GEOL 452/552

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GIS for Geoscientists I

Lecture 7a - chapter 3

Labeling Options

- Graphic text (Label in Draw toolbar)
 - Simple graphics placed/edited on layout by hand
- Dynamic labels
 - Label property set for each layer (On/Off, placement, label/feature conflict resolution)
 - Placed automatically for an entire layer using ArcMaps "AI" (labeling engine)
 - more control: Label Manager (Data frame Labeling)
- Annotation
 - Converted on demand from dynamic labels
 - Can be saved and edited for exact placement

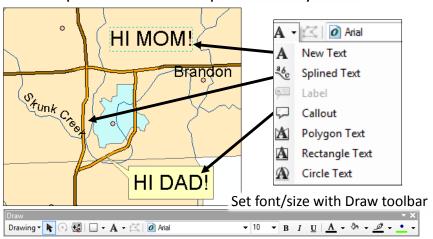
Today

- leftover from last lecture: labeling
- maplex labeling engine
- follow along: copy ch3_class_ex folder, run ch3_class_ex.mxd
- (should show a couple of iowa vector files from that folder)
- As per Feedback (Blackboard):
 - please stop me when go too fast during the follow-along exercise (others will thank you for it!). Interrupt me: "how do I get"
 - question on standard deviation classification: see
 Geol 552 2011 log transform and std dev classification.pdf
 on Bb home page
- lab (9:30) start with HW3 (mini project 1)

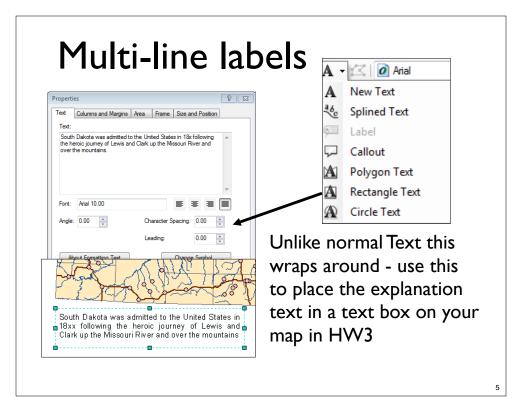
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Graphic text (manual)

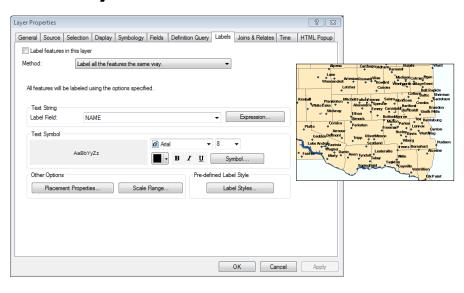
Graphic text must be placed in Layout View



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Dynamic labels



Apparent size of dynamic labels



Sizes of labels and symbols are specified when they are created.

Default: remain the same size as the user zooms in and out. If specified as 10 pt. labels, they are always 10 pt. labels

But: you can set a data frame (not layer) to set the current sale as its reference scale (Right click on data frame - Reference scale - Set Reference Scale)

Reference Scale	٠	=3	Set Reference Scale	N	
Advanced Drawing Options		*	Clear Reference Scale	N	
Labeling	+	₫ª	Zoom To Reference Scale		

If the reference scale is set, zooming in in data mode makes labels bigger.

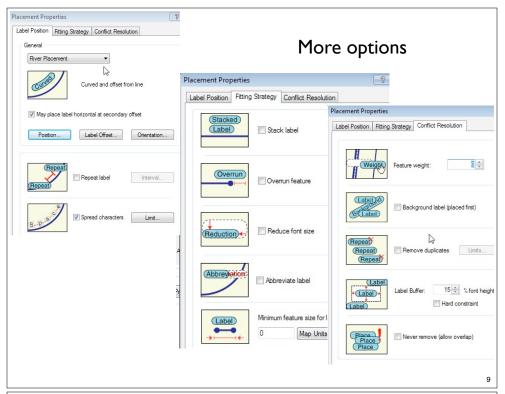
Clear Reference Scale to return to default behavior

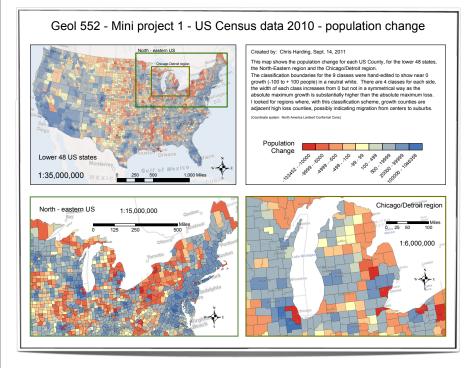
Maplex, the "deluxe" label engine smarter label placement properties, shows

- IN GIS lab: need to activate Maplex extension before it can be used
- Customize extensions check Maplex -Close
- Turn on Maplex: Data frame - General - Label Engine - ESRI **Maplex**
- Rivers layer properties Labels -Placement properties
- Label Position: set to River Placement
- Check: May place label horizontal ... and Spread characters
- May take a couple of seconds to show labels









Lab: Mini project I / HW 3

- Copy GEOL552\data\HW3 US census into your student folder (U: \ArcGIS\) and open HW3_start.mxd
- instructions as pdf: HW3_2011_instructions.pdf, also on Blackboard
- Make a Word file HW3_yourname.doc, for each step describe your methods and add screenshots
- some questions need text answers:

Name each layer by its classification. Make a screenshot of the data view (with the TOC) of each layer and another screen shot of the classification window (with the histogram showing roughly the 0 to 200,000 people range). (2 Pts for each of the five classification methods)

Comparing the 5 maps within your Number of people group. In your opinion, which of these POP2010 maps expresses the population distribution best and why?

- Freeform map making Example: HW3_example_map.pdf
 - due: before next Thursday

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