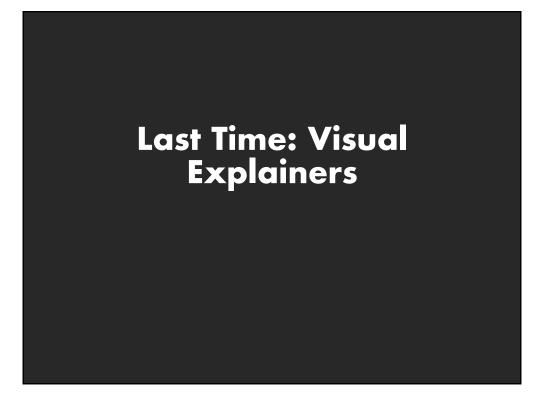
# **Deconstructing Visualizations**

Maneesh Agrawala

CS 448B: Visualization Fall 2018

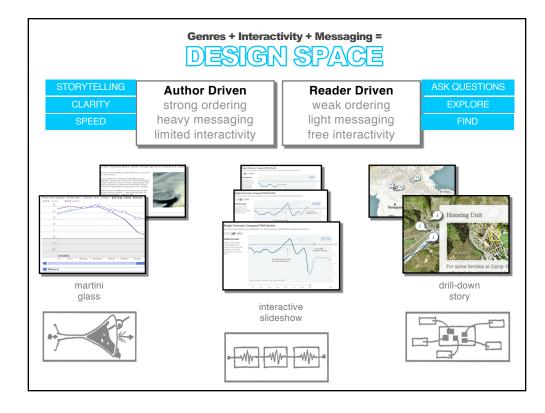


## **Narrative Storytelling**

narrative (n): An account of a series of events, facts, etc., given in order and with the establishing of connections between them

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

- Gershon & Page '01



### Announcements

### **Final project**

#### New visualization research or data analysis

- Pose problem, Implement creative solution
  - Design studies/evaluations

#### Deliverables

- Implementation of solution
- 6-8 page paper in format of conference paper submission
- Project progress presentations

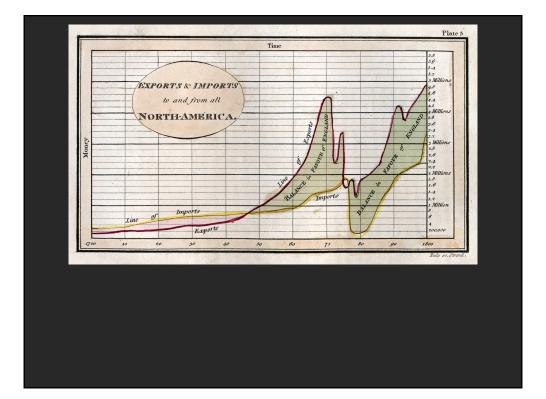
#### Schedule

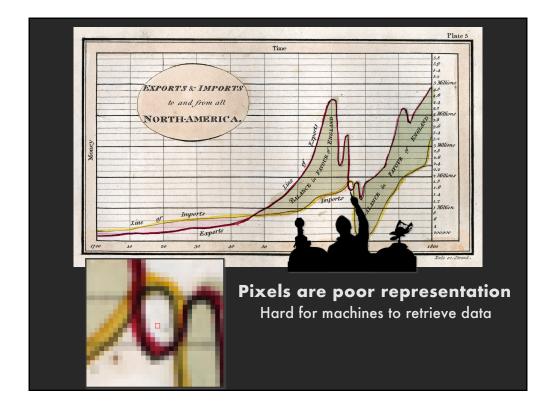
- Project proposal: Mon 11/5
- Project progress presentation: 11/12 and 11/14 in class (3-4 min)
- Final poster presentation: 12/5 Location: Lathrop 282
- Final paper: 12/9 11:59pm

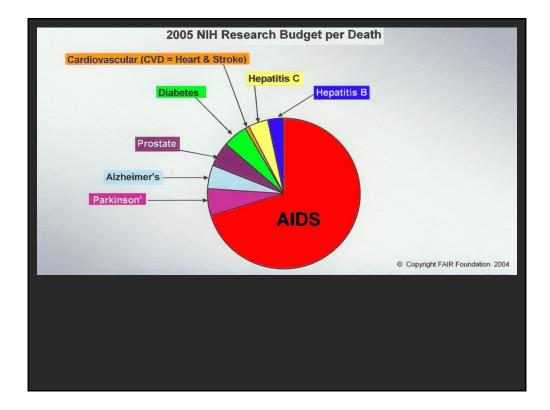
#### Grading

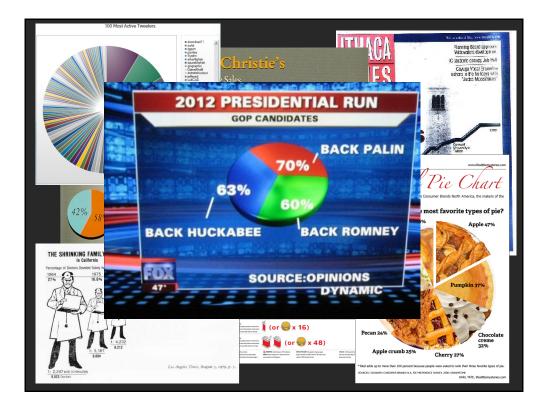
- Groups of up to 3 people, graded individually
- Clearly report responsibilities of each member

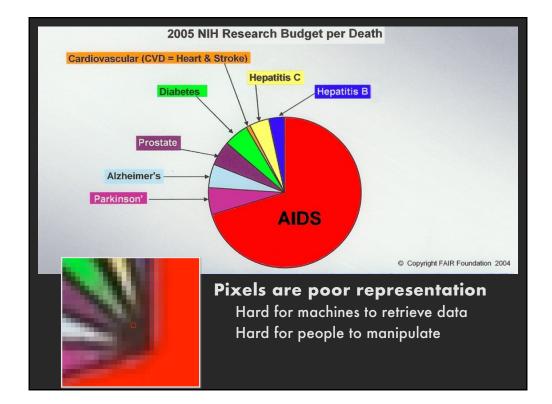


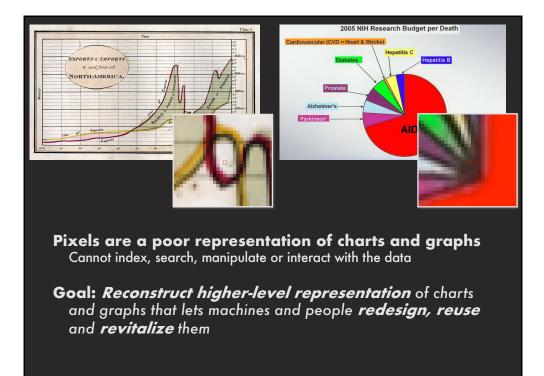




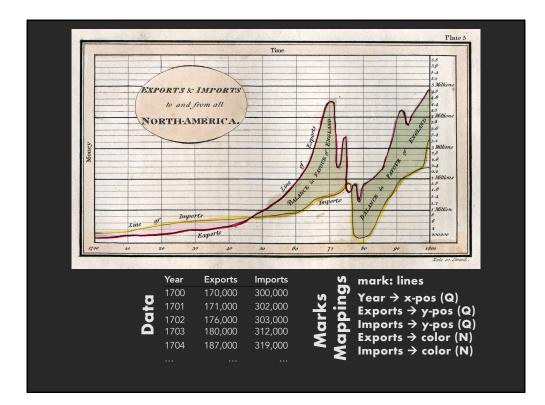


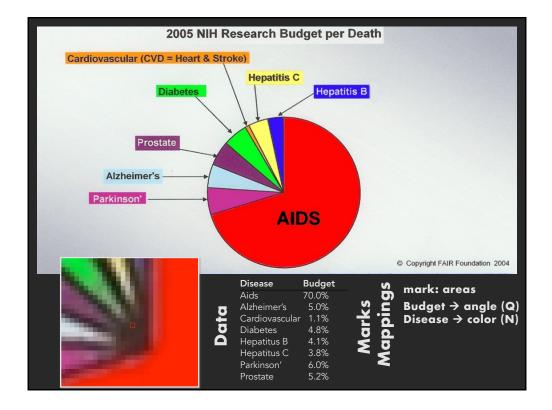


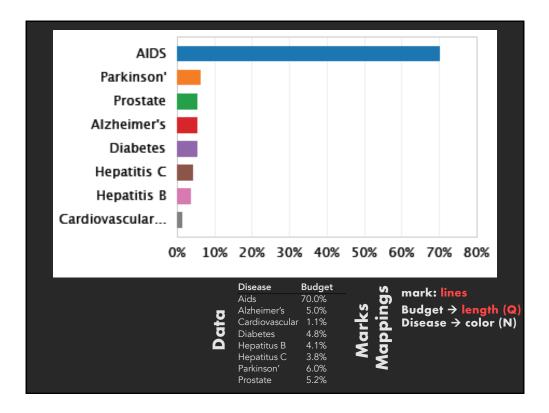






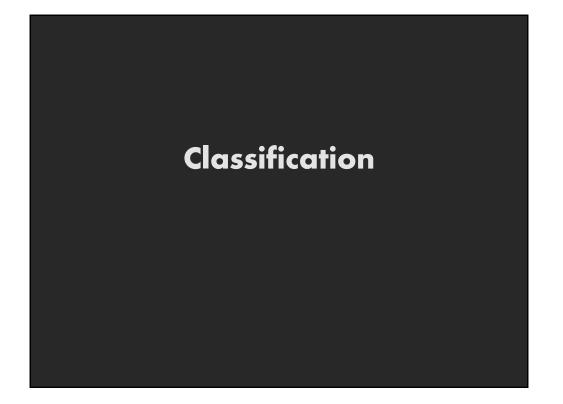


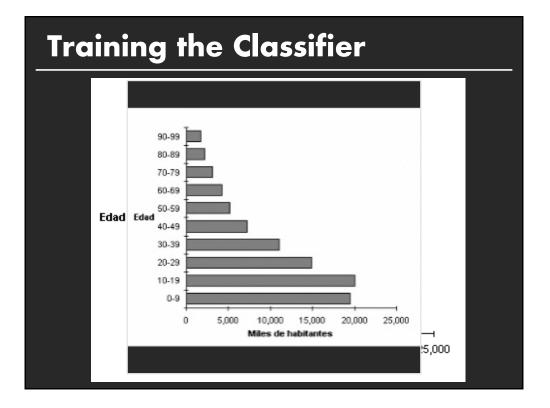


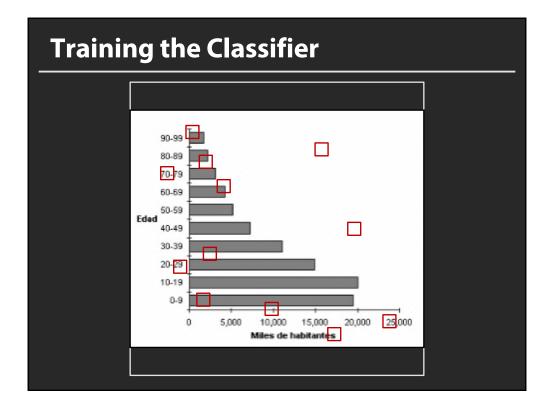


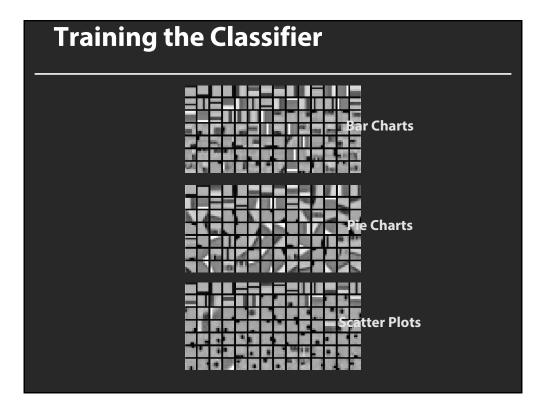
# Approach

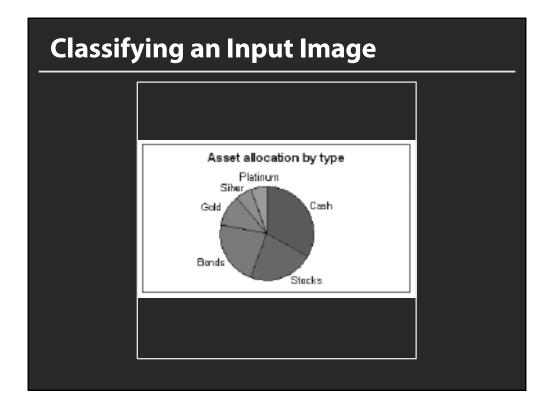
**Classification:** Determine chart type **Mark extraction:** Retrieve graphical marks **Data extraction:** Retrieve underlying data table

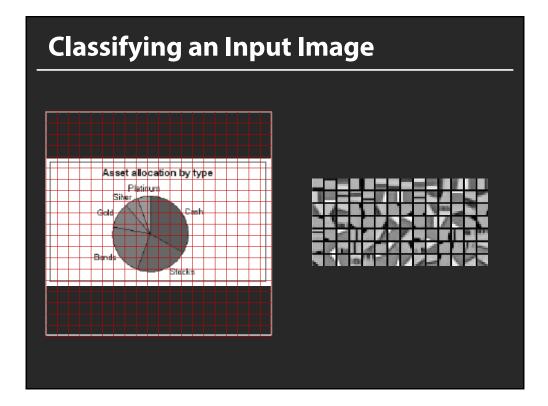


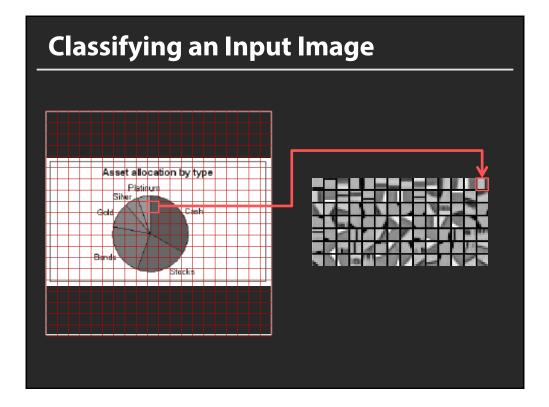


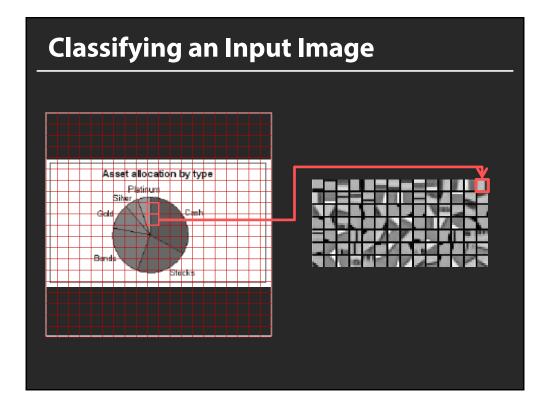


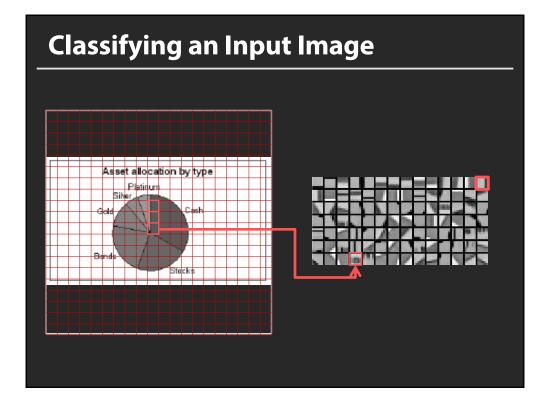


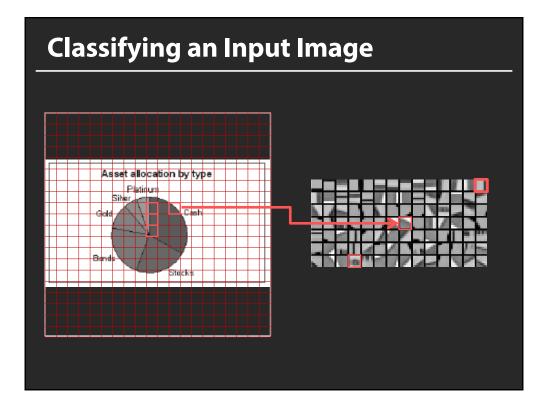


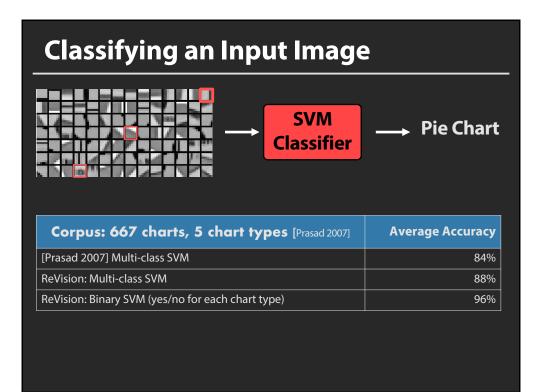


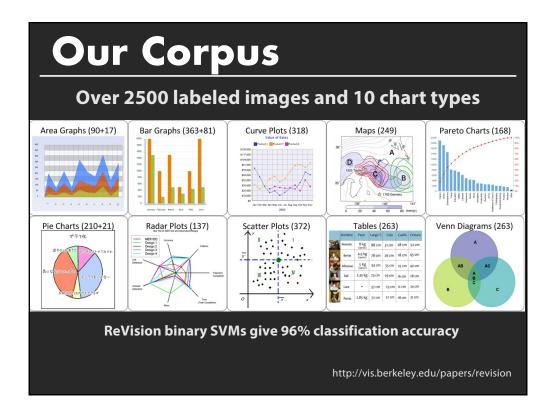








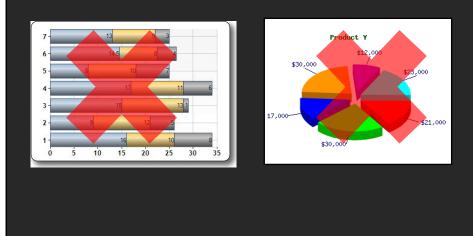


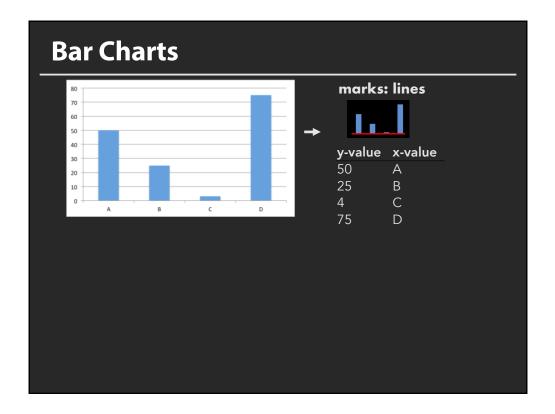


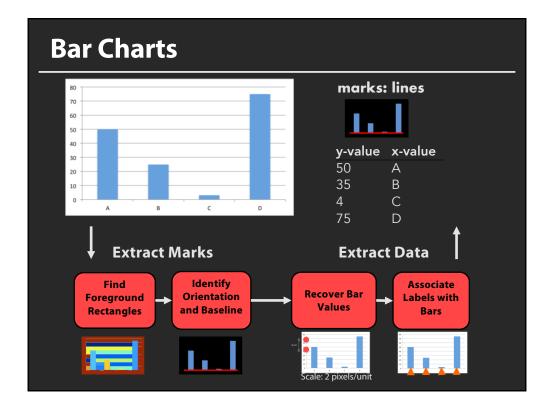


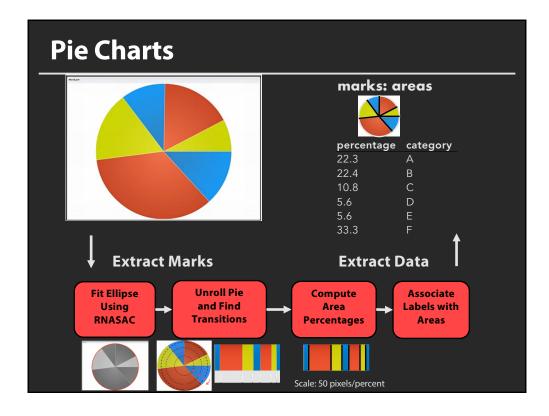
### Assumptions

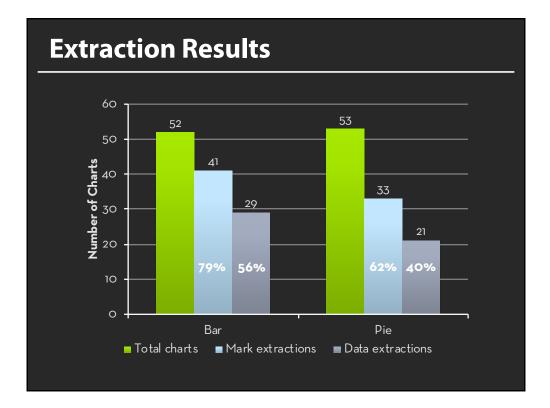
Bar charts and pie charts only No shading or texture, 3D, stacked bars, or exploded pies



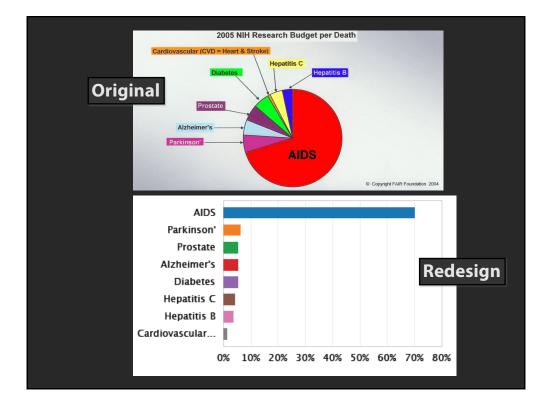


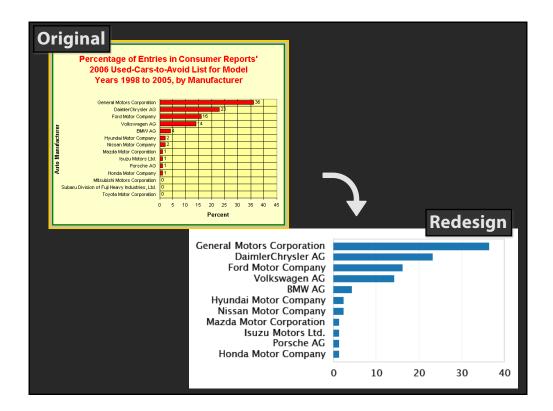


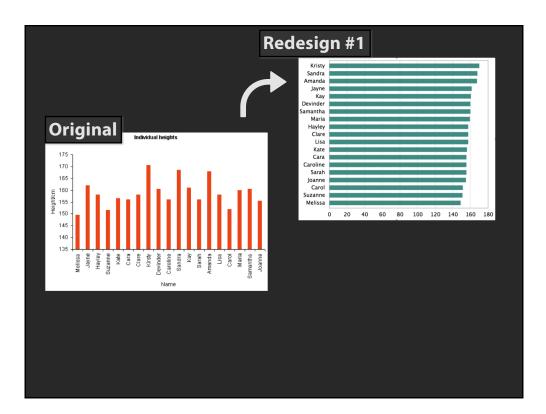


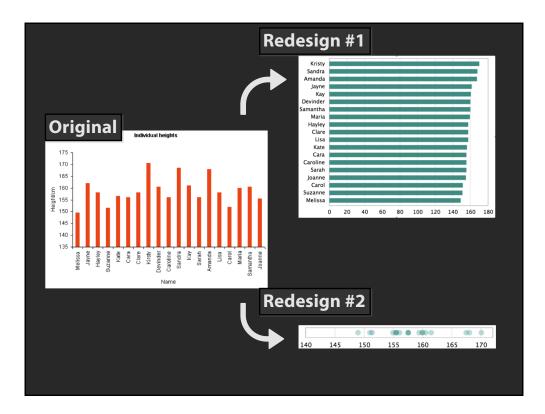


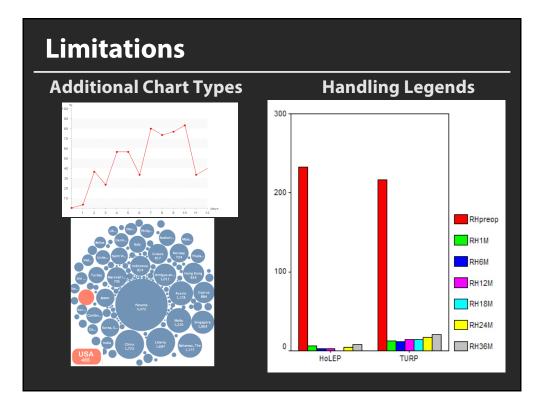


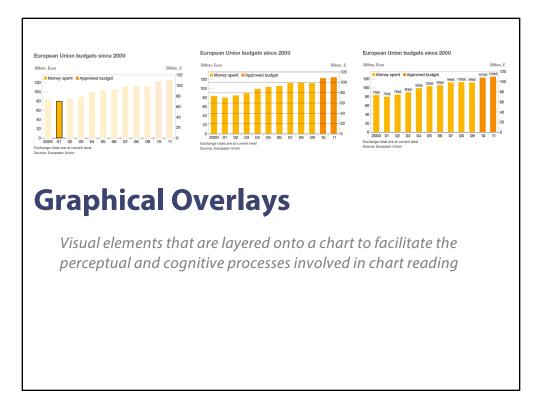


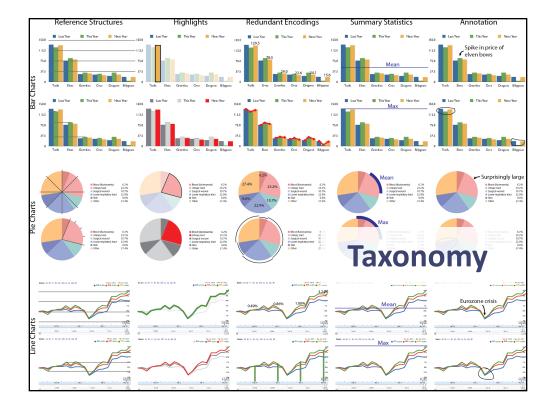


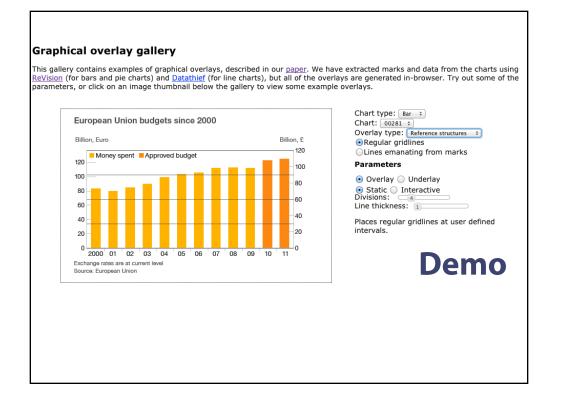


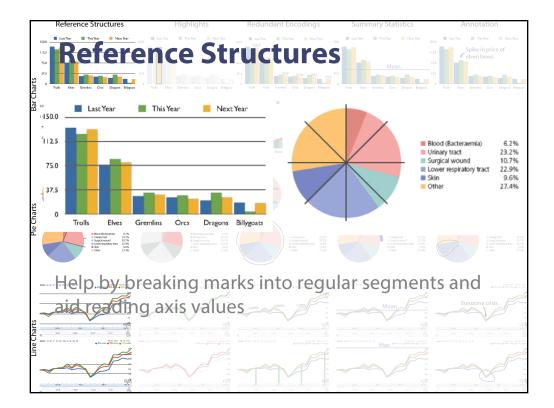


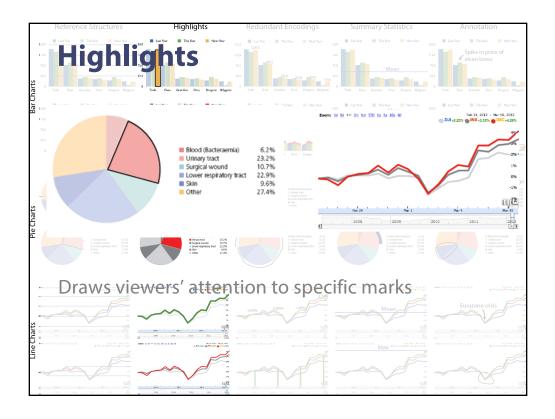


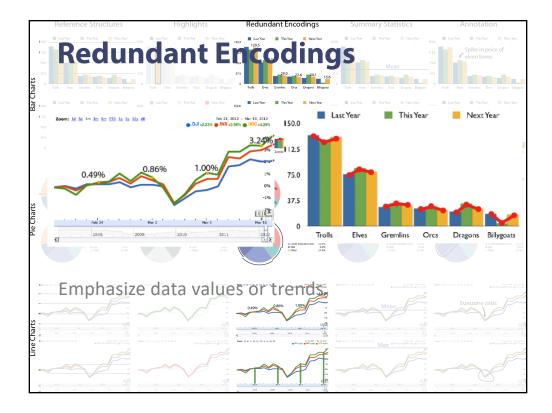


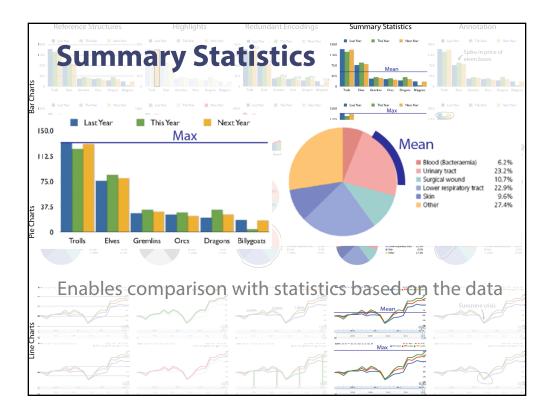


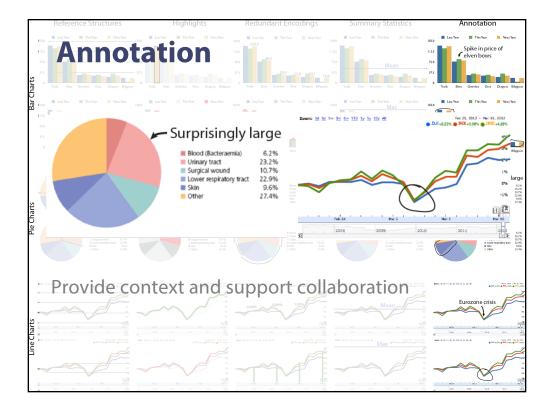


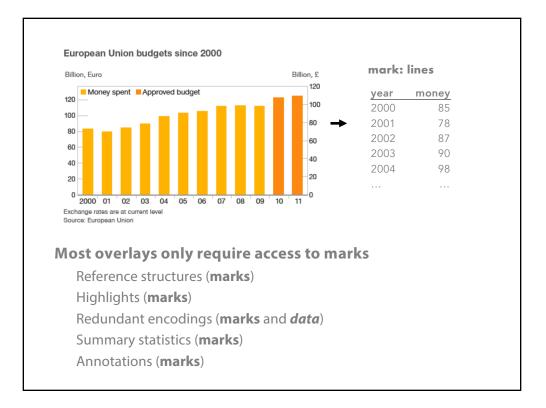




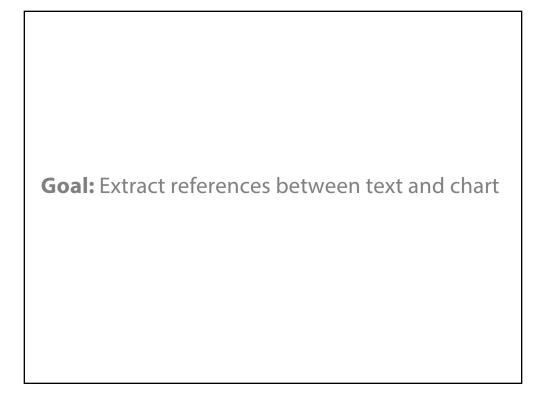












**Problem:** Diversity of writing styles

