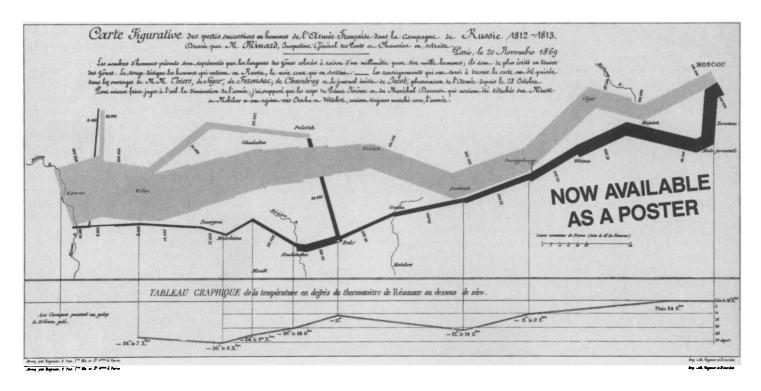
The Visual Display of Quantitative Information EDWARD R. TUFTE



This map, drawn by the French engineer Charles Joseph Minard in 1869, portrays the losses suffered by Napoleon's army in the Russian campaign of 1812. Beginning at the left on the Polish-Russian border near the Niemen, the thick band at the top shows the size of the army (422,000 men) as it invaded Russia in June 1812. The width of the band indicates the size of the army at each position. In September, the army reached Moscow, which was by then sacked and deserted, with 100,000 men. The path of Napoleon's retreat from Moscow in the bitterly cold winter is depicted by the dark lower band, which is tied to a temperature scale (note how the path of retreating army and the temperature line move in parallel). The remains of the Grande Armée struggled out of Russia with only 10,000 men. Minard displayed six dimensions of data on the two-dimensional surface of the paper. It may well be the best statistical graphic ever drawn.

"A fascinating book, compulsory "Original, beautifully presented, reading. A devastating critique of many standard statistical graphical techniques, but a constructive one that suggests many ingenious and effective improvements and alternatives." NATURE

Now available, a poster version of the graph of Napoleon's disastrous march $(15^{\prime\prime})$ by $12^{\prime\prime}$, exquisitely done in two colors on fine paper. It is eminently "A beautiful, brilliant book." suitable for framing. A real talk piece for your office or study at home, it is available for \$10 for one copy, and \$8 each for multiple copies (postage and handling included).

sharp and learned, this book is a work of art. The art here is a cognitive art, the graphic display of relations and empirical data, now an indispensable tool of science and engineering." SCIENTIFIC AMERICAN

"A touchstone of style for computer graphics." PC MAGAZINE

AMERICAN MATHEMATICAL MONTHLY

Graphics Press, 1983, 197 pages, 9" x 11", hardcover, \$34.00

"The most important contribution so far to the study of the graph." JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION

Science News Books 1719 N Street, NW Washington, DC 20036

Please send_

Please send _____ copy(ies) of The Visual Display of Quantitative Information. I include a check payable to Science News Books for \$34.00 plus \$2 postage and handling (total \$36.00) for each copy. Poster: 1 for \$10.00 □ _ for \$8.00 each □ Domestic orders only. Name Address City State Zip RB 1082