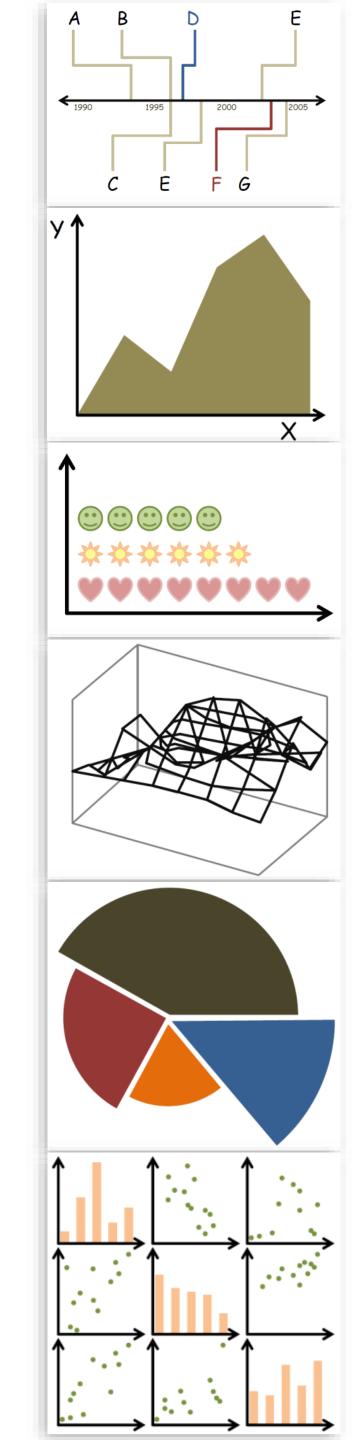


Lecture 8: Altair, Tasks

CS 7250
SPRING 2021
Prof. Cody Dunne
Northeastern University



CHECKINGIN

Including about projects

PREVIOUSLY, ON CS 7250...

Attribute Types

(nominal)

→ Categorical









e.g., fruit (apple, pear, grape), colleges (CAMD, Khoury, COE) → Ordered





e.g.,
sizes (xs, s, m, l, xl),
months (J, F, M)

→ Quantitative (continuous)



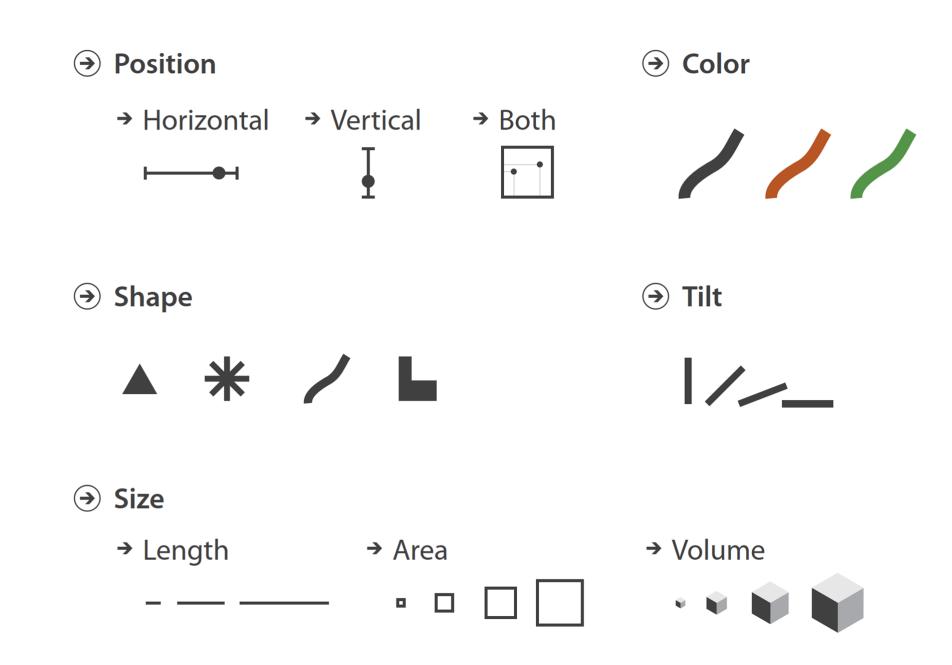
e.g., lengths (1', 2.5', 5'), population

Visualization Building Blocks

MARK:



CHANNEL:



D3 TUTORIAL



Now, on CS 7250...

IN-CLASS PROGRAMMING — SOUTH END ALTAIR

~25 min total (TBD)

PREVIOUSLY, ON CS 7250...

Analysis

What? DATA ABSTRACTION Why? TASK ABSTRACTION How? VISUAL ENCODING

TASK ABSTRACTION

Why abstract?

Avoids domain

specific terms thus

other cases (broadly

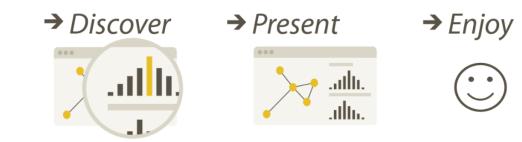
applicable results).

easier to apply to

Targets

Analyze

→ Consume



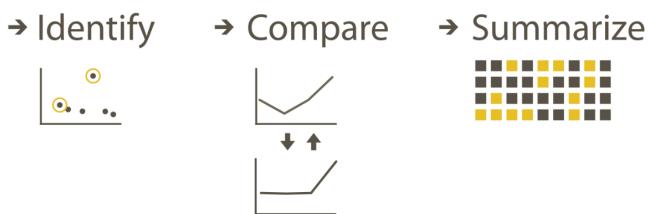
→ Produce



→ Search

	Target known	Target unknown
Location known	·.·· Lookup	• Browse
Location unknown	⟨¹.⊙.> Locate	<: O: Explore

Query

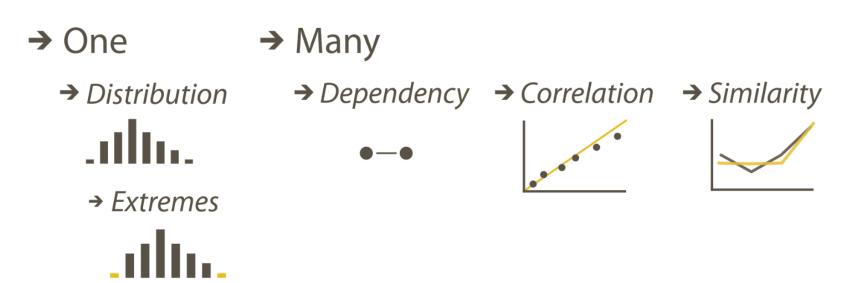


→ All Data

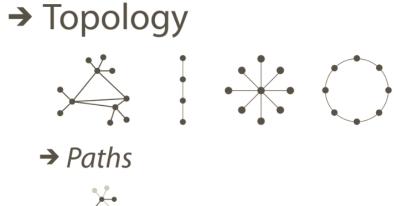
Why?

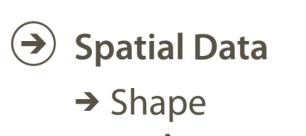


→ Attributes



→ Network Data



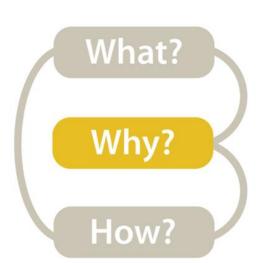




What?

Now, on CS 7250...

IN-CLASS EXERCISE: Mock Interview, Task Analysis



Task Analysis

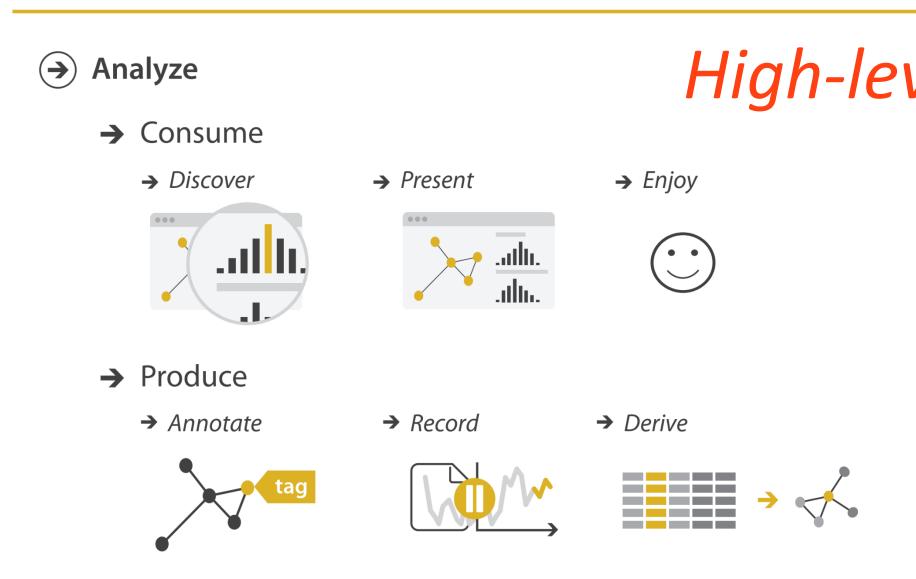
Visualization for Public Transit Development

20m

INSTRUCTIONS:

- We will break you into groups of ~3 on Zoom.
- Pretend you are transportation engineers, e.g., for the MBTA, City of Boston.
- Discuss the user tasks and goals and abstract them using the taxonomy from VAD (right, Fig. 3.2).
- Save your notes & group members for a later exercise!!!

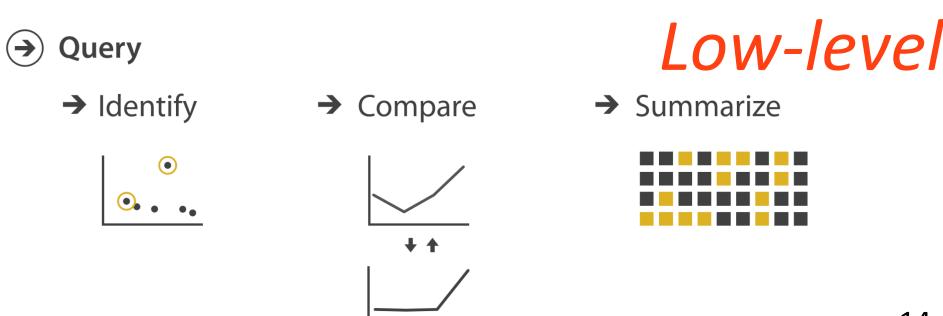




Search

Mid-level

	Target known	Target unknown
Location known	• • • Lookup	• Browse
Location unknown	C. D. Locate	< Explore



Upcoming Assignments & Communication

https://northeastern.instructure.com/courses/63405/assignments/syllabus

Look at the upcoming assignments and deadlines regularly!

- Textbook, Readings, & Reading Quizzes Variable days
- In-Class Activities 11:59pm same day as class

T: Lecture

F: Lecture, in-class design following up on today

T: Lecture

F: In-class project feedback meetings & work

Assignments & Projects — Generally due R 11:59pm

R (6 days): Assignments 6a (Altair) and 6b (critique)

Next R (13 days): Assignment 7 (D3 Events)

Next-next R (20 days): Project 3 — Interview & Task Analysis

Everyday Required Supplies:

- 5+ colors of pen/pencil
- White paper
- Laptop and charger

Use Canvas Discussions for general questions, email the TAs/S-LTA/instructor for questions specific to you: ccs.neu.edu. Include links!