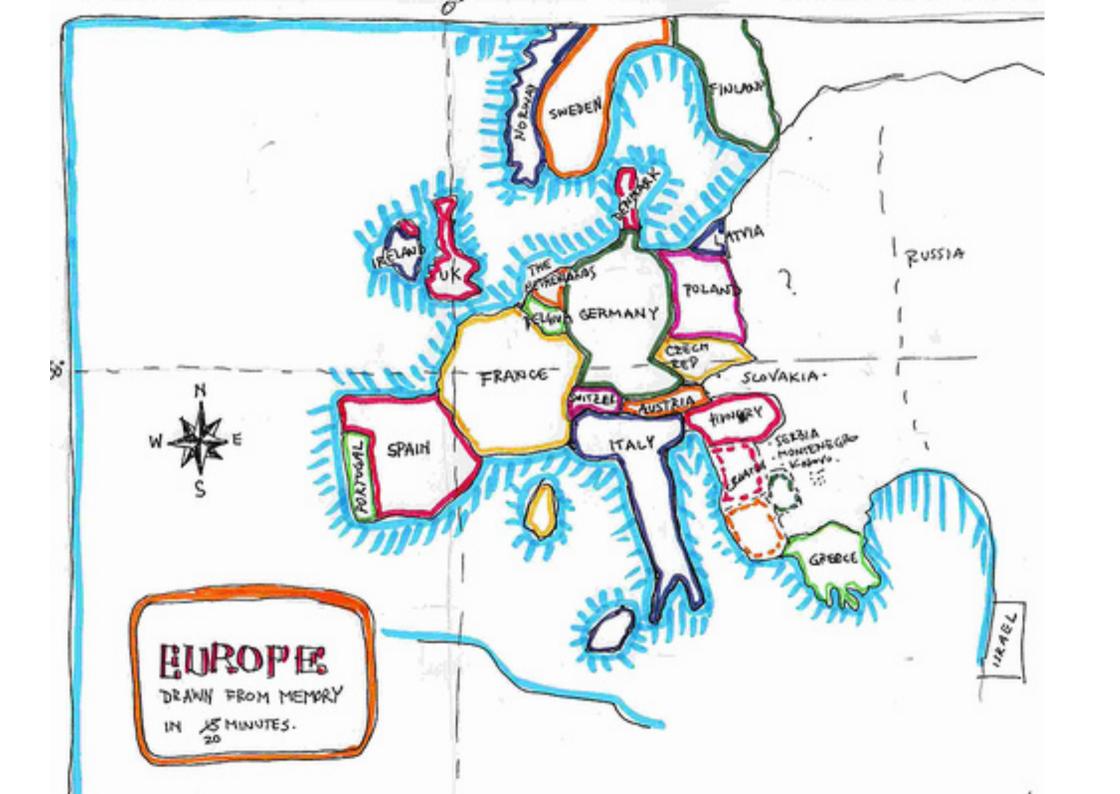
Facebook and Privacy:

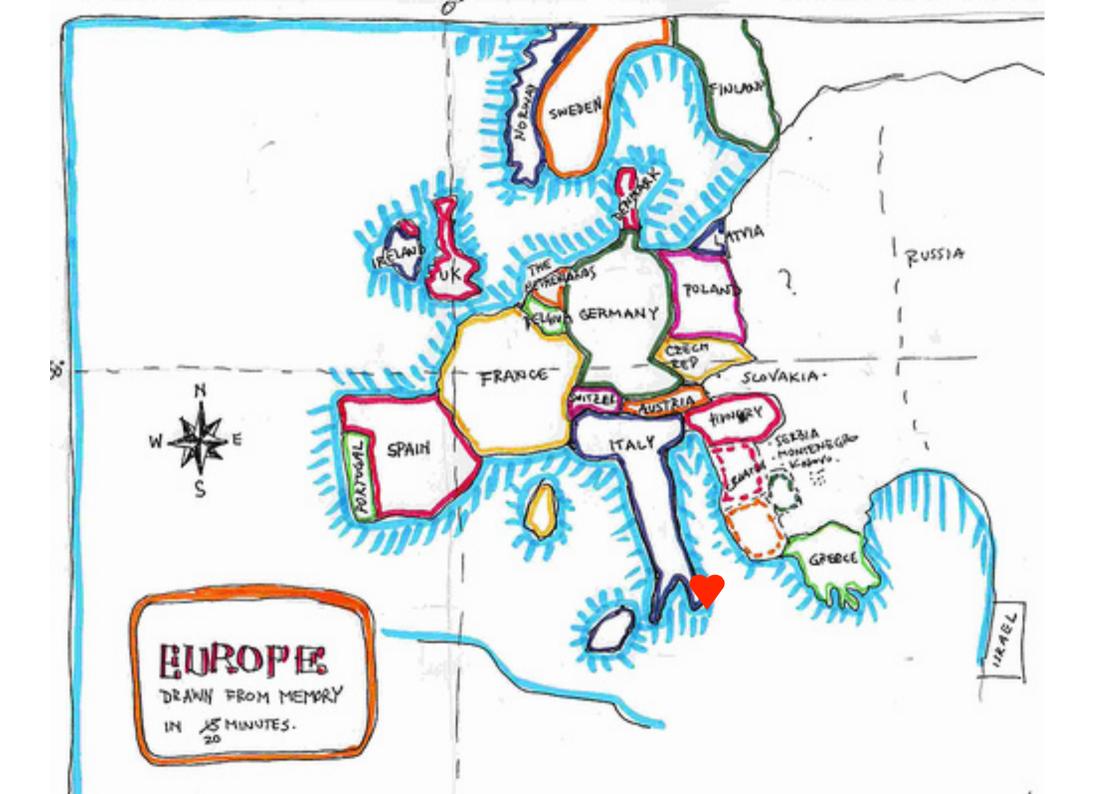
The Balancing Act of Personality, Gender, and Relationship Currency

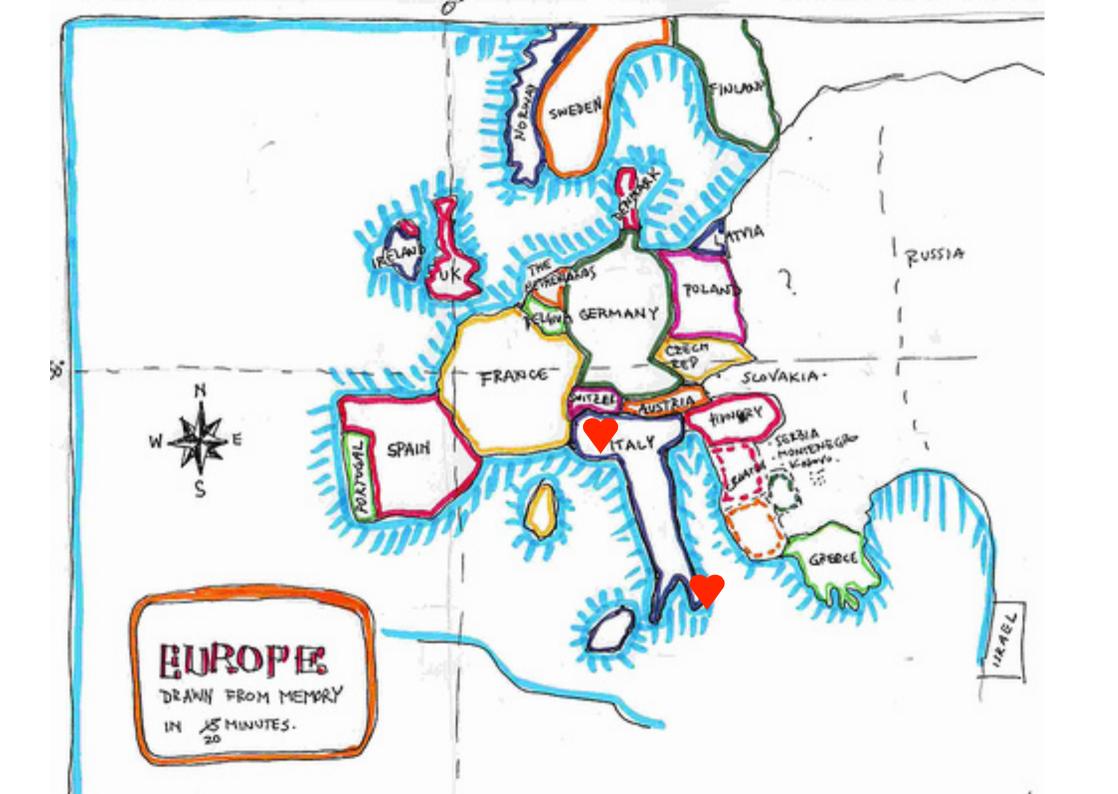
@danielequercia

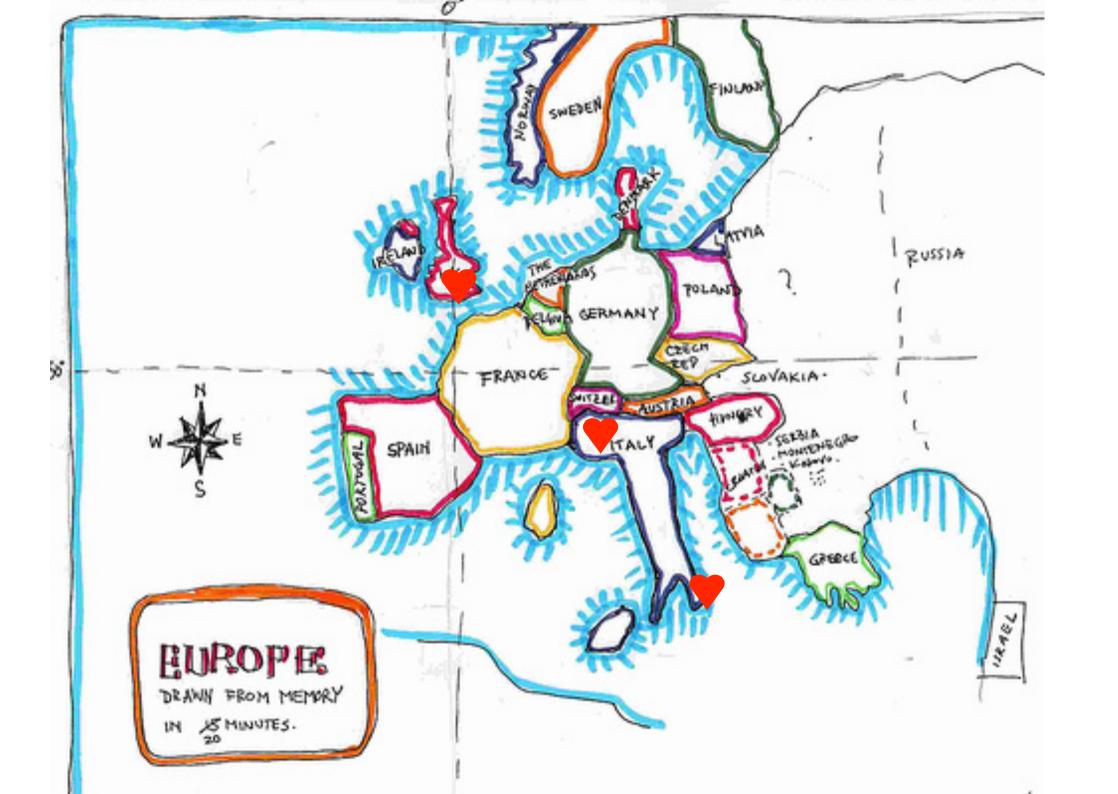
<who am i>

daniele quercia













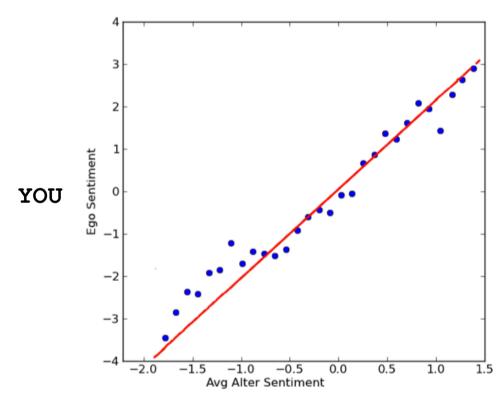


offline & online



The Social World of Twitter WEDNESDAY 12:10

- 1. Brokers tend to cover diverse topics
- 2. Users have a "typical" geo span
- 3. "Happy" ("sad") users do cluster together



YOUR FRIENDS

Talk of the City TODAY 5:30





<goal>

focus on privacy...

Assign a <u>number</u> to each Facebook user

Assign a <u>number</u> to each Facebook user

= user's disposition to disclose & conceal what is considered private and public in Facebook

Easiest way: Count!

looking
education
residence
political
religion
hometown
position
employer

X disclosed all 8
Y disclosed only 1

Traditional Goal:
 Design tests & build scales
 respondent's disposition to answer difficult questions

Traditional Goal:
 Design tests & build scales

Goal here:

Design disclosure&concealment models & build scales

Traditional Goal:

respondent's disposition to answer difficult questions

Goal here:

user's disposition to disclose (conceal) what is private (public)

$$P_{ij} = \frac{1}{1 + e^{-\alpha_i(\theta_j - \beta_i)}}$$

 $lpha_i$ field i discriminative power

 β_i field *i* sensitive score

 θ_j user j disclosure attitude

```
DATA representative for age, gender, #contacts, distribution of traits N=1,323 Facebook Users in US (58% women)
Age [18,60] median 24
#contacts [32,998]
```

Apply IRT to what's disclosed to

- * Facebook Community at large
- * Facebook Friends (one's Social Circle)

- 1 Smart Privacy Mob
- 2 Who are they
- 3 What they disclose

1 Smart Privacy Mob

Previously: Westin has divided people in

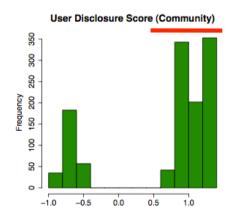
- 1. privacy fundamentalists
- 2. pragmatic majority
- 3. marginally concerned

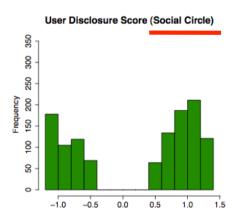
1 Smart Privacy Mob

Previously: Westin has divided people in

- 1. privacy fundamentalists
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We





Variable	User Disclosure Score		
	Community	Social Circle	
0	0.14	0.10	
С	-0.01	0.04	
Е	0.05	0.05	
A	-0.03	-0.02	
N	-0.03	-0.02	
Self-Monitoring	0.10	0.07	
Male	0.15	0.03	
Contacts (log)	0.14	0.10	
Age (log)	-0.12	-0.08	

- Open to new experience
- Self-monitoring
- Male
- More Active
- Younger

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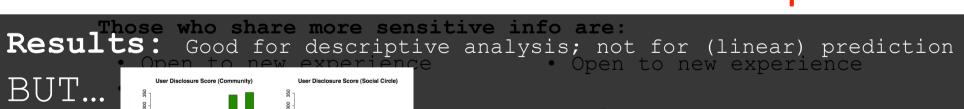
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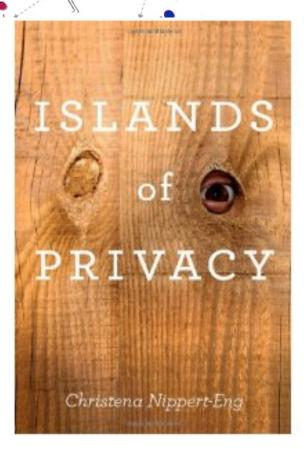




- Male
 - More Active

Field Name	Field Sensitive Score	
	Communit	y Social Circle
looking	1.4	1.3
education	1.8	1.7
residence	1.9	1.4
political	2.1	2.1
religion	2.2	2.2
hometown	2.3	1.6
position	8.4	7.7
employer	9.9	8.1

Field Name	Field Sensitive Score		
	Community	Social Cir	cle
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SIMPLE Social Currency

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OK to disclose OK to conceal

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Community vs. Social Circle

So what?

Theoretical Implications

Practical Implications

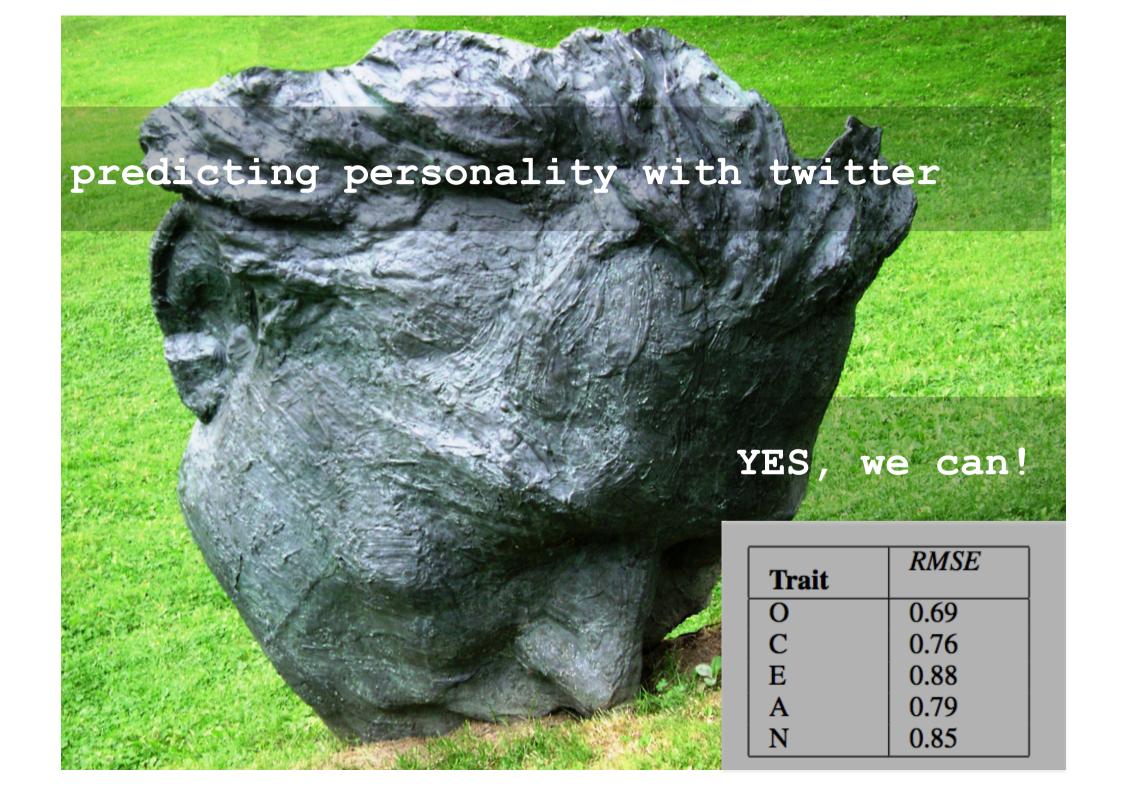
Short term - Language & RecSys & Crime

Example 1: Twitter & Personality

1 listeners, popular, & influential: extrovert & emotionally stable

2 highly-read: open to new experiences







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Tweets

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Followers ▼ Lis

Lists ▼

@emurciano's Tweets are protected.

Only confirmed followers have access to @emurciano's Tweets and complete profile. You need to send a request before you can start following this account.



About @emurciano

1,586 Following 193 Followers 0 Listed

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Following

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0 Listed

You and @emurciano

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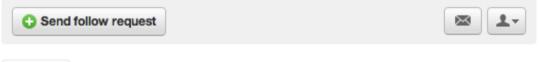
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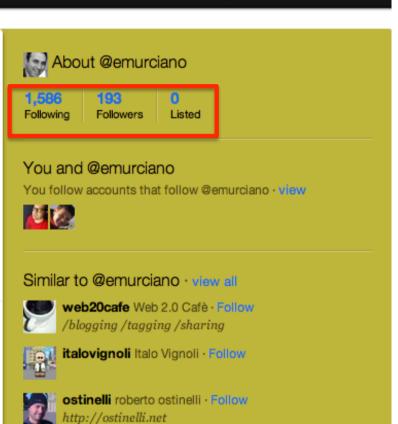
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THANK YOU!

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