Rapid Viz A New Method For The Rapid Visualization Of Ideas By Kurt Hanks

An individual-centered approach to visualize people's opinions and demographic informationcRapid VizVisualizing IdeasVisualization in Geographic Information SystemsModeling with TechnologyTechniques of Structured Problem SolvingNational LithographerVisualizing DataVisualization in Teaching and Learning MathematicsExercises in Visual ThinkingEngineering Design Graphics JournalScalable Visualization of Parallel SystemsThe Development of English ThoughtIrm-Invitation Pub SpeakingJournal of Technology EducationThe Cumulative Loose-leaf Business EncyclopediaCo-designVisualizing Scientific ComputationsMeaningful Learning with TechnologyInnovations in Engineering Design Education Wanda Baltzer Kurt Hanks Gregor Krisztian Hilary M. Hearnshaw David H. Jonassen Arthur B. Vangundy William S. Cleveland Walter Zimmermann Ralph E. Wileman Jorge García Simon Nelson Patten Miriam Griffin Stanley King William L. Hibbard David H. Jonassen American Society of Mechanical Engineers

the noble way to substantiate decisions that affect many people is to ask these people for their opinions for governments that run whole countries this means asking all citizens for their views to consider their situations and needs organizations such as

africa s voices foundation who want to facilitate communication between decision makers and citizens of a country have difficulty mediating between these groups to enable understanding statements need to be summarized and visualized accomplishing these goals in a way that does justice to the citizens voices and situations proves challenging standard charts do not help this cause as they fail to create empathy for the people behind their graphical abstractions furthermore these charts do not create trust in the data they are representing as there is no way to see or navigate back to the underlying code and the original data to fulfill these functions visualizations would highly benefit from interactions to explore the displayed data which standard charts often only limitedly provide to help improve the understanding of people s voices we developed and categorized 80 ideas for new visualizations new interactions and better connections between different charts which we present in this report from those ideas we implemented 10 prototypes and two systems that integrate different visualizations we show that this integration allows consistent appearance and behavior of visualizations the visualizations all share the same main concept representing each individual with a single dot to realize this idea we discuss technologies that efficiently allow the rendering of a large number of these dots with these visualizations direct interactions with representations of individuals are achievable by clicking on them or by dragging a selection around them this direct interaction is only possible with a bidirectional connection from the visualization to the data it displays we discuss different strategies for bidirectional mappings and the trade offs involved having unified behavior across visualizations enhances exploration for our prototypes that includes grouping filtering highlighting and coloring of dots our prototyping work was enabled by the development environment lively4 we explain which parts of lively4 facilitated our prototyping process finally we evaluate our approach to domain problems and our developed visualization concepts our work provides inspiration and a starting point for visualization development in this domain our visualizations can improve communication between citizens and their government and motivate empathetic decisions our approach combining low level entities to create visualizations provides value to an explorative and empathetic workflow we show that the design space for visualizing this kind of data has a lot of potential and that it is possible to combine qualitative and quantitative approaches to data analysis

in this book gregor krisztian and nesrin schlempp Ülker explore and explain basic layout techniques giving expert tips and demonstrating useful tricks employed by professionals they show you how to present your ideas quickly and effectively illustrating all stages of work with clear examples from teaching and practice this will be an indispensable reference work for all professional designers and students indeed for anyone who wishes to present their ideas successfully and skilfully

a practical research oriented introduction to the principles of scientific visualization applied to geographic information systems

gis brings together the world s foremost practitioners to produce an integrated up to the minute manual concerned with techniques and their applications copiously illustrated in line black and white and full color with many of the color images published for the first time

well known for addressing the use of computers to foster critical thinking and problem solving this text was written to teach current and future teachers how to better engage learners more mindfully and meaningfully in the process of learning available now in it s third edition it focuses on how to use technology to support meaningful learning through model building providing powerful strategies for engaging supporting and assessing coonceptual change in learners

this second edition explains demonstrates and evaluates 105 tested problem solving techniques 35 more than appeared in the first edition having more techniques at your disposal enables you to solve a wider range of problems without wasting time looking for the best solutions in addition you will find new techniques for classifying problems to solve them faster as well as expanded discussion of proven brainstorming and brainwriting methods

the twenty papers in the book give an overview of research analysis practical experience and informed opinion about the role of visualization in teaching and learning mathematics especially at the undergraduate level visualization in its broadest level visualization in its broadest sense is as old as mathematics but progress in computer graphics has generated a renaissance of interest in visual representations and visual thinking in mathematics

this edition describes how various technologies can be used to engage and support different learning activities by using these processes teachers also encourage their students to take on more responsibility and become active participants in their own learning book cover

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