| <section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header> | Welcome! | This week async read VAD Chapter I Course Logistics async discuss self-intros (light load this week) sync (now!) logistics Q&A scholar strike, in brief time series exercise small groups via zoom breakout technology pilot, first time for online version of class! |
|---|--|--|
| s scholar Strike | Scholar Strike speaking out against police brutality in support of Black Lives Matter inclusion, diversity, equity, & ethics in this course respectful and inclusive learning setting in field of visualization diversity and inclusion for participation within field visualization as mechanism to inform and promote change ethics of data use | Readings and resources Data Visualization Society & Nightingale Journal Resources, including Data Sources for Analysis of Racial Bias https://www.datavisualizationsociety.com/resources -6-part article series on pioneering work of W.E.B. duBois https://medium.com/nightingale/w-e-b-du-bois-staggering-data-visualizations-are-as-power in-1900-64752c472ae4 Data Feminism book data science and data ethics, informed by intersectional feminism https://datafeminism.io/ Designing for People initiative (dfp.ubc.ca) events (videos co ethics in tech & data use seminar yesterday https://dfp.ubc.ca/news-and-events/events/ethical-tech-research-ethical-tech-res |
| Now: In-class design exercise, in small groups | Case I: 3D Approach (Not Recommended) | Case I: Cluster-Calendar Solution |
| Five time-series scenarios -1: every 5 min, duration 1 year, 1 thing: building occupancy rates -2: every 5 min, 1 year, 2 things: currency values (2 exchange rate) -3: several years and several things: every 5 min, 5 years, 10 currencies -4: many things: every 5 min, 1 year, CPU load across 1000 machines -5: several parameters, many things: every 5 min, 1 year, 10 params on 1000 machines Small-group exercise: 20-25 min -one group per Zoom breakout (4 people/group) -brainstorm possible visual encodings & interactions for your assigned scenario -document in your group's googledoc w/ text & sketch images Reportback: 30-40 min flip through googledocs, sometimes questions for group spokesperson | extruded curves: detailed comparisons impossible <i>with KM-consemption ECM with Consemption ECM</i> For the KM-consemption ECM <i>For the KM-consemption ECM</i> | derived data: cluster hierarchy juxtapose multiple views: calendar, superimposed 2D curve interved data: cluster hierarchy |
| • Design space examples/discussion: 15-20 min | | [Cluster and Calendar based Visualization of Time Series Data. van Wijk and van Selow, Proc. In |
| | Case 4: KankExplorer | Case 5: LiveRAC video |

[Exploratory Analysis of Time-Series with ChronoLenses. Zhao, Chevalier, Pietriga, and Balakrishnan. IEEE TVCG 17(12):2422-2431 (Proc. InfoVis 2011).]

[LiveRAC - Interactive Visual Exploration of System Management Time-Series Data. McLachlan, Munzner, Koutsofios, and North. Proc. Conf. on Human Factors in Computing Systems (CHI) 2008, pp 1483-1492.]

