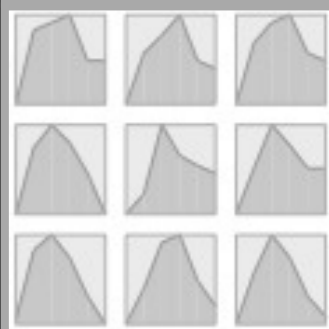
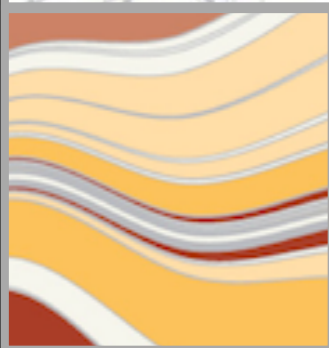
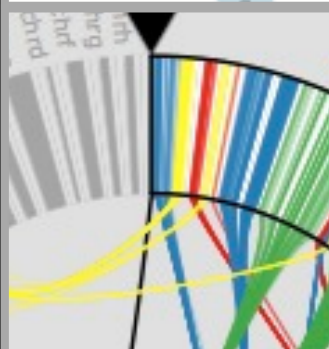
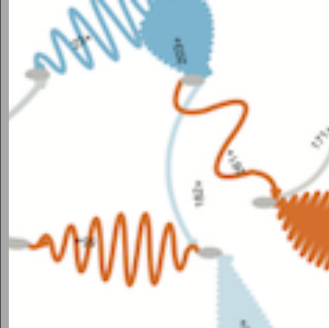


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# DATA & TASK ABSTRACTION 2

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*University of Utah*



administrivia

**-for final projects that have been approved, email me:**

- working title
- group member names
- two or three sentence description

LAST TIME

# ITEM REDUCTION METHODS

## **-filtering and navigation**

- leave some things out

## **-aggregation**

- merge things together

## **-overviews**

- temporal through navigation
- separate dedicated view
- focus + context
  - *selective filtering*
  - *geometric distortion*
  - *distortion costs/benefits*

change of plans...

# THE SMARTPHONE CHALLENGE

# part 1

## **-find a partner**

## **-decide on a question for the challenge**

-think of some sort of question that makes use of the spatial, temporal, and relational aspects of the data

- *How connected or disjoint are the neighborhoods of SLC?*
- *Where are the most popular places to hang out?*
- *How do my social habits compare to other SLC residents?*
- *I'm tired of being single: who might be the best match-makers in town?*



# part 2

## -create a data and task abstraction

- What are the subquestions you need to address in order to answer your challenge question?
- What kinds of visualization analysis tasks are these subquestions?
- What classes of change will support these tasks?
  
- What additional data besides the SmartPhoneSLC records do you need to collect?
- What sorts of derived data do you need to create?
- What are the data types, dataset structure, and semantics of your data?

# part 3

- pair up with another group**

- talk about your questions**

- Can you create a bigger, more encompassing challenge question that is interesting to all group members?

# part 4

- create a new, more refined data and task abstraction**
- prepare to present your abstraction to the class**
- each group gets four minutes to present abstraction**

# part 5

- each person needs a copy of the abstraction**
  - assign one person to bring the abstraction to the next class
  - put each group member's name on the abstraction
- sketch three different visualization system ideas**
- pick one and describe and justify design**
- bring sketches and prose with you to the next class**