

GEOL 452/552 - GIS for Geoscientists I

Lecture 19 - Chapter 12 - part 2 (Editing)

- Polygon Editing - autocomplete, trace
- importing x,y data (excel, dbf, csv file)
- data in follow_along\CH12B_class_ex
- Skills Reference part in textbook see pp. 501-

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Recap: line editing

- in ArcCatalog: from \\geol552\data\follow_along\ch12_class_ex
- copy ex_12_for_class.mxd into your U:\ArcGIS\mgisdata\MapDocuments
- copy Edwards_for_class.gdb into your U:\ArcGIS\mgisdata\Austin
- start U:\ArcGIS\mgisdata\MapDocuments\ex_12_for_class.mxd
- Edwards_for_class should contain a **faults** feature class with a couple of known faults (Name=solid) and "assumed" faults (Name=dashed)
- Check that you are in Edit mode (Toolbar) you have the Create Features and Attributes Windows and the Snapping Toolbar
- Ask me for help if you're lost!

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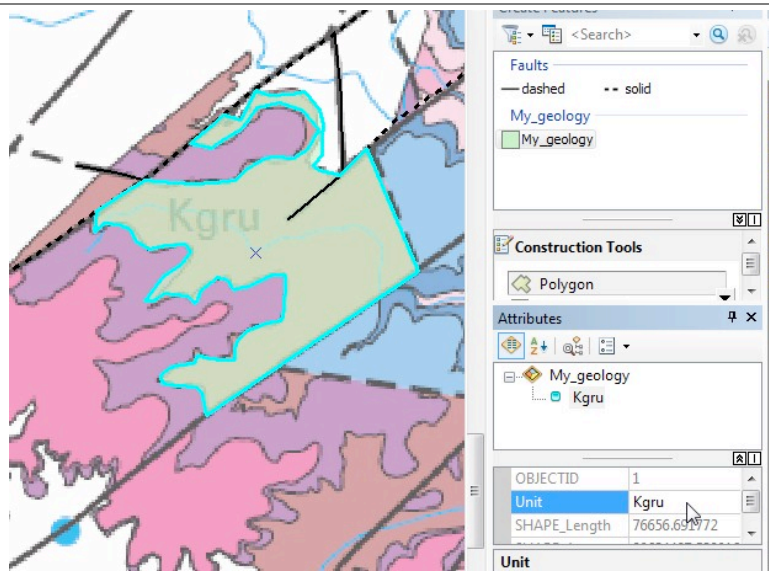
Create Features - Faults
Construction Tools - Line
Add 2 more dashed lines (snap!)
Save Edits when done

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- From Edwards_for_class add the geology feature class **My_geology**
- polygons, has Unit text field for geology (Kkd, Kkbn, etc.)
- R-Click on My_geology - Edit Features - Start Edit
- Create Features - My_geology - Polygon
- Digitize (can be sloppy!) the brown Kgru unit, **snap** to the faults!
- Delete vertex? R-click on vertex - Delete Vertex...
- (you can ignore this fault for now ...)

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Layers
My_geology
Edit Features - Start Edit

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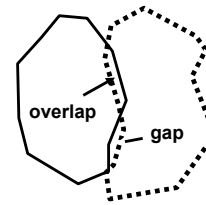


Attributes - Unit

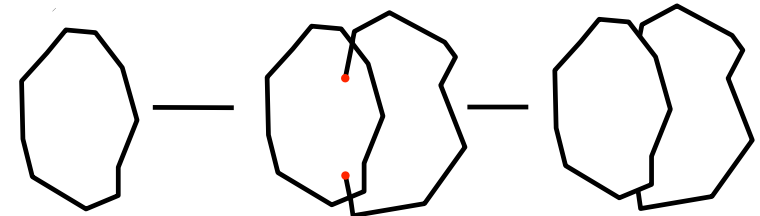
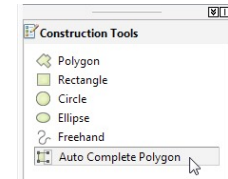
Type in the name of the geological unit (Kgru)
Save Edits - (we'll color the polygons later)

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Topological errors between two polygons:



Creating adjacent polygons



Draw first polygon with Create New Task

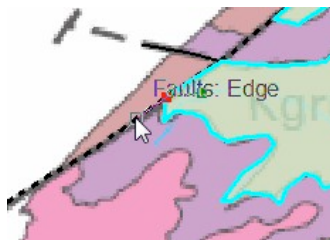
Add new polygon with AutoComplete

Two polygons with coincident boundary.

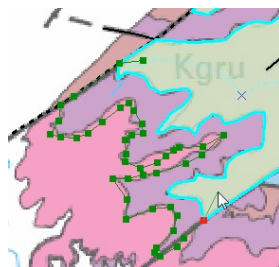
Auto-snapping creates a shared boundary, prevents dangles

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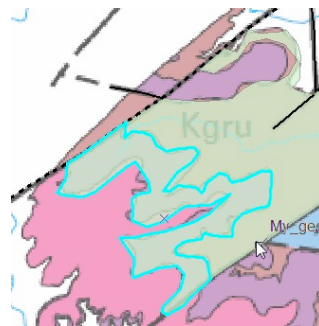
- From Edwards_for_class add the geology feature class **My_geology**
- Let's add the purple unit south of it (will be Kkbn) with auto-complete
- Construction Tools - Auto Complete Polygon



Start INSIDE!
follow the fault



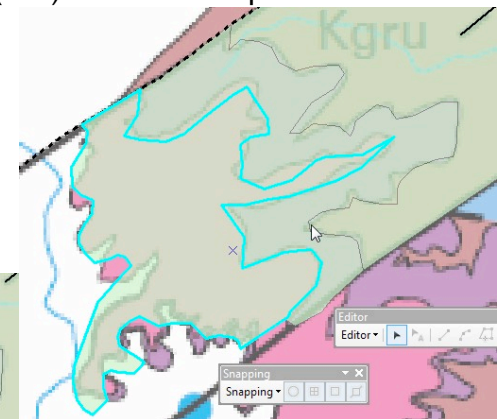
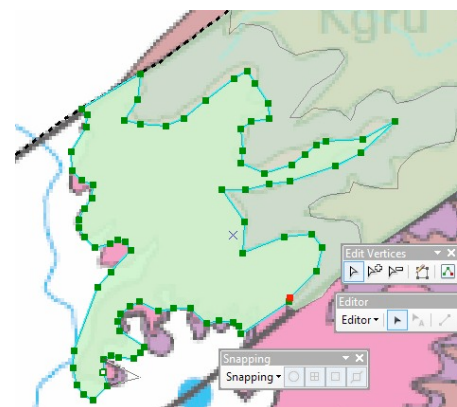
digitize the southern border (better than I did :)



2x-click INSIDE the Kgru to finish

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- Add the pink unit to the south (Kkd) with auto complete
- Save Edits
- Clean up bad vertices:
 - Use this tool
 - Double-click on feature
 - move/delete vertices



Stop Editing
Symbolize Units with colors

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Wrap up

- Ch 12 Tutorial 31 - end
- HW10 ex 1,2,3,4 extra 5 (due Nov 8)
- mini proj. 3 questions?