

## Lecture 8: Altair, Tasks

CS 7250<br>Spring 2021<br>Prof. Cody Dunne<br>Northeastern University



# Checking In 

Including about projects

## Previously, on CS 7250...

## Attribute Types


$\rightarrow$ Ordered
$\rightarrow$ Ordinal $\quad \rightarrow$ Quantitative (continuous)

$\qquad$
e.g., lengths ( $1^{\prime}, 2.5^{\prime}, 5^{\prime}$ ), population

## Visualization Building Blocks

MARK:


## Channel:



## D3 TUTORIAL

# Now, on CS 7250... 

# IN-CLASS PROGRAMMING - 



## Previously, on CS 7250...

## Analysis

## What?

## Why?

Task Abstraction

How?

Data Abstraction

VISUAL ENCODING

## Task Abstraction

(6) Targets
Why abstract?
Avoids domain
specific terms thus
easier to apply to
other cases (broadly
applicable results).


# Now, on CS 7250... 

In-CLASS EXERCISE:

Mock Interview, Task Analysis

# Task Analysis 

## Visualization for Public Transit

 Development
## INSTRUCTIONS:

$$
20 \mathrm{~m}
$$

- We will break you into groups of $\sim 3$ 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!!!

$\Theta$ Search

|  | Target known | Target unknown |
| :---: | :---: | :---: |
| Location known | - . ${ }^{\text {- }}$ Lookup | - Browse |
| Location unknown | < ${ }^{\circ}$. ${ }^{\text {P }}$ Locate | < ${ }^{\circ}$ - ${ }^{\text {a }}$ - Explore |

$\Theta$ Query
$\rightarrow$ Identify

$$
\rightarrow \text { Compare }
$$

Low-level
$\rightarrow$ Summarize
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## 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: codydunne-and-tas@ccs.neu.edu. Include links!

