Recommender Systems

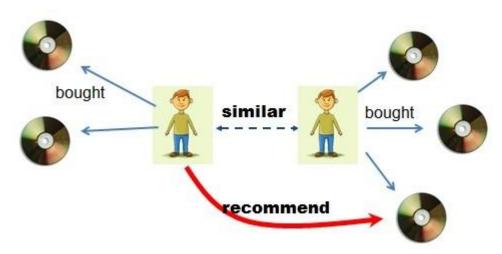
How filtering is used to predict user preferences

Collaborative filtering vs. Content-Based filtering

- Collaborative filtering: People who liked the same things you liked also like
- Content-based filtering: If you like this item, check out _____ item
- Collaborative filtering typically more complex
 - User sentiment
 - Unsupervised learning

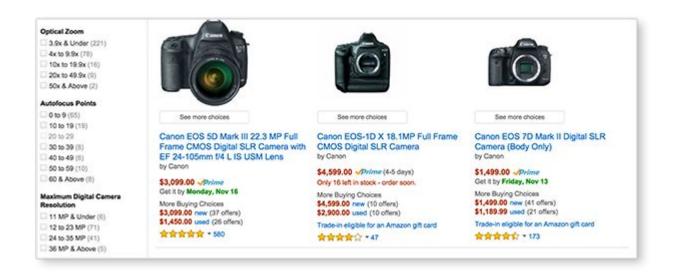
Collaborative filtering

- Netflix/Yelp (uses user feedback on a particular product)
- Item-item: People who liked this item also liked ______
- User-item: People similar to you liked _____



Item-Item Content-Based Systems

- Neighborhood Methods (k-means)
- Ignores user attributes



User-Item Collaborative Systems

- Calculate distance between people based on ratings
- Find the people who are most similar to one another

Customers Who Bought This Item Also Bought



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Companies using recommender systems









Thank you.