Now Lab/Assignment 4 Week 4: Facet • Work through Recreating News Visualizations in Tableau • Finish up color theory + demos (30-45 min) · Create Drought Footprints yearly and monthly versions break (15 min) • Fix two previous obstacles from previous labs (but not a duplicate of color for this week) • Recreating News in Tableau (60+ min) submit next week -working through together in lab mode, not fast in demo mode - by 9am Tue, email tmm@cs.ubc.ca with subject JOURN Week 4 · Facet lecture, if there's enough time Tamara Munzner Department of Computer Science University of British Columbia JRNL 520M, Special Topics in Contemporary Journalism: Visualization for Journalists Week 4: 6 October 2015 http://www.cs.ubc.ca/~tmm/courses/journ15 How? How to handle complexity: 3 more strategies + | previous How to handle complexity: 3 more strategies Encode Manipulate Facet Reduce Manipulate Manipulate Facet Reduce Facet Reduce → Derive → Derive ④ Arrange Map Change Filter from categorical and ordered → Express → Separat '.·· ⊙ !ı · · · · · · · · attributes Juxtapose Ochange Ochange Juxtapose → Filter → √. \longrightarrow → Color * → Hue Aggregate ···· 0]; * . 0 Saturation Select Partition → Order → Align Lummu ••••• and the set ***** ۲ → Size, Angle, Curvature, •••• I//_ I))) → Use Partition Aggregate change view over time change over time Navigate Embed → Partition Superimpos E եւեսո < > → Shape • facet across multiple **`** <u>`</u>~ +•■ ۲ ۲ views → Motion reduce items/attributes ۰. · · · Navigate Superimpose Navigate O Superimpose Liliuu within single view $\langle \cdot \cdot \rangle$ $\langle \cdot \rangle$ _____ վե.հետ 1 derive new data to 1 100 show within view How to handle complexity: 3 more strategies + | previous Facet Idiom: Linked highlighting see how regions → Juxtapose Manipulate Facet Reduce → Derive contiguous in one view ··· ·· ··· → Share Encoding: Same/Different are distributed within Ochange Juxtapose ➔ Filter → Linked Highlighting → 🎸 another * . · · · Ø ! ! ! ! M and the second •••• - powerful and pervasive → Partition interaction idiom → Share Data: All/Subset/None Partition facet data across → Select Aggregate and fully an one of the second encoding: different multiple views **~** ٠ – multiform → Share Navigation · data: all shared Navigate Superimpose <....> <.....> $\langle \cdot \rangle$ ×. [Visual Exploration of Large Structured Datasets.Wills. Proc. New Techniques ** * * and Trends in Statistics (NTTS), pp. 237–246. IOS Press, 1995.] Idiom: Small multiples System: Cerebral Coordinate views: Design choice interaction Partition into views ⊨ 🛛 Q Q Q Q 🔮 LPSLL37_1 → Partition into Side-by-Side Views encoding: same Data how to divide data between views -encodes association between items All Subset data: none shared 1.1 None using spatial proximity - different attributes for ** * ** -major implications for what patterns Overview/ node colors Same Redundant Sec. 1. LPSLL37_2 Detail are visible .ht - (same network layout) Small Multiples - split according to attributes navigation: shared hi Ъđ Multiform, A., design choices Different No Linkage Overview/ Multiform . • Detail -how many splits • all the way down: one mark per region? why juxtapose views? • stop earlier, for more complex structure -benefits: eyes vs memory within region? · lower cognitive load to move eyes between 2 views than remembering previous state with -order in which attribs used to split single changing view -how many views [Cerebral:Visualizing Multiple Experimental Conditions on a Graph with Biological Context. Barsky, Munzner, Gardy, and Kincaid. IEEE Trans. Visualization and Computer Graphics (Proc. InfoVis 2008) 14:6 (2008), 1253–1260.] - costs: display area, 2 views side by side each have only half the area of one view



