



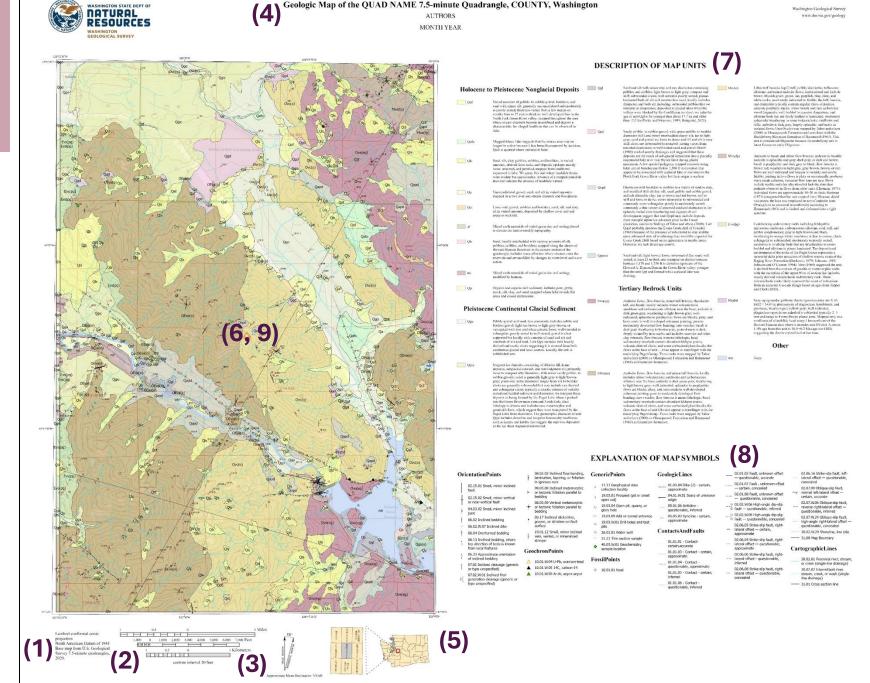


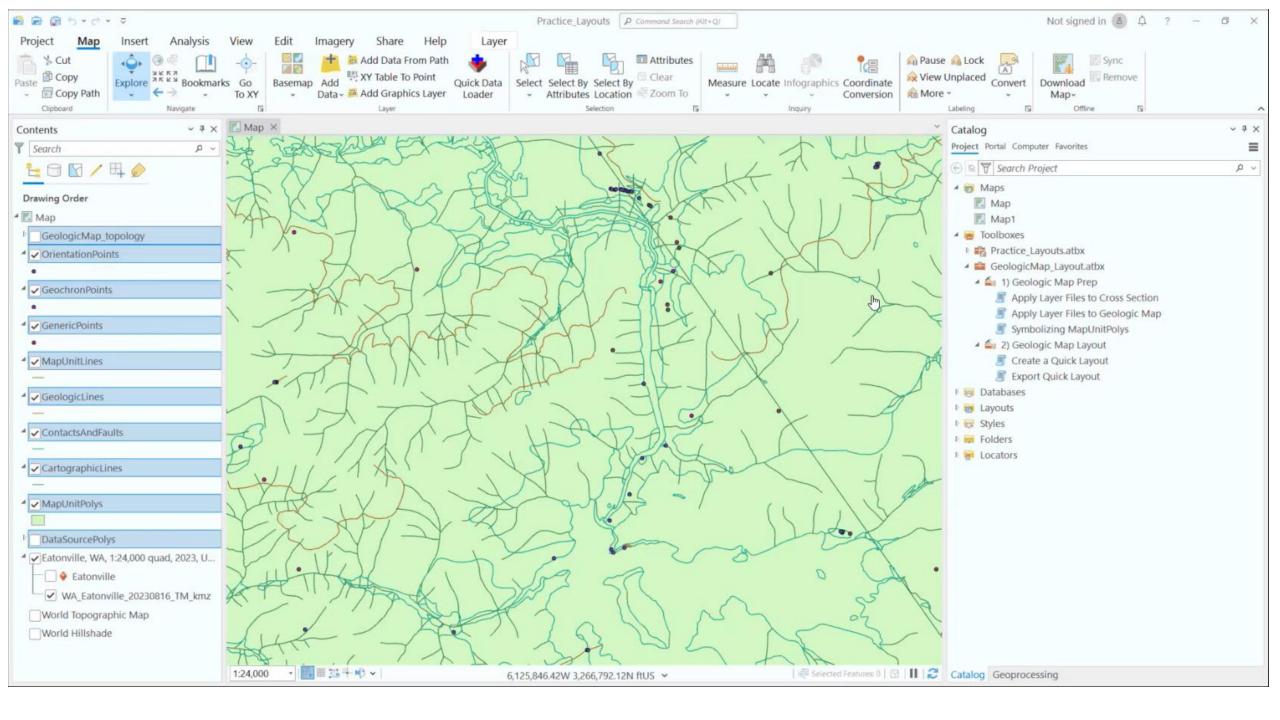
Automating A STATEMAP Compliant Geologic Map Product

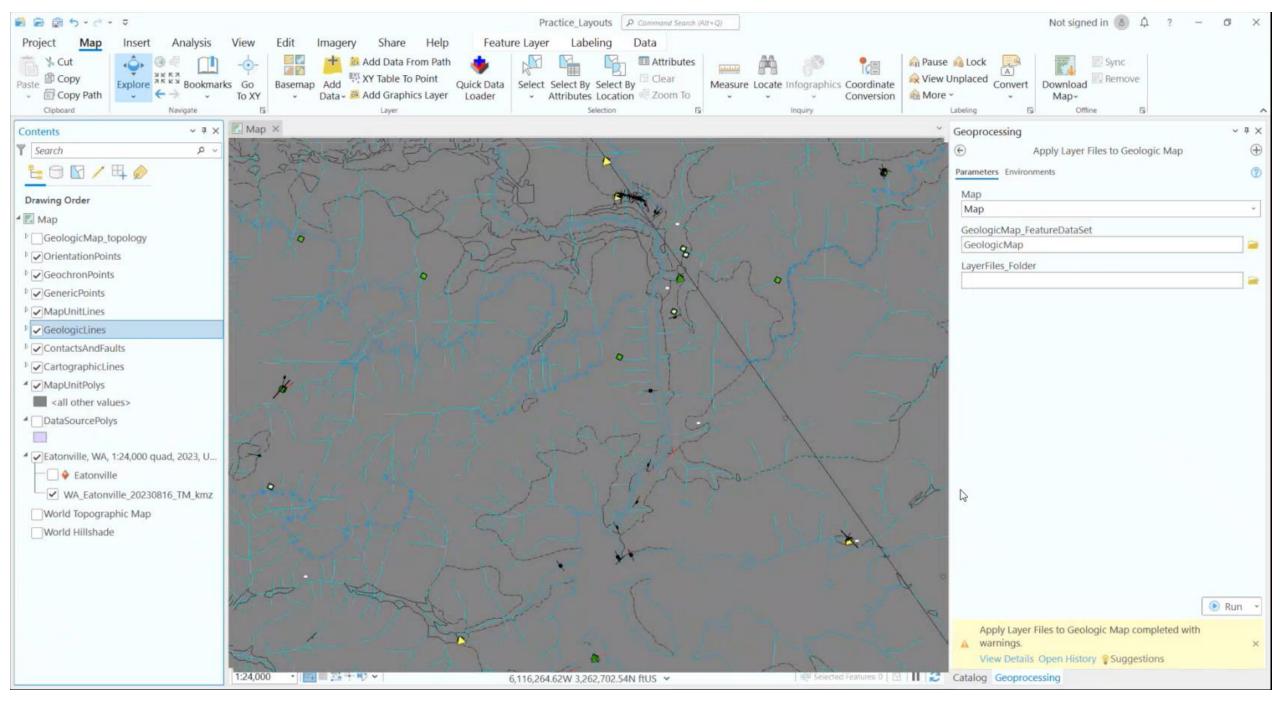
Blair Stuhlmuller

Minimum Geologic Map Product Requirements:

- 1. Base Map and Projection
- 2. Scale Bar and Contour Interval
- 3. North Arrow and Magnetic Declination
- 4. Title, Authorship, Publisher and Date
- 5. Location Index Map
- 6. Field Data
- 7. Description of Map Units
- 8. Explanation of May Symbols
- 9. Unit Symbols on the Map







Text Elements:





Geologic Map of the QUAD_NAME 7.5-minute Quadrangle, COUNTY, Washington

F. M. Last Name, F. M. Last Name and F. M. Last Name MONTH YEAR area dates per ignings

DESCRIPTION OF MAP UNITS

Geologic Map of QUAD_NAME 7.5-minute Quadrangle, COUNTY, Washington

F. M. Last Name, F. M. Last Name, and F. M. Last Name

MONTH YEAR

GedogicMapi

EXPLANATION OF MAP SYMBOLS

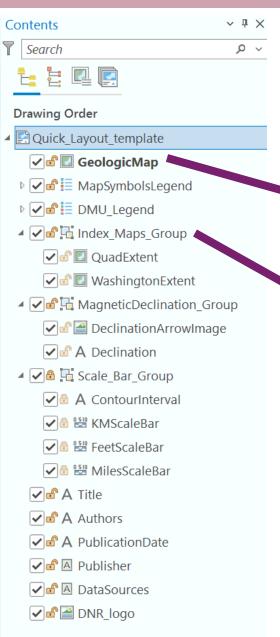
Lumbert conformal conic projection North data rison Dataset of 1990; Busymap from US, Godogleof Survey 7.5 minute quale augles, 2020.





rt Wash

Map Frames:

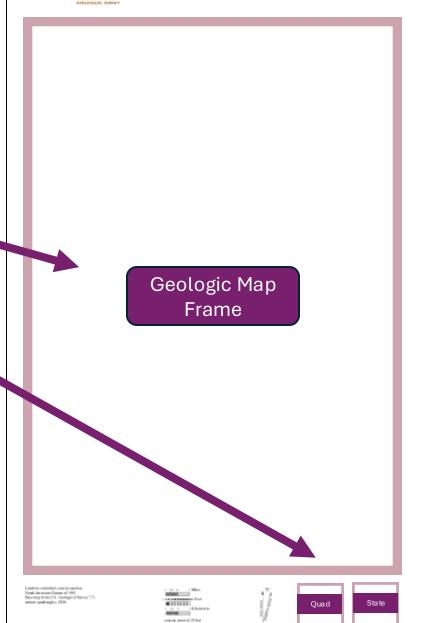




Geologic Map of the QUAD_NAME 7.5-minute Quadrungle, COUNTY, Washington

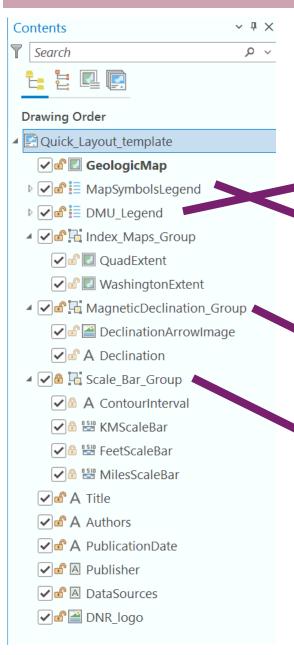
F. M. Last Name, F. M. Last Name and F. M. Last Name MONTH YEAR

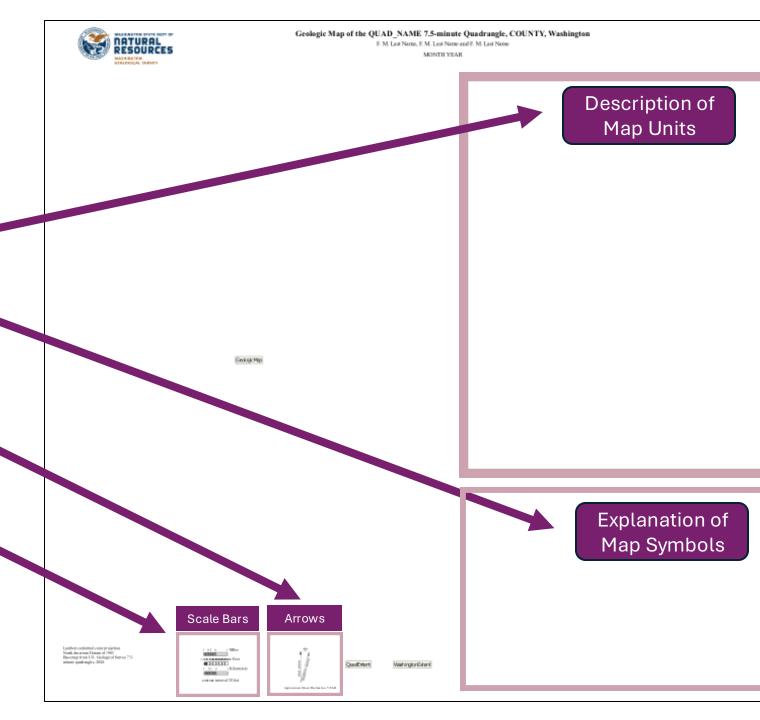
DESCRIPTION OF MAP UNITS

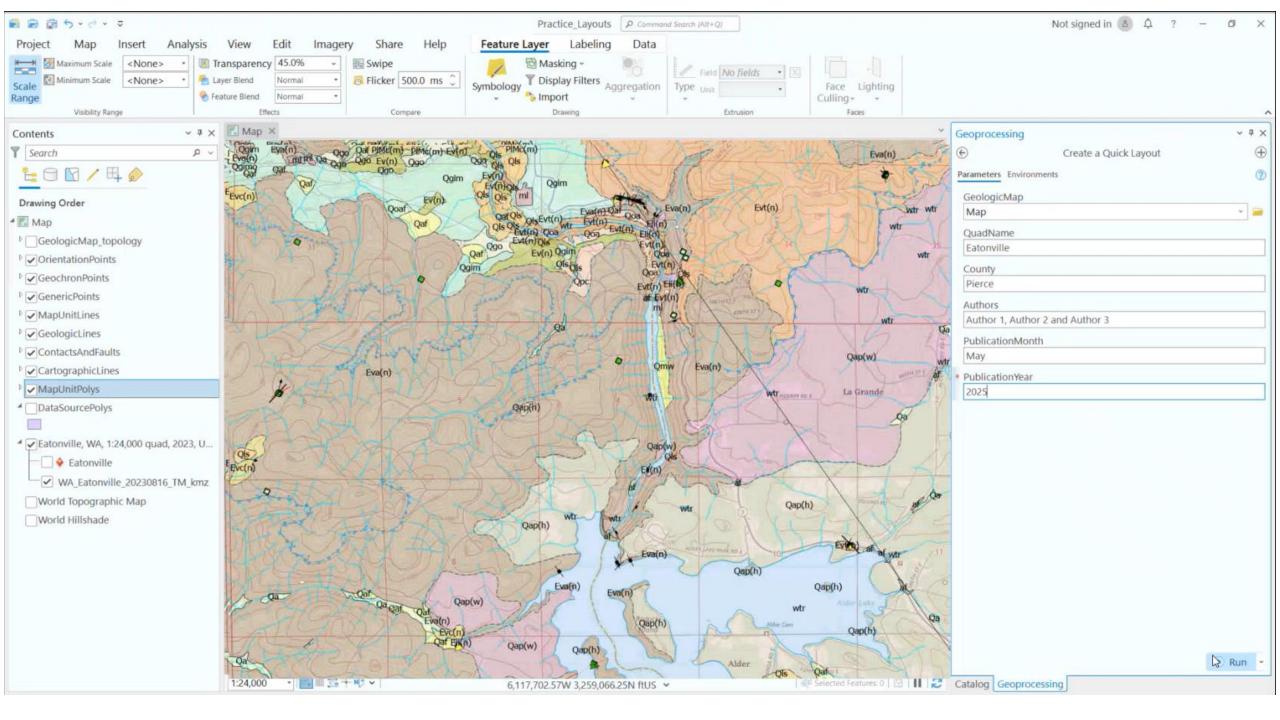


EXPLANATION OF MAP SYMBOLS

Dynamic Elements:







Future Improvements:

- Automating the base map set up
- Setting specific CMYK adjustments to better match FGDC color schemes
- Snapping the geologic map frame to the current map view automatically
- Creating a dynamic North arrow and magnetic declination in ArcGIS Pro

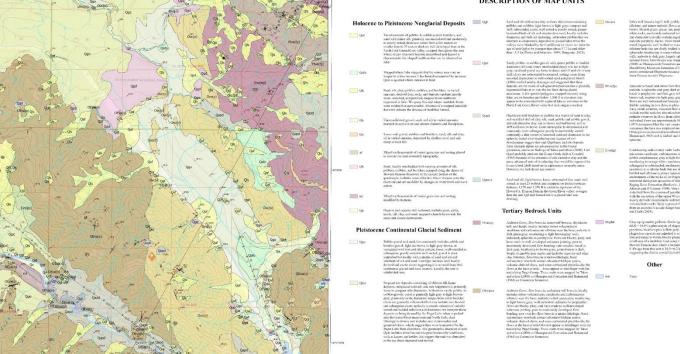
Key Takeaways:

- Creating a template layout the tool could call on really helped minimize how much coding was required.
- Using preset **style layer files** that set the symbols and labeling for each GeMS feature class

Thank you!



Geologic Map of the QUAD NAME 7.5-minute Quadrangle, COUNTY, Washington



ntationPoints	F	08.02.03 Inclined flow b lamination, layering, or f in igneous rock
02.15.01 Small, minor inclined bult	+	08.03.08 Indined metar or tectoric foliation pare bedding
02.15.02 Small, minor vertical or near-vertical fault		06.03.09 Vertical metam
04.03.02 Small, minor inclined	+	or tectonic foliation paral bedding
06.02 Inclined bedding		09.17 Inclined slickening