Our goal: to help the user navigate in a social tagging graph

- Navigation-based query construction
- Online incremental query execution
- Offline and online ranking and clustering

Social tagging data \( R(\text{user, tag, item}) \)

Affinity between users, tags and items

\[
\text{aff}(u, t) = \frac{|R(u, t, \ast)|}{|R(u, \ast, \ast)|}
\]

\[
\text{aff}(u, u') = \frac{|t, R(u, t, \ast) \cap R(u', t, \ast)|}{|t, R(u, t, \ast)|}
\]

Challenges and on-going work

- Affinity: domain-dependent definition based on experiments on real dataset
- Top-k: incremental query evaluation based on user interaction

Another query example:

query(@u, (top-10) $X) = \text{Friends}(@\text{serge}, @u) \land \text{Near}(G, $X, @u) \land \text{Near}(G, $X, #CarlaBruni) \land \lnot \text{Near}(G, $X, #Sarkozy)