	Required Readings	Further Reading	Multiple View Methods
Lecture 8: Multiple View Methods Information Visualization CPSC 331, Fail 2011 Tamas Museum (ICC Company Notions Mon. 3 October 2011	Chapter 6: Multiple View Methods The Venui Design and Central of Trailis Deploy R. A. Becker, W. S. Chavillan, and M. J. Shyu (2008). Journal of Computational and Statistical Craphics, 5123-135.	Cechelo Vasalizing Melljeh Euperinseast Candelone av Craph with Biological Center. Avano Braicy, Emmostrano Manson, Jeneille L. Gelly, and Richert Kincari. Elfiz Ermantisone av Visualization and Computer Georgia (Pres. 1869). 2003 (19.125-1308). Badling Righly, Carolinated Visualizations in Imporise. Chris Watser, Pizz. Inhibit 2005 (19.126-1308). Exploring Righly Supera with Mildright Marketon and Small Manipals. And Meldone. Noging George Pert Herboll, Mildright Safe Meldone. Noging George Pert Herboll, Mildright Safe Meldone. Noging George Pert Herboll, Configuration of Configuration (Presentation Noging George Pert Herboll). Indiana. Configurate Herentzinial Lyensis to Adrians Braseria Continua. Adrians Singlesh, Janou Debas and Ju Wood. IEEE TVCC 11(6). New-Dec 2004 (Pres: Intelve. 2006).	In Indiang Constitution Codecies Entitled Indignation
Small Multiples vs Animation	CMV Example: Visual Search Engine	CMV Example: cdv	CMV Example: CommonGIS
The state of the s	(VSE for Samelali, Nature and Responsage of the Act Conducted & Adulgatives on Engineery Vandardate. Reference, Core 2001)	The state of the s	Kommerci in the Individual and Individual, Egype 4 of Senser 5 the Art Conducted & Marling Vision in Engineery Visualization, Fishers, Orde 2001.
Replace, Replicate, Overlay	Architectural Issues	Improvise	Coordinating Axes
		• • • •	
when to do which displications	If must play nicely with other views If reducing propossing, respecting to commands If reducing propossing, respecting to commands If control to the for calcability of ringit view If pursues destination is subspection of dataset sets If loos confederation If plant confederation If the control to component can with in background If plant confederation component counts in background If plant confederation component counts in background If plant confederation returns control to master regularly (T.140) If doub work is no plant, required If control to the control is returned	** tightly integrated coordination approach ** components with many external control capabilities ** in components ** in law disks, ports ** in law place requires to user action ** cover approaches for inter action ** cover approaches for inter action ** cover approaches for interpretation of the ports ** Company ** Co	a scatterple from components Tax Tax Tax Tax Tax Tax Tax Tax
design tradeoffs always replace: too much reliance on memory always replicate: too many windows	rendering, preponenting, responsing to commands mont issues aboth ther for calcability of single view mont issues aboth ther for calcability of single view months of the control of the	components with many external control capabilities is the proporties is when details, ports is thange in response to one action is vive specially fail to cycles certain fragment with the control fragment control fragment fragment with the control fragment control [15] I years with the control control of the control of	TAKE (Imp Series) (X Vive (Imp Series) X Als (Imp Series) (Strong Vising) (Strong Vising) (Strong Vising) (Fig.S. Weave: Building High-Coordination In Improvise.

Multiform Matrices and Small Multiples	Multiform Bivariate Small Multiple	Multiform Bivariate Matrix	Spacefill Form
winvicate equivaction, small enables whorizes equivaction, making (SPLOM) and other) wonding, same or marking whose or small multiple whose is a contain multiple	common variable, per capta income per column variables: spee of cancer mortality per column variables: spee of cancer mortality per come forms: catterplack, choogeth; themset in mp in the budge spee. In phy socone, bu convoid accer in operation of the convoiding of the convo	Catalogisti, Pougo, Biotegopana along diagonal pre-cel user accuration, and accurate, most streaming windows and accurate grant facility availability [Madiantees at Accurate type To Street on Matthew Martins and foundations for the facility in the Company of the	In liable highlight of low doctor ratio counties from scatterpile. In spacefill shows it's roughly half the items If spacefill highly space with Malliman Materia and Small Maltiples. Madicalane in 18 to 16 to 16 to 2011.
Sorting/Ordering and Linking	Automatic Dotplot Ordering: Trellis	Trellis Structure	Confirming Hypothesis
control (critering and an article and an article and an article and an article and article article and articl	alphabetical description on proof median and proof median	conditioning Varieties, choose structure in the New Standard internation in plok by years for indu genets in poles years for find genets in upday years for find years in orders years with different behave in orders years in orders years in orders years in orders years in programment in programment in programment in minimistric or thy propo median in decent queue, from categories in ordered	distance core with Morrie parkshed? ded treller yield against wriety given year/rise wore treller yield against other and year given year, yield against other and year given variety. wore treller yield against other and year given variety. wore treller yield against other and year given variety. wore treller yield against other and year given variety. wore treller yield against other and year given variety given year. wore treller yield against other and year given year year year. wore treller yield against other and year given year. wore treller yield against other and year given year. wore treller yield against other years and year year. wore treller yield against other years and year year. wore treller yield against other years and year year. wore treller yield against other years and year year. wore treller yield against other years and year year. wore treller yield against other years and year year. wore treller yield against other years and year year. wore treller yield against other years and year year. wore treller yield against other years and year year. wore treller yield against other years and year year. wore treller yield against other years and year. wore treller yield against other years and year. wore treller yield against other years and year. wore treller yield against year. wore year year year. wore treller yield against year. wore treller yie
Partial Residuals			
I artial (Coluda)	Critique	Critique	HiVE: Conditioning
For Late Vestimates Found datase. Morels data archited supportedly show differences a law means the account a loss in 10% interned means (loss a loss	Critique	Critique # confidence of statistics and perception # indiag signals in noisy data # troods, outler # condition of the statistic (EDA) # rately work fundamental, Chrestand continues	HIVE: Conditioning In concligate conditioning herarchies to epilore data space It remops a seguiding retangibit leposts In which yetsingly is conditioned valued of data In the seguiding retangibit leposts In the seguiding retang
If fixed dataset, Morris data switched If explicitly show differences If take means into account If it is 10% inference desared to see outliers) Outliers)	Critique HiVE Example: London Property	Careful attention to statistics and perception Inding signals in noisy data It trends, outliers weploratory data analysis (EDA)	reconfigure conditioning hierarchies to explore data space remeraps as spacefuling recangular layout. I was the sergangiar layout. I was the sergangiar in conditioned without of data I was the sergangiar in conditioned without of data I was those call on and to them below progress I was the specification and the progression and the sergangiar in the sergangia

Chapter 7: Item Reduction Methods

Reading For Next Time

A review of overview+detail, zooming, and focus+context interfaces. Andy Cockburn, Amy Karlson, and Benjamin B. Bederson. ACM Computing Surveys 41(1), 2008.