

The background features a stylized, low-poly illustration of a cityscape. The Golden Gate Bridge is a prominent feature in the center, with its towers and suspension cables rendered in a simplified, geometric style. The bridge is reflected in the water below. To the left, there are several starburst or light flare shapes in various colors (blue, green, red). The overall color palette is muted, with a dark, almost black background, accented by the colors of the bridge and the starbursts.

MODELBUILDER IN ARCGIS PRO

Shane Pavlak



AGENDA

What is ModelBuilder?

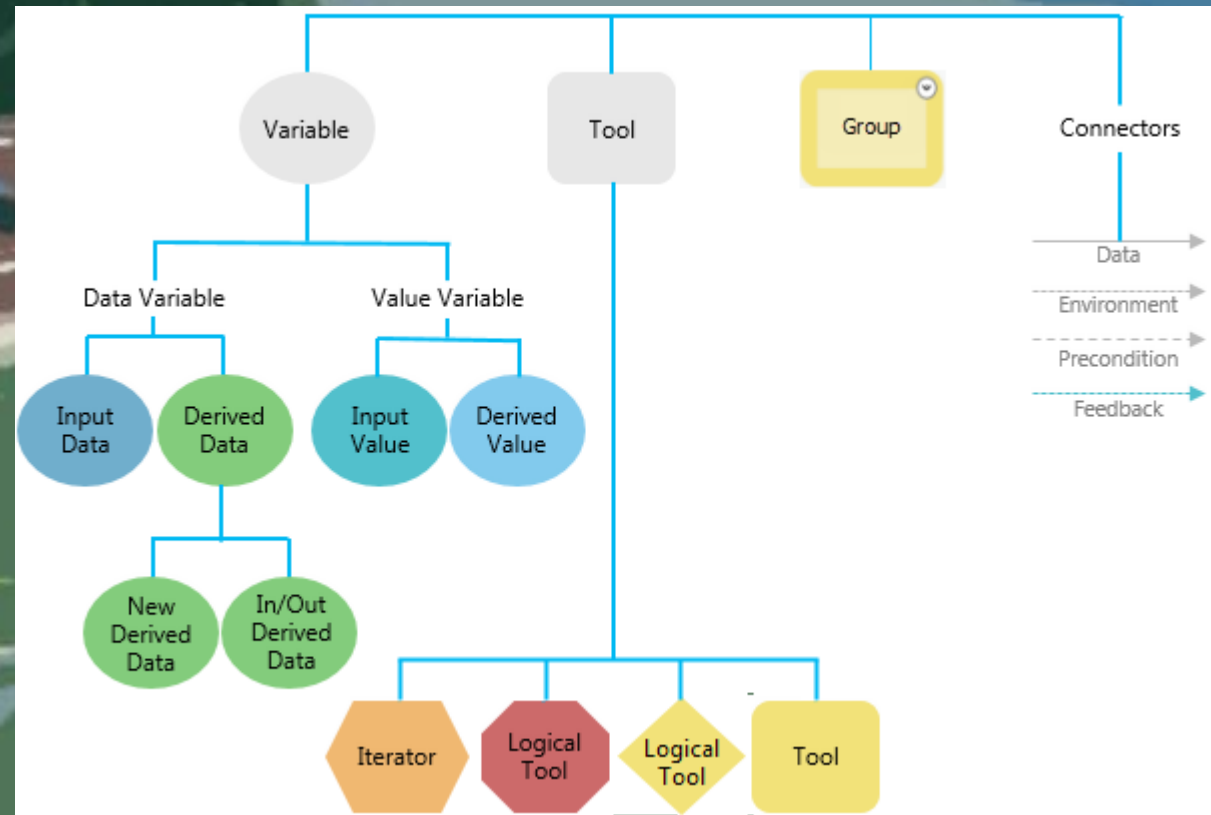
Why use ModelBuilder?

Examples:

- Interactive user input for GIS Data Orders
- Importing from XLS file to update COVID19 Dashboard
- Update ArcGIS Online features and email summary report of missing features

MODEL BUILDER

ModelBuilder is a sort of programming language that allows users to illustrate GIS workflows.

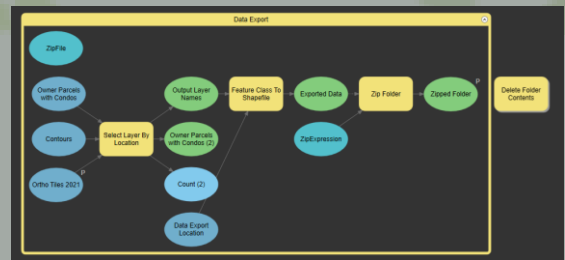
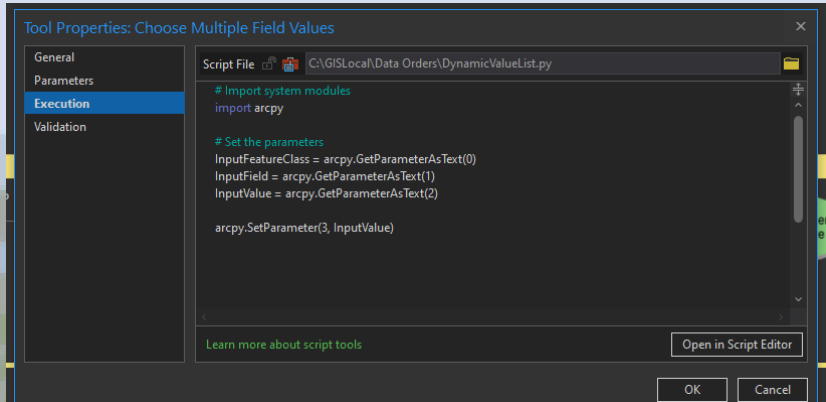


WHY USE MODEL BUILDER

- Visualization
- Iteration
- Automation

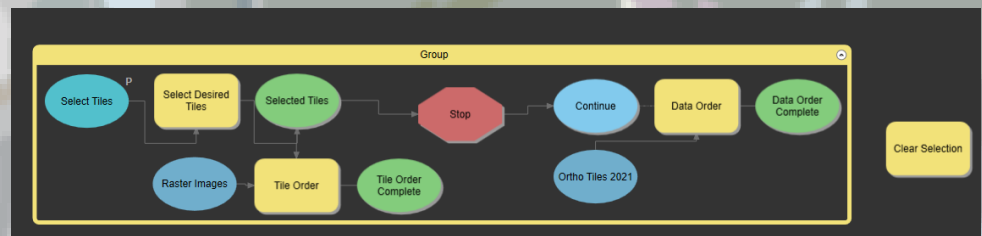
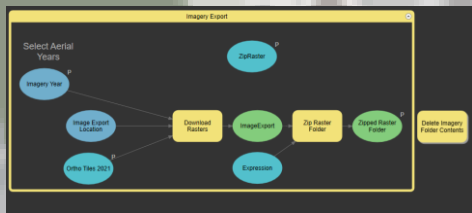


EXAMPLES



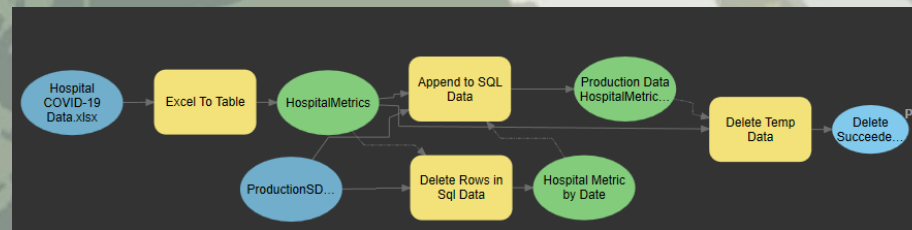
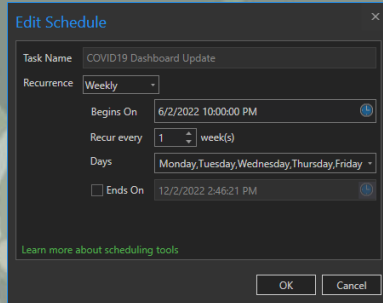
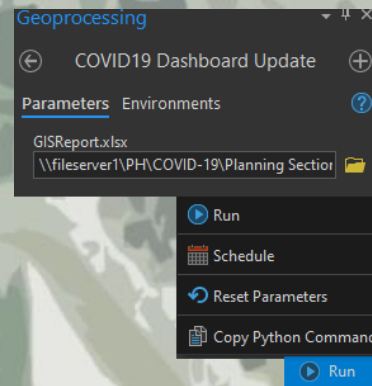
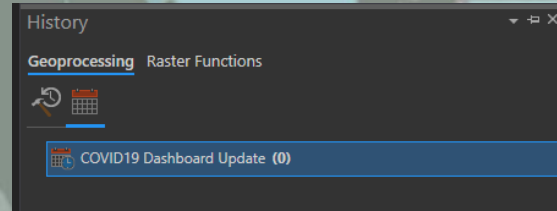
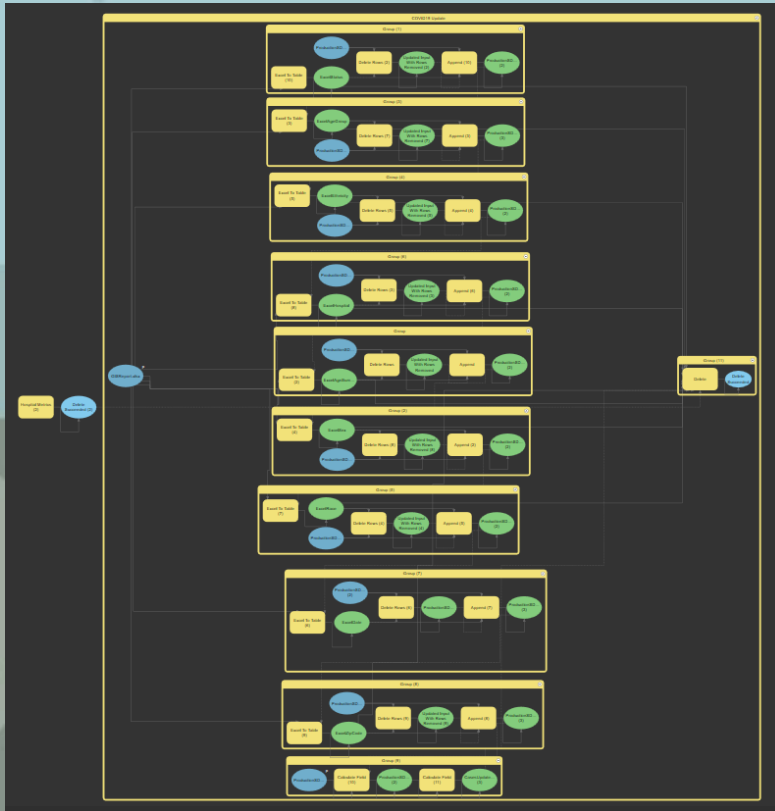
DATA ORDER MODEL

- Why?
- To help automate the process for imagery and data requests.
- Key ModelBuilder Concepts Used:
 - Parameters
 - Iterators
 - Logical Tools
 - Python Scripts
 - In-line Variable Substitution & Utilities
 - Preconditions
 - Groups
 - Nested Models



COVID19 DASHBOARD UPDATE MODEL

- Why?
- To help automate the process of importing data from Excel Spreadsheet and displaying in a Dashboard for ArcGIS.
- Key ModelBuilder Concepts Used:
 - Parameters
 - In-line Variable Substitution & Utilities
 - Preconditions
 - Groups
 - Nested Models
 - Scheduling



History

Geoprocessing Raster Functions



Food Inspections (0)

Name	Status	Trigger	Next Run Time
Address Aims	Ready	Multiple Triggers defined	6/2/2022 9:00:00 AM
Address Aims	Running	At top of any user	6/2/2022 9:00:00 AM
Address Aims	Ready	Whenever task is created or modified	6/2/2022 9:00:00 AM
Address Cms	Ready	At 9:00 PM every day	6/2/2022 9:00:00 PM
Address Cms	Disabled	At 9:00 PM every Monday, Tuesday, Wednesday, Thursday, Friday of every week, starting 6/2/2022	6/2/2022 9:00:00 PM
Address Cms	Ready	At 9:00 PM every Monday, Tuesday, Wednesday, Thursday, Friday of every week, starting 6/2/2022	6/2/2022 9:00:00 PM
Food Inspect	Ready	At 9:00 PM on day 1 of January, February, March, April, May, June, July, August, September, October, November, December, starting 6/2/2022	7/1/2022 9:00:00 PM
GISMapServer	Ready	At 7:00 AM every day - After triggered, report every 7 hours for a duration of 12 hours	6/2/2022 7:00:00 AM
GISMapServer	Ready	At 7:00 AM every day - After triggered, report every 50:00:00 for a duration of 23:00:00	6/2/2022 7:00:00 AM
GISMapServer	Ready	At 9:00 AM on 5/1/2022 - After triggered, report every 1:00:00:00 indefinitely	6/2/2022 9:00:00 AM
GISMapServer	Ready	At 9:00 AM on 5/1/1982 - After triggered, report every 1:00:00:00 indefinitely	6/2/2022 9:00:00 AM
GISMapServer	Ready	At 9:00 PM every day - Trigger expires on 6/2/2022 9:01:01 PM	6/2/2022 9:01:01 PM

Today

Shane Pavlak
Missing Restaurant in GIS 3:57 PM

Shane Pavlak
To: Shane Pavlak
Retention Policy: Default 7 year delete (7 years)

RestaurantsMissingAddressPt.pdf
50 KB

Here is the weekly pdf report.

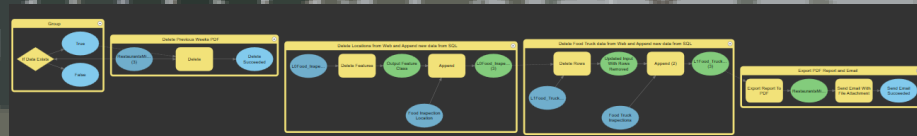
FOOD INSPECTIONS MODEL

- Why?
- To help automate the process of importing data from another department's SQL database and replacing ArcGIS Online layers.
- Key ModelBuilder Concepts Used:
 - Logical Tools
 - Preconditions
 - Groups
 - Export Report to PDF
 - Email PDF
 - Scheduling

FACILITY_ID	FACILITY_NAME	SITE_ADDRESS	CITY	ZIP
FA0003385	COOPERSVILLE	303 MAIN ST	COOPERSVILLE	49404
FA0003386	WOLFIES	9479 RILEY ST	ZEELAND	49464
FA0003388	TACO JOHN'S	4029 22ND ST	HUDSONVILLE	49426

Report Totals

Count: 3
Date Exported: 6/2/2022 3:45 PM



Q&A

REFERENCES AND RESOURCES

- <https://pro.arcgis.com/en/pro-app/2.8/help/analysis/geoprocessing/modelbuilder/what-is-modelbuilder-.htm>
- <https://www.esri.com/training/catalog/57630433851d31e02a43eebc/building-geoprocessing-models-using-arcgis-pro/>
- <https://www.codegrepper.com/code-examples/python/python+zip+dir>
- <https://www.arcgis.com/home/item.html?id=91501d56a92e4534a16054554ac9f6d1>
- <https://www.esri.com/about/newsroom/arcuser/modelbuilder-101-for-arcgis-pro-users-who-want-to-automate-workflows/>



THANK YOU

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