
Social Interactome Recommender

Team Final Presentation

Sarah Devlin, Mary Kwiatkowski, Bridget Larcher,
Timothy Tran, Matt Blumen, Wilson Rhodes

CS 4624: Multimedia, Hypertext, and Information Access

Virginia Tech, Blacksburg, VA 24061

May 2, 2017

Overview

Social Interactome

Project Deliverables

Two Methods

Top-Down

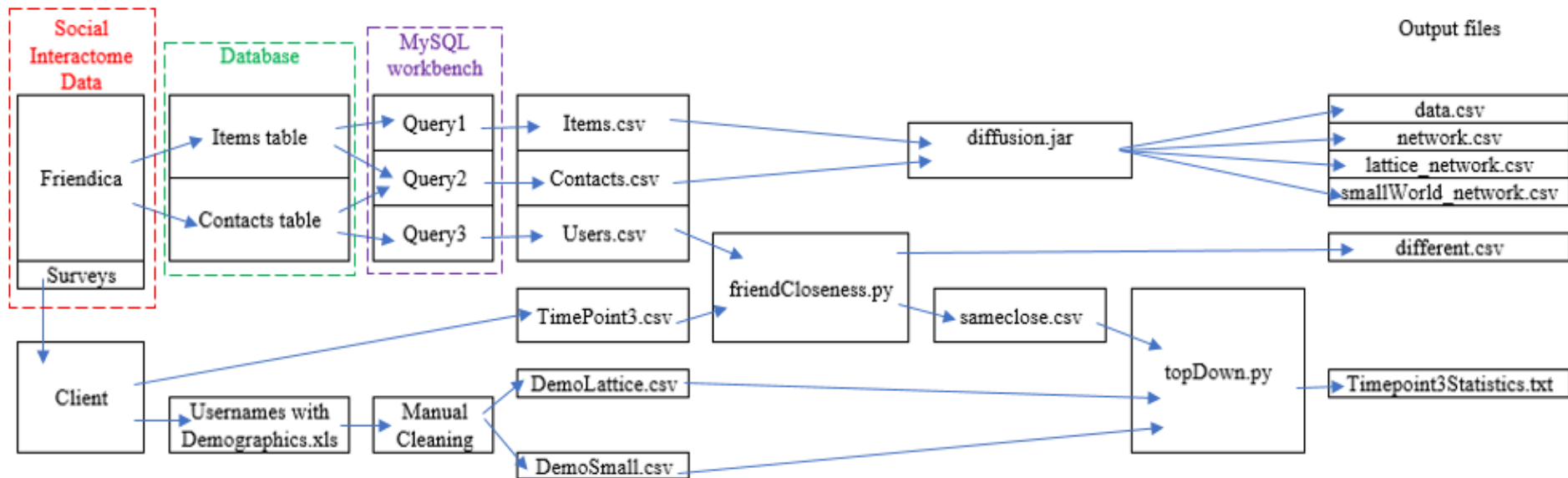
Diffusion

Lessons Learned



Friendica Logo

Dataflow Diagram



Data Cleaning

1536 total buddy pairs

900 correctly reported buddies

288 incorrectly reported buddies

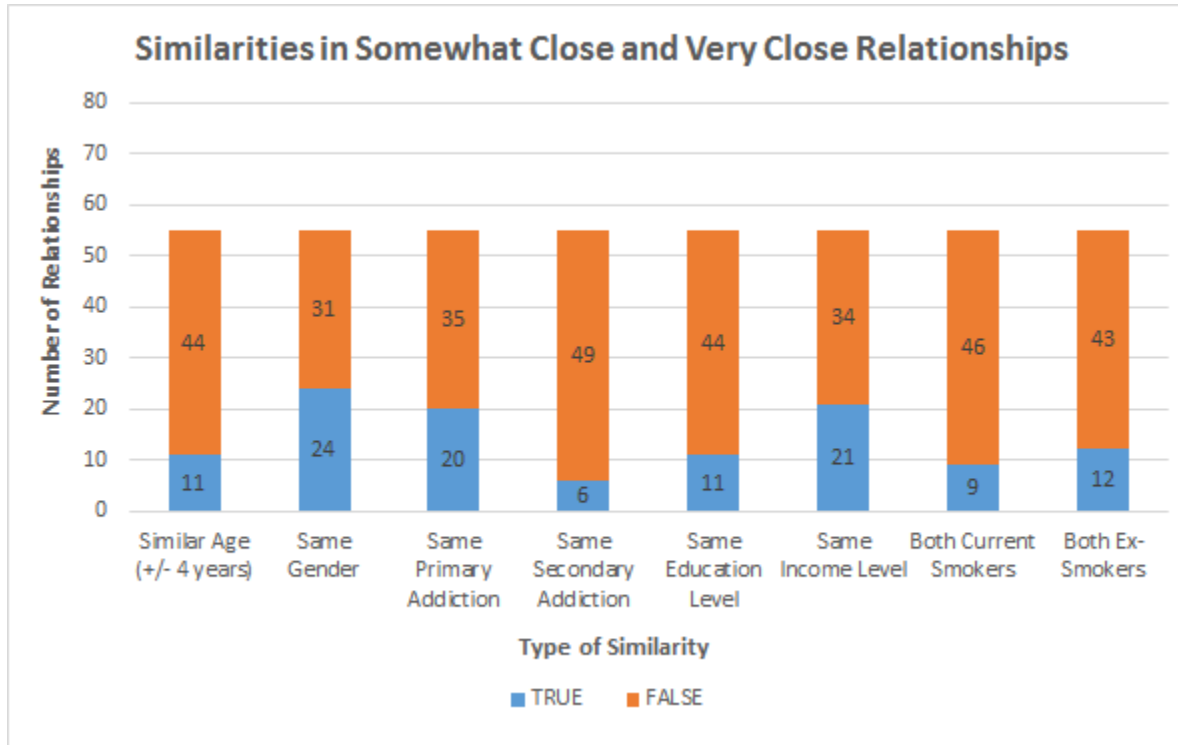
approx 348 non-answers

5 very close, 50 somewhat close

	user	buddy1	buddy2	buddy3	buddy4	buddy5	buddy6	number
0	u4001	None	None	None	None	None	None	0
1	u4002	None	None	None	None	None	None	0
2	u4003	None	None	None	None	None	None	0
3	u4004	None	None	None	None	None	None	0
4	u4005	None	None	None	None	None	None	0
5	u4006	None	None	None	None	None	None	0
6	u4007	None	None	None	None	None	None	0
7	u4008	u4012	None	None	None	None	None	1
8	u4009	u4005	None	None	None	None	None	1
9	u4010	u3001	u3002	u3003	u3004	u3005	u3006	6
10	u4011	u4005	u4001	u4019	u4066	u4201	None	5
11	u4012	u4001	u4002	u4003	u4004	u4005	u4006	6

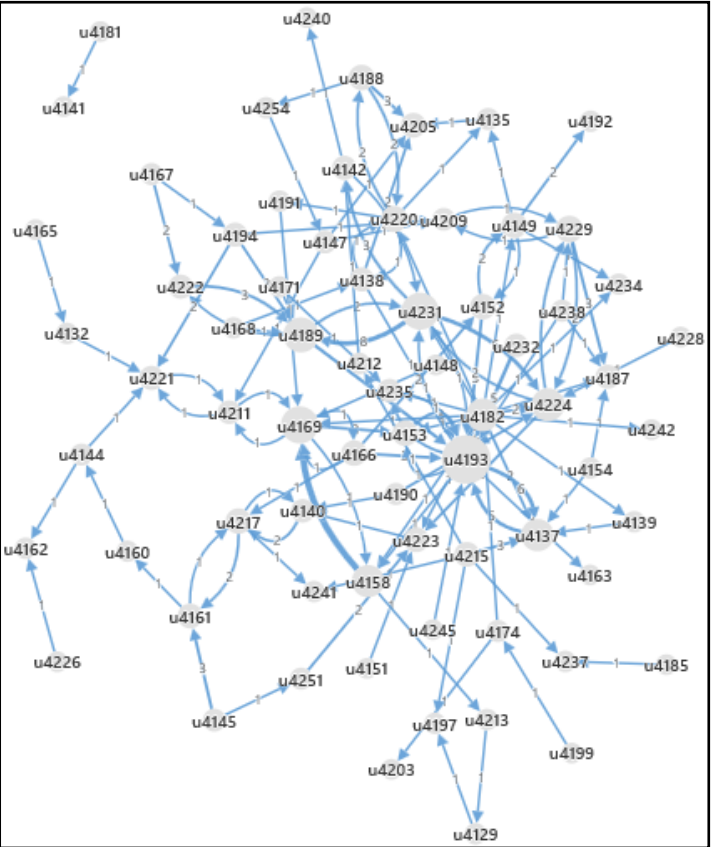
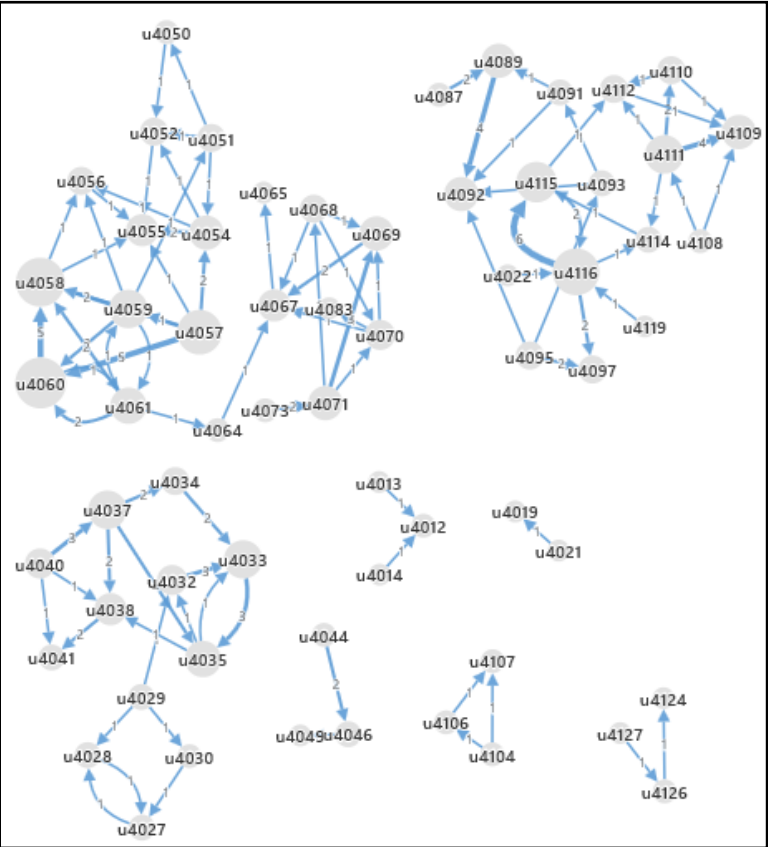
Sample Data from 'different' cleaning Dataframe

Top-Down



The Demographic Similarities Compared to the Total Number of Close Users in both Networks

Diffusion



Diffusion network diagram - Lattice Organization

Diffusion network diagram - Small World organization

Lessons Learned

Changing of goals and requirements require additional communication

Team size can be a disadvantage without structured roles

Being provided with some false data meant cleaning and working with limited data

Acknowledgements

Client: Prashant Chandrasekar

Professor: Dr. Edward A. Fox

Social Interactome Team

Grant: National Institute of Health #1R01DA039456-01

Citations

<https://github.com/tttran/SIFriendRecommender>

<https://github.com/friendica/friendica/tree/develop/images>

<https://vtechworks.lib.vt.edu/handle/10919/70956>