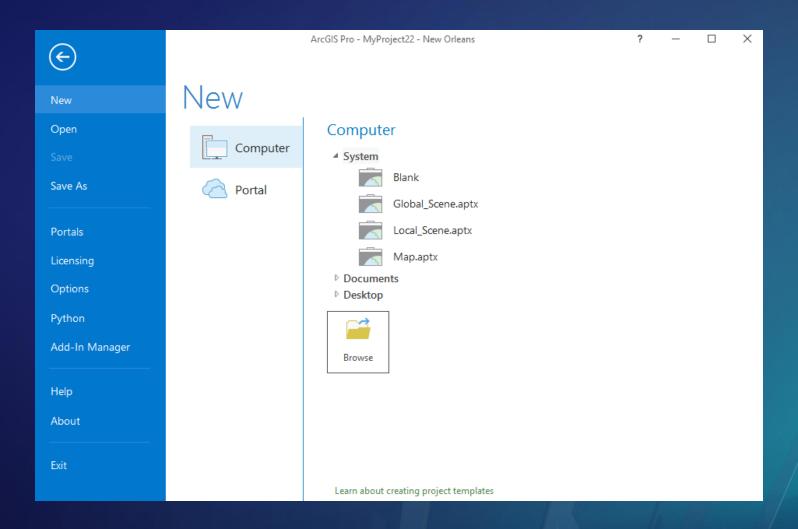
#### **Working with Favorites**

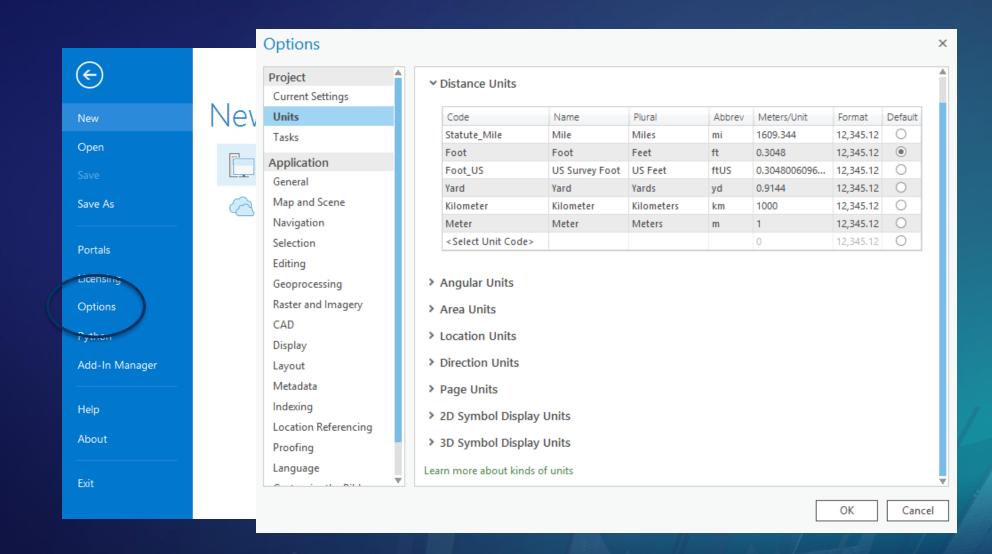
- Add file, database, and server connections
- Favorites are saved on a per-user basis

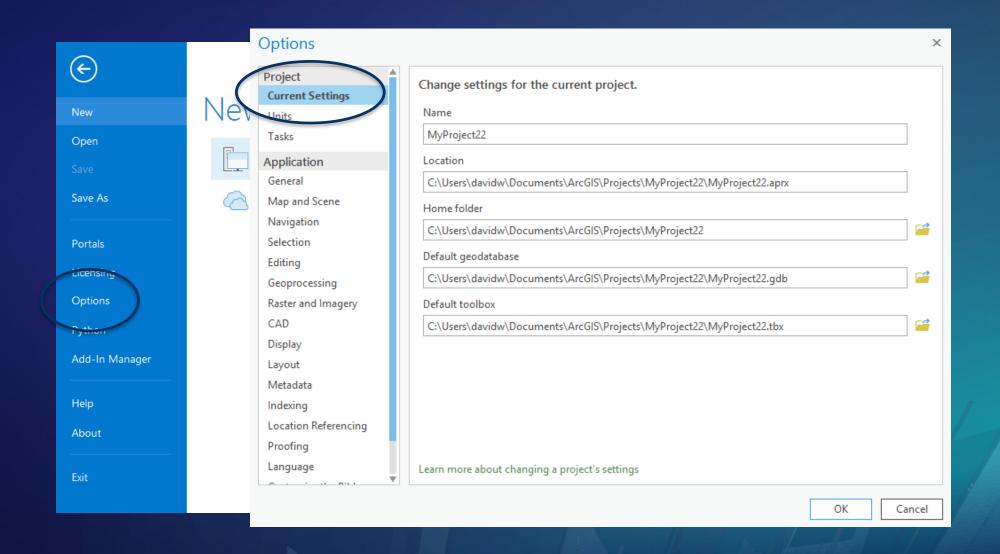


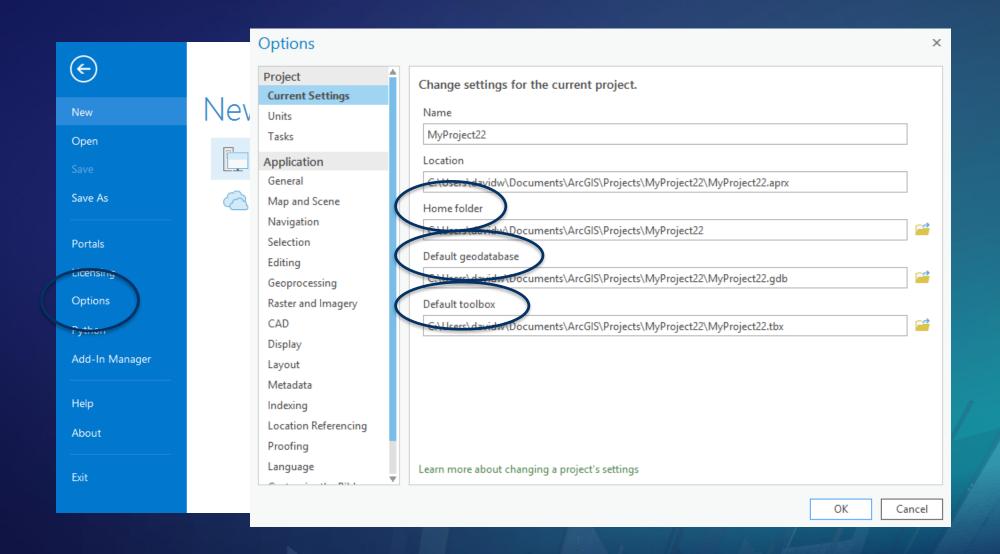


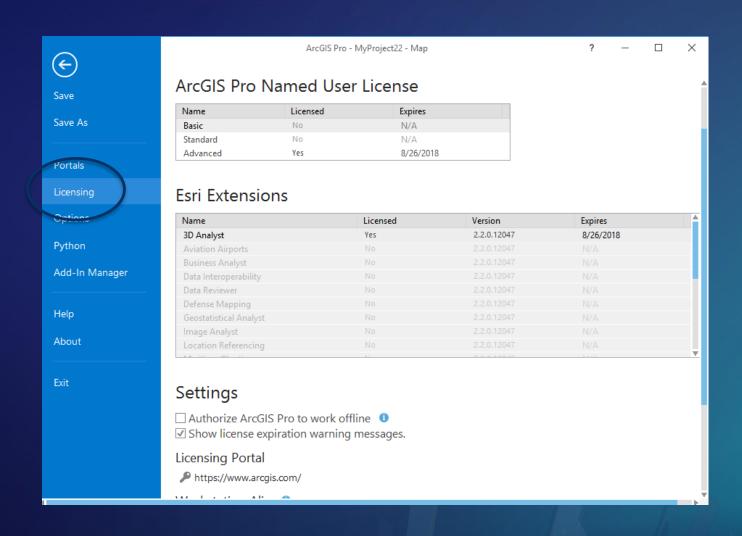






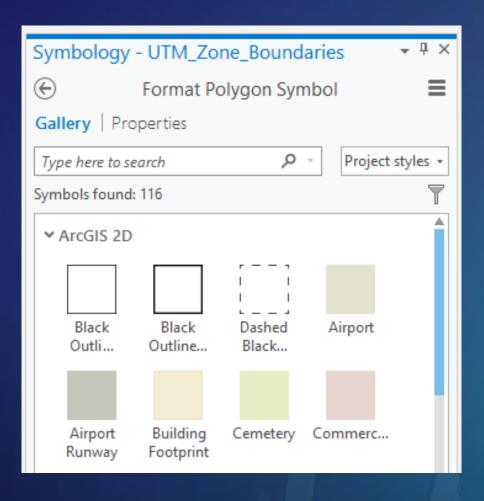




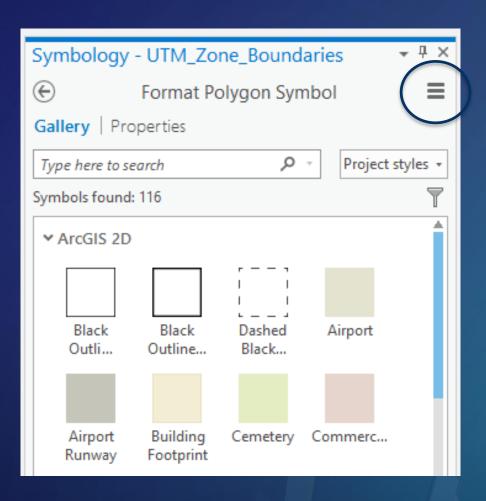


### What is the burger?

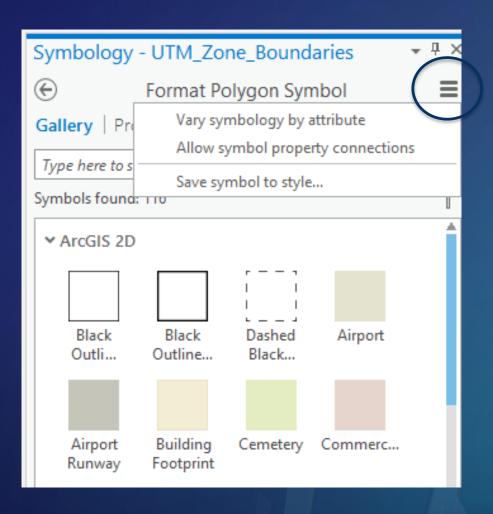
#### What is the burger?



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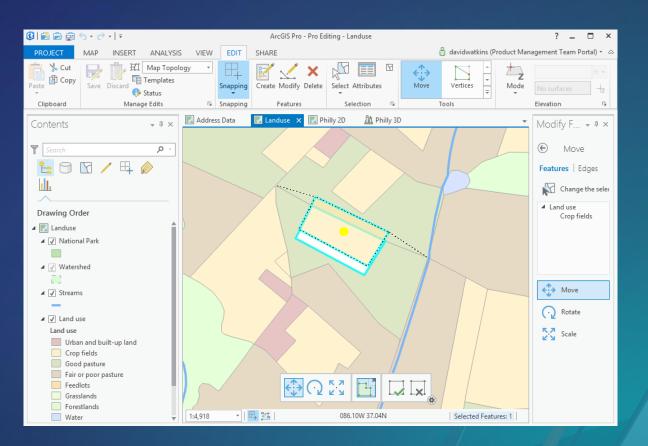


#### What is the burger?



#### **Editing in ArcGIS Pro**

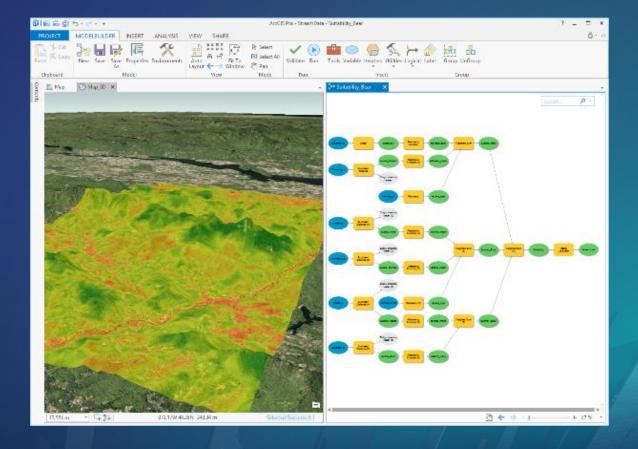
- No need to start and stop editing
- Create and modify features
- Edit versioned data
- Edit map and geodatabase topology
- Group templates



### **Analysis in ArcGIS Pro**

- Analysis tab
- Geoprocessing tool panes
- ModelBuilder
- Python
- Customizable gallery of tools



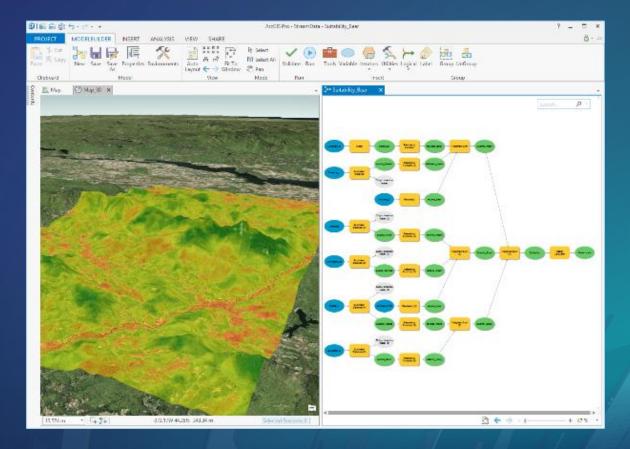


#### **Analysis in ArcGIS Pro**

- Analysis tab
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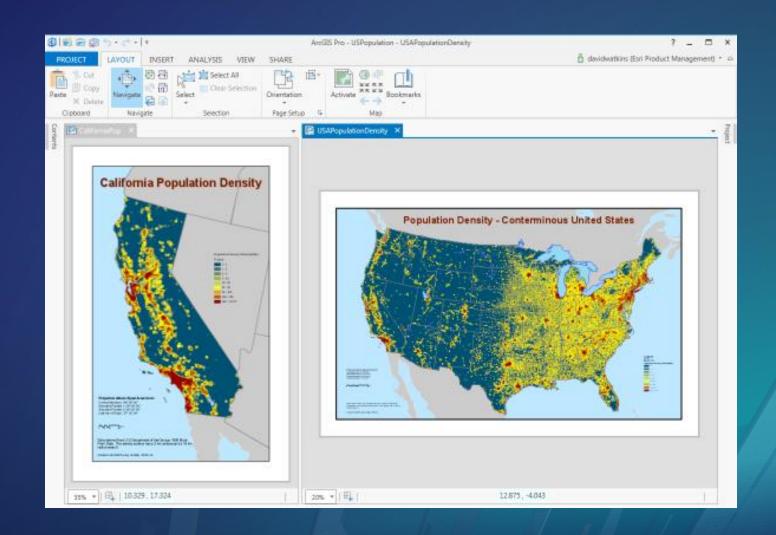
**Analyze tools for Pro** 





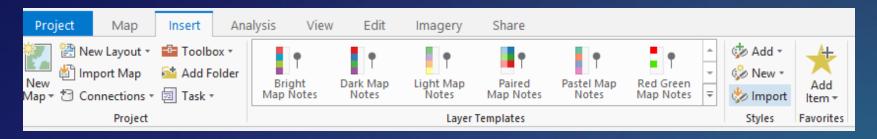
### **Mapping in ArcGIS Pro**

- Multiple layouts
- Anti-aliasing
- Transparency
- Map series
- 3D mapping
- Animation



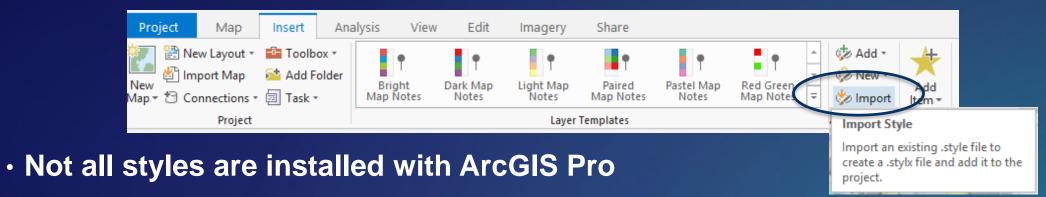


#### Where are my styles?



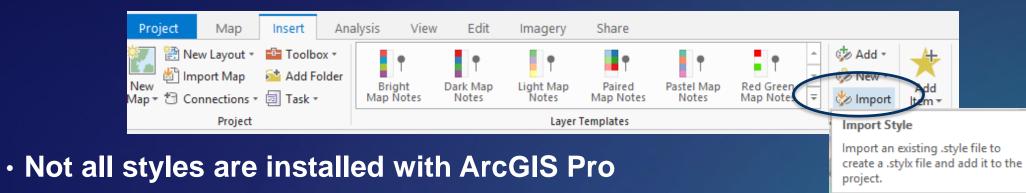
- Not all styles are installed with ArcGIS Pro
- New style format (.stylx)
- Styles from ArcMap and custom styles can be imported

#### Where are my styles?

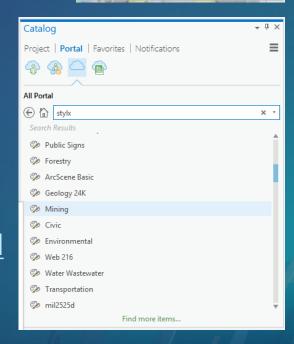


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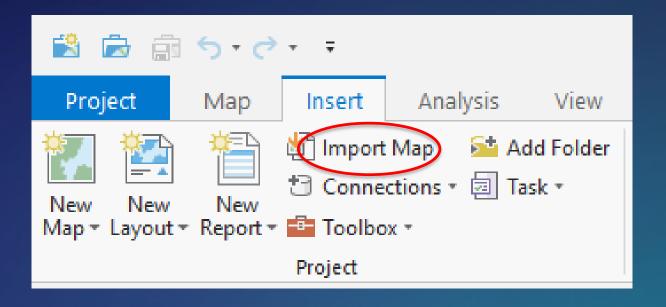
#### Where are your styles?



- New style format (.stylx)
- Styles from ArcMap and custom styles can be imported
- Search from the Catalog Pane
- Add styles to your project from ArcGIS Online
- https://esri-styles.maps.arcgis.com/home/index.html

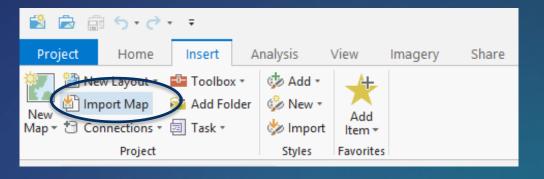


#### **Migrating Map Documents**

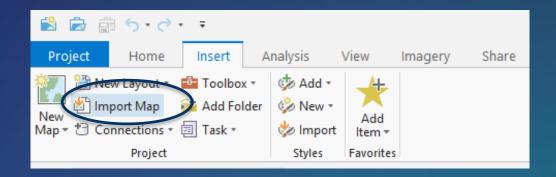


- From the Insert tab, use the Import Map button
- New at 2.3, drag and drop map package from File Explorer on to the Catalog Window

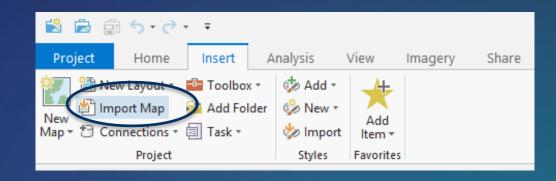
# Getting Started with ArcGIS Pro



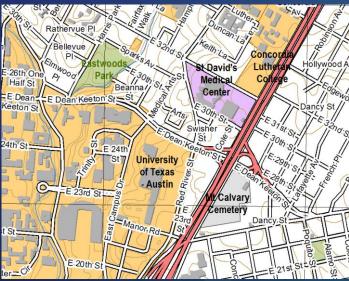
- What will import?
  - .mxd, .sxd, .3dd files
  - Maps, layouts, symbology, scenes, and models



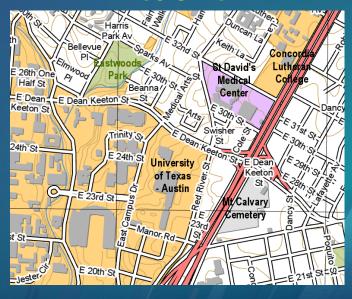
- What will import?
  - .mxd, .sxd, .3dd files
  - Maps, layouts, symbology, scenes, and models
- Results should look the same
- New at 2.3, drag and drop from File Explorer



#### ArcMap

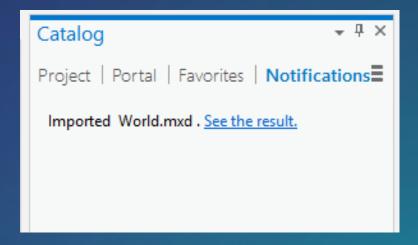


#### **ArcGIS Pro**

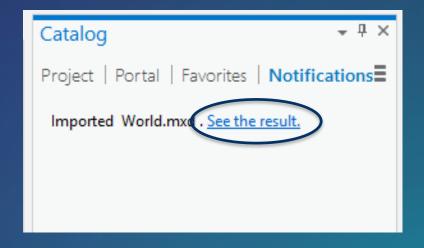


- Occasionally, things may differ slightly
  - Example: OLE objects are not supported
  - Label placement has been improved
  - Anti-aliasing used for text and line work

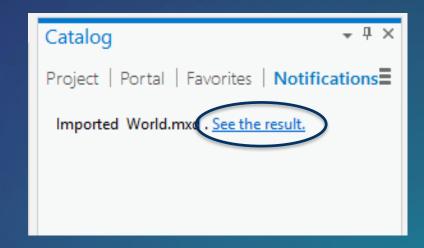
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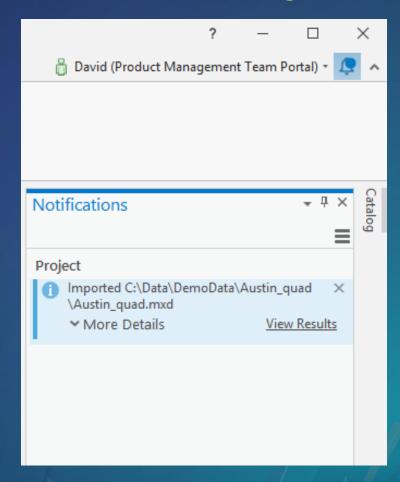
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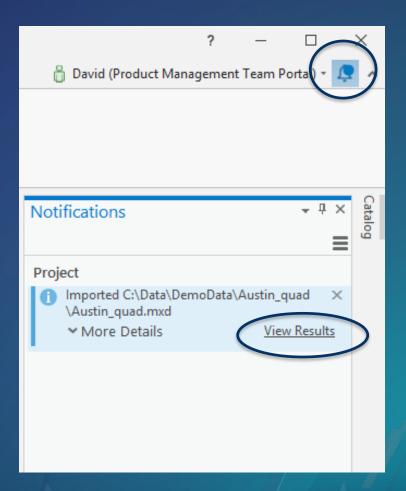


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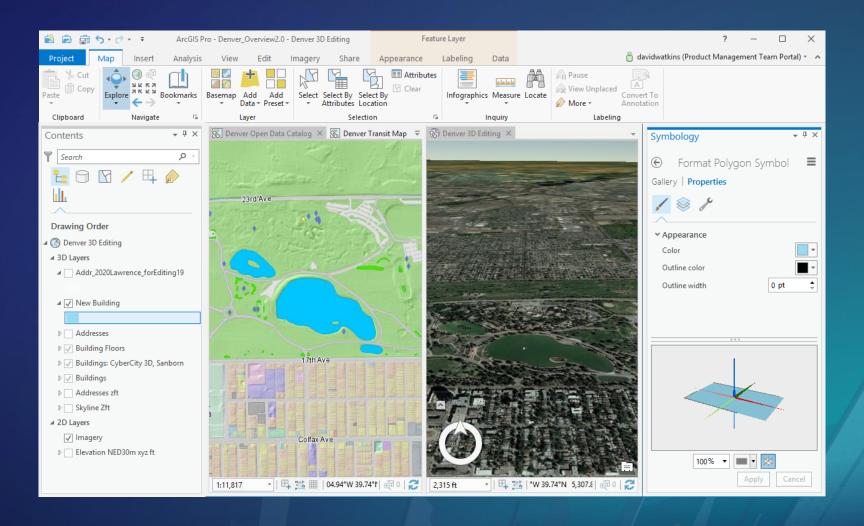
#### **Note: Notifications changed at 2.2**



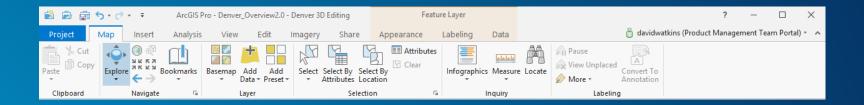
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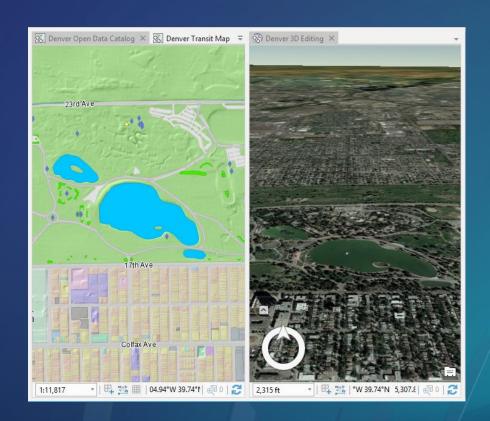
Summary of key differences when working with ArcGIS Pro



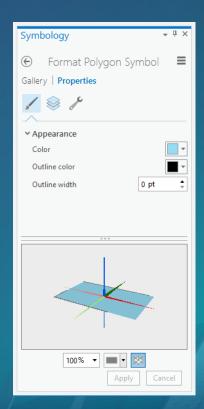
Contextual ribbon



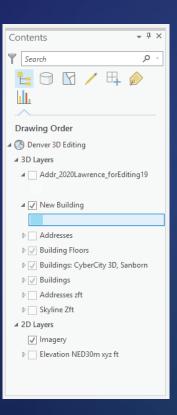
Views



Panes

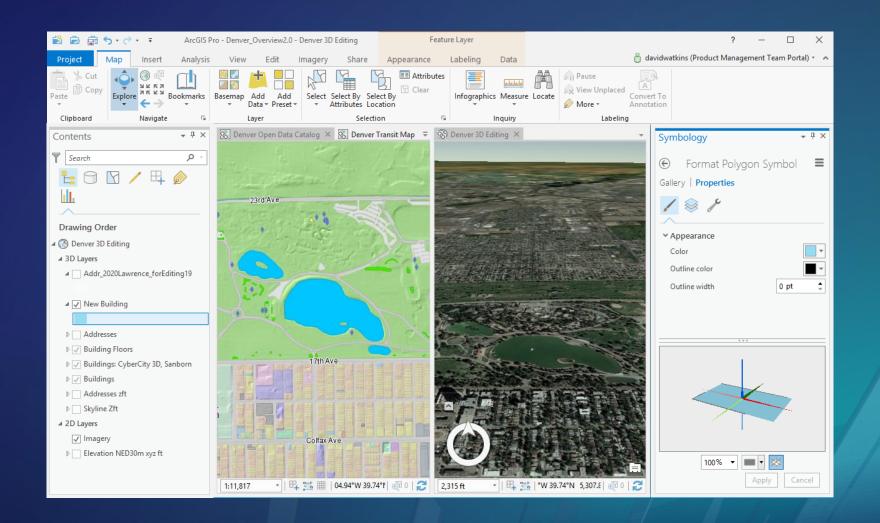


Contents



### The user interface is new, but concepts are the same

- Contextual ribbon
- Views
- Panes
- Contents



## Let's take a look

## Get started using ArcGIS Pro!

The best way to get started is just to start ArcGIS Pro 2.3 is the current version ArcGIS Pro 2.4 will be released very soon

## Questions?

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Esri-Philadelphia, Local Government Team

