DATA & TASK ABSTRACTION 2

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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