

popular attributes

cables chart child

long-sleeve

adult

amigurumi

newborn-size

baby bottom-up

circle-shaped eyelets female fitted in-the-round

one-piece

buttoned

phototutorial

buttonholes

positive-ease

3-dimensional

992

Top 20

Yongbao by Sue Grandfield

browse patterns in this order ...

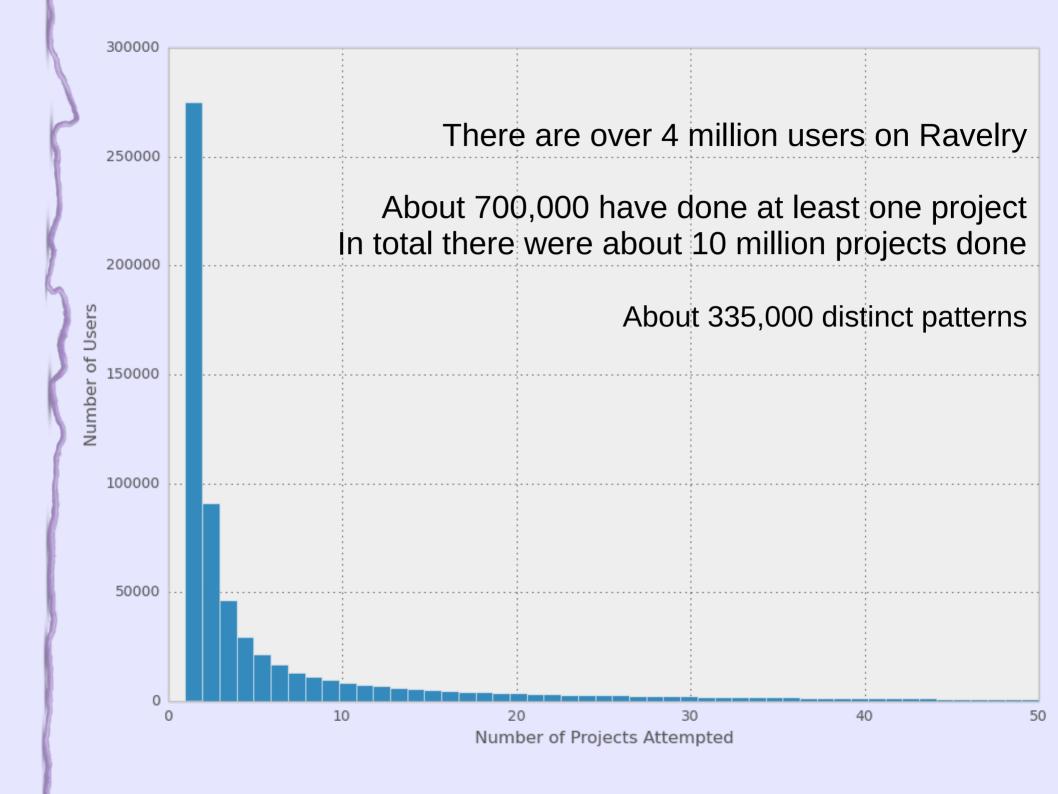


Thread to RavelMe.net

Collect data from the Ravelry.com API

Clean and store data in MySQL

Basic data analysis



Basic data analysis

Item-to-item collaborative filtering:

- Consider users who have done between 10 and 100 projects
- Build a pattern to pattern similarity matrix ~ 250,000 by 250,000
- Use this matrix to recommend patterns to users based on their previous projects

Validation

• Test user has done projects:











Validation

• Test user has done projects:











Validation

• Test user has done projects:









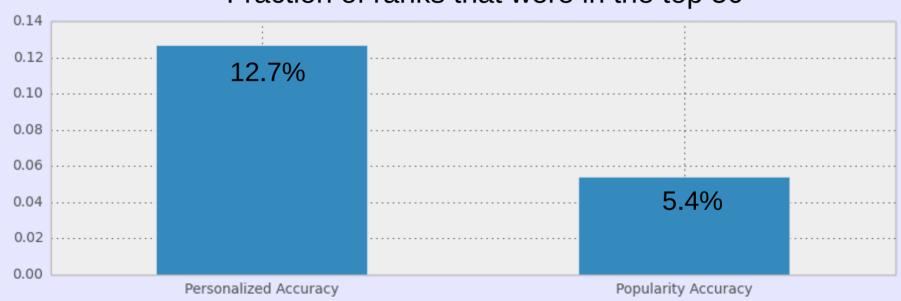


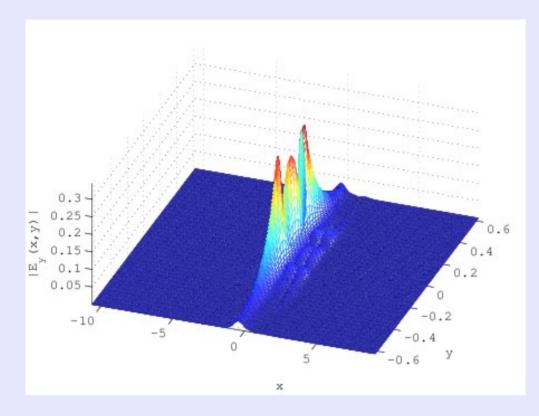


Look at the personalized rank as given by the pattern similarity matrix

Look at the popularity rank of this pattern





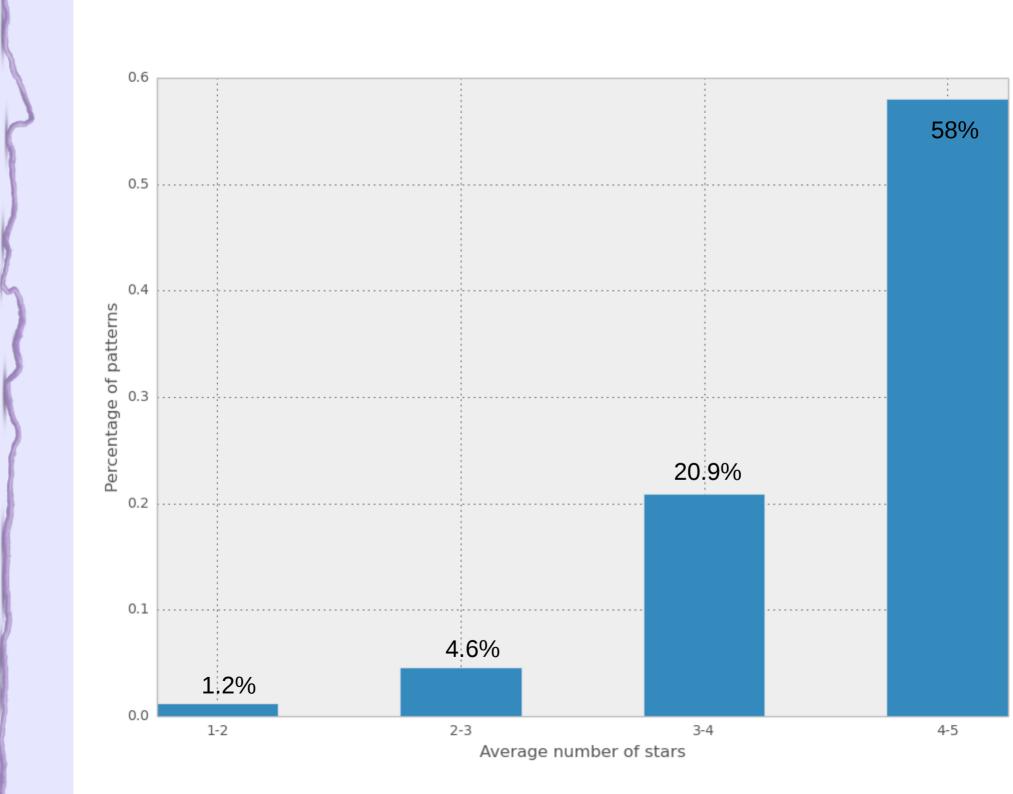


Iva Vukicevic

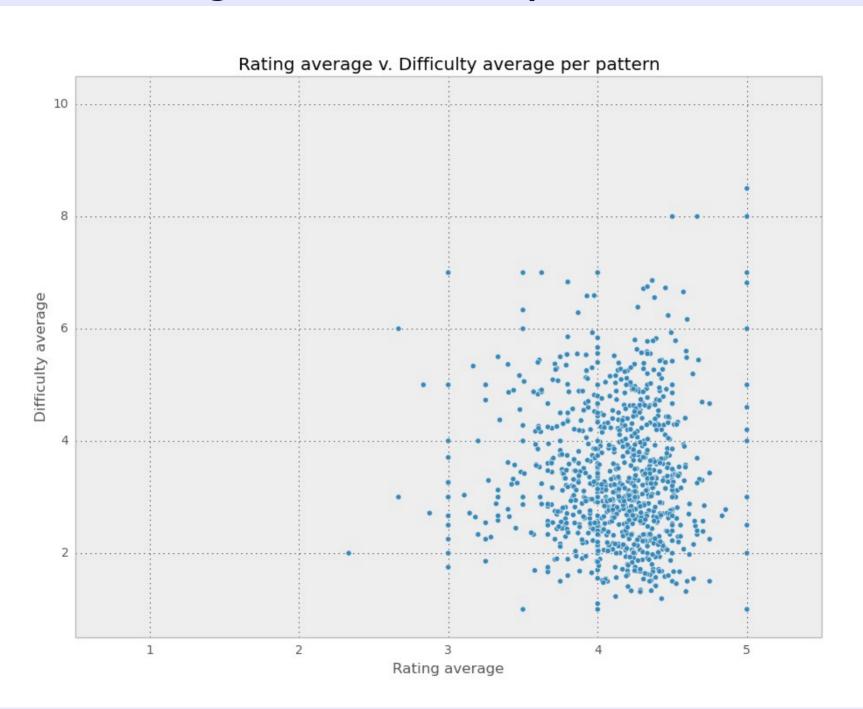




Applied Physics and Applied Mathematics



Star rating does not depend on difficulty



Item-to-item collaborative filtering Cosine similarity

 Build a similarity matrix of the patterns based on what patterns the users have done

	Patt1	Patt2	Patt3	Patt4	
User1	1	1	0	0	
User2	1	0	1	1	
User3	0	0	1	1	

	Patt1	Patt2	Patt3	Patt4
Patt1	2	1	1	1
Patt2	1	1	0	0
Patt3	1	0	2	2
Patt4	1	0	2	2