



On-the-fly image processing in ArcGIS Pro

Simon Woo

Overview

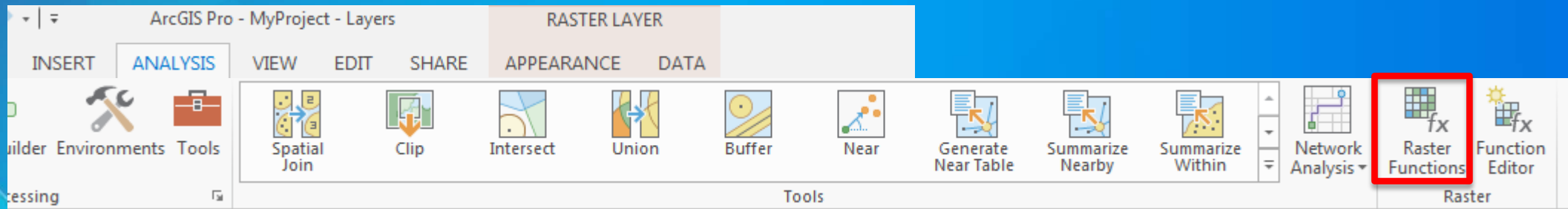
- **What are Raster Functions?**
- **Categories and Tabs**
- **Importing a raster function**
- **Repeating a process with one function chain**

What are Raster Functions?

- **Used to perform data analysis on-the-fly**
 - Immediate results
 - No intermediary data is created
- **No new data is created**
 - All results are performed on the fly
- **Located on the Raster Function Pane**

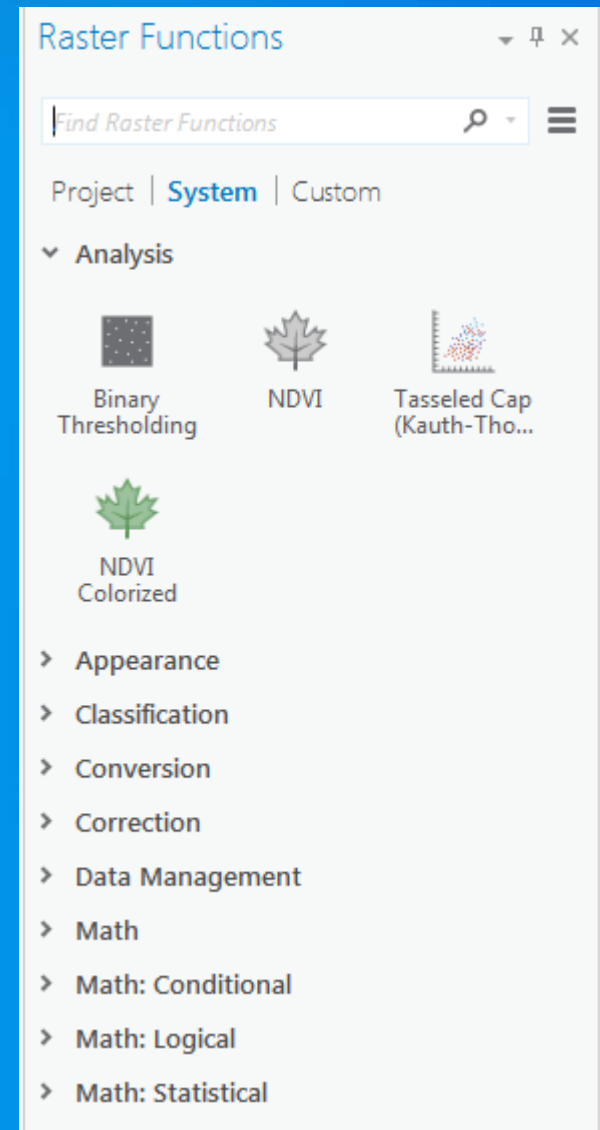
How do I access the Raster Functions Pane

- Analysis tab > Raster Functions icon



How do I use the Raster Functions Pane

- 1) Highlight the raster layer in the Contents pane
- 2) Browse or search for the function you want to use
- 3) Click on the raster function you want to use
- 4) Edit all your parameters
- 5) Click “Create New Layer”



Demo

Using the Raster Functions pane



Category

- **You can create and organize all the processes you want:**
 - **Create a new category**
 - **Copy functions to your category**
 - **Import functions to your category**
 - **Create a new function and save it in your category**

Import a process

- If you have an RFT (raster function template) file with a set of functions, you can import it into ArcGIS Pro
 - Created in ArcMap
 - Created in ArcGIS Pro
- Allows you to import existing workflows, or to share new workflows

Save Function Chain

- After you create a sequence or chain of processes, you can save out the “chain” into a custom category.
 - You can now perform the same workflow on a new layer with a single function
 - Or you can share out this workflow to a co-worker
 - Export
 - Or Share to Portal

Demo

Customizing your Raster Functions
pane



Thank you...

- Please fill out the session survey in your mobile app
- Select session On-the-fly Image processing in ArcGIS Pro (#408) in the Mobile App
 - Use the Search Feature to quickly find this title
- Click “Demo Theater Survey”

The screenshot shows the 'Agenda' app interface. At the top, there is a purple header with a menu icon and the word 'Agenda'. Below the header, there are two tabs: 'My Sched' with a star icon and 'My Cal' with a calendar icon. The main content area displays a session titled 'On-the-fly Image processing in ArcGIS Pro' in bold, with the date and time 'Thu Jul 23 9:30AM – 10:15AM' below it. The location is listed as 'Theater 12-Exhibit Hall C' and 'Demo Theater Presentation'. A survey link, 'Demo Theater Survey', is highlighted with an orange border. Below the survey link, the name 'Simon Woo' is displayed. The bottom section of the screenshot contains a paragraph of text describing the on-the-fly image processing feature in ArcGIS Pro.

Agenda

My Sched My Cal

On-the-fly Image processing in ArcGIS Pro
Thu Jul 23 9:30AM – 10:15AM
Theater 12-Exhibit Hall C
Demo Theater Presentation

Demo Theater Survey

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Functions are applied to imagery and raster data on-the-fly as it is accessed and viewed. They can be used directly when working with imagery in ArcGIS Pro. The on-the-fly processing enables imagery to be used quickly without enduring the time to create a preprocessed product on disk. Learn how to apply functions and chain them together to create complex processes which can be saved and used to process data in ArcGIS Pro