



GESTALT PRINCIPLES

figure/ground

proximity

similarity

symmetry

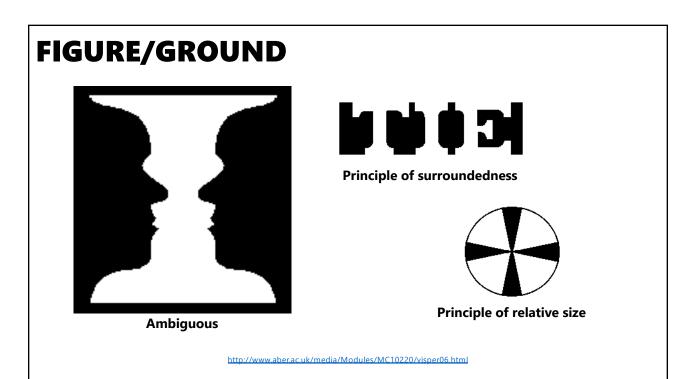
connectedness

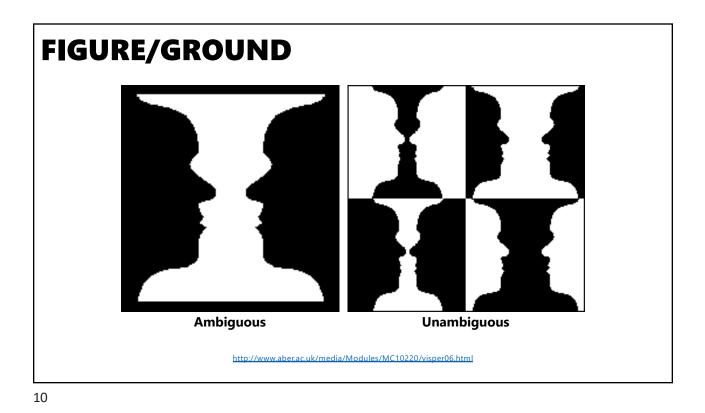
continuity

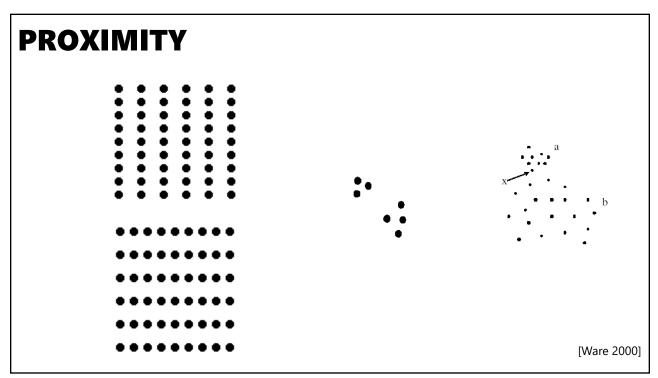
closure

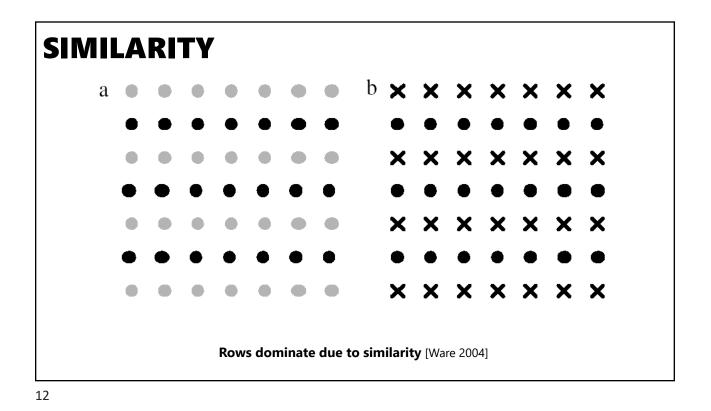
common fate

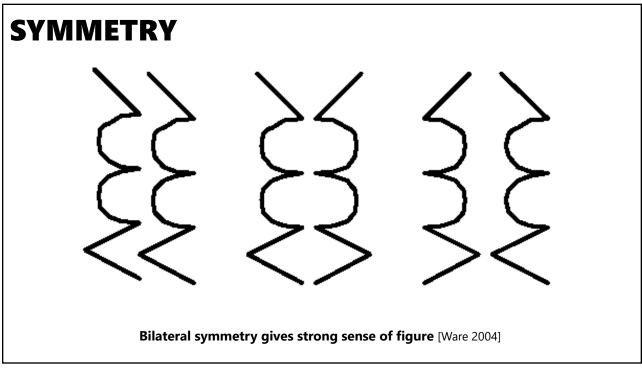
transparency

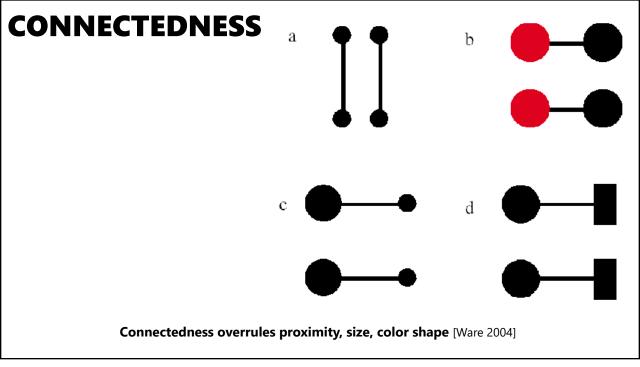


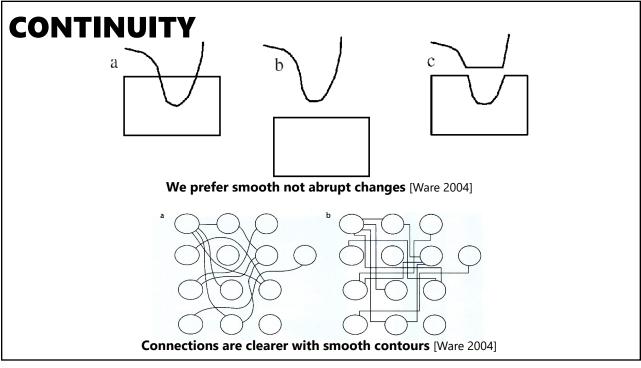


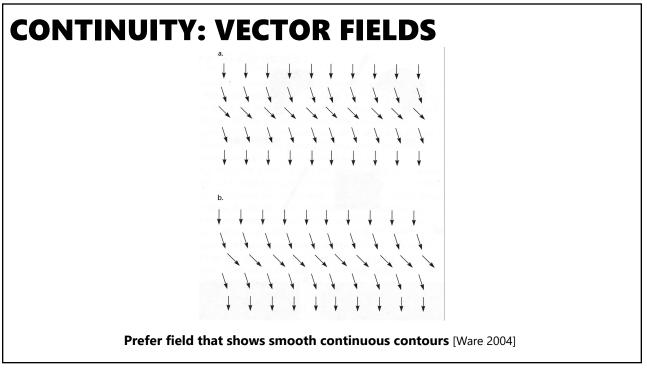


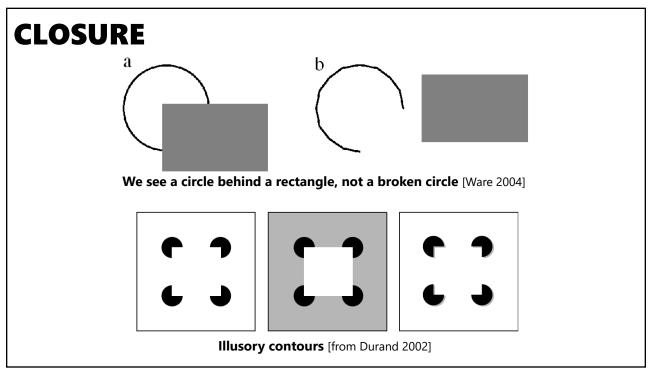


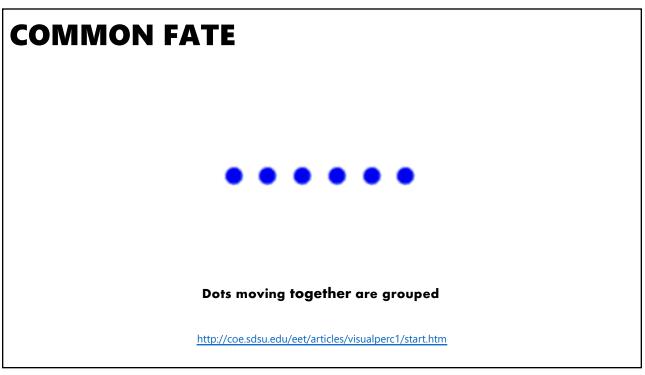


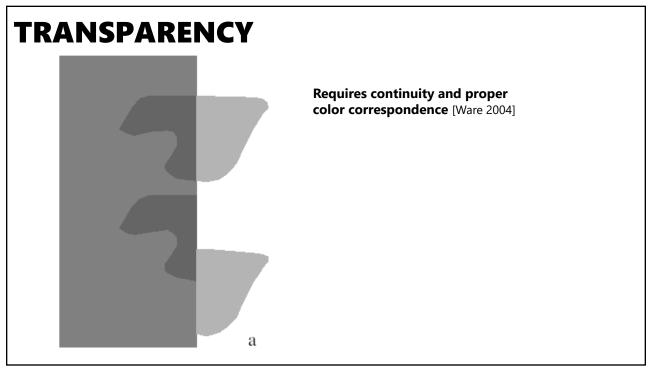




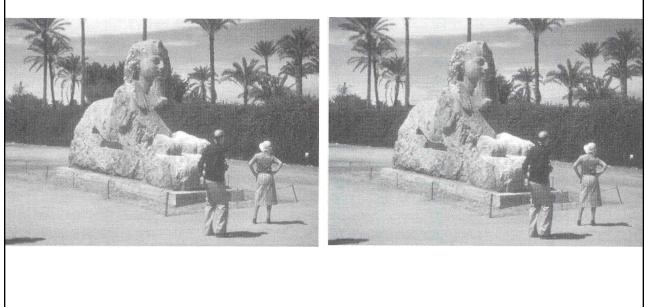




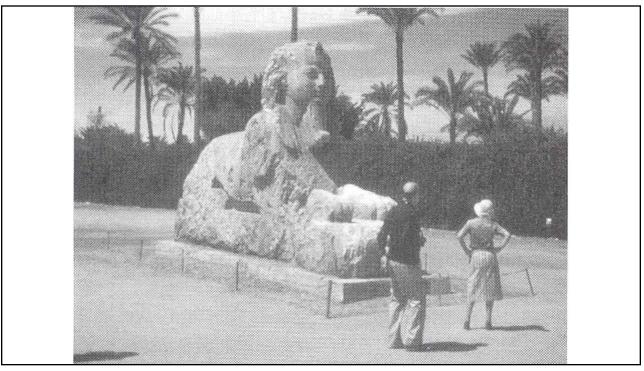


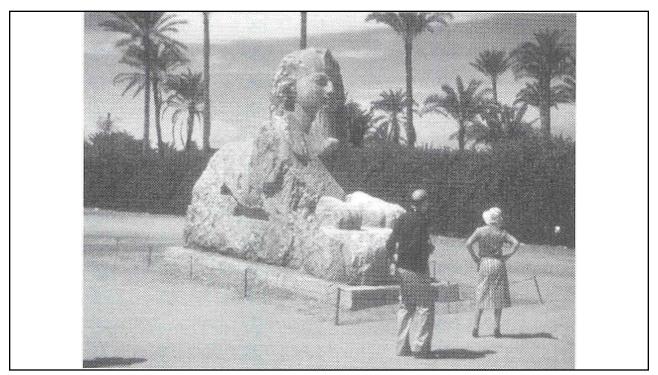


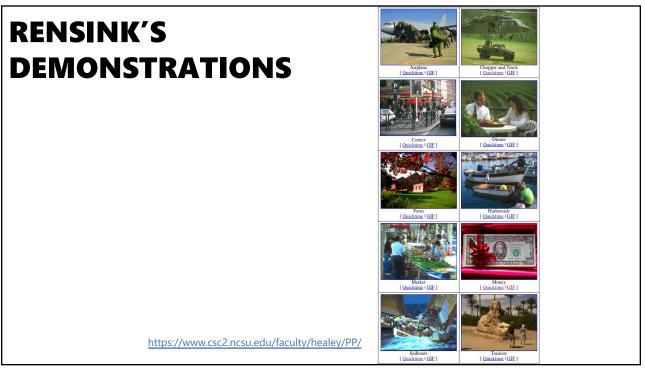




Example from Palmer 1999, originally due to Rock







SUMMARY

Choosing effective visual encodings requires knowledge of visual perception

Visual features/attributes

Individual attributes often preattentive Multiple attributes may be separable, often integral

Gestalt principles provide higher level design guidelines

We don't always see everything that is there



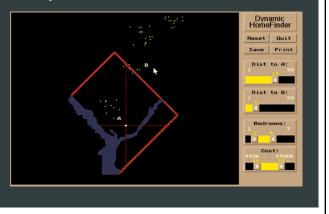
ASSIGNMENT 3: INTERACTION

Due Today

Create a small interactive dynamic query application similar to HomeFinder, but for local software companies data.

- 1. Implement interface
- 2. Submit the application as a website and a short write-up on canvas

Can work alone or in pairs



FINAL PROJECT

Proposal due 11/6 11:30am

Data analysis/explainer

Analyze dataset in depth & make a visual explainer

Deliverables

An article with multiple different interactive visualizations Short video (2 min) demoing and explaining the project

Schedule

Project proposal: Mon 11/6 Design Review and Feedback: 9th week of quarter Final code and video: Sun 12/10 8pm

Grading

TODAY

Groups of up to 3 people, graded individually Clearly report responsibilities of each member

28

Learning Objectives

1. How stories are constructed in journalism and especially with data.

2. Using interactivity and sequencing to visually convey narrative.



ALL MEDIA TELL STORIES

PEOPLE TELL STORIES

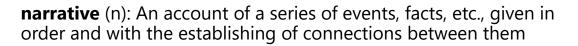
WORDS TELL STORIES

IMAGES TELL STORIES

COMICS TELL STORIES

MOVIES TELL STORIES

VISUALIZATIONS TELL STORIES



"... require[s] skills like those familiar to movie directors, beyond a technical expert's knowledge of computer engineering and science."

- Gershon & Page '01

August 26, 2010

Generals Wary of Move to Cut Their Ranks By GINGER THOMPSON and THOM SHANKER

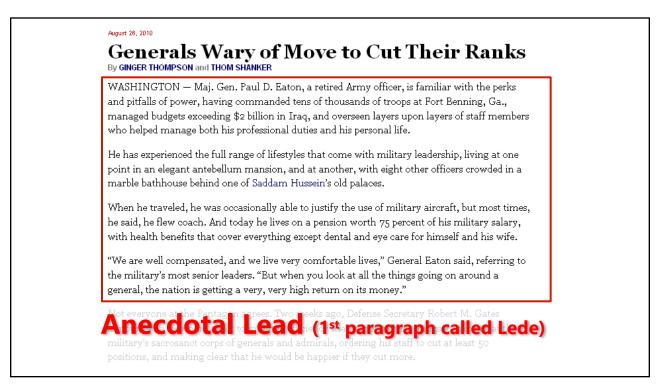
WASHINGTON — Maj. Gen. Paul D. Eaton, a retired Army officer, is familiar with the perks and pitfalls of power, having commanded tens of thousands of troops at Fort Benning, Ga., managed budgets exceeding \$2 billion in Iraq, and overseen layers upon layers of staff members who helped manage both his professional duties and his personal life.

He has experienced the full range of lifestyles that come with military leadership, living at one point in an elegant antebellum mansion, and at another, with eight other officers crowded in a marble bathhouse behind one of Saddam Hussein's old palaces.

When he traveled, he was occasionally able to justify the use of military aircraft, but most times, he said, he flew coach. And today he lives on a pension worth 75 percent of his military salary, with health benefits that cover everything except dental and eye care for himself and his wife.

"We are well compensated, and we live very comfortable lives," General Eaton said, referring to the military's most senior leaders. "But when you look at all the things going on around a general, the nation is getting a very, very high return on its money."

Not everyone at the Pentagon agrees. Two weeks ago, Defense Secretary Robert M. Gates announced a sweeping effort to improve efficiency that, among other things, takes aim at the military's sacrosanct corps of generals and admirals, ordering his staff to cut at least 50 positions, and making clear that he would be happier if they cut more.



August 26, 2010



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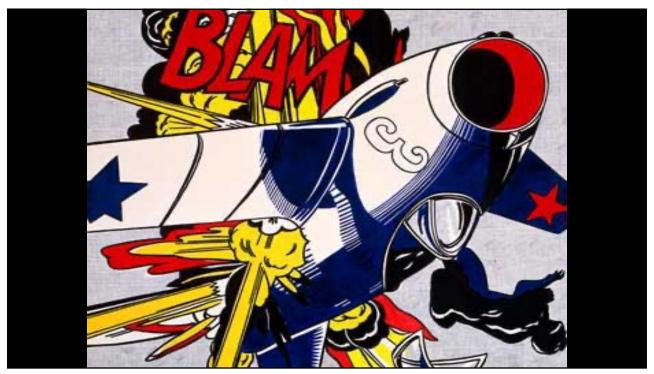
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Montage / editing

- Prescribed order
- Where you look explicitly directed
- Little reader/viewer agency



Ensemble staging / direction

- Less prescribed order
- Salience, structure nudges you to look
- More reader/viewer agency



