The Visual Display of Quantitative Information

Chapters 5 & 6

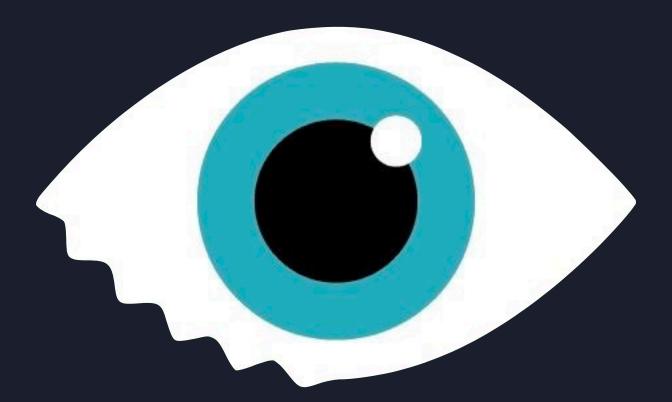
Chartjunk: Vibrations, Grids, and Ducks

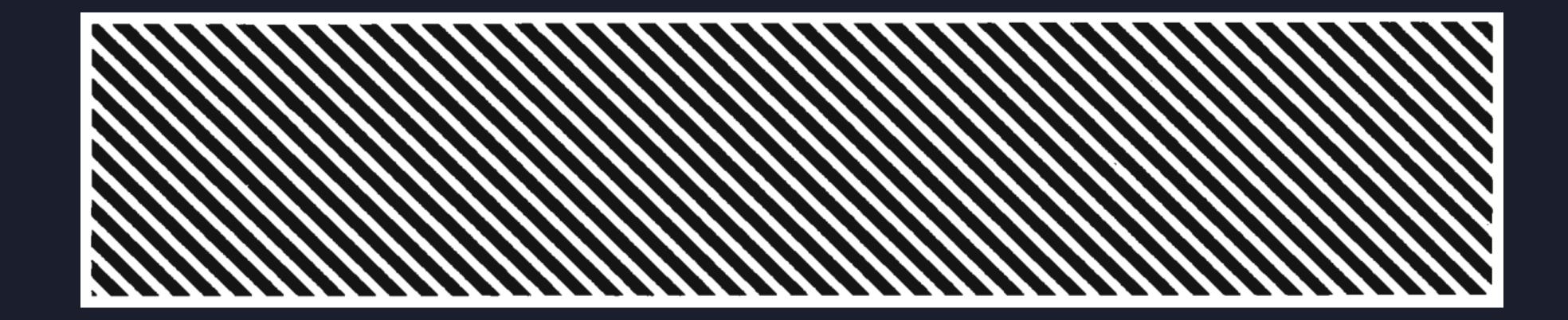
Decoration!!!

Decoration!!!



1. Unintentional Optical Art

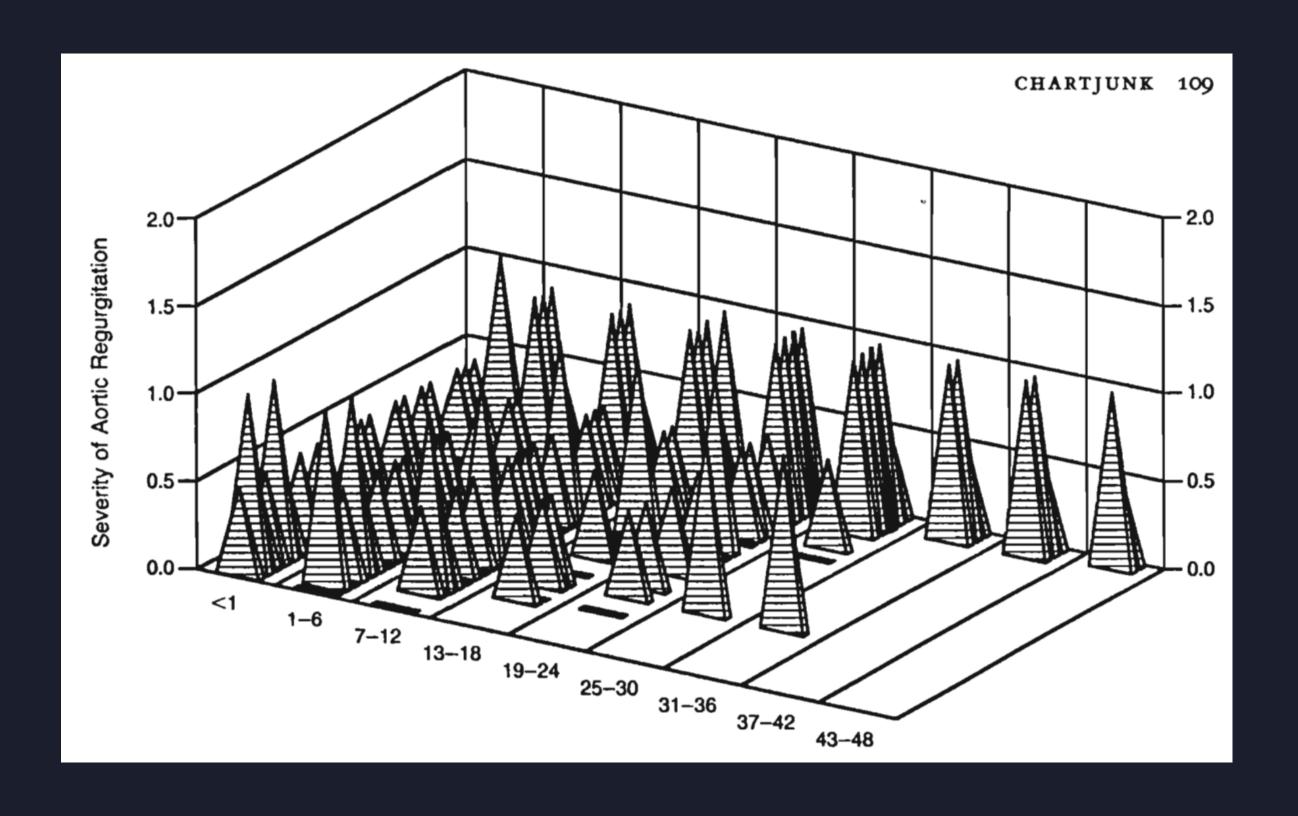




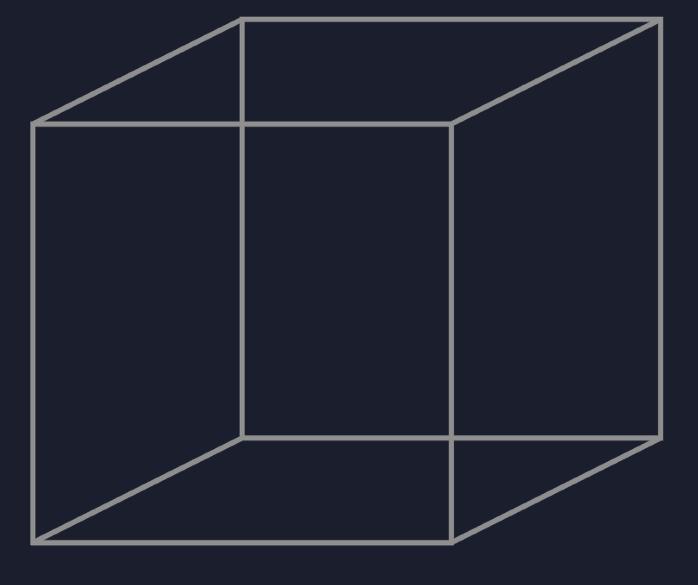
Moiré Effect

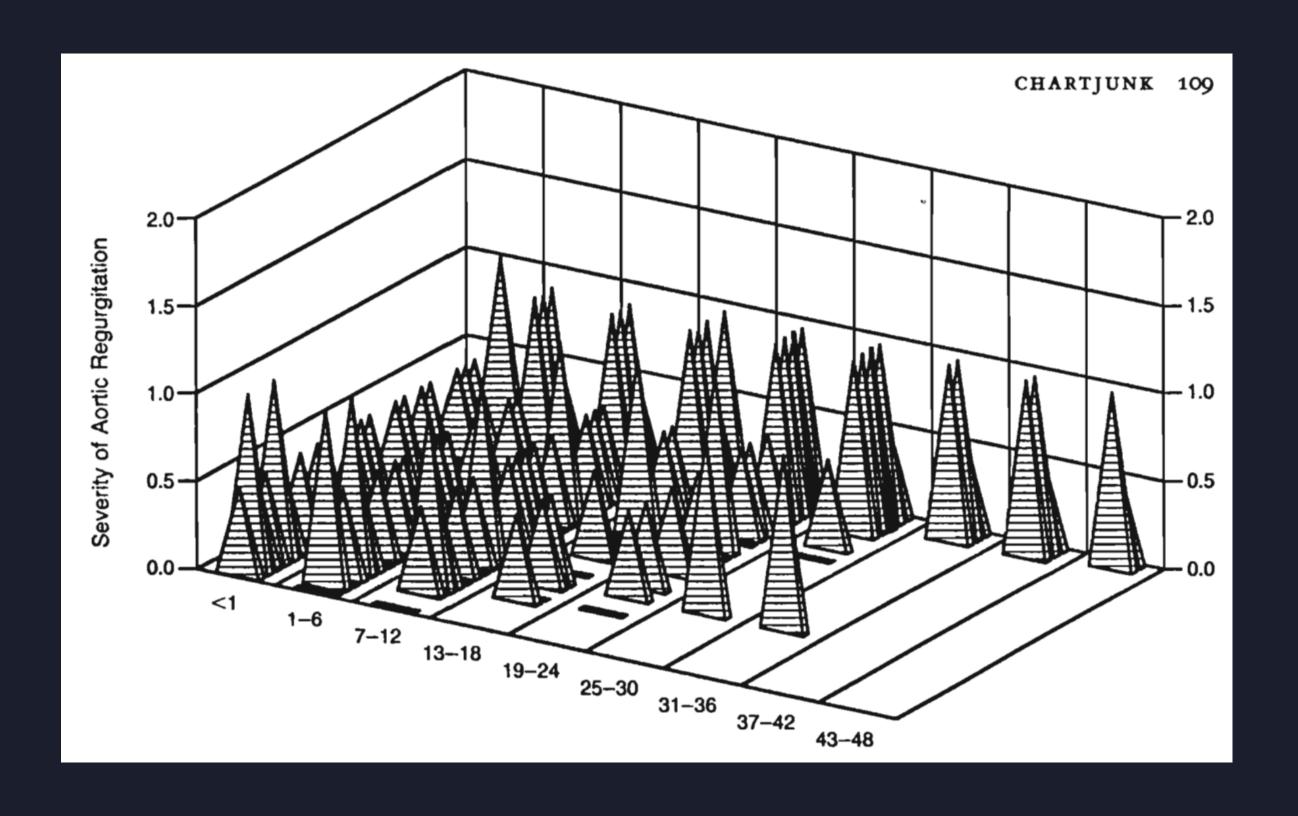




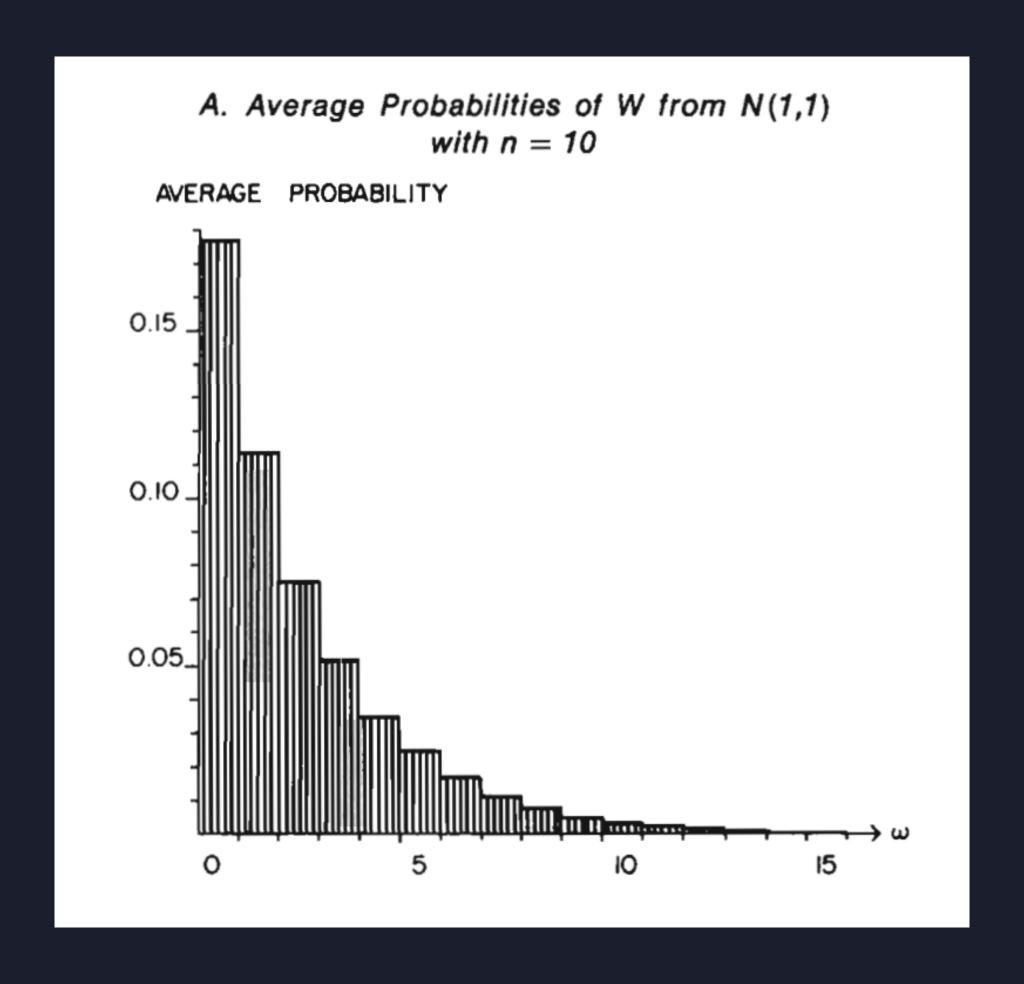


Necker Illusion



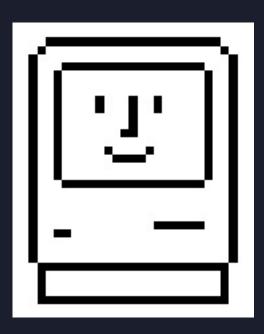


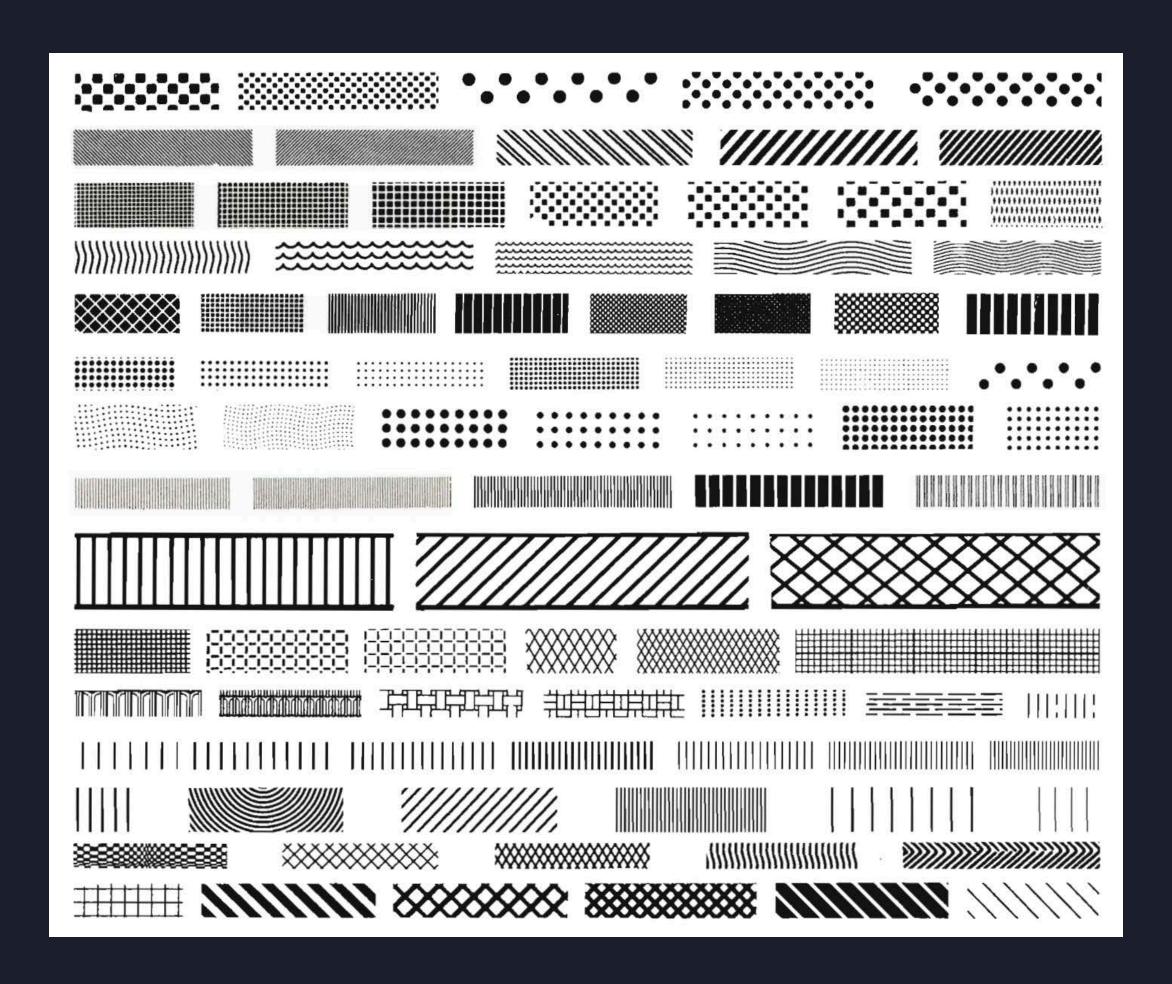
"one variable (stacked depth of the stupid pyramids) has no label or scale"





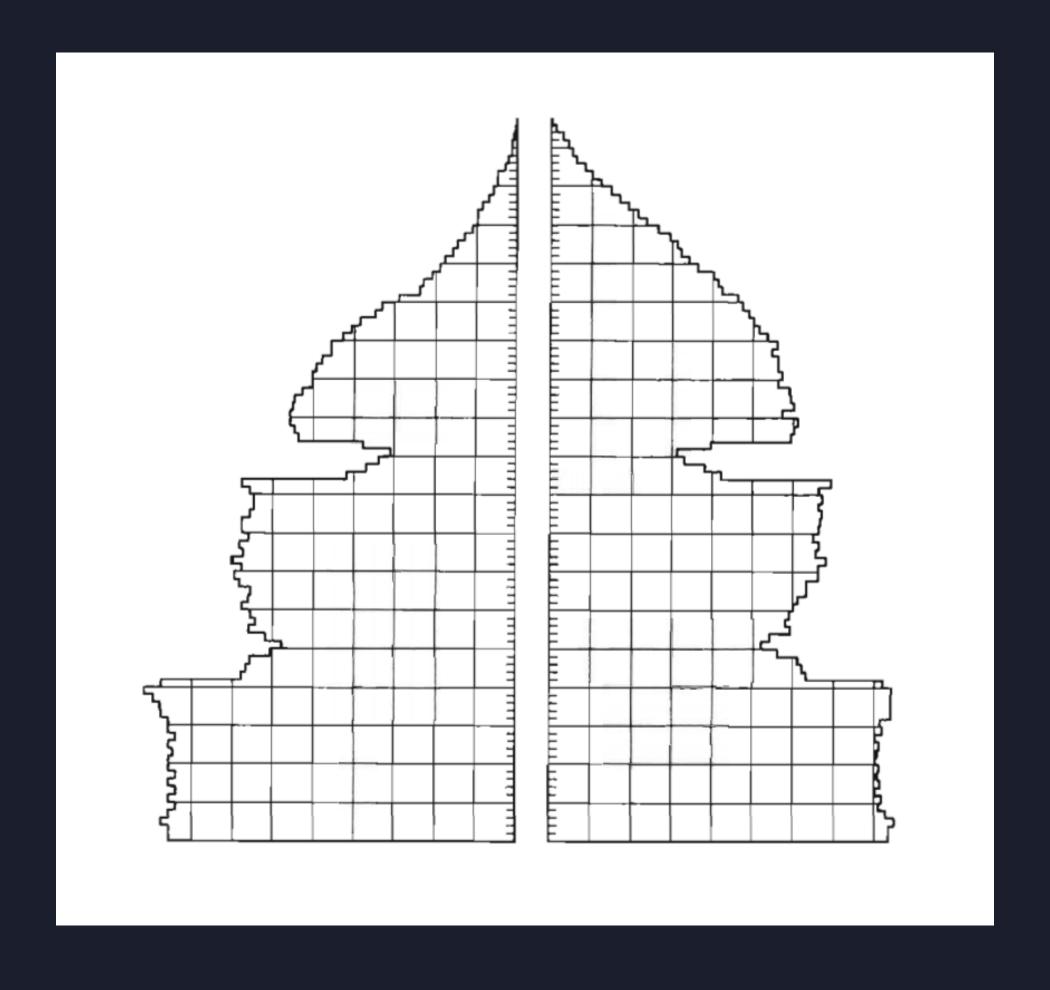


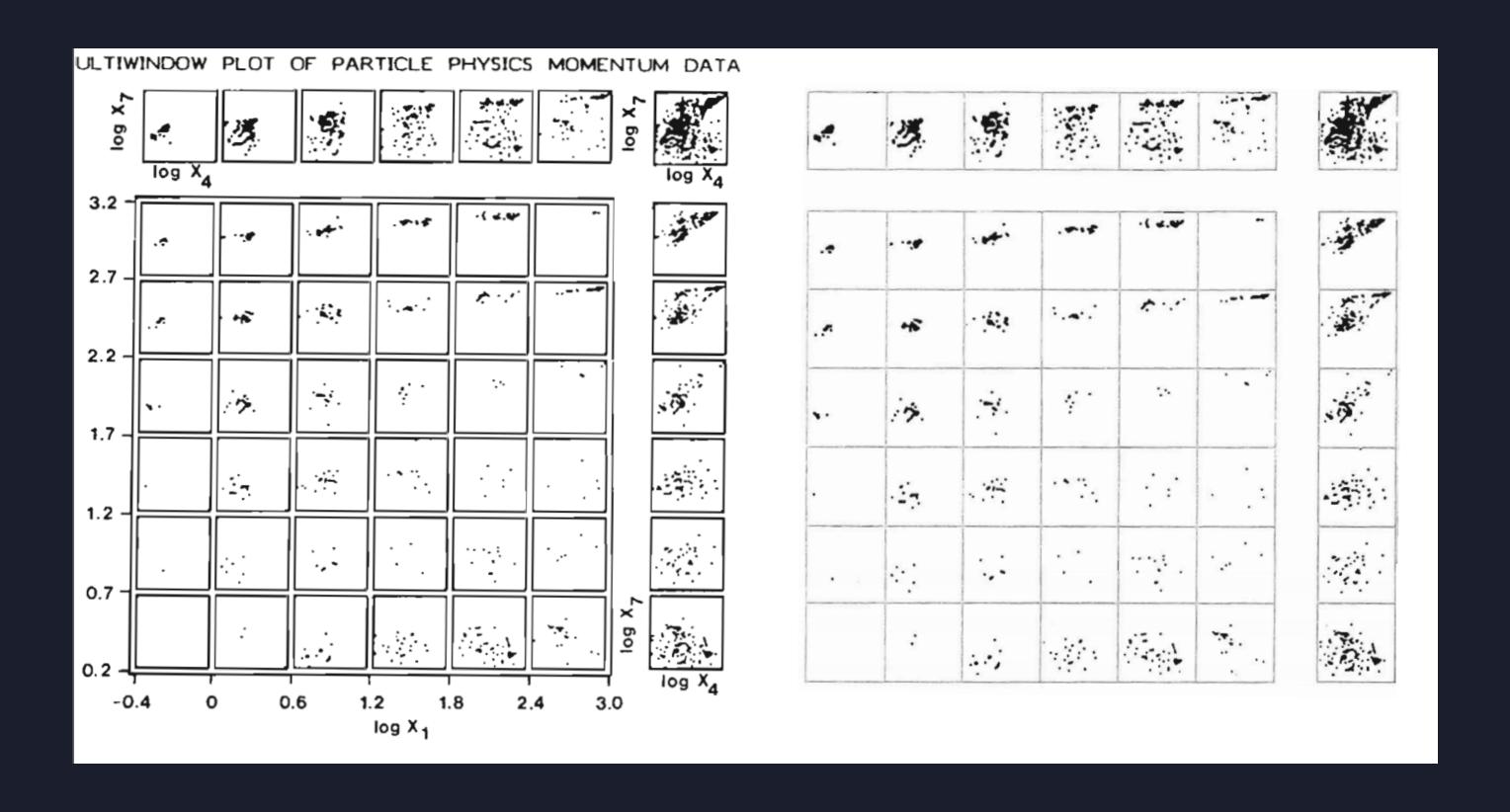


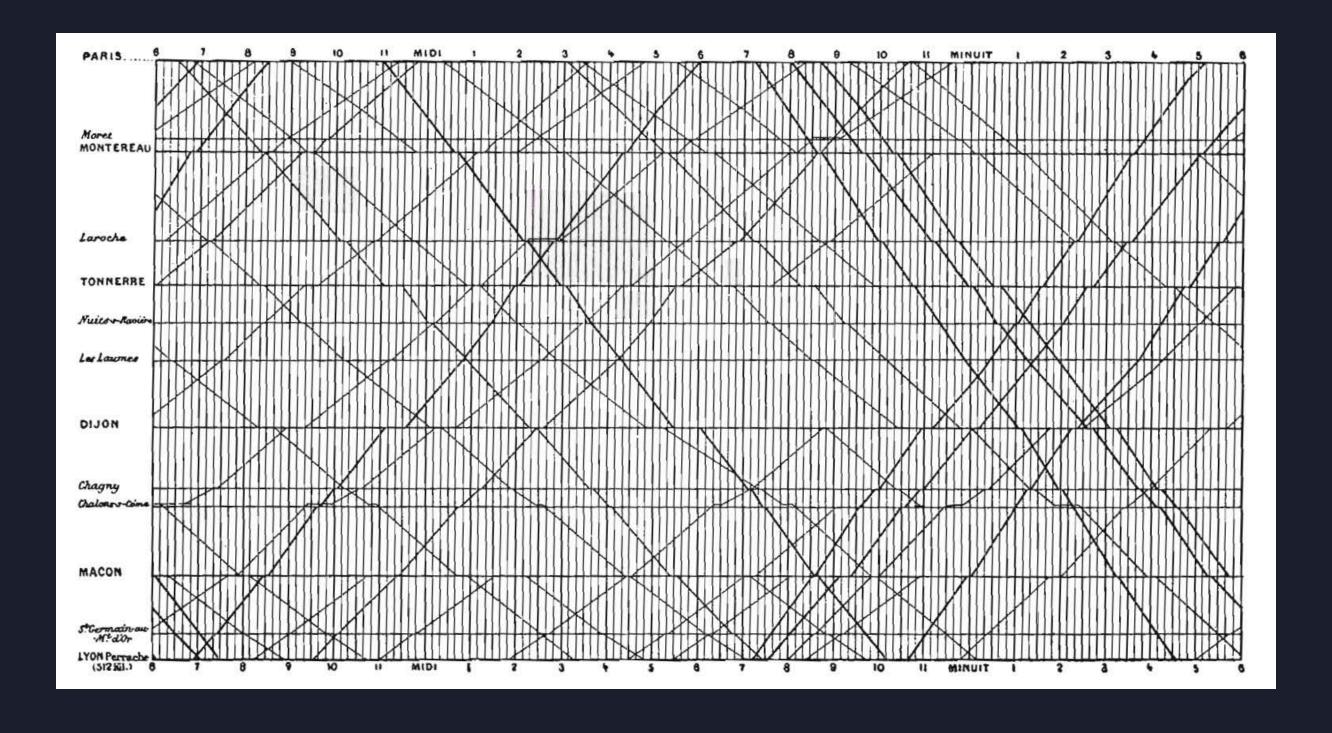


Textbooks and handbooks of statistical graphics; and manuals for computer graphics programs (ordered by date of publication)	Percentage of graphics with moiré vibration	Total number of graphics
Willard C. Brinton, Graphic Methods for Presenting Facts (New York, 1914)	12%	255
R. Satet, Les Graphiques (Paris, 1932)	29%	28
Herbert Arkin and Raymond R. Colton, Graphs: How to Make and Use Them (New York, 1936)	17%	95
Mary Eleanor Spear, Charting Statistics (New York, 1952)	46%	134
Anna C. Rogers, Graphic Charts Handbook (Washington, D.C., 1961)	32%	201
F. J. Monkhouse and H. R. Wilkinson, Maps and Diagrams (London, third edition, 1971)	14%	322
Calvin F. Schmid and Stanton E. Schmid, Handbook of Graphic Presentation (New York, second edition, 1979)	22%	399
A. J. MacGregor, Graphics Simplified (Toronto, 1979)	34%	65
The user's manual for a widely distributed computer graphics package: SAS/GRAPH User's Guide (Cary, North Carolina, 1980)	68%	28
The manual for a very extensive computer graphics program: Tell-A-Graf User's Manual (San Diego, 1981)	53%	459

2. Dreaded Grid

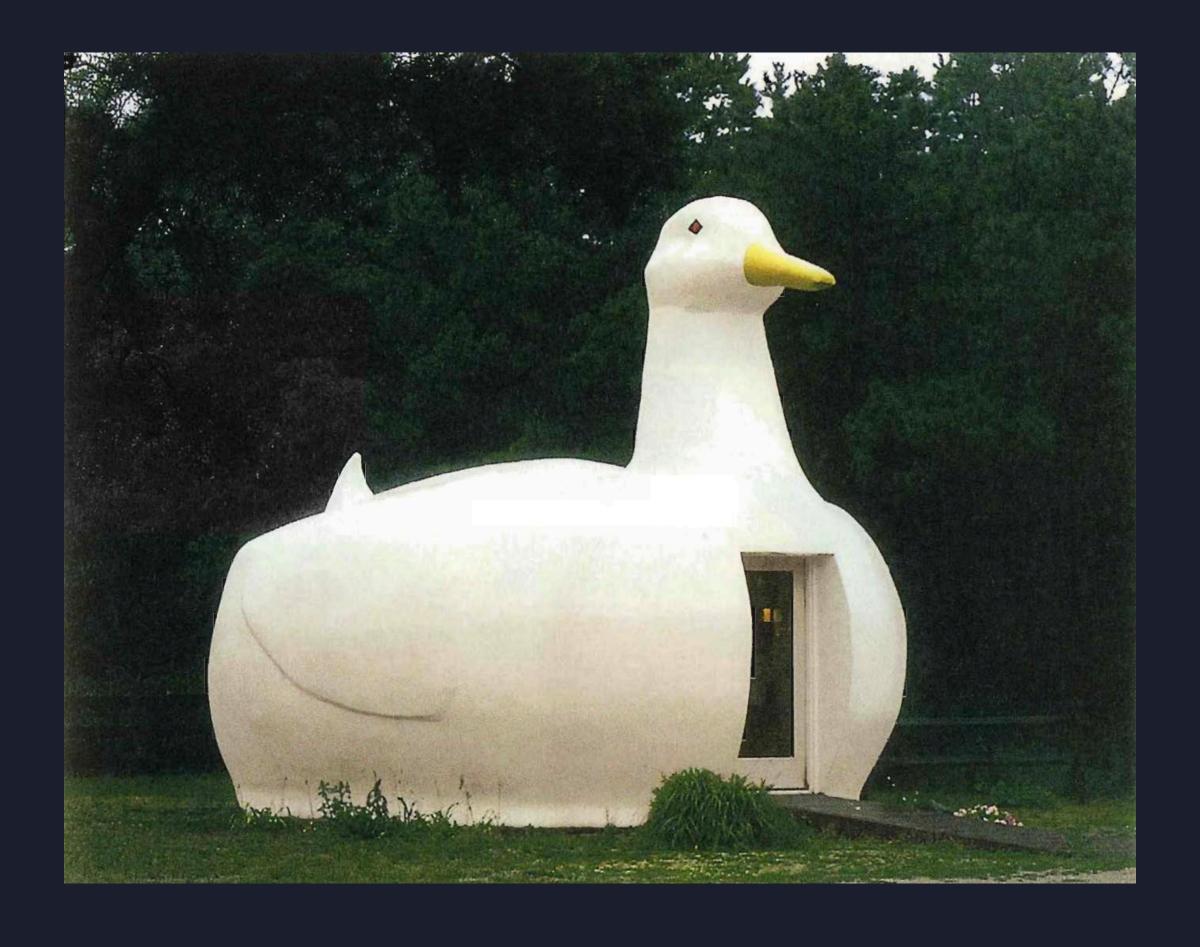


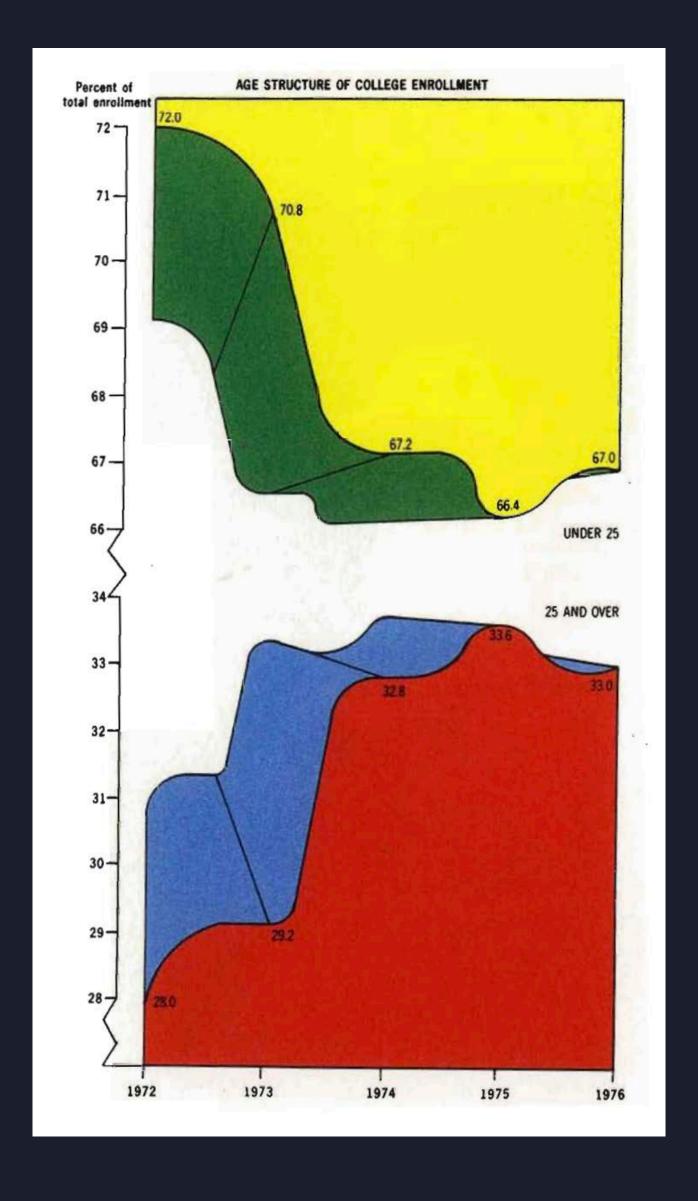




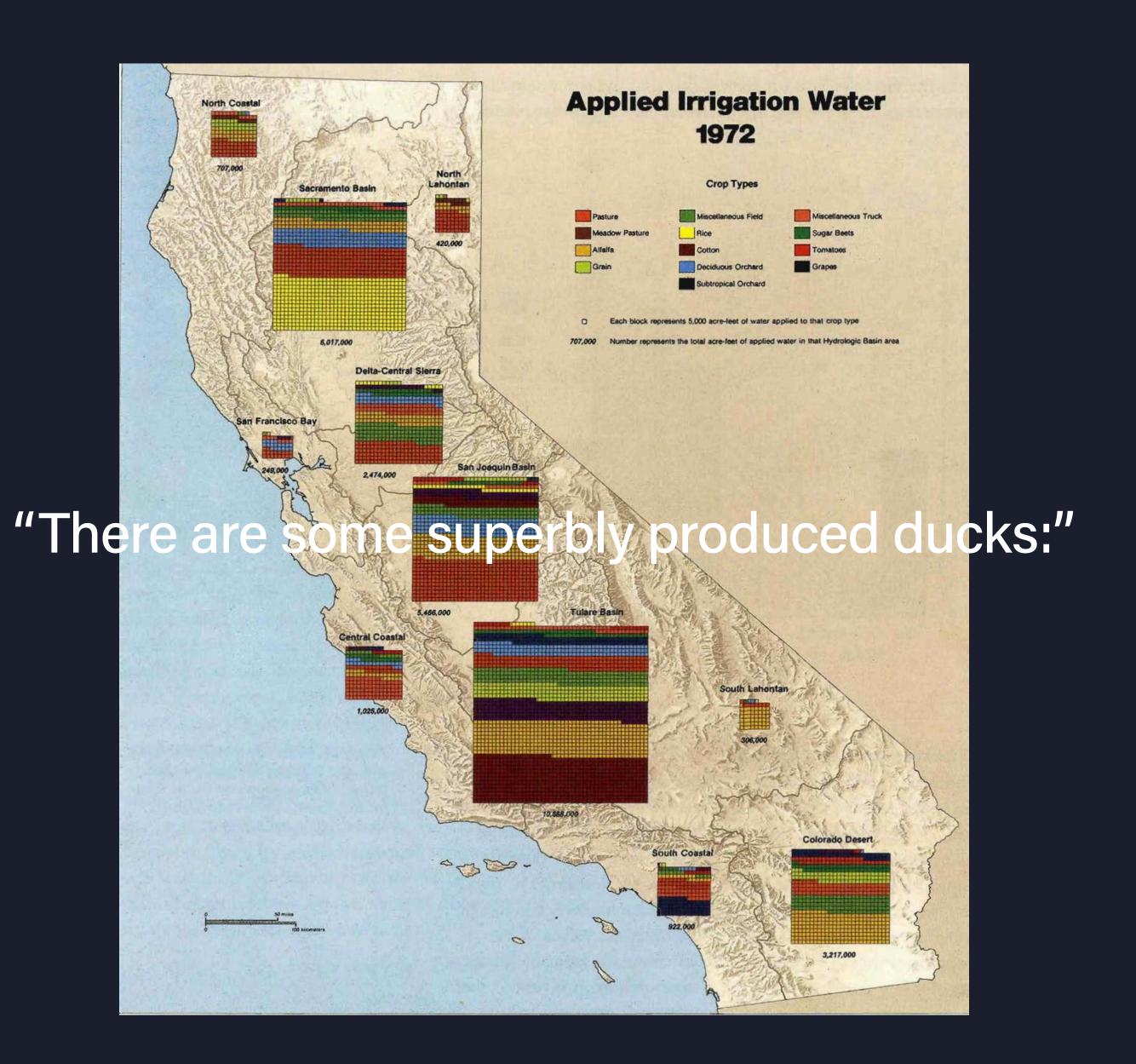
3. The Duck





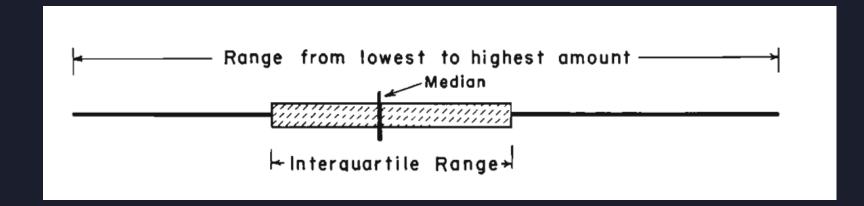


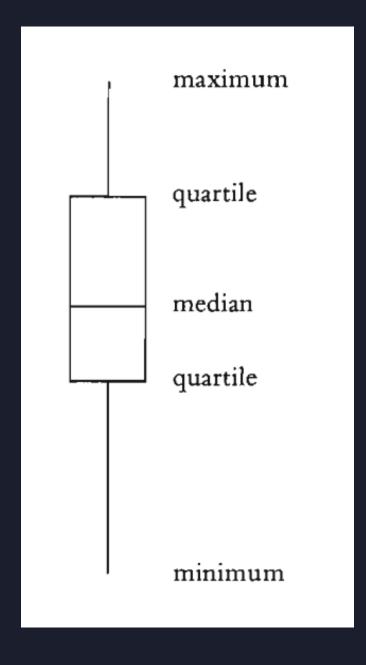
"This may well be the worst graphic ever to find its way into print."

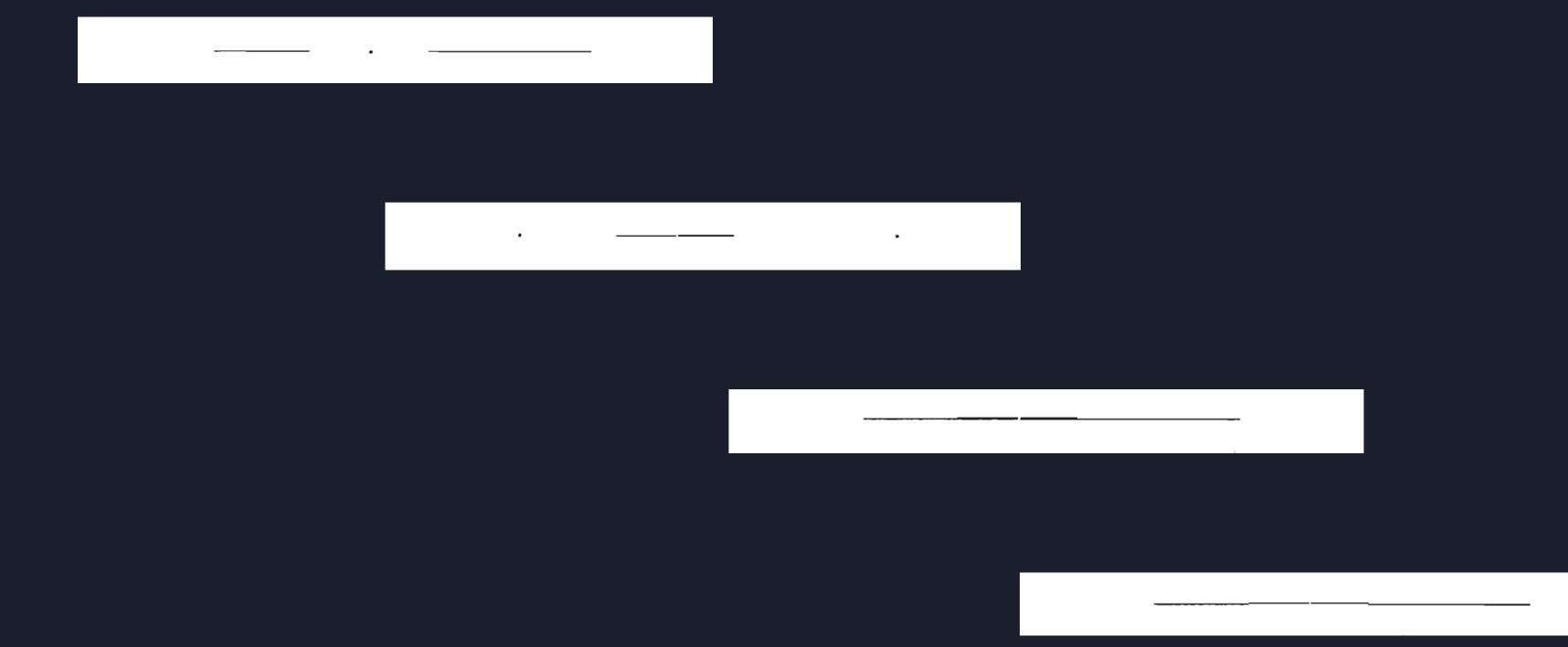


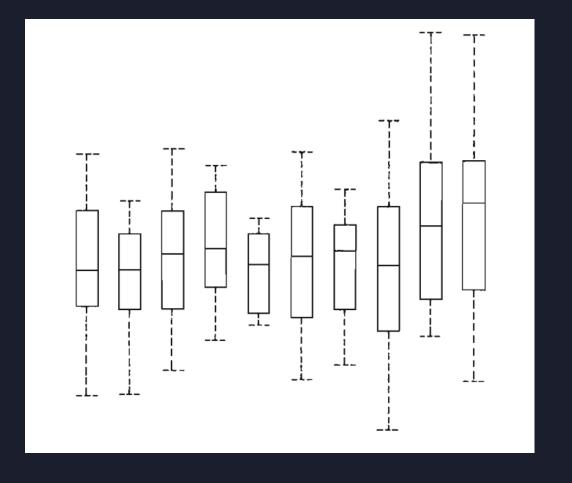
Data-Ink Maximization and Graphical Design

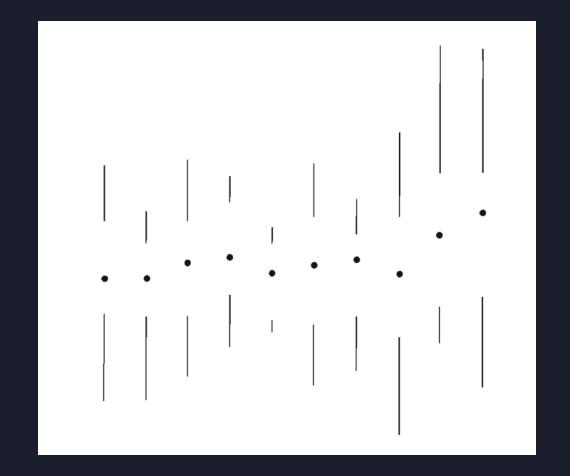
Redesign of Box Plot



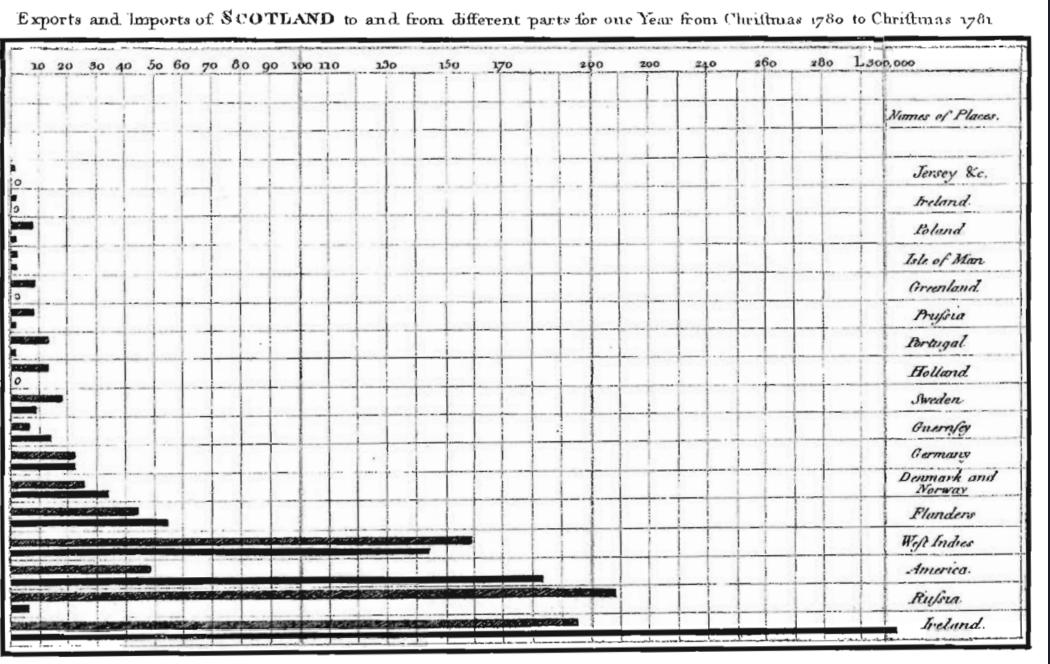






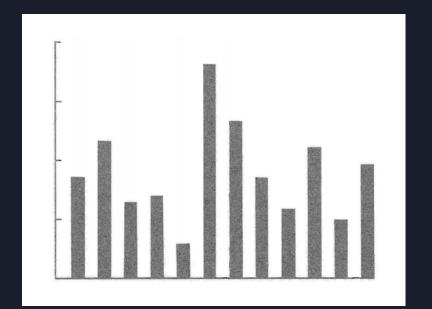


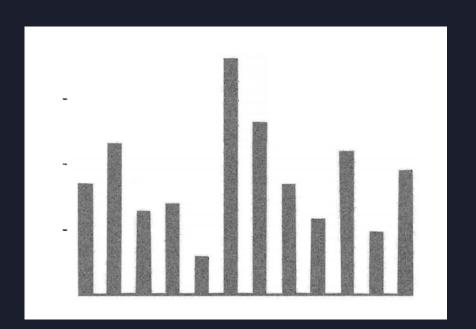
Redesign of Bar Chart

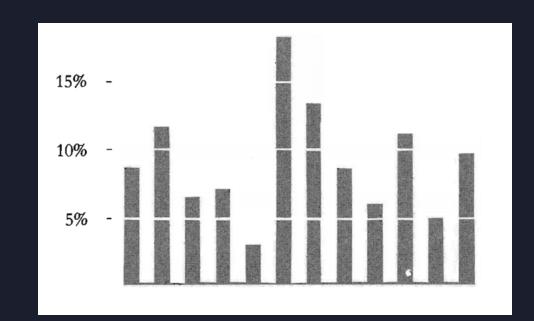


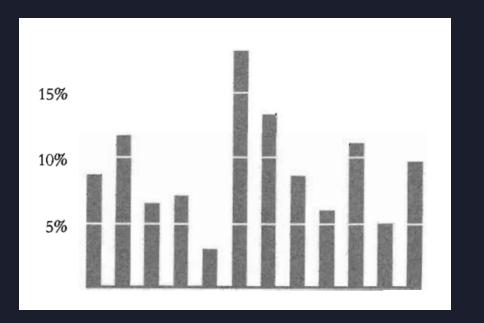
The Upright divisions are Ten Thousand Pounds each. The Black Lines are Exports the Ribbed lines Imports

Outstitud as the Act directs June 7th 17 66 by WITT Playshir

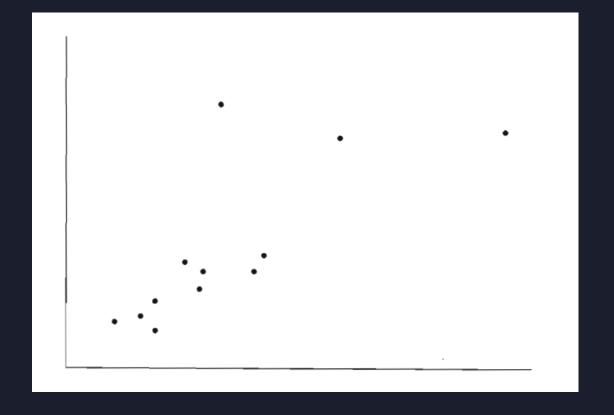




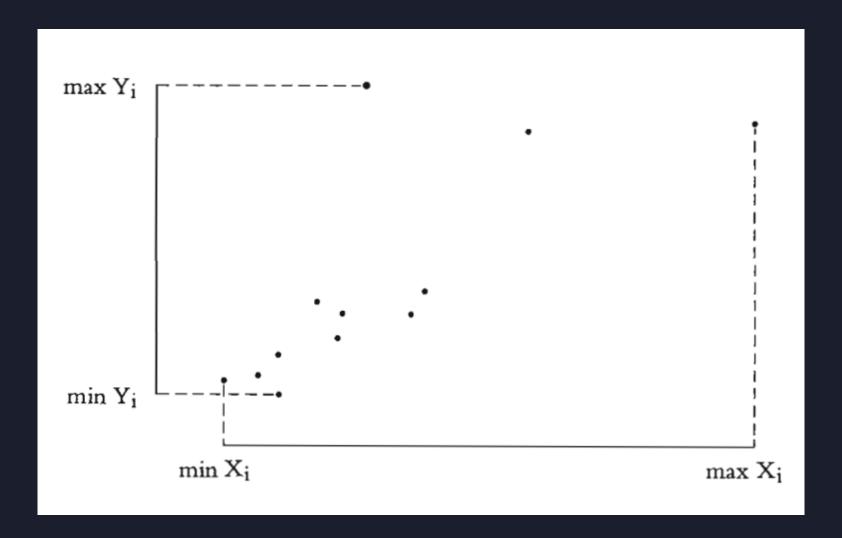


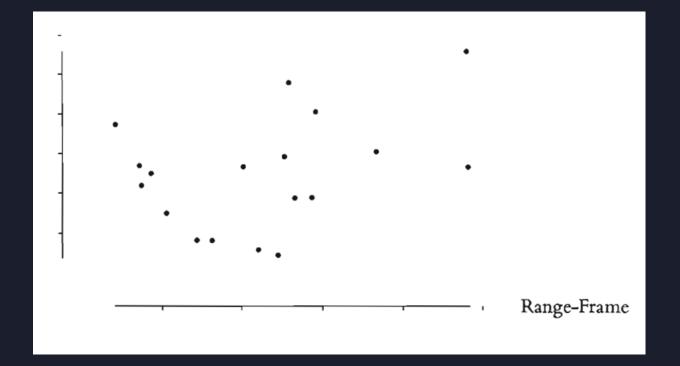


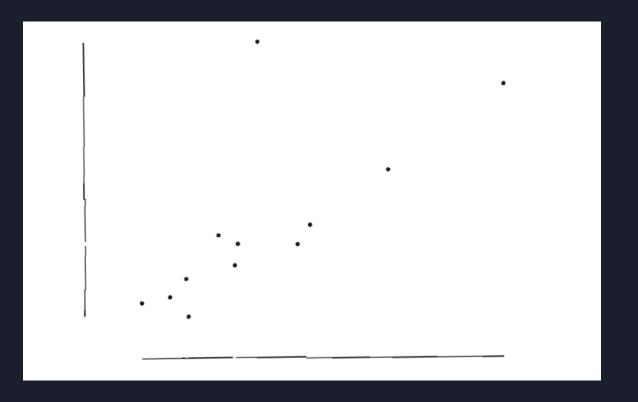
Redesign of Scatterplot

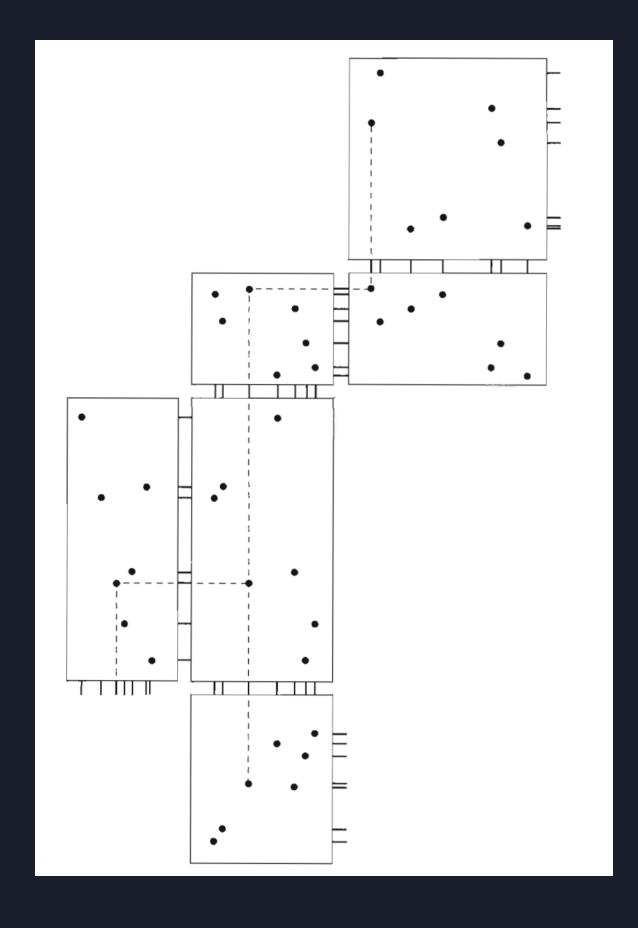












Data-Ink Maximization

- Efficient in communication and production
- Revisions are always part of design
- · New designs may appear odd, but time makes them conventional