

Private Lives of Garden Birds

By Calvin Simonds

Learn about the lifeways of mockingbirds, swallows, blue jays, chickadees, song sparrows, robins, English sparrows, phoebes, red winged blackbirds and other birds that are probably regular visitors to your backyard and garden. Find out what the bird eats, how it passes its time, how and why it sings and how it relates to others of its kind. . . what you need to provide in exchange for the bird's services as an insect eater and garden beautifier.



Rodale, 1984, 175 pages, 8 3/4" x 5 3/4", \$14.95

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My name is Dr. George McCarty. I teach math at the University of California. I wrote this guidebook to cut through the confusion. I guide you with examples you follow step-by-step on your calculator — you do simple exercises — then you solve practical problems with real precision!

POWER METHODS. Need to evaluate functions, areas, volumes — solve equations — use curves, trig, polar coordinates — find limits for sequences and series? It's all here!

If you're in the biological, social or physical sciences, you'll be doing Bessel functions, carbon dating, Gompertz' growth curves, half-life, future value, marginal costs, motion, cooling, probability, pressure — and plenty more (even differential equations).

Important numerical techniques? Those algorithms are here, too: rational and Padé approximation, bracketing, continued fractions, Euler's method, Heun's method, iteration functions, Newton's method, predictor-corrector, successive substitutions, Simpson's method and synthetic division.

LOOK AT WHAT USERS SAY: Samuel C. McCluney, Jr., of Philadelphia writes: *"CALCULATOR CALCULUS IS GREAT! For ten years I have been trying to get the theory of calculus through my head, using home-study courses. It was not until I had your book that it became clear what the calculus was all about. Now I can go through the other books and see what they are trying to do. With your book and a calculator the whole idea becomes clear in a moment, and is a MOST REFRESHING EXPERIENCE. I program some of the iterative prob-*

lems you suggest and it always GIVES ME A THRILL to see it start out with a wild guess and then approach the limit and stop."

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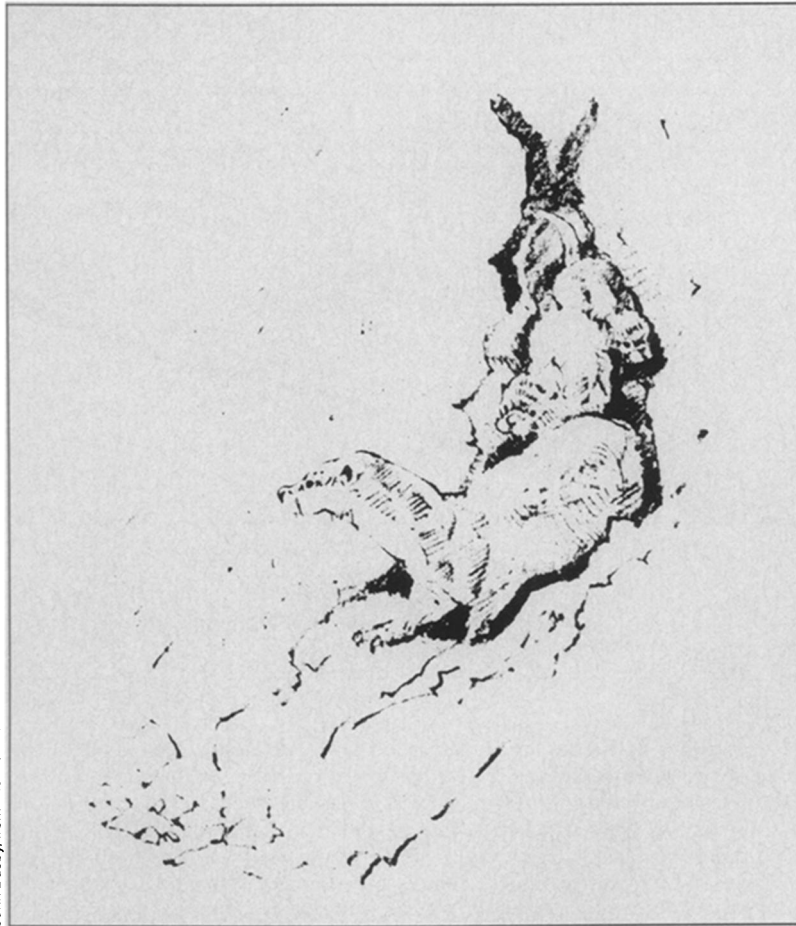
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John Busby, from *The Track of the Wild Otter*

Wild Otter by Hugh Miles

Little is known about the shy, unpredictable, nocturnal, elusive and rare wild otter. Hugh Miles, a world famous wildlife filmmaker, tells the story of the relationship he developed with one wild otter and her cubs on the rugged Shetland islands. The book is beautifully illustrated in color and black and white by painter John Busby, with full-color photographs by Miles.

St. Martin's Press, 1984, 160 pages, 10½" x 8½", hardcover, \$15.95

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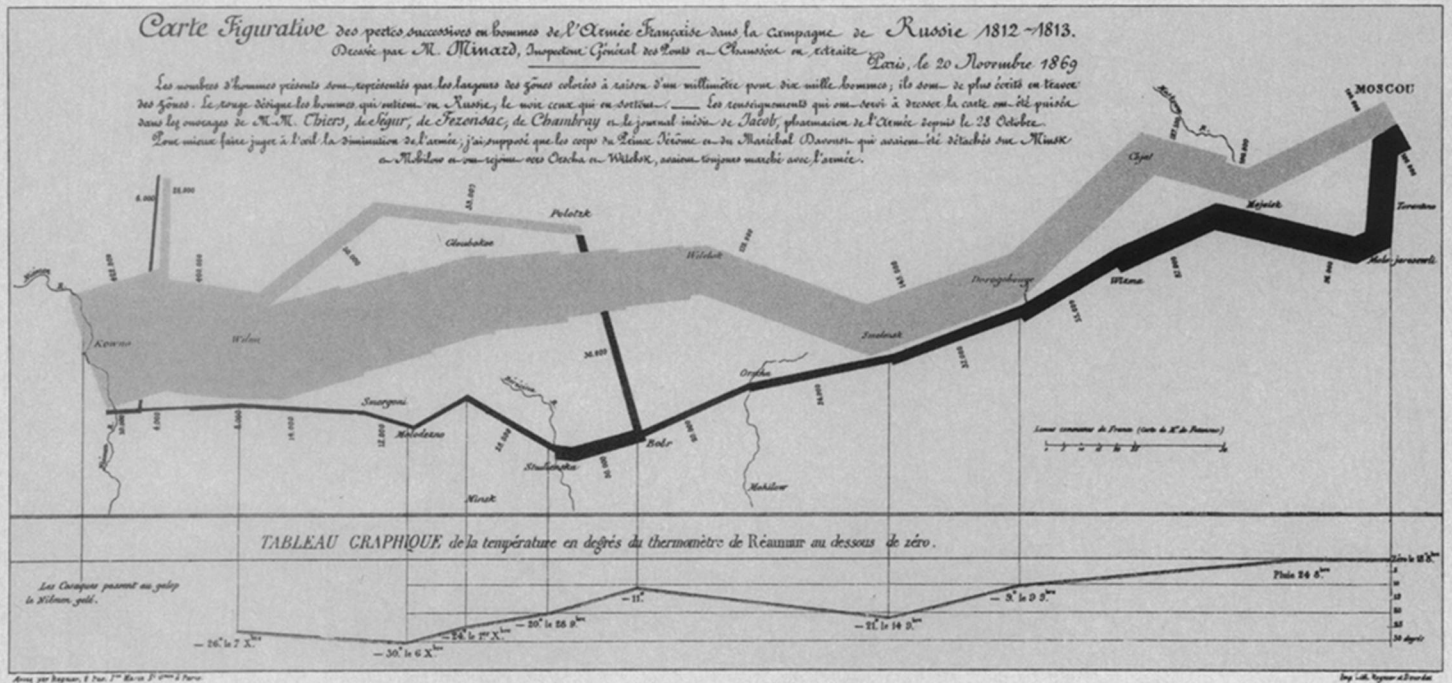
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The Visual Display of Quantitative Information

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

"Original, beautifully presented, 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

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

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