

DS2000

3/28 - Tues.

### Admin

- HW7 due Fri 9pm
- HW8 (re do) opens Fri 3/31, due 4/7
  - no late submissions
- upload HW8
- new score on original HW
- no class on Fri! 3/31

### Agenda

1. Recommendation Systems
2. Design classes
3. Python

# 1. Recommendation Systems

↳ Data Science: the more data, the better the recommendation

ex: Netflix - what show to watch next ★

Insta - accounts to follow

Amazon - products to buy

Indeed - jobs to apply for

Spotify - playlists to listen to

All use different algorithms to make recs

All use lots of data

All try to mimic real life

## DS2000 Rec. System

Context: TV Shows

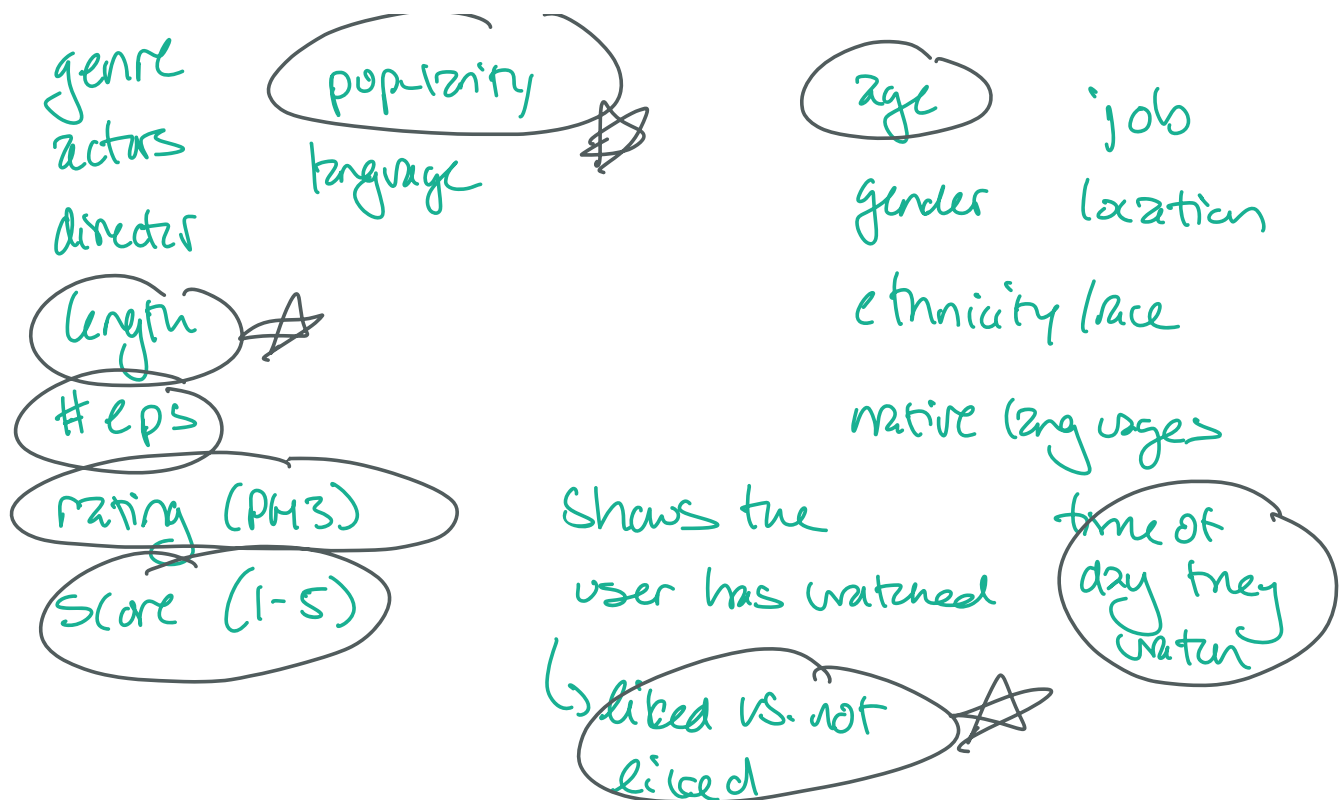
Rec what Larry should watch next

Improvement over real systems → any platform!

Start: What data do we need?

• About shows

• About users



numerical

↳ did you click it?

↳ ease of implementation

Info we have about a show:

- popularity (1-10)
- length (# mins of one ep)
- indiv rating (1-10) → one person

Algorithm

- collect data on shows/people
- Ask Larry about a show she recently watched

- get pop, length, rating of that show
- 
- Recommend shows with similar length, pop and good rating

Content-based filtering