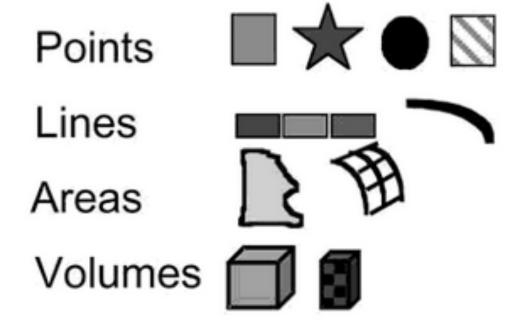
Visual Encodings

datascience@berkeley

Types of Marks



datascience@berkeley

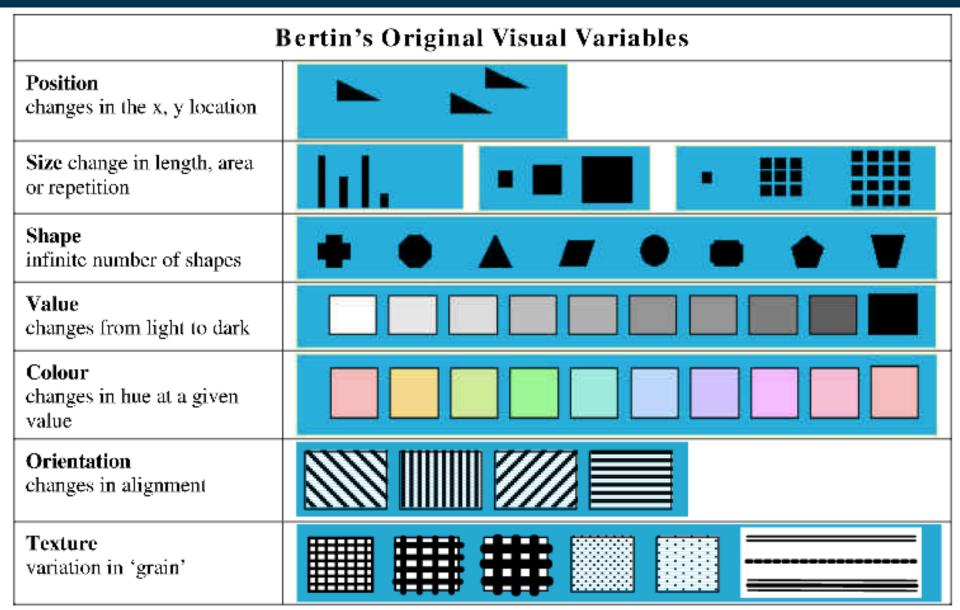
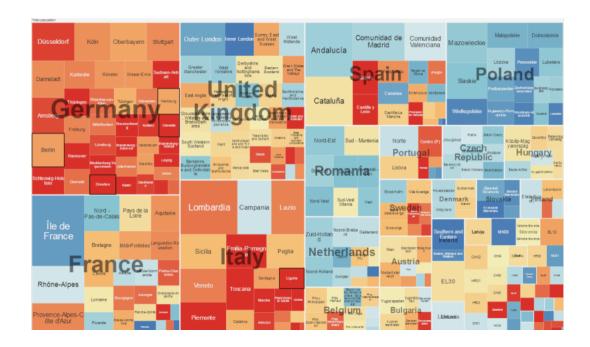


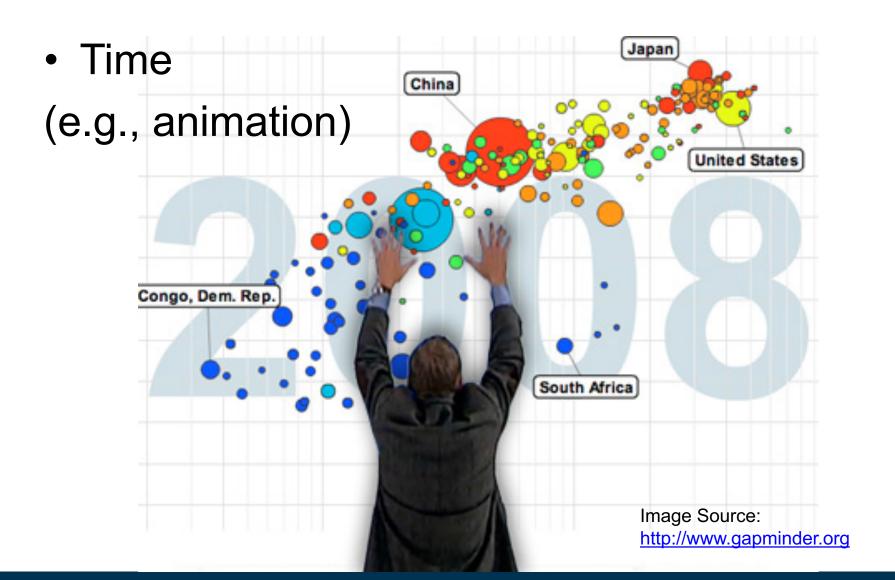
Diagram Source: Carpendale, 2003

Additional Encodings

Enclosure and connection
(e.g., treemaps, network graphs)



Additional Encodings



Berkeley school of information

Dissecting a Visualization

datascience@berkeley

A Process Model

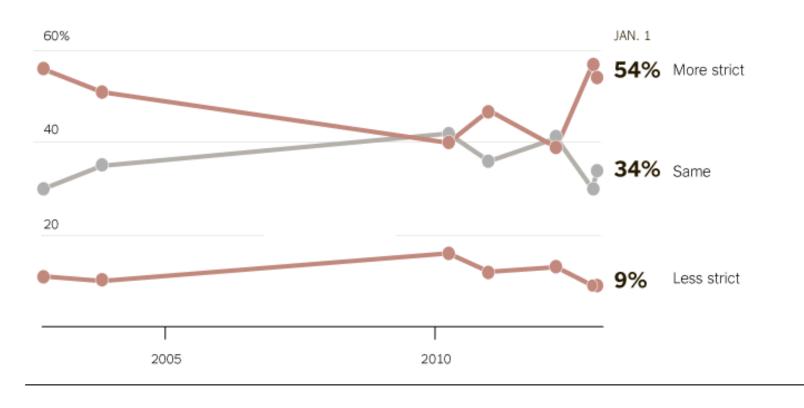
- 1) Decide which variables to map into spatial positions
- 2) Combine mappings (transform as needed)
- 3) Use visual encoding for variables
- 4) Decide on controls for interaction
- 5) Apply attention-reactive features

[Card, 1999]

Americans' Views on Gun Control

The New York Times | CBS NEWS Poll

Should gun control laws be made more strict, less strict, or kept as they are now?



Position

changes in the x, y location

Size change in length, area or repetition

Shape

infinite number of shapes

Value

changes from light to dark

Colour

changes in hue at a given value

Orientation

changes in alignment

Texture

variation in 'grain'

Berkeley school of information