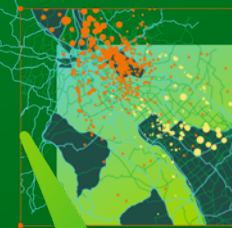


# ArcGIS Pro: Tips and Tricks

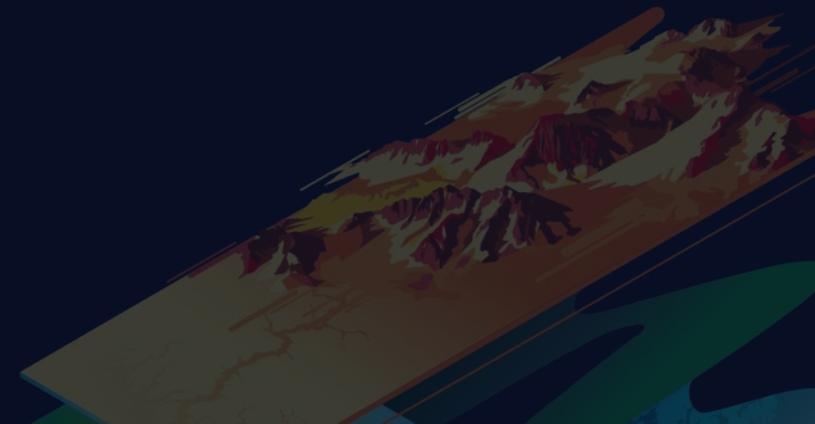
Nate Rock

2022 ESRI MIDWEST USER CONFERENCE



# Agenda

- Key Concepts / Backstage
- Exploring the Catalog and Contents
- Working with Raster Layers
- Working with Feature Layers
- Interacting with the Map
- Creating Layouts
- Geoprocessing and Analysis
- Creating and Linking Views
- Editing Data
- Working with Imagery
- Sharing Your Work
- Questions



# Key Concepts/Backstage



# Key Differences between ArcMap and ArcGIS Pro

- ArcMap **.mxd** (Map Document)  $\neq$  ArcGIS Pro **.aprx** (Project File)



- User Interface

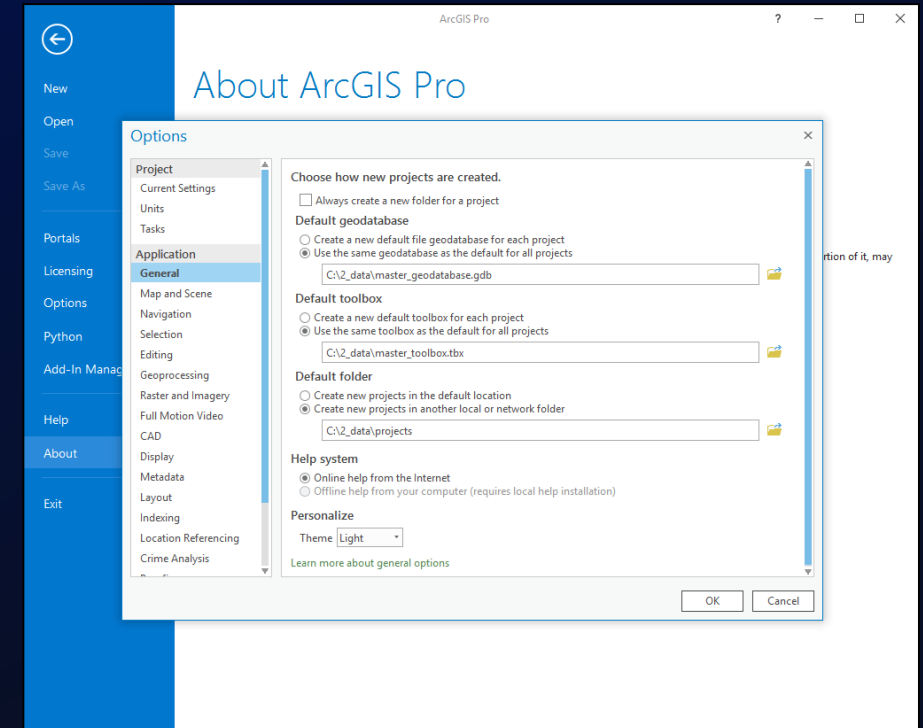
- Tools appear when you need them
- Explore tool combines Pan, Zoom, Identify, and HTML Pop-up
- Editing – Always Enabled

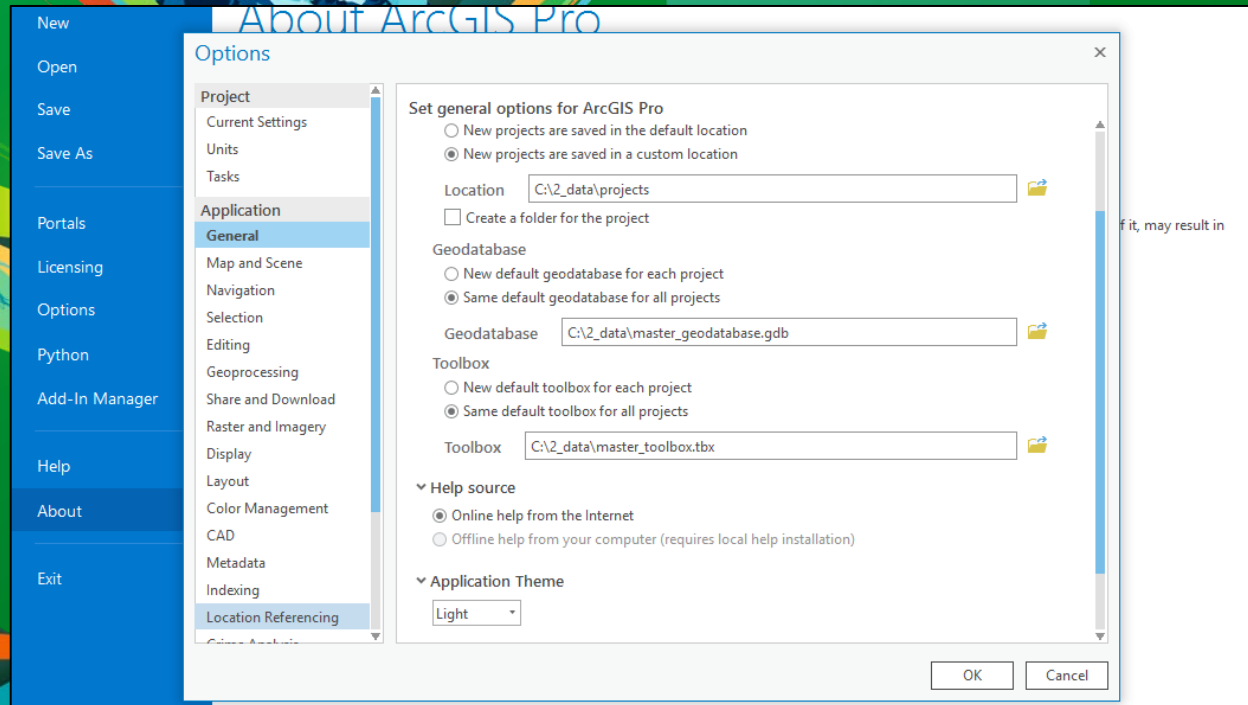
- Connection to ArcGIS Online and Portals

- Previously Separate Tools Combined into One (Maps, Catalog, Toolbox, 2D, 3D)

# Before a project is even opened:

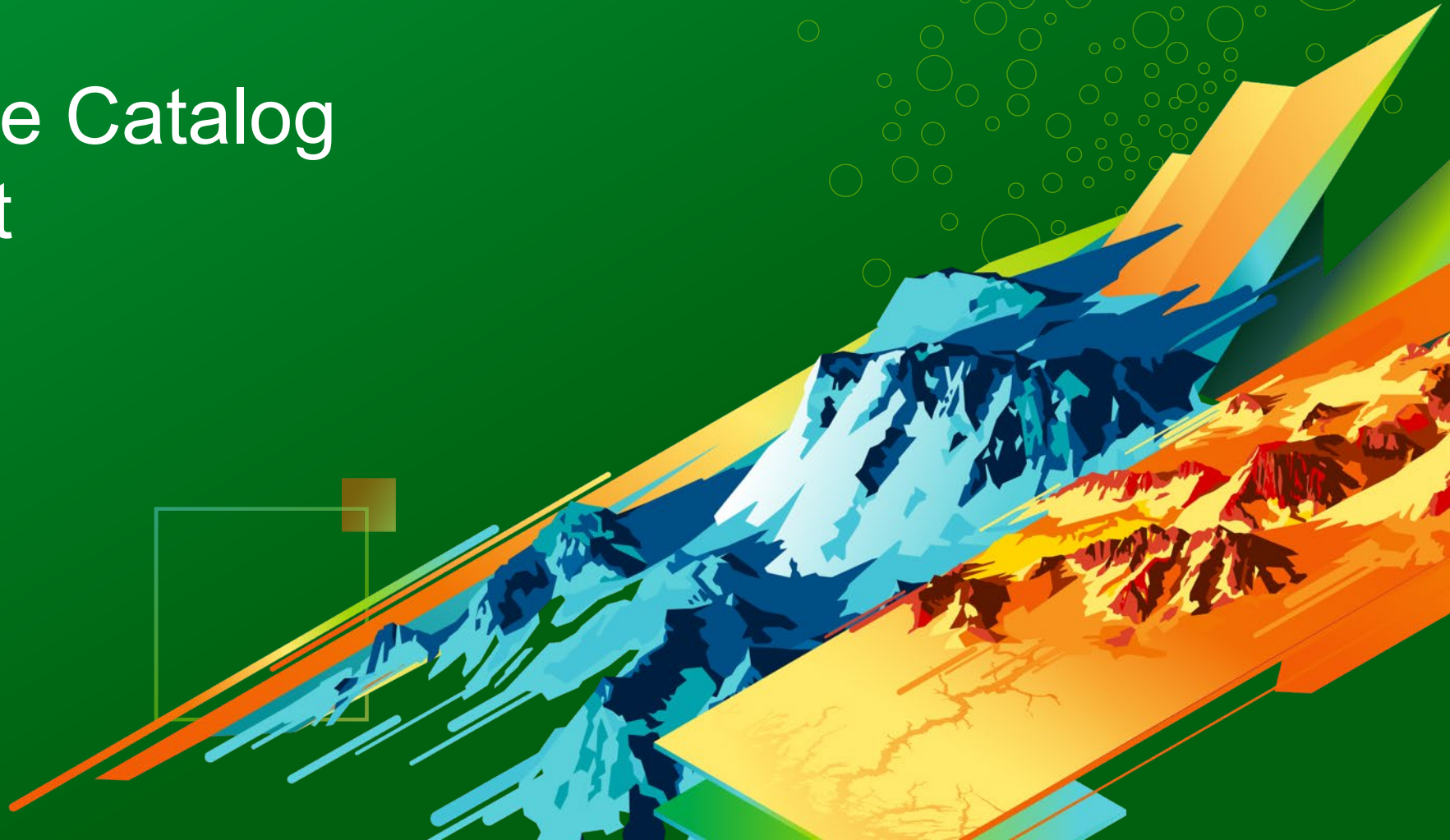
- Tip # 1: Right-click ArcGIS Pro in the Start Menu to open a recent project
  - Right-click a project to remove it from the list
- Tip # 2: Go directly to Backstage by clicking **Settings**
- Tip # 3: Use **Portals** to manage connections to multiple Portals
- Tip # 4: Licensing → **Authorize ArcGIS Pro to work offline**
- Tip # 5: Options → General → **Create projects (set defaults)**
- Tip # 6: Options → General → **Help source**
- Tip # 7: Options → General → **Application Theme**
- Tip # 8: Options → Map and Scene → **Set Default Basemap**
- Tip # 9: Options → Map and Scene → **Add Layer - Visibility**
- Tip # 10: Options → Editing → Session → **Automatically save edits**
- Tip # 11: Options → Geoprocessing → **Analyze script and model tools for compatibility**
- Tip # 12: Options → Geoprocessing → **R-ArcGIS Support**
- Tip # 13: Options → Raster and Imagery → **Perspective Imagery**
- Tip # 14: Options → Proofing → **Enable spell checking**
- Tip # 15: Options → Customize the Ribbon → **Accelerator**





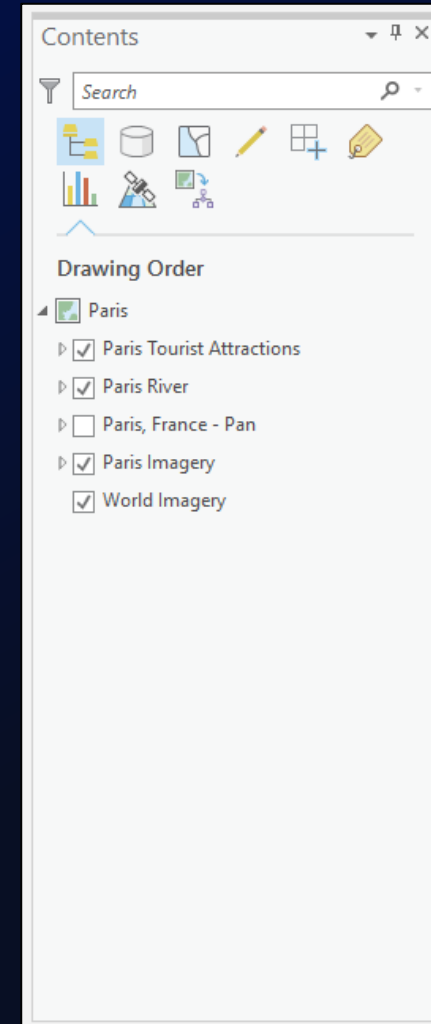
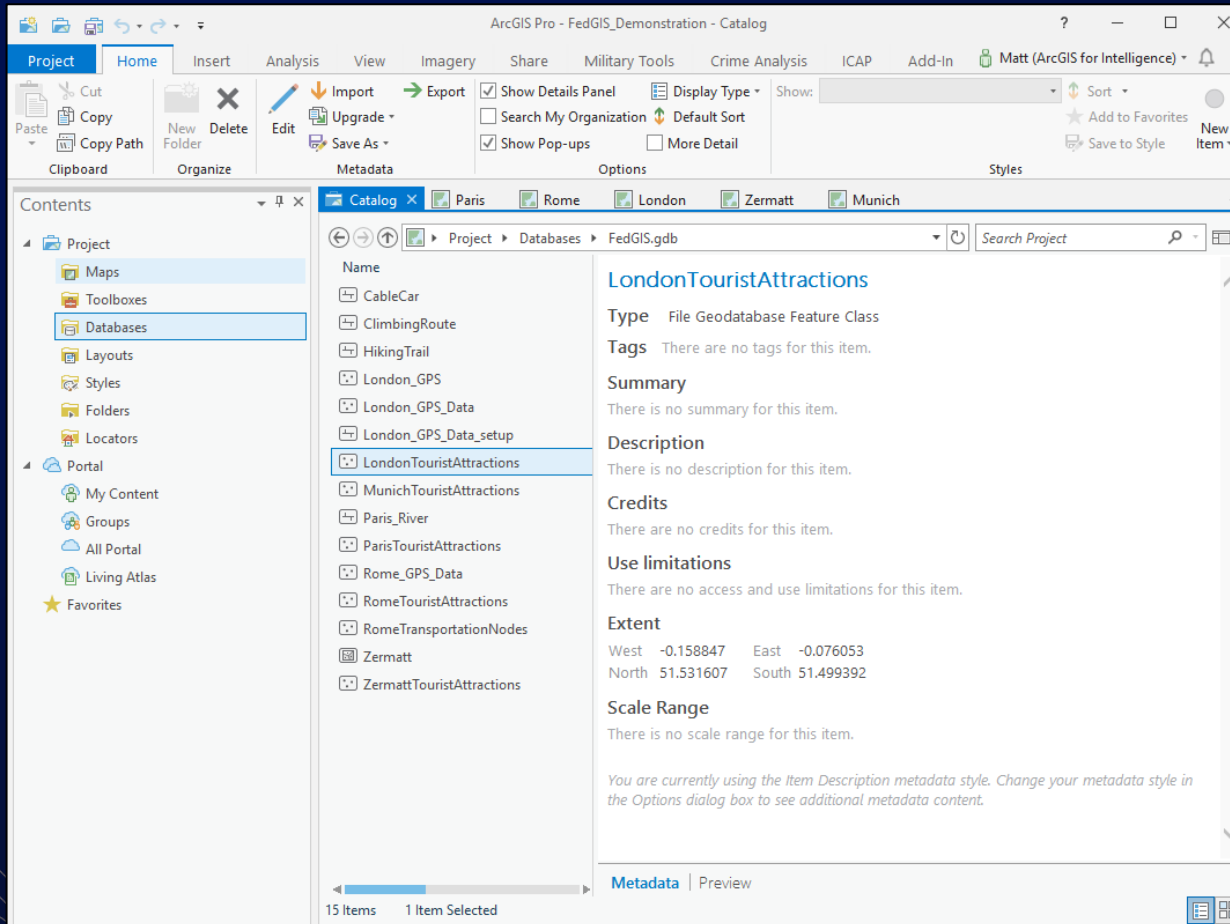
Backstage

# Exploring the Catalog and Content



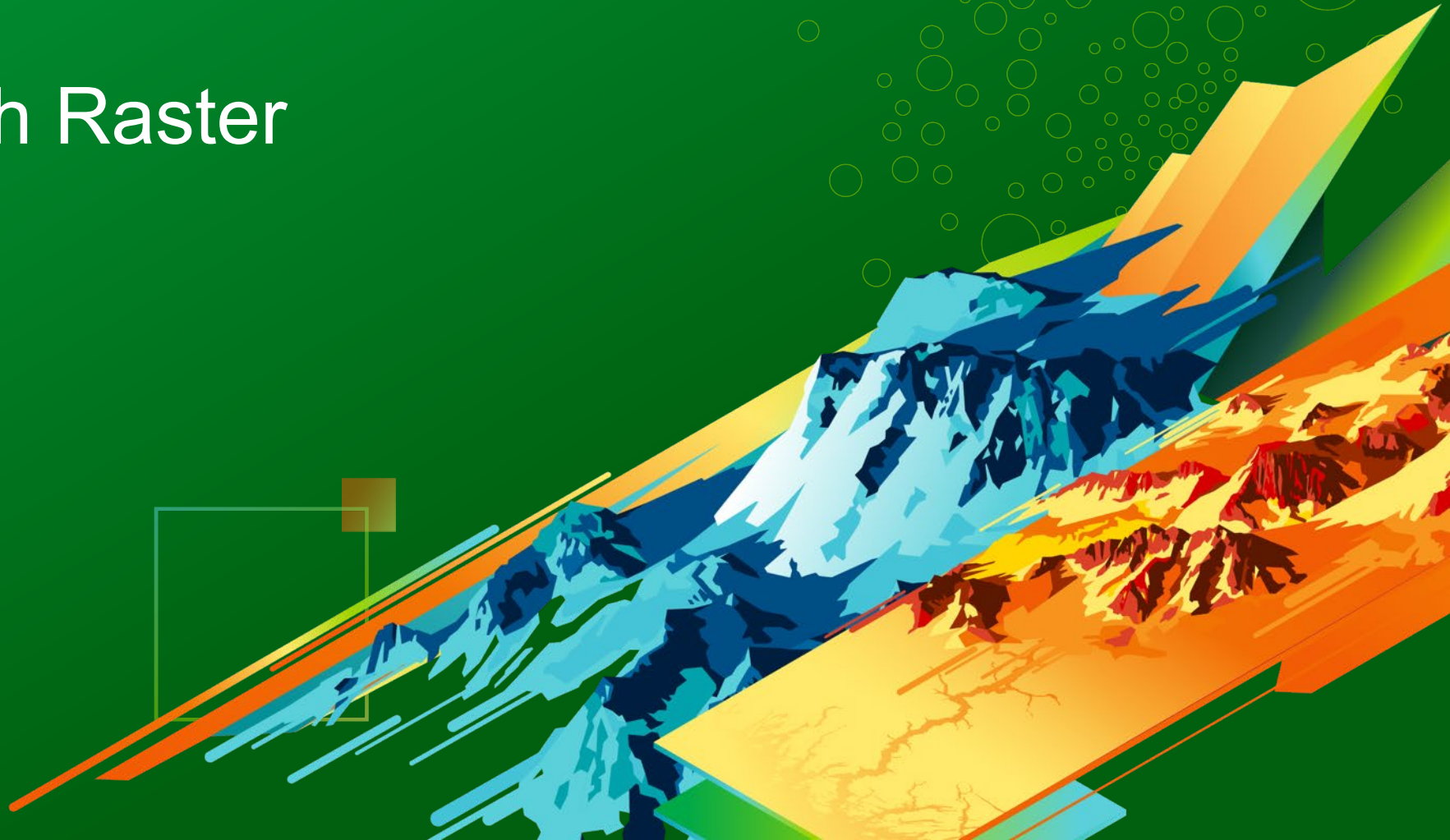
# Key Differences between ArcMap and ArcGIS Pro

- In ArcGIS Pro the Catalog opens directly in the main window



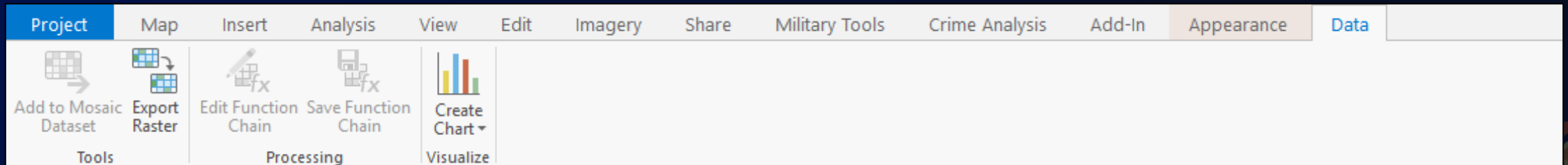
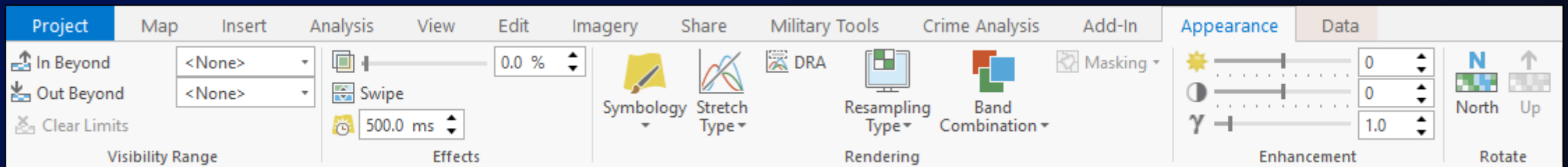
- The Contents window has new tools to sort, filter, and query layers

# Working with Raster Data



# Key Differences between ArcMap and ArcGIS Pro

- When a raster layer is selected the Appearance and Data tabs are automatically displayed

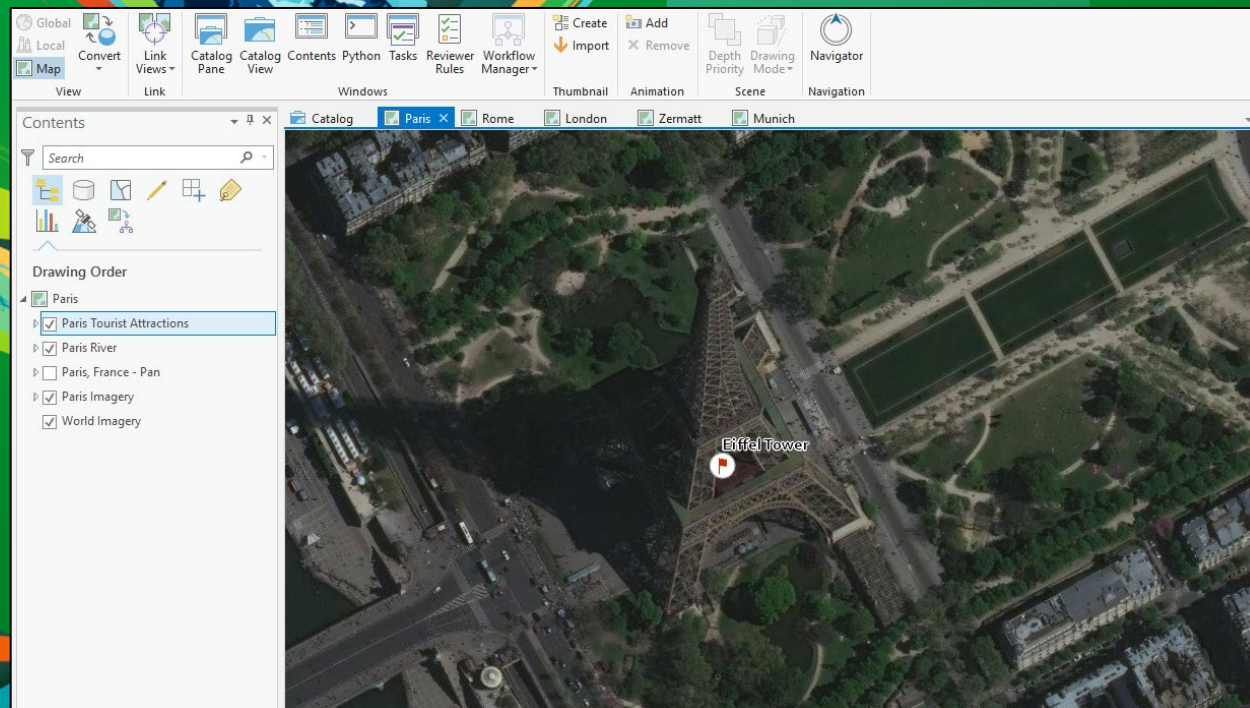


# Catalog and Contents:

- Tip # 16: Preview data in the Catalog using a Basemap
- Tip # 17: Right-click folders and geodatabases to **Add to Favorites**
- Tip # 18: Filter the Contents by layer type by using 
- Tip # 19: Use the **Search Box** to filter the Contents by keyword
- Tip # 20: List Content by **Perspective Imagery** to set the Focus Image Layer
- Tip # 21: List Content by **Labeling** to edit the labels of multiple layers at one time
- Tip # 22: Use the **Undo Drop Down** to go back multiple steps
- Tip # 23: **Alt-click** a layer – Zoom to layer
- Tip # 24: **Left/Right** arrows – Expand and contract layer
- Tip # 25: **Spacebar** – Turn on/off selected layers

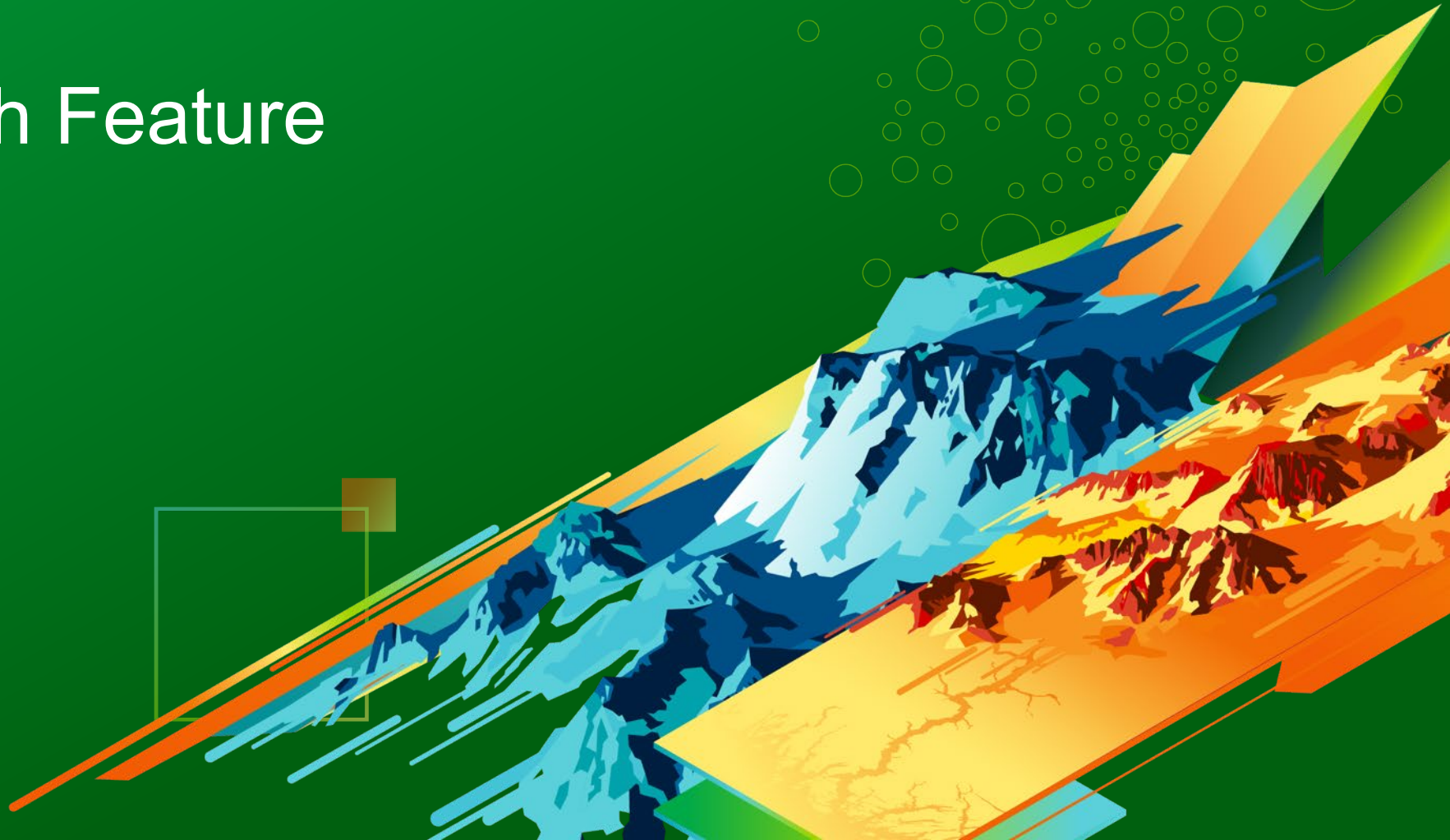
## Raster Layers:

- **Tip # 26:** Use the **Top Up** and **North Up** buttons to rotate based on Imagery Metadata
- **Tip # 27:** Use **a** and **d** to rotate the map frame. Use **n** to rotate the frame to North



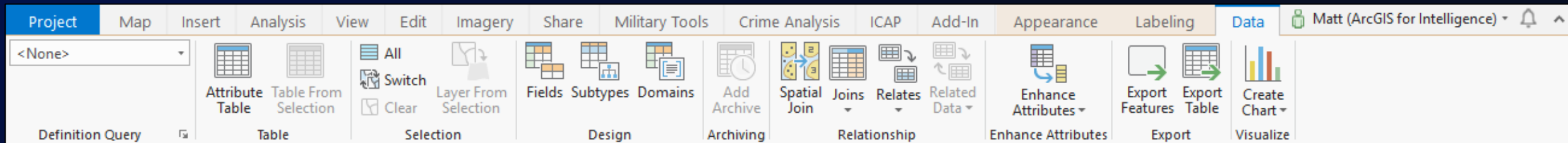
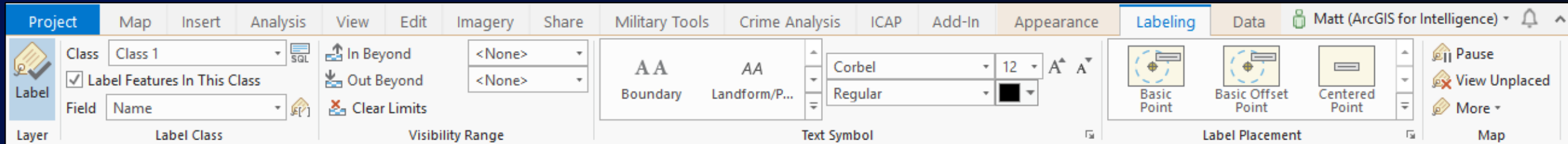
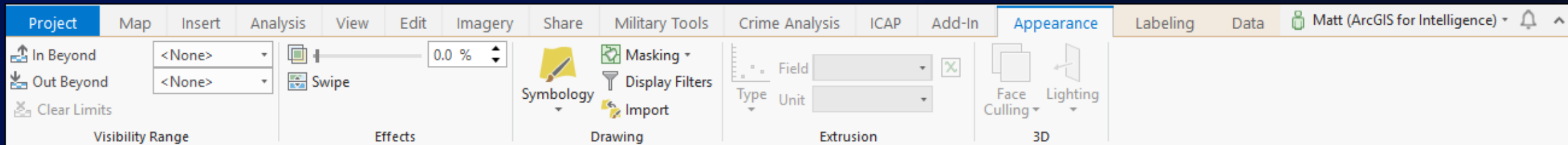
# Catalog, Contents, and Raster Layers

# Working with Feature Layers



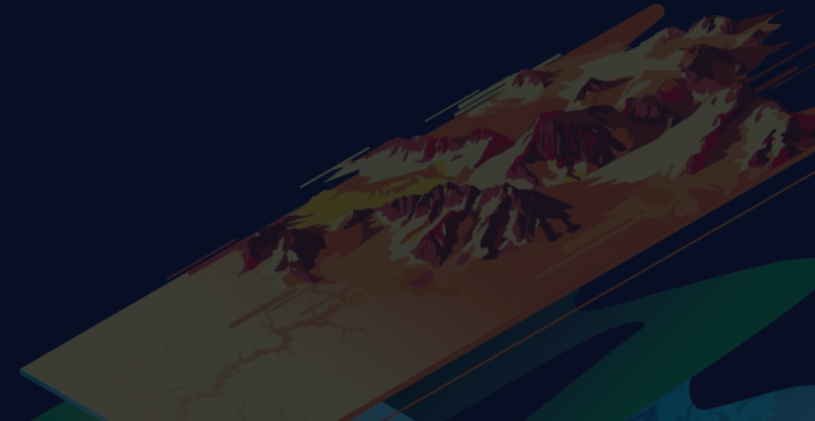
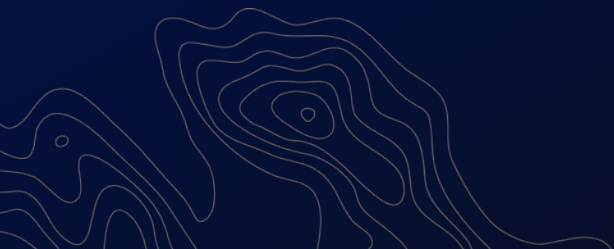
# Key Differences between ArcMap and ArcGIS Pro

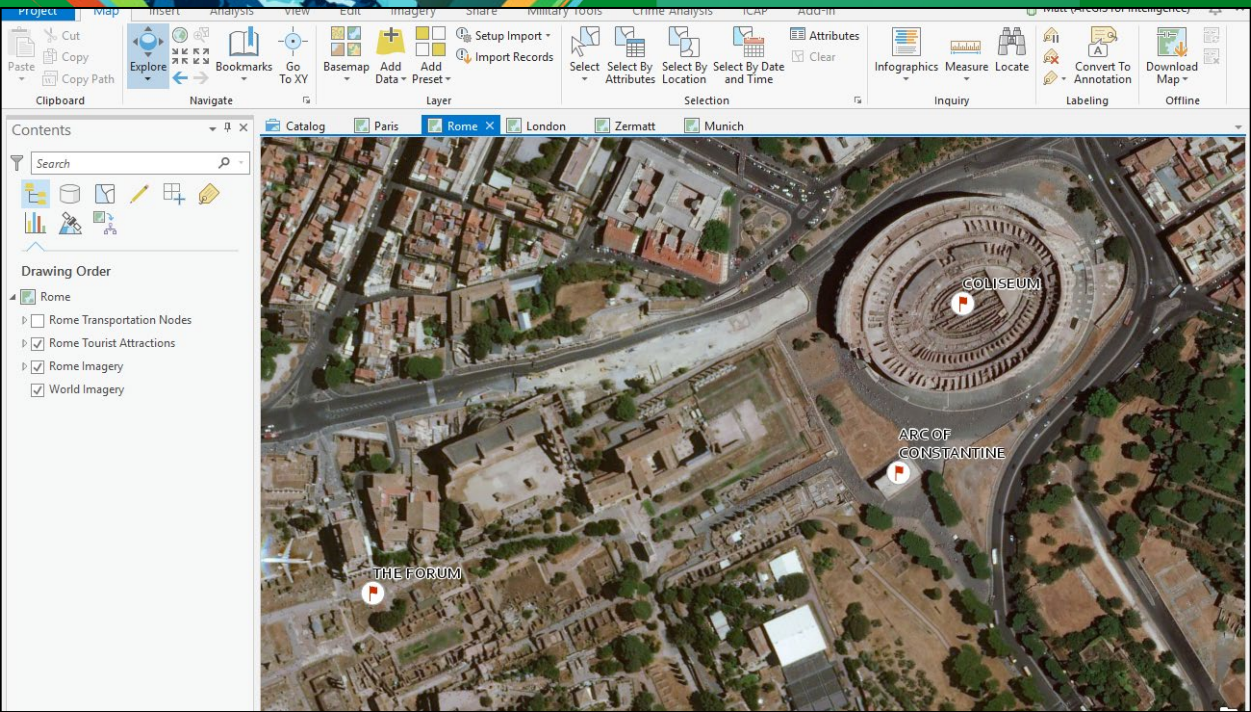
- When a feature layer is selected the Appearance, Labeling, and Data tabs are automatically displayed



# Feature Layers:

- Tip # 28: Use **Arcade** expressions to customize labels
- Tip # 29: When working with Text Symbols press the **arrow in the bottom-right** corner for more options
- Tip # 30: Use Appearance → Symbolology → **Display Filters** to change symbols based on scale
- Tip # 31: Use **charts** to visualize data and interact with the map
- Tip # 32: The **Selected Features** box below the map is a button that zooms to the selected features





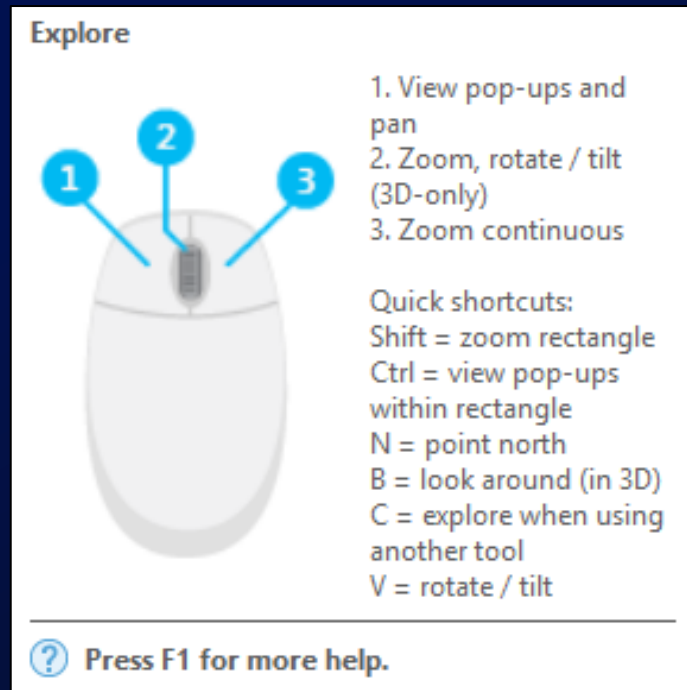
# Feature Layers

# Interacting with the Map

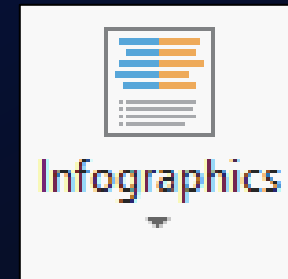
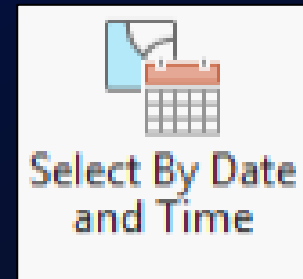


# Key Differences between ArcMap and ArcGIS Pro

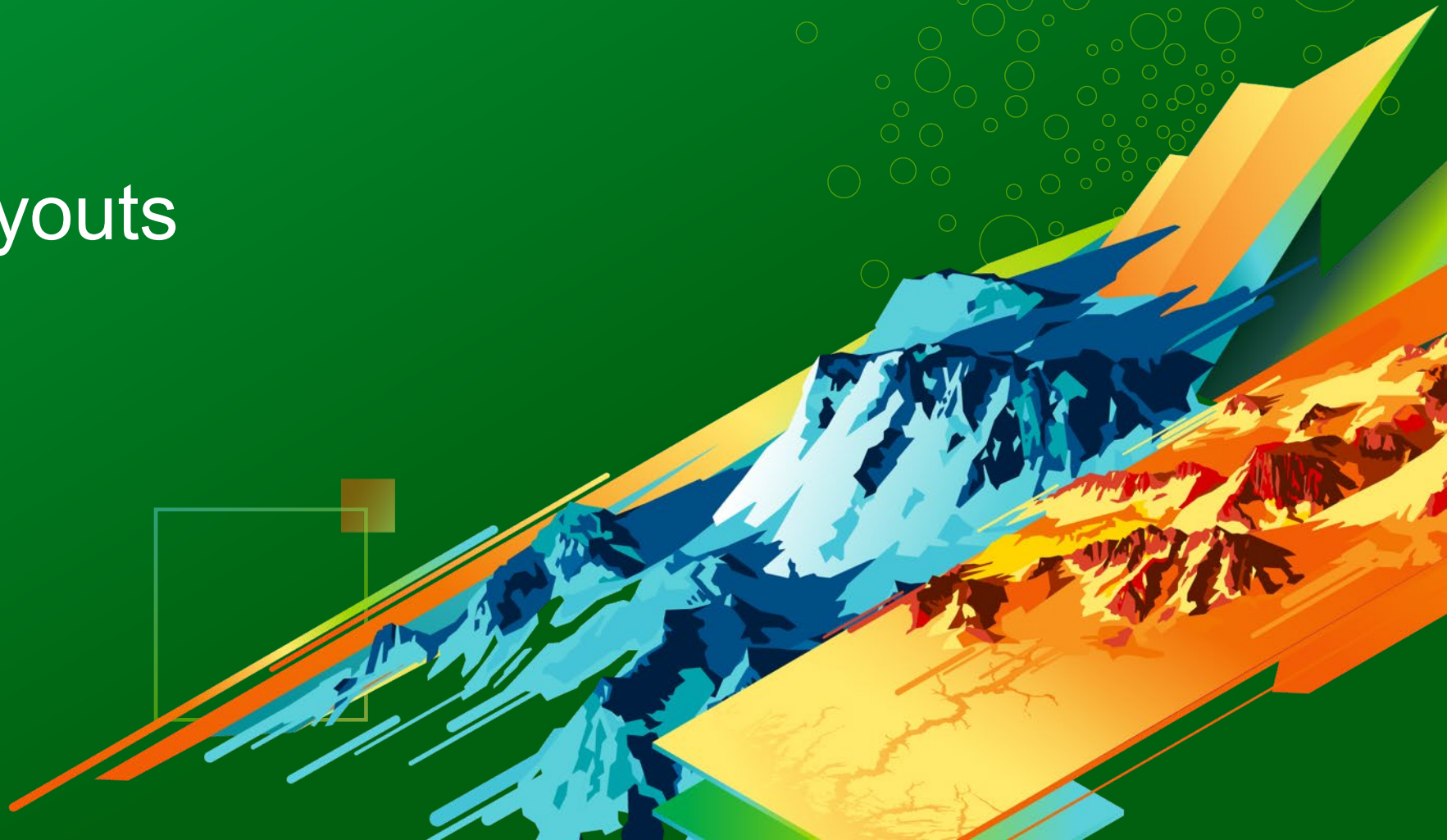
- Introduction of the Explore Tool



- Introduction of the Map Ribbon



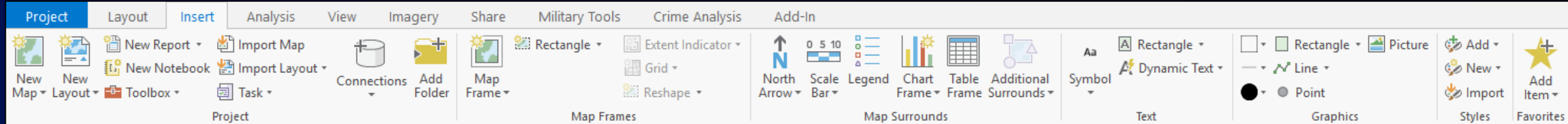
# Creating Layouts



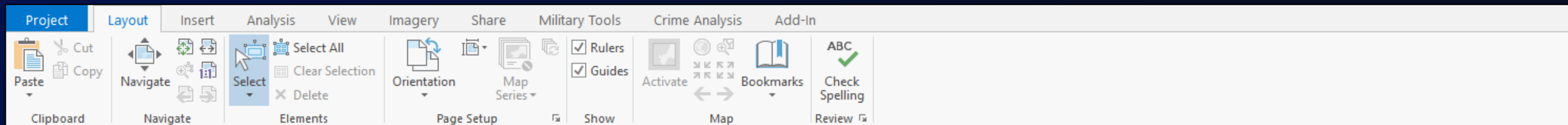
# Key Differences between ArcMap and ArcGIS Pro

- To Create a Layout: Insert → New Layout

- The Content in the Insert Tab changes



- A Layout Tab is added to the Ribbon

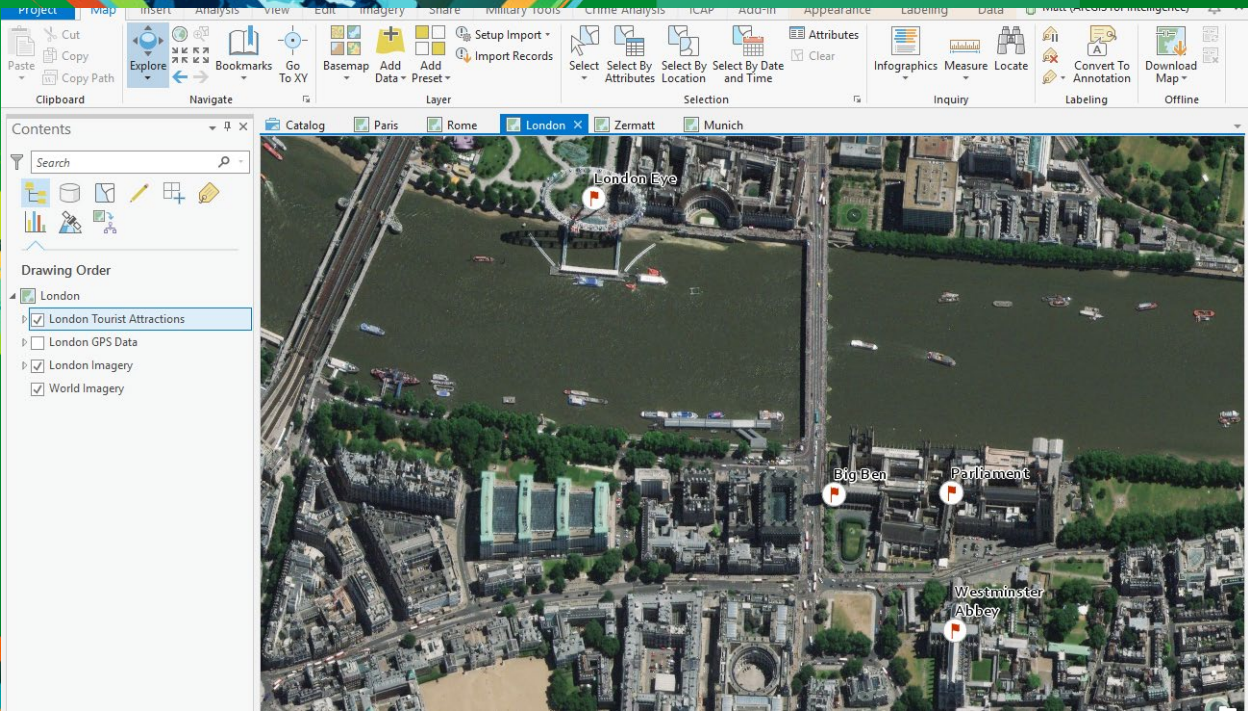


# Map Tab:

- Tip # 33: Use the **Explore** Drop-down menu to only interact with specific layers
- Tip # 34: Click anywhere on a point symbol to interact with the feature
- Tip # 35: Use **Select By Date and Time** to narrow down a selection using a Date field
- Tip # 36: Add a layer to the **Locate** tool as a Location Provider to query for locations within local datasets
- Tip # 37: Analyze Esri's curated content using custom **Infographics**
- Tip # 38: Use the **Range Slider** to dynamically query features with a numeric attribute
- Tip # 39: **Ctrl-click** (Center), **Shift-click** (Center and Zoom), **Shift-draw box** (Zoom), **Insert** (Zoom to Full Extent)

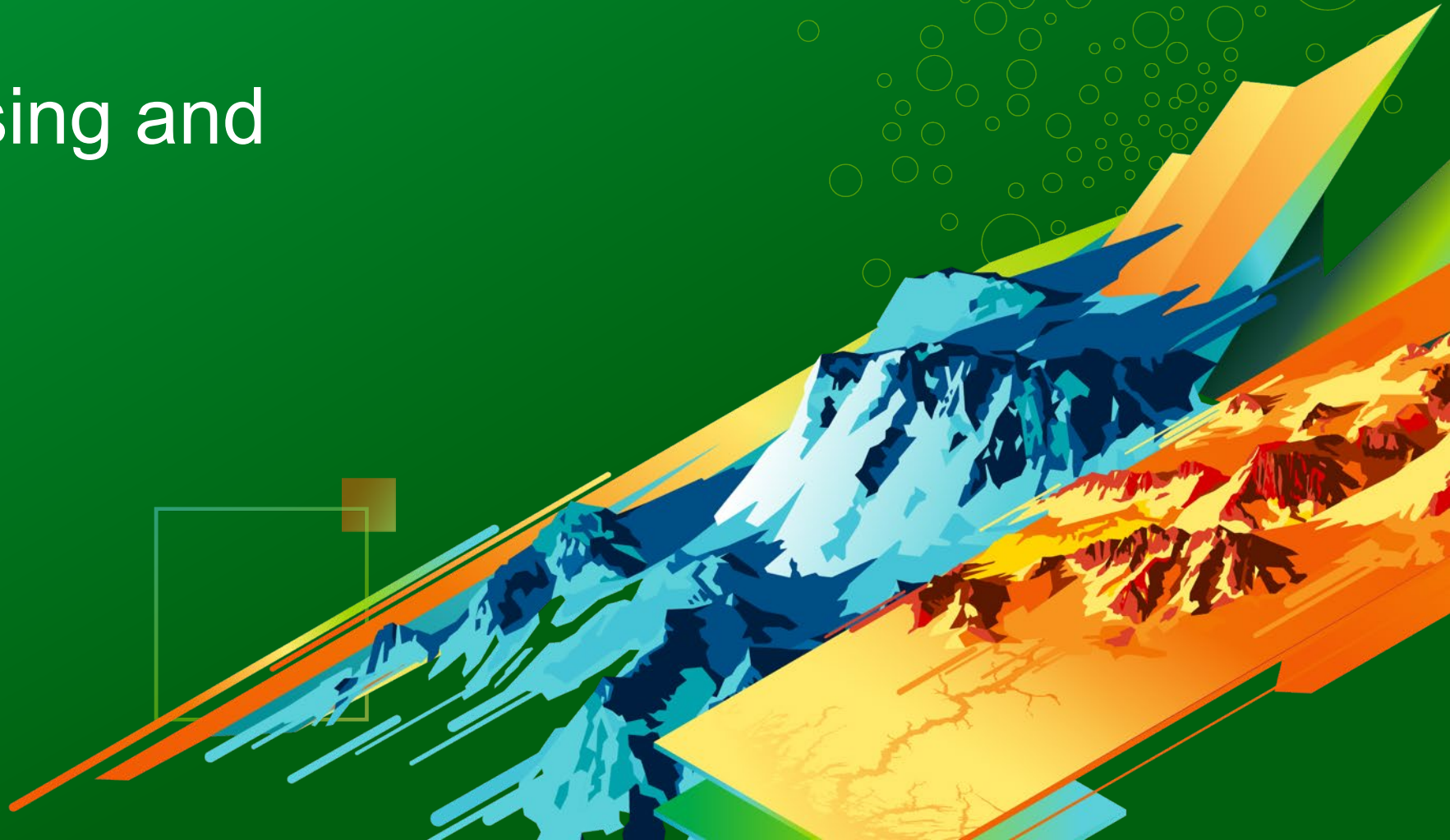
# Insert Tab:

- Tip # 40: Use **Import Map** to load a .mxd, .sxd, or .mmpk into your project
- Tip # 41: Use **New Report** to generate a Report, and **New Notebook** to create a new Python Notebook
- Tip # 42: Use **Import Styles** to load symbology from an existing ArcMap style file
- Tip # 43: Use **New Layout** additional times to create multiple layouts for the same map
- Tip # 44: Use **Show only Visible** and **Show Count** to dynamically enhance your Legend
- Tip # 45: Use **Lock Elements** to prevent layout items from accidentally being moved



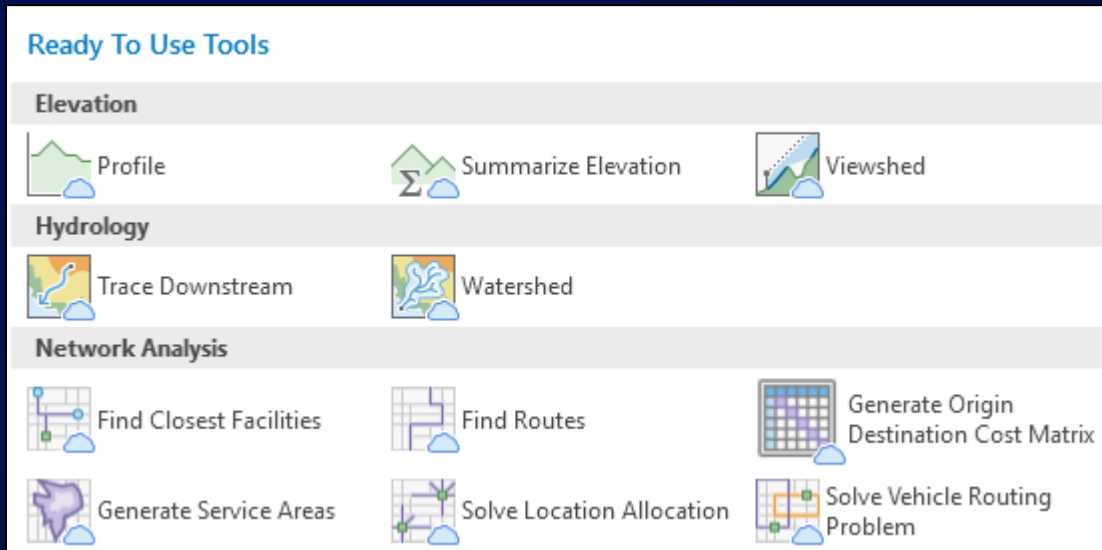
# Interacting with Map and Creating Layouts

# Geoprocessing and Analysis

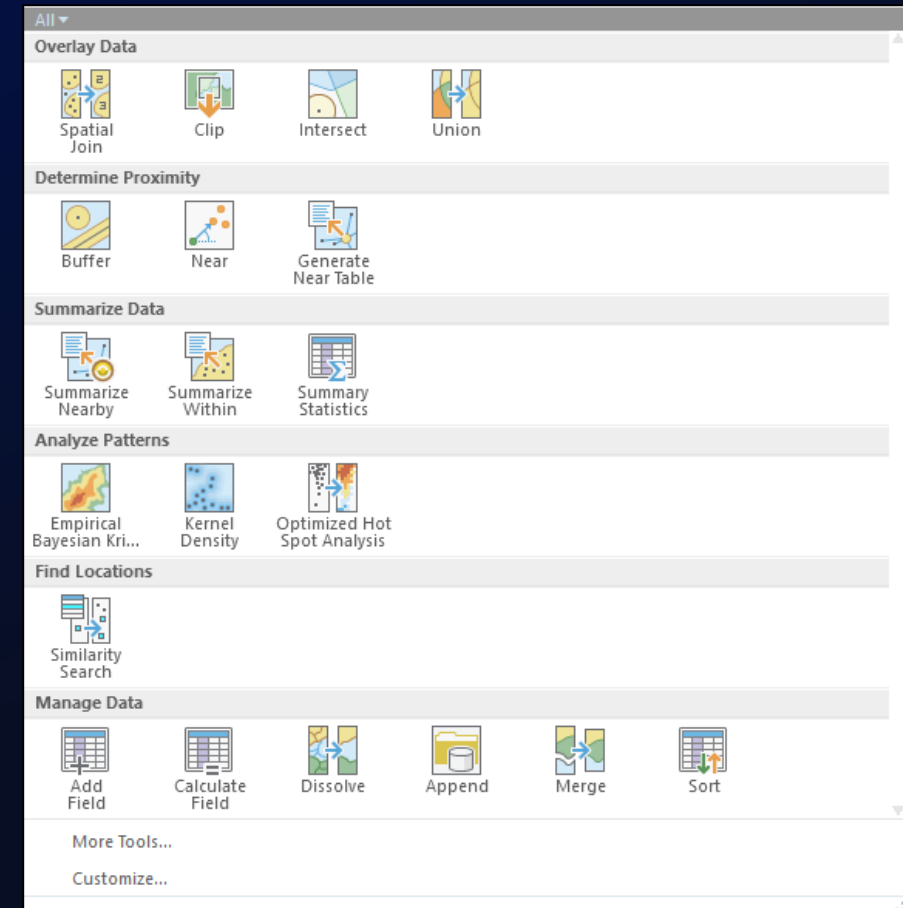


# Key Differences between ArcMap and ArcGIS Pro

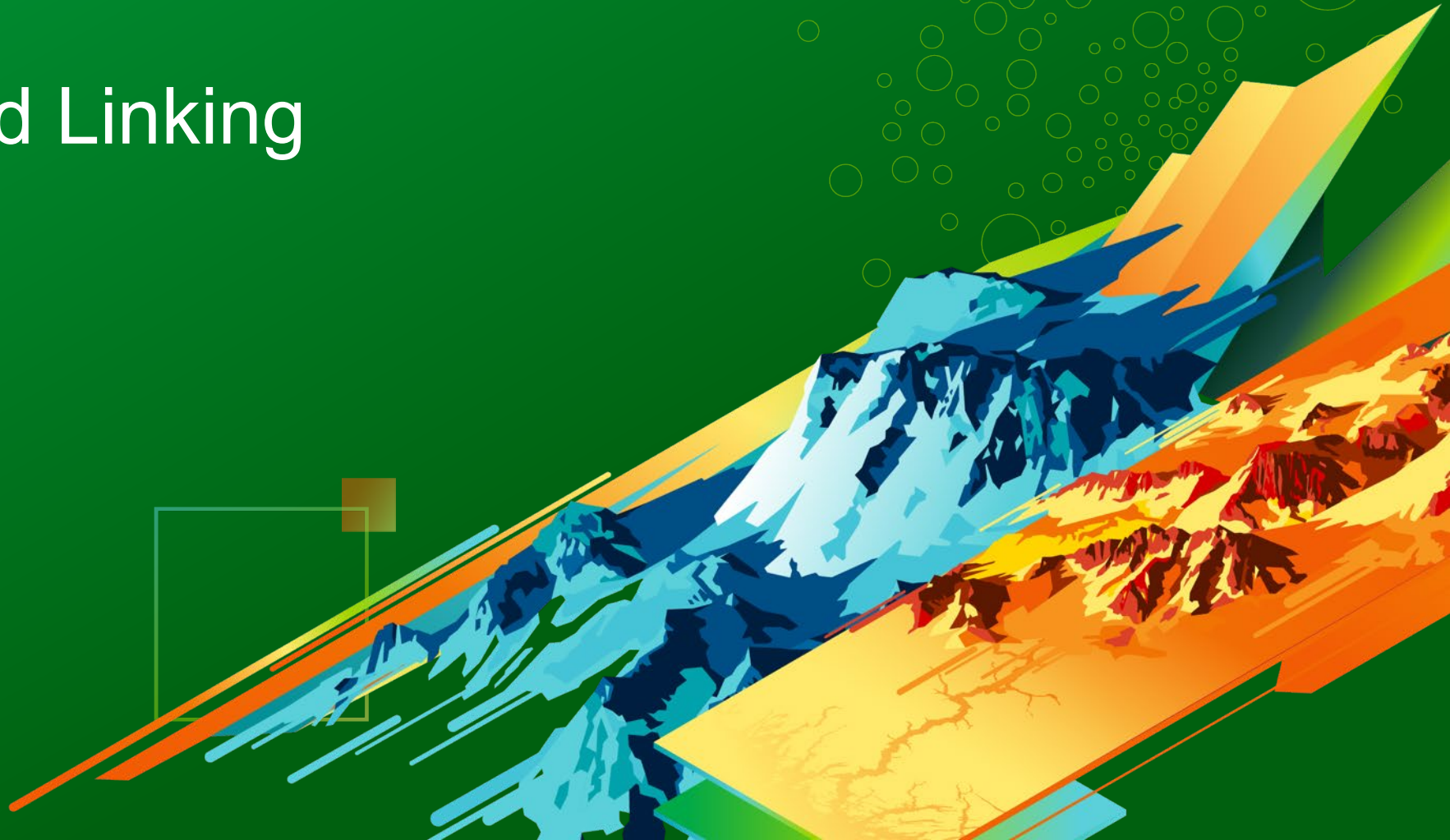
- Ready To Use Tools



- The Analysis Gallery



# Creating and Linking Views

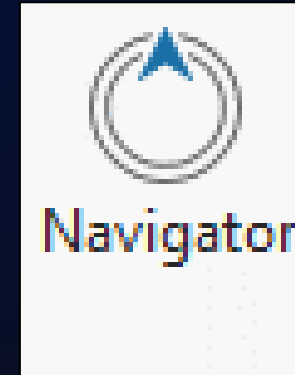


# Key Differences between ArcMap and ArcGIS Pro

- Convert between 2D and 3D

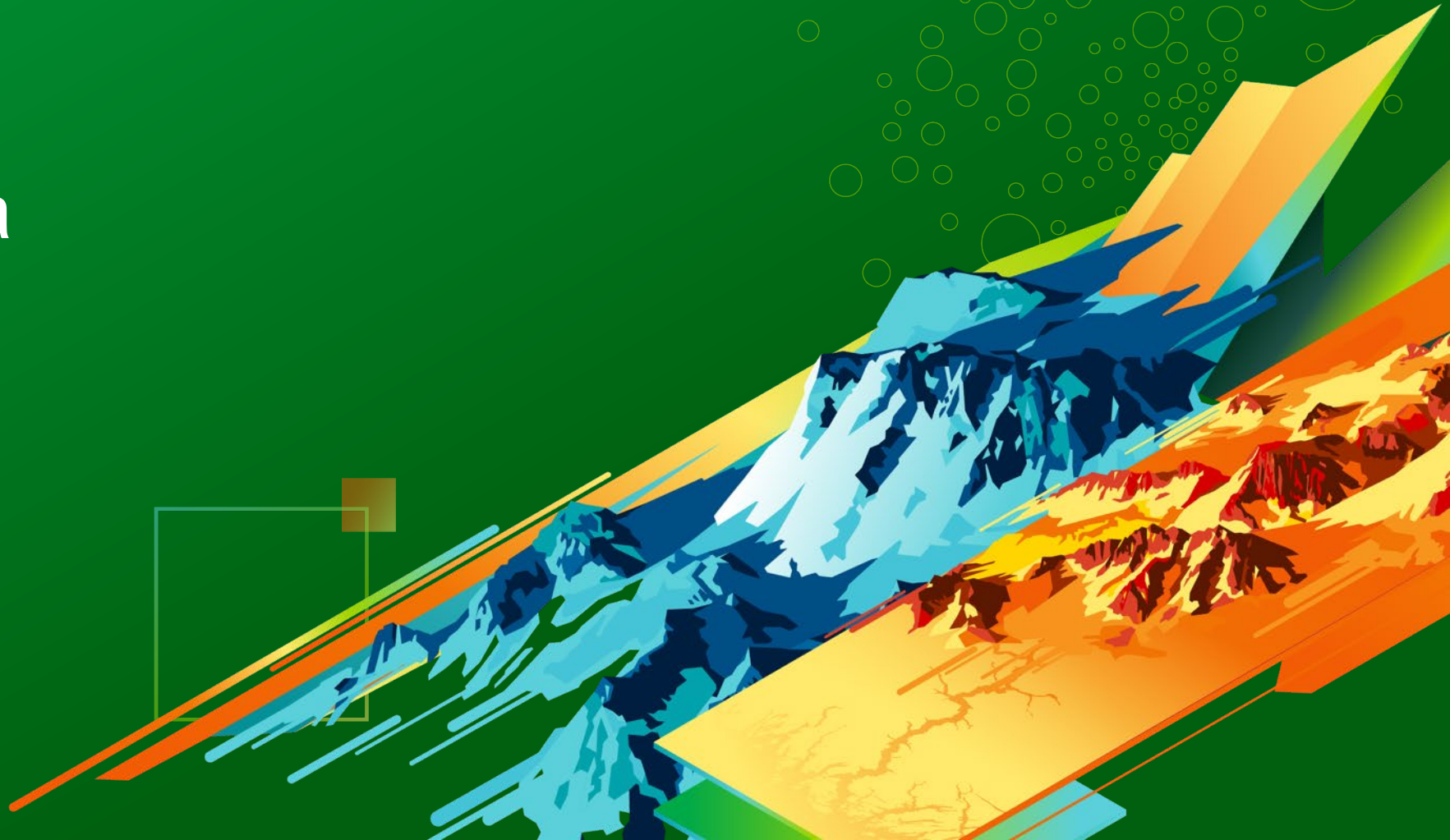


- On-screen Camera Navigation



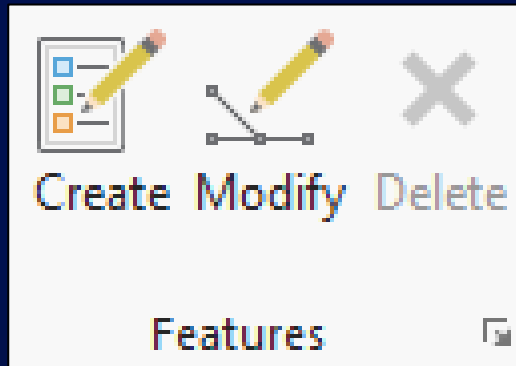
- Link Views for Simultaneous Navigation

# Editing Data

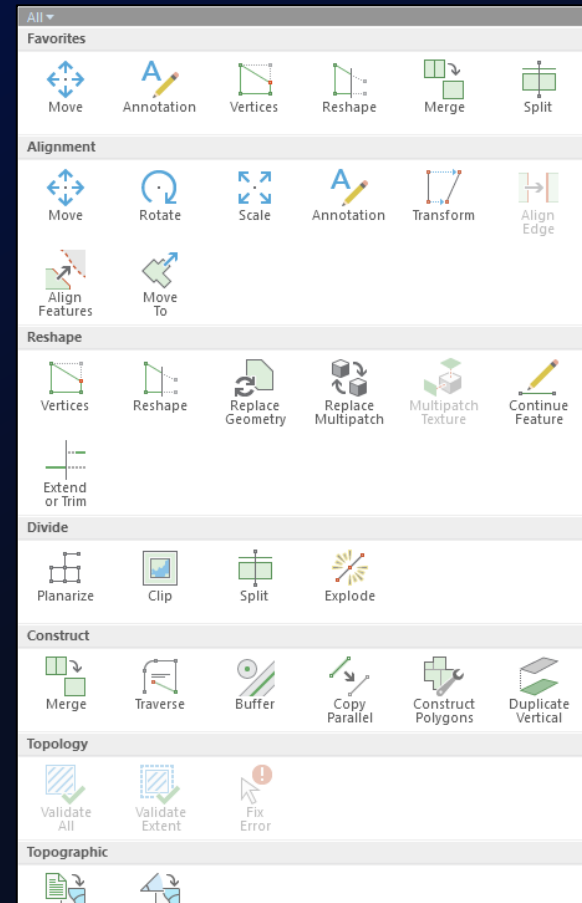


# Key Differences between ArcMap and ArcGIS Pro

- Automatic Editing



- The Editor Tool Gallery combines the tools from the ArcMap Edit, Advanced Editing, and Topology Toolbars



- Editing Grid



# Analysis Tab:

- Tip # 46: Use **Ready to Use Tools** to access Esri hosted data and analysis capabilities
- Tip # 47: When running a geoprocessing tool use an **Interactive Input** to draw new input features
- Tip # 48: Right-click a tool in the toolbox to run it in **Batch** mode
- Tip # 49: Right-click a tool in the toolbox to add it to the **Geoprocessing Gallery** or **Favorites**
- Tip # 50: Right-click a tool in the Ribbon to add it to the **Quick Access Toolbar**
- Tip # 51: Access the **Exploratory Analysis** Tools when viewing a 3D scene

# View Tab:

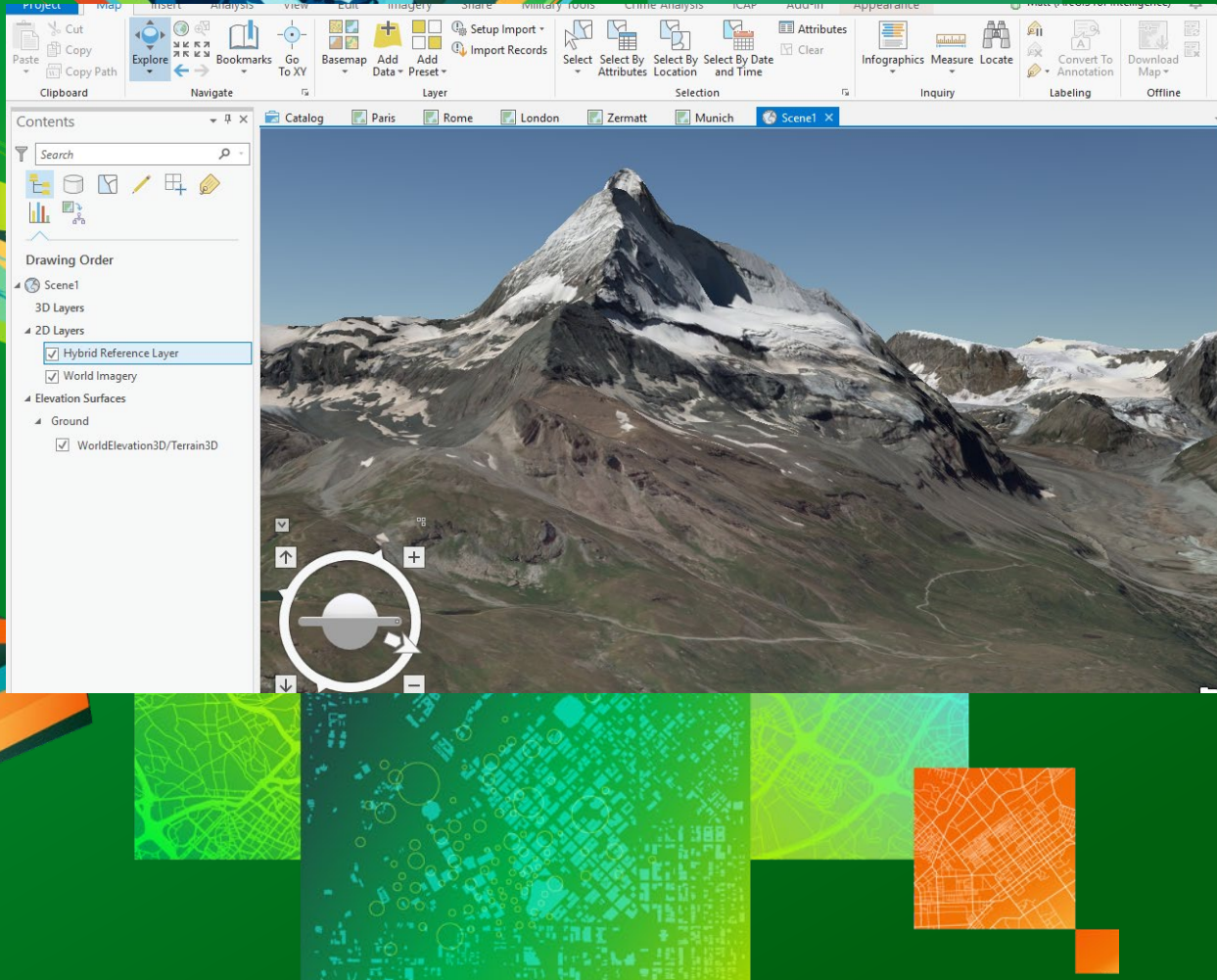
- Tip # 52: Use **Convert** to switch your view between 2D, 3D, and Basemap options
- Tip # 53: Reset your ArcGIS Pro layout with **Reset Panes**
- Tip # 54: To link the navigation of multiple maps or scenes use **Link Views**
- Tip # 55: Turn on the **Navigator Control** to enable on-screen navigation

# Edit Tab:

- Tip # 56: Use Attributes → **Geometry** to get a feature's raw coordinates
- Tip # 57: Add an **Editing Grid** to assist in aligning features
- Tip # 58: Click the arrow in the bottom-right corner of the Features toolset to **Manage Templates**



# Geoprocessing and Analysis, Creating and Linking Views, and Editing Data

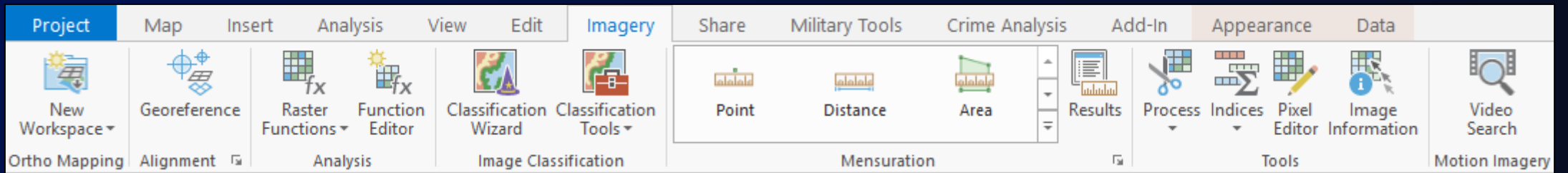


# Working with Imagery

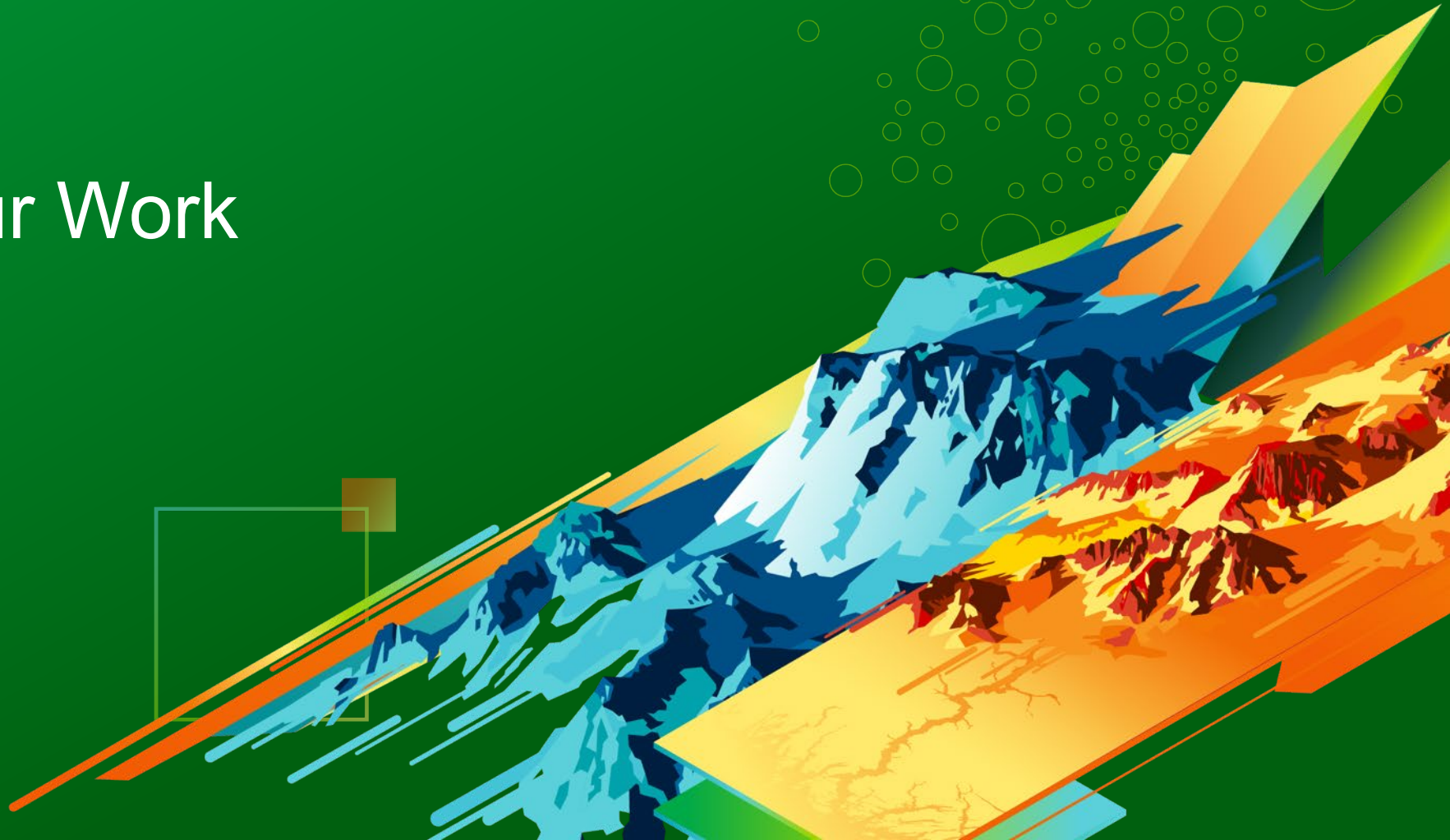


# Key Differences between ArcMap and ArcGIS Pro

- Introduction of the Imagery Tab

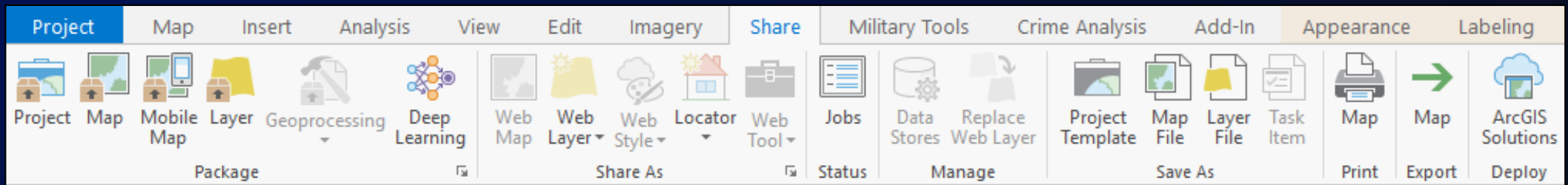


# Sharing Your Work



# Key Differences between ArcMap and ArcGIS Pro

- Better Integration and more options when working with ArcGIS Online / Portal



## Imagery Tab:

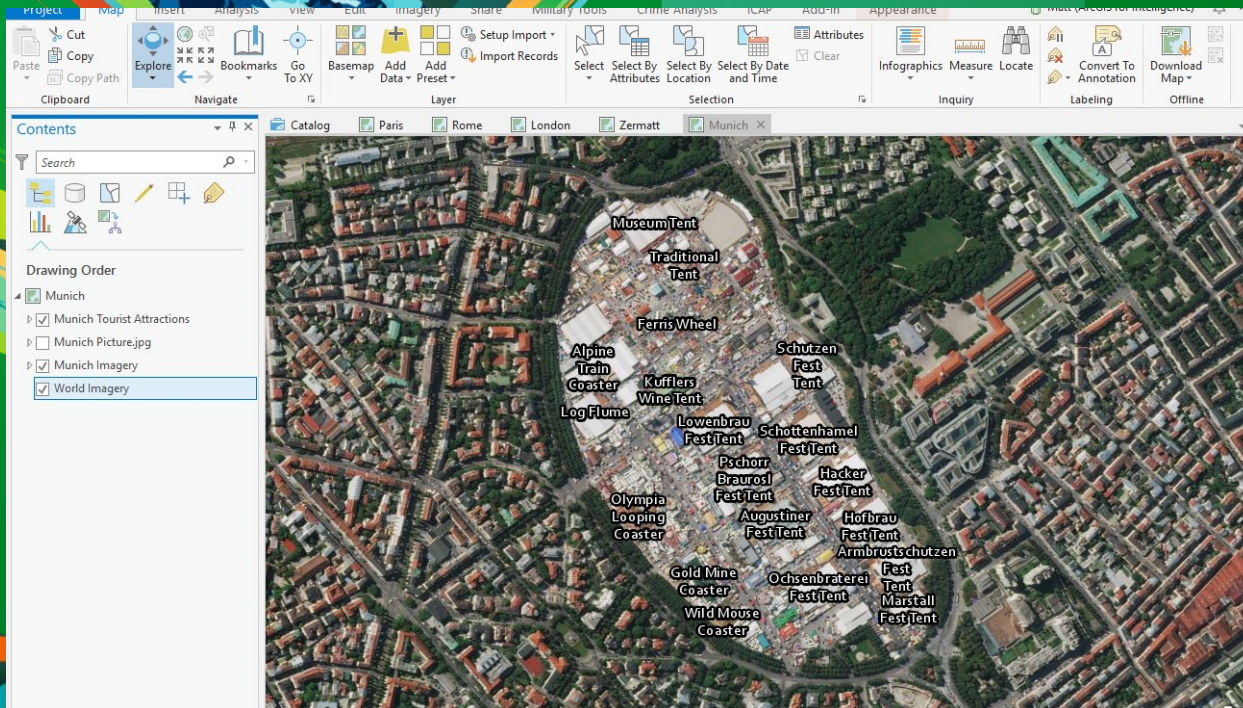
- Tip # 59: Use **Auto-georeference** to align a non-geolocated image
- Tip # 60: Use **Pixel Editor** to make changes to a raster's display
- Tip # 61: Use the **Motion Imagery** Tools to analyze Full Motion Videos (FMV) or Drone footage

## Share Tab:

- Tip # 62: Share maps as a **Mobile Map Package** to use it in a Mobile Application
- Tip # 63: When sharing a **Web Map** set the appropriate configuration (Exploratory, Editable, Visualization)
- Tip # 64: Create and share **Project Templates** to use when creating common product types



# Working with Imagery and Sharing Your Work



# One Last Tip...

- Tip # 65: Esri provides numerous online help resources:
  - <https://learn.arcgis.com/en/>
  - <https://community.esri.com/>
  - <https://www.esri.com/arcgis-blog/arcgis-pro/>
  - <https://pro.arcgis.com/en/pro-app/community/>
  - <http://pro.arcgis.com/en/pro-app/get-started/faq.htm>
  - <https://www.esri.com/training/>
  - <https://go.esri.com/ProRoadMap>
  - <https://developers.arcgis.com/>
  - <http://esri.github.io/>
  - <http://pro.arcgis.com/en/pro-app/help/main/welcome-to-the-arcgis-pro-app-help.htm>
  - <http://pro.arcgis.com/en/pro-app/tool-reference/main/arcgis-pro-tool-reference.htm>



Please Share Your Feedback in the App





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