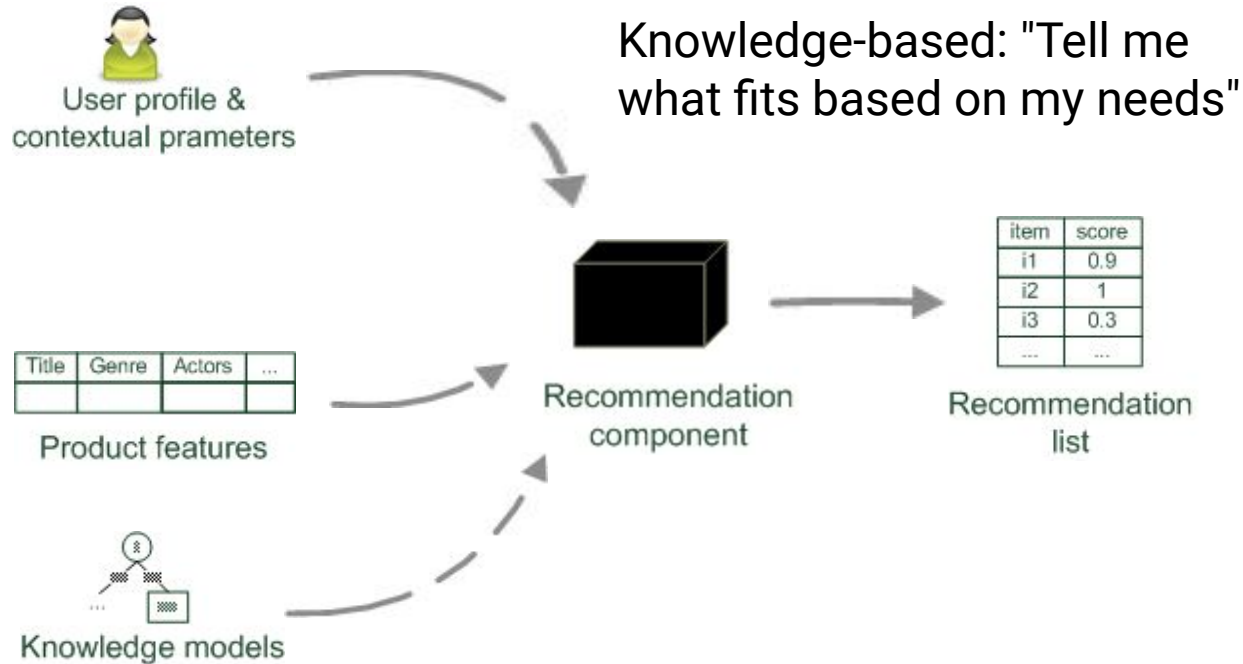


Knowledge Based Recommender Systems

Knowledge Based Recommender Systems



Why do we need knowledge-based recommendation?

- Products with low number of available ratings



- Time span plays an important role
 - five-year-old ratings for computers
 - user lifestyle or family situation changes
- Customers want to define their requirements explicitly
 - "the color of the car should be black"

Knowledge-based recommender systems

- Constraint-based
 - based on explicitly defined set of recommendation rules
 - fulfill recommendation rules
- Case-based
 - based on different types of similarity measures
 - retrieve items that are similar to specified requirements
- Both approaches are similar in their **conversational** recommendation process
 - users specify the requirements
 - systems try to identify solutions
 - if no solution can be found, users change requirements