

Digital Culture

Social networks, digital identity and digital public spaces

Social Networks, Society, Democracy

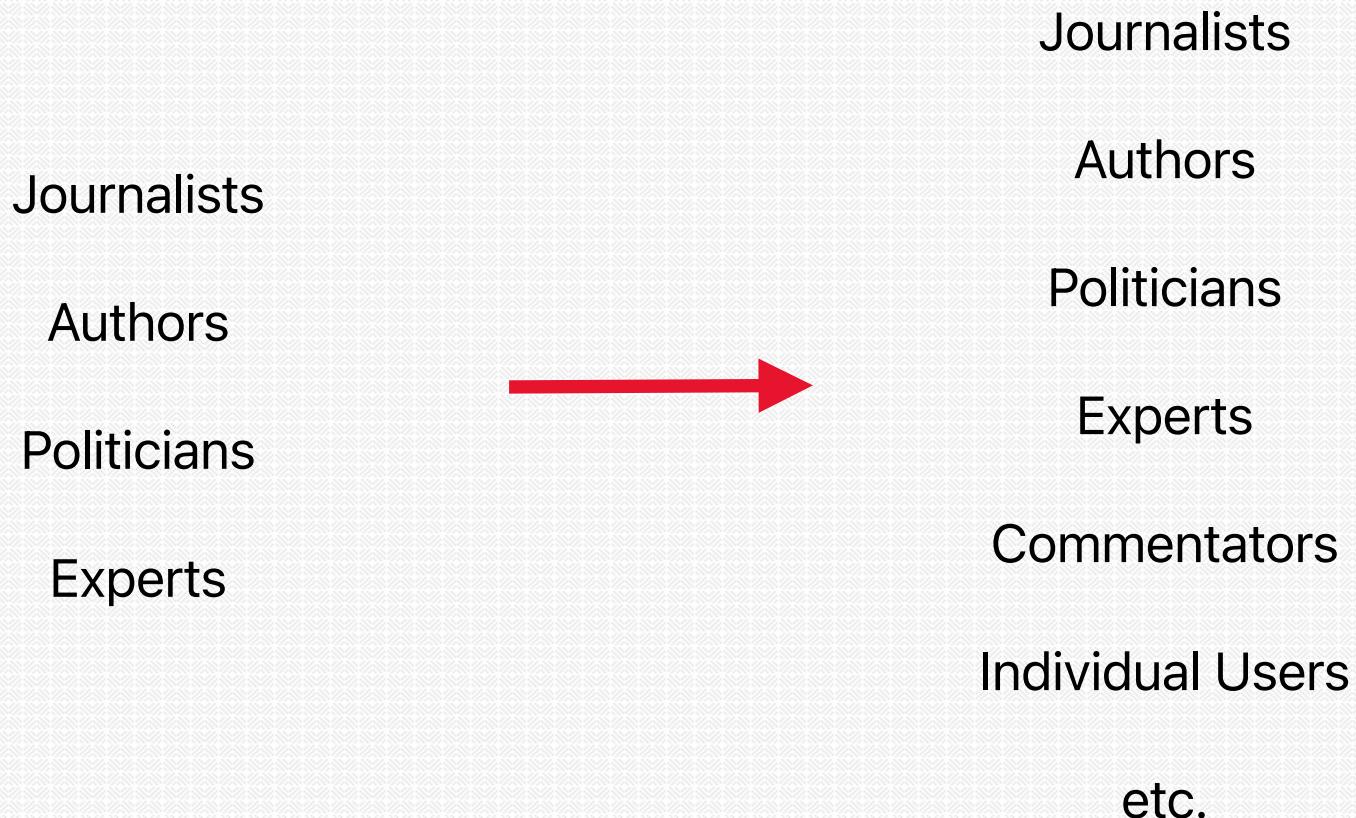
The Digital Public Space

Definition of Public Space

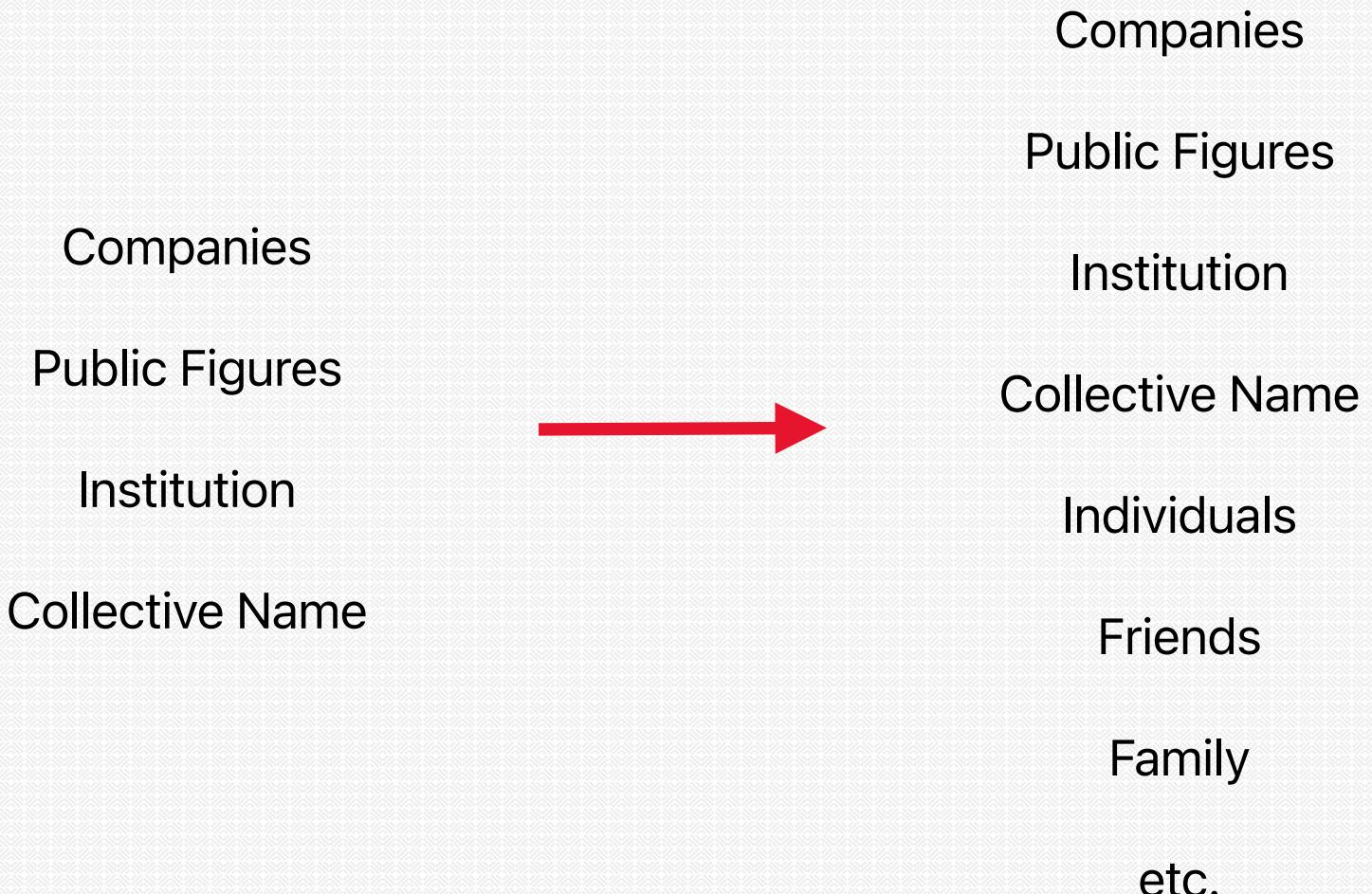
In the most simple terms, a public space can be defined by:

- a speaker
- a subject of discourse, e.g. a public figure, a company, etc.
- an audience

The Speaker



The Subject of Discourse



Four Configurations of Public Space

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Traditional Press

- written by professionals
- used to comment on or criticise the activities of public figures

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Mass Press

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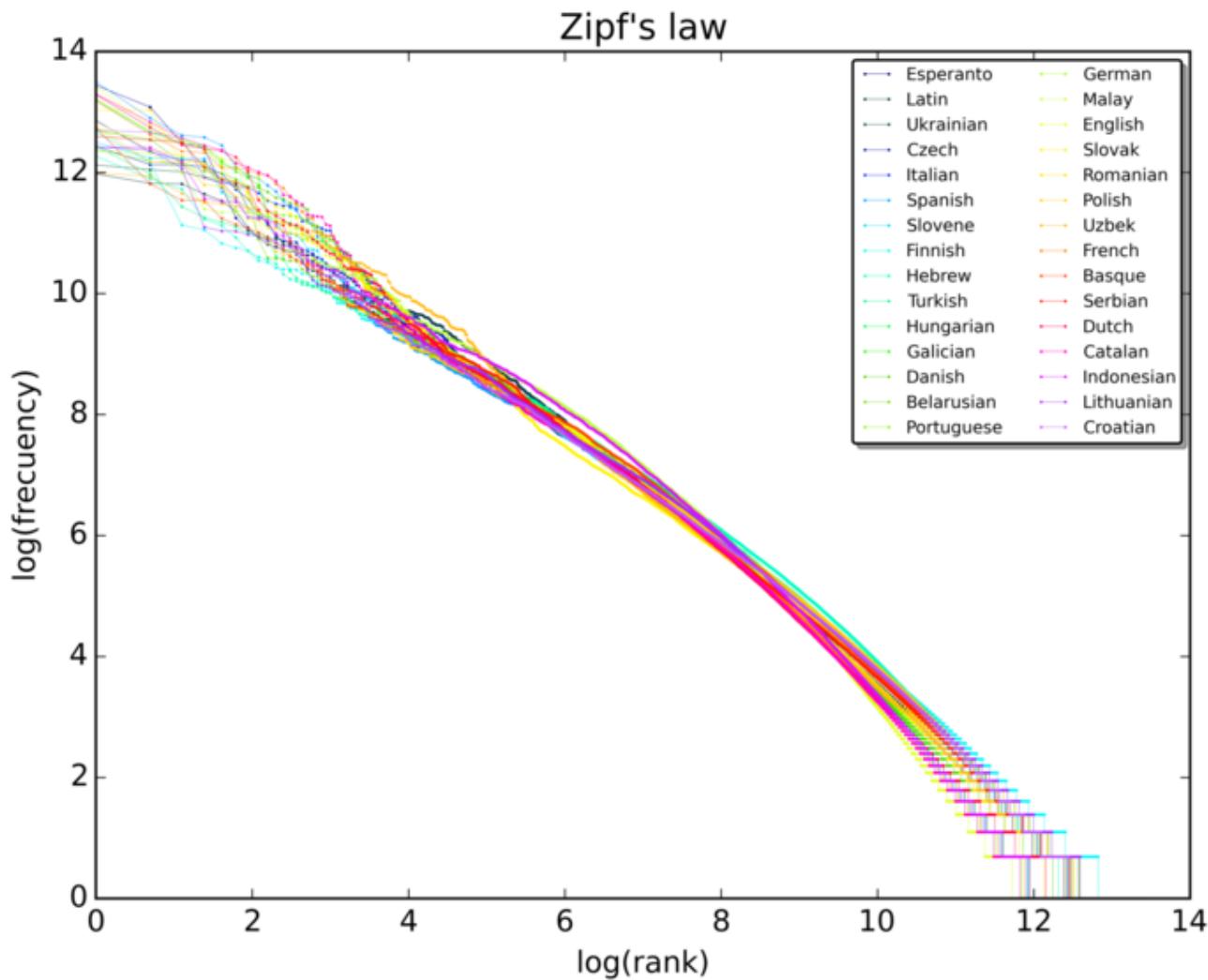
Mass Press

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Individual Users' Opinions

- written by Internet users
- used to comment or criticise the activities of public figures, news, etc.

Zipf's Law



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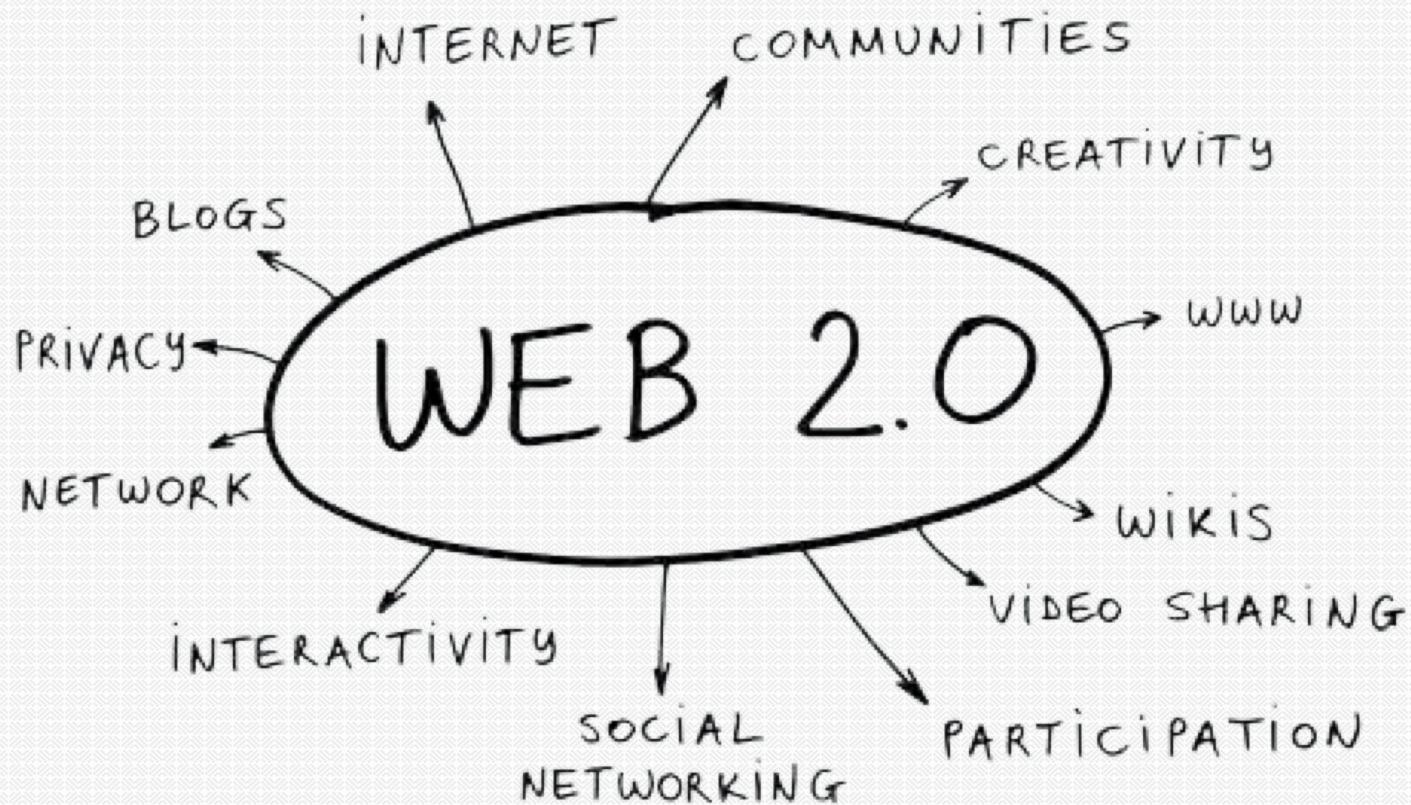
- written by Internet users
- used to comment or criticise the activities of public figures, news, etc.

Public Conversations

- written by Internet users
- used to talk about other individual Internet users

A Typology of Social Networks

The “Web 2.0”



Characteristics of Social Networks

Social Networks are sites where users:

- have a personal page
- can interact with other users

Social Network Sites: Definition, History, and Scholarship

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School of Information
University of California-Berkeley

Nicole B. Ellison

Department of Telecommunication, Information Studies, and Media
Michigan State University

Question

What different types of social networks are there?

Two Tension Points

First Tension Point

- Social Networks allow us to have multiple identities
- Our identity online varies along multiple dimensions

Erving Goffman

Sociologist

The Presentation of Life in Everyday Life

1956



Two Tension Points

First Tension Point

- Social networks allow us to create and play with multiple identities
- Our identity online varies along multiple dimensions

Second Tension Point

- Social networks allow us to open or close interactions
- There is some control over who sees and who does not see

BEING



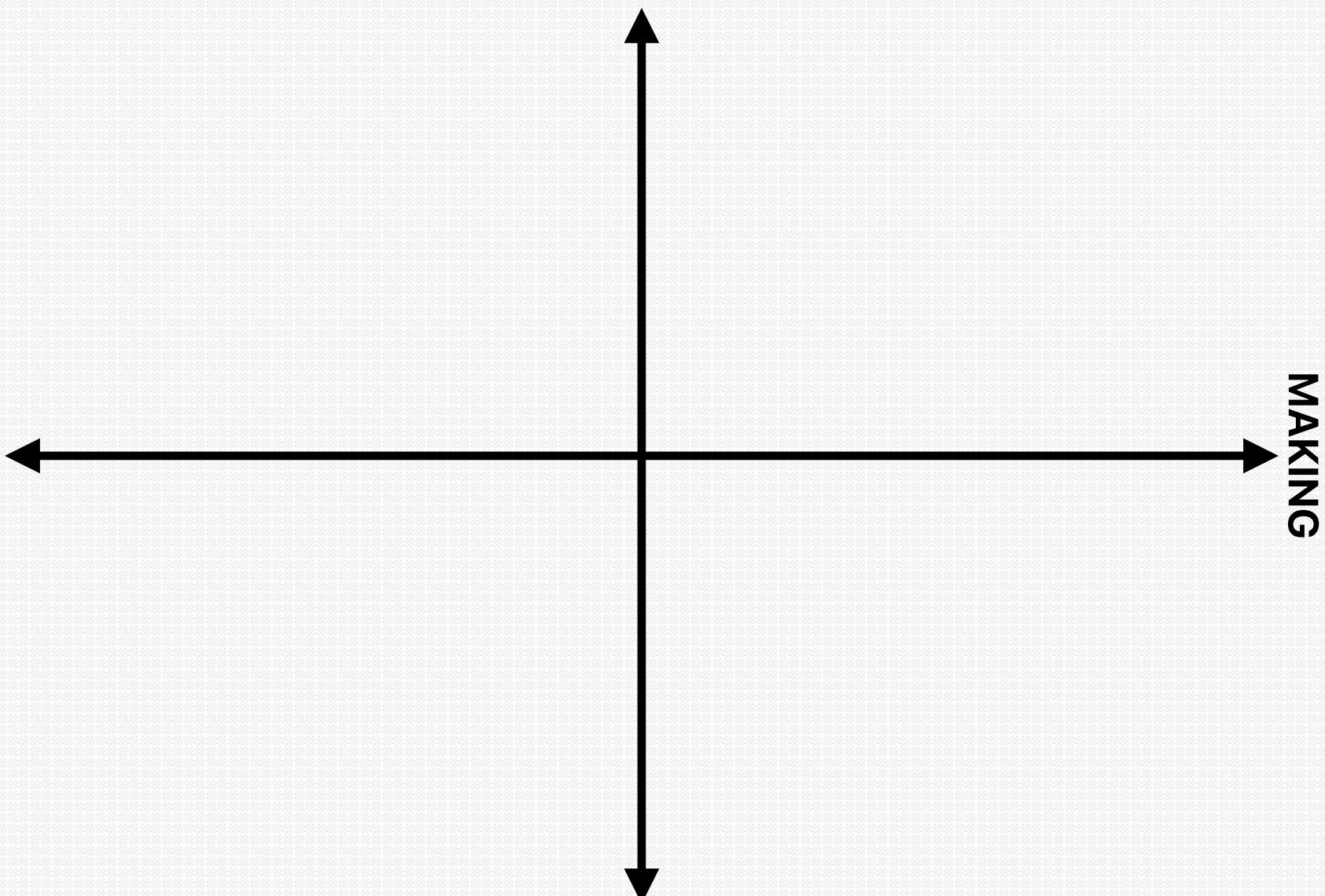
MAKING



REALITY

BEING

MAKING



PROJECTION

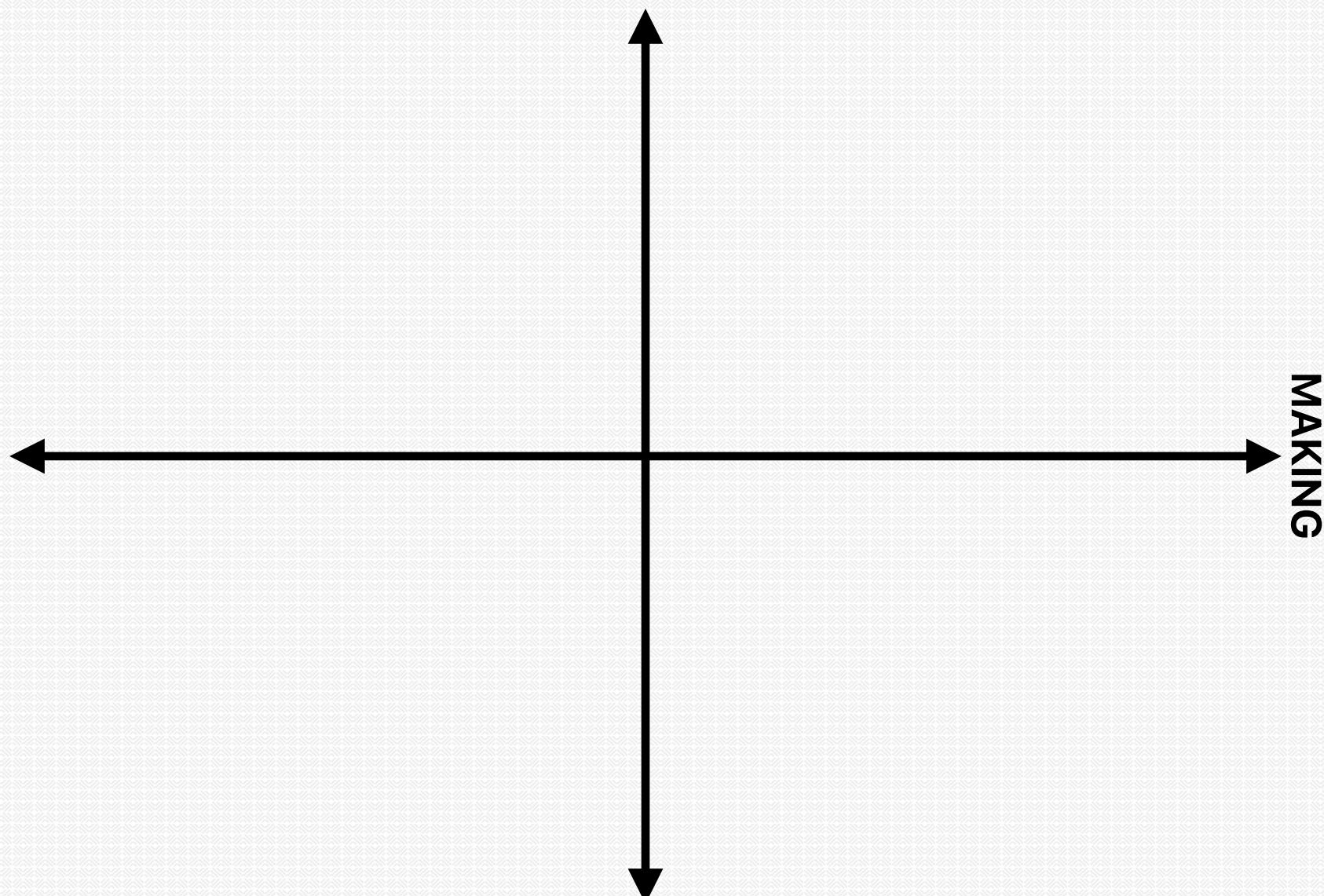
CIVIL IDENTITY

REALITY

ACTIVE IDENTITY

BEING

MAKING



NARRATIVE IDENTITY

PROJECTION

VIRTUAL IDENTITY

CIVIL IDENTITY

REALITY

ACTIVE IDENTITY

GENDER

AGE

EDUCATION

BEING

MAKING



NARRATIVE IDENTITY

PROJECTION

VIRTUAL IDENTITY

CIVIL IDENTITY

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PSYCHOLOGY

JOURNAL



MAKING

NARRATIVE IDENTITY

PROJECTION

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CIVIL IDENTITY

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GENDER

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EDUCATION

PHOTOGRAPH

PSYCHOLOGY

DAILY-LIFE PHOTOGRAPH

JOURNAL

STORIES

NARRATIVE IDENTITY

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PROJECTION

AVATAR

VIDEO-GAME CHARACTER

NARRATIVE IDENTITY

VIRTUAL IDENTITY

POLITICAL ORIENTATION

PROFESSIONAL NETWORK

PASSIONS

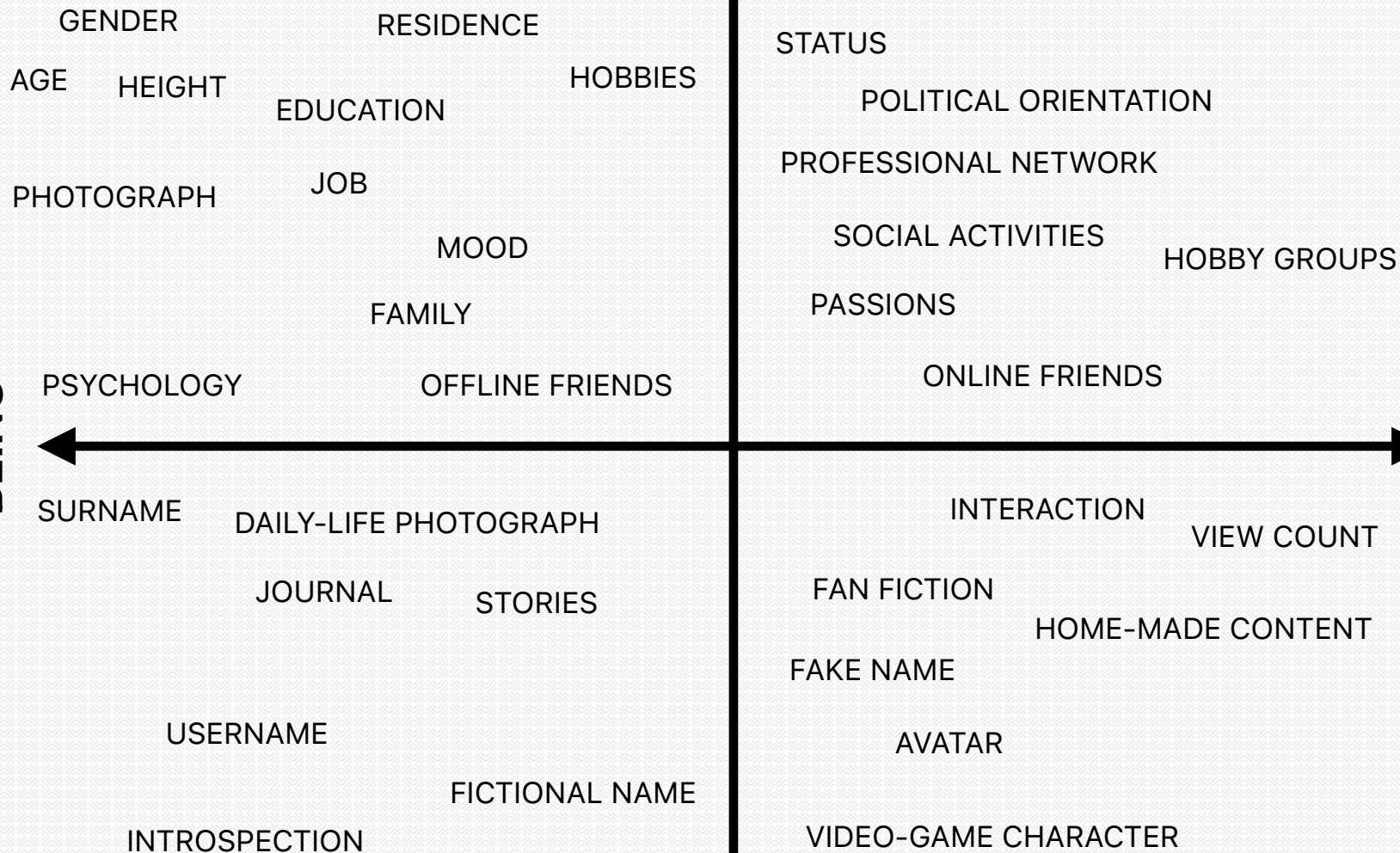
CIVIL IDENTITY

REALITY

ACTIVE IDENTITY

BEING

MAKING



NARRATIVE IDENTITY

PROJECTION

VIRTUAL IDENTITY

CIVIL IDENTITY

REALITY

ACTIVE IDENTITY

BEING

MAKING

GENDER
AGE HEIGHT RESIDENCE
PHOTOGRAPH EDUCATION HOBBIES
MARITAL STATUS JOB AVAILABILITY
PSYCHOLOGY MOOD
SURNAME FAMILY
HIDDEN-SELF OFFLINE FRIENDS
ALIAS STORIES
INTROSPECTION USERNAME
FICTIONAL NAME

STATUS
POLITICAL ORIENTATION
PROFESSIONAL NETWORK
SOCIAL ACTIVITIES
PASSIONS
TASTES ONLINE FRIENDS
REMIX INTERACTION
FAN FICTION
FAKE NAME
AVATAR
VIDEO-GAME CHARACTER
HOME-MADE CONTENT
SCRIPTS
MACHINIMAS
VIEW COUNT

NARRATIVE IDENTITY

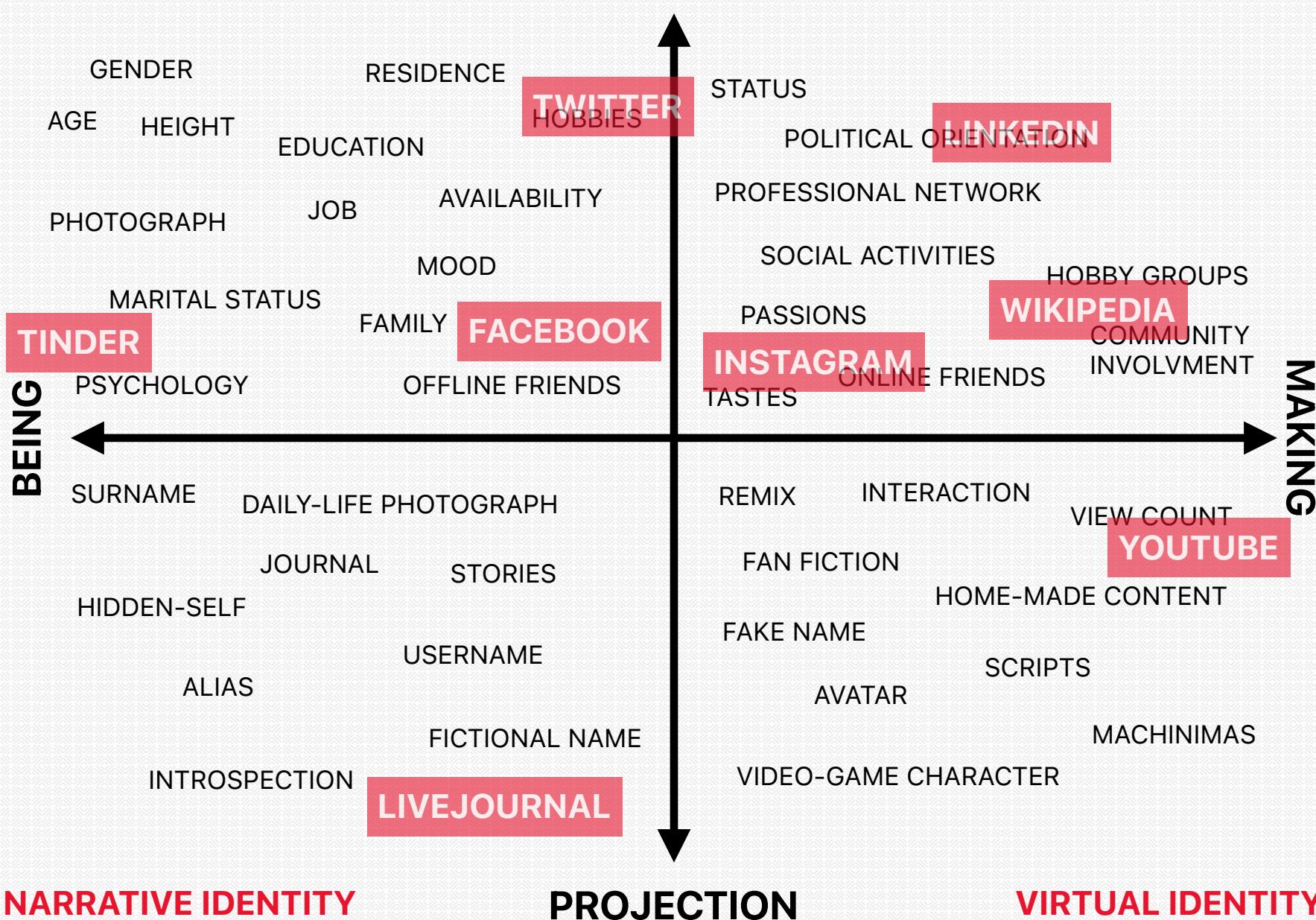
PROJECTION

VIRTUAL IDENTITY

CIVIL IDENTITY

REALITY

ACTIVE IDENTITY



CIVIL IDENTITY

REALITY

ACTIVE IDENTITY

GENDER

AGE HEIGHT

MEETIC

PHOTOGRAPH

RESIDENCE

EDUCATION

DODGEBALL
JOB

AVAILABILITY

MOOD

MARITAL STATUS

TINDER

PSYCHOLOGY

FAMILY

REZOG

FACEBOOK

OFFLINE FRIENDS

BEING

SURNAME

LIVEJ

DAILY-LIFE PHOTOGRAPH

FRIENDSTER

JOURNAL

SKYBLOG

STORIES

HIDDEN-SELF

ALIAS

CYWORLD

USERNAME

FICTIONAL NAME

INTROSPECTION

LIVEJOURNAL

PROJECTION

NARRATIVE IDENTITY

VIRTUAL IDENTITY

PEUPLADE

STATUS

LINKEDIN

PROFESSIONAL NETWORK

FLICKR

SOCIAL ACTIVITIES

PASSIONS

INSTAGRAM

ONLINE FRIENDS

REMIX INTERACTION

DEVIANTART

FAN FICTION

FAKE NAME

myspace

AVATAR

SECOND LIFE

MACHINIMAS

VIDEO-GAME CHARACTER

WORLD OF WARCRAFT

MAKING

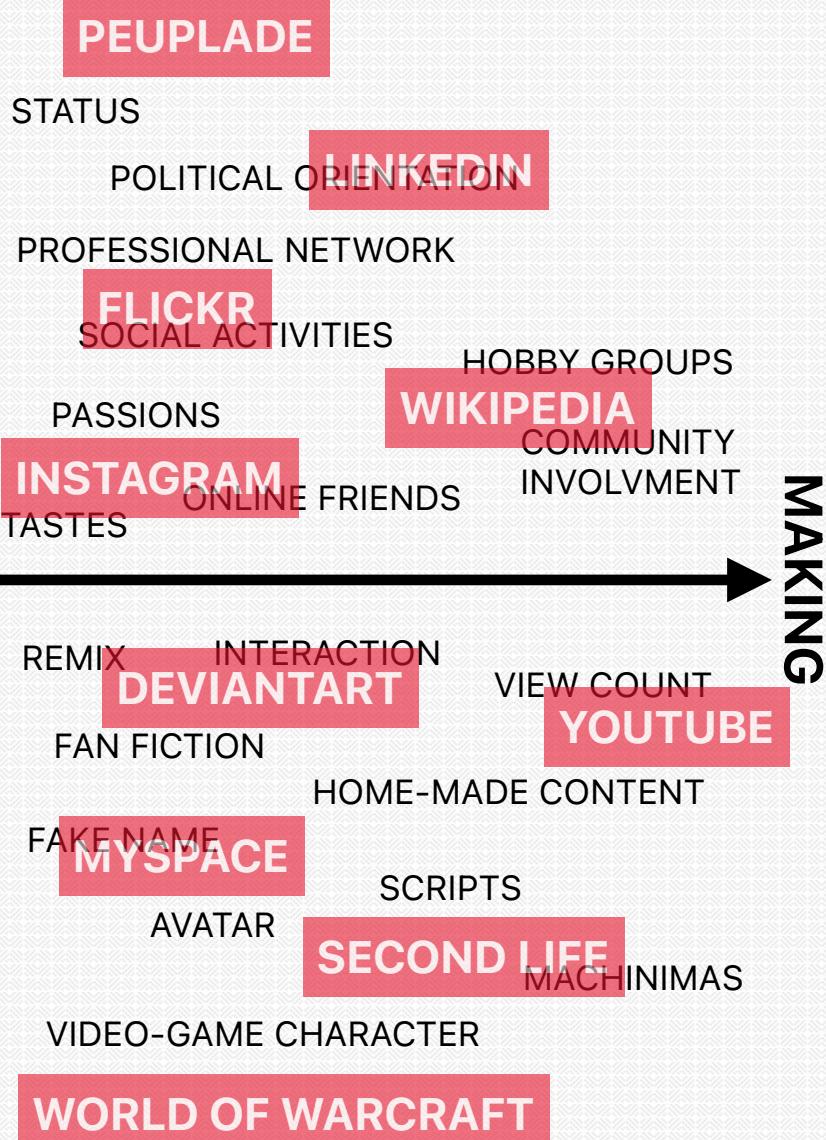
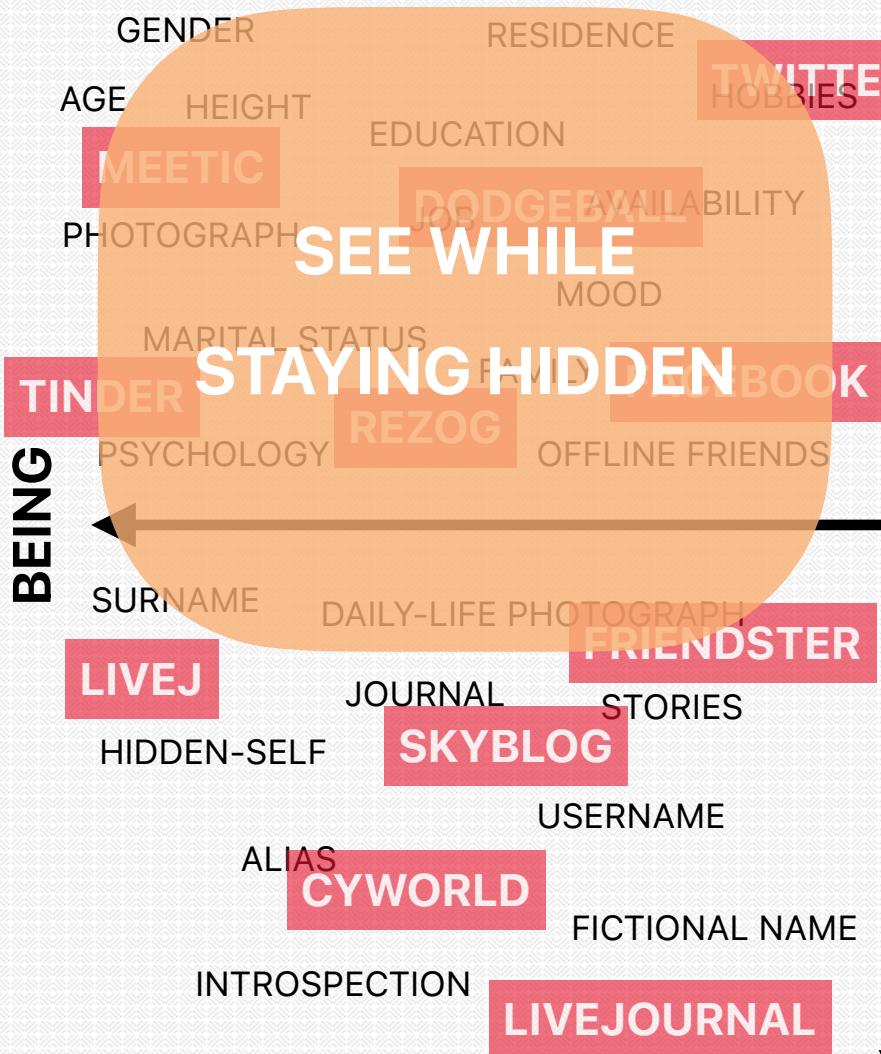
Question

Can you distinguish families of social networks?

CIVIL IDENTITY

REALITY

ACTIVE IDENTITY



NARRATIVE IDENTITY

PROJECTION

VIRTUAL IDENTITY

BEING

MAKING

CIVIL IDENTITY

REALITY

ACTIVE IDENTITY

GENDER

AGE HEIGHT

MEETIC

PHOTOGRAPH

RESIDENCE

EDUCATION

JOB

AVAILABILITY

MOOD

MARITAL STATUS

TINDER

PSYCHOLOGY

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STATUS

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PROFESSIONAL NETWORK

FLICKR

SOCIAL ACTIVITIES

PASSIONS

INSTAGRAM

ONLINE FRIENDS

TASTES

HOBBY GROUPS

WIKIPEDIA

COMMUNITY INVOLVEMENT

BEING

MAKING

SURNAME

LIVEJ

HIDDEN-SELF

ALIAS

CYWORLD

INTROSPECTION

DAILY-LIFE PHOTOGRAPH
FRIENDSTER
JOURNAL STORIES

SKYBLOG

SHOW WHILE
STAYING HIDDEN

FICTIONAL NAME

LIVEJOURNAL

REMIX

INTERACTION

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FAN FICTION

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SECOND LIFE

MACHINIMAS

HOME-MADE CONTENT

SCRIPTS

VIEW COUNT

YOUTUBE

NARRATIVE IDENTITY

PROJECTION

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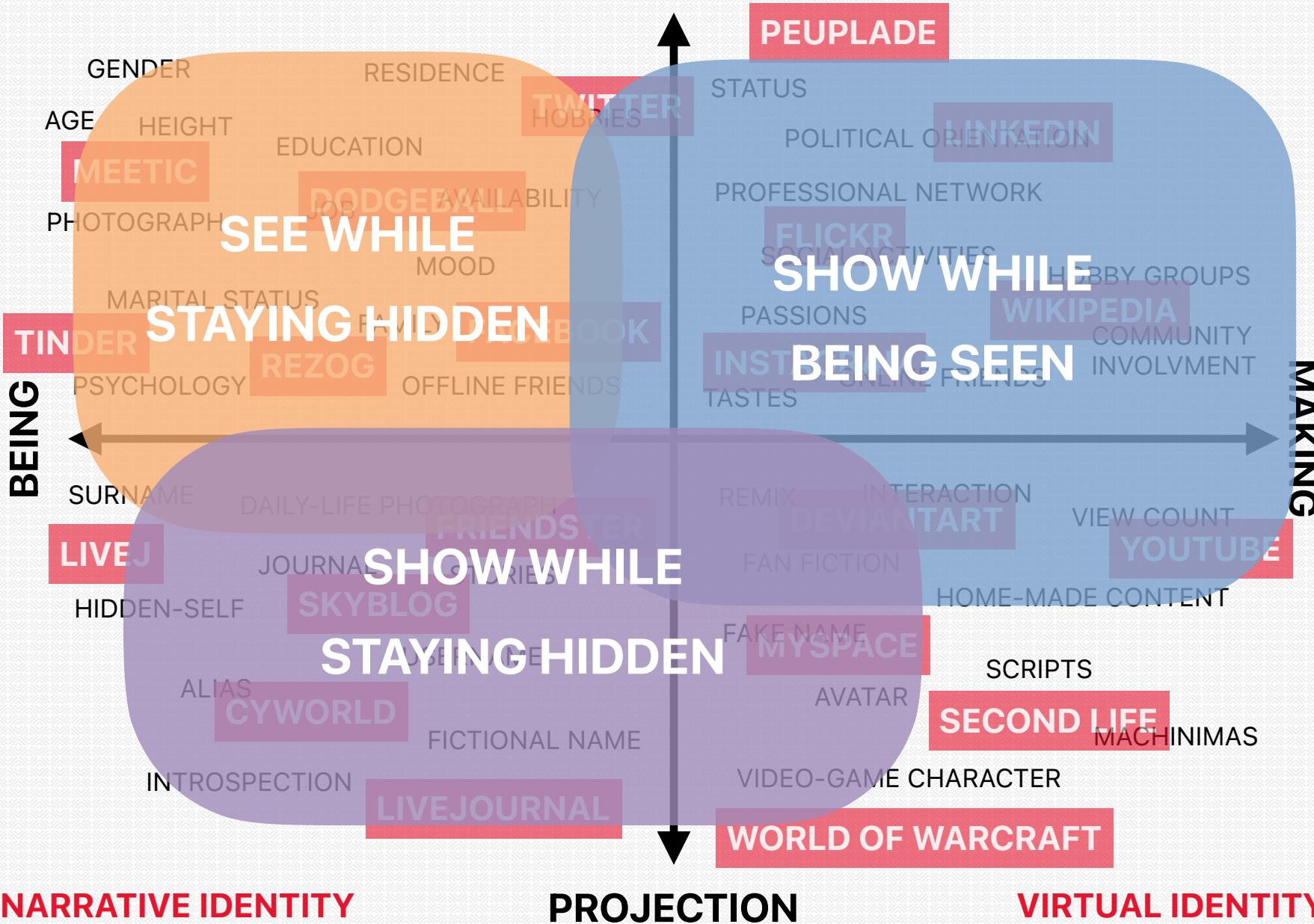
NARRATIVE IDENTITY

VIRTUAL IDENTITY

CIVIL IDENTITY

REALITY

ACTIVE IDENTITY



Remark

It's only one typology, among many!

Online Identity

Questions about Digital Identity

When thinking about digital identities, a few question arise:

- how do we create this digital identity?
- what does it say about us?
- is it becoming an attribute of individuals, like a diploma or a profession in social life?

Key Points

Exposure of oneself online is primarily driven by the expectation of being recognised by others according to specific criteria.

Key Points

The social mechanisms of real life guide distinctively the way we present ourselves and behave online.

Key Points

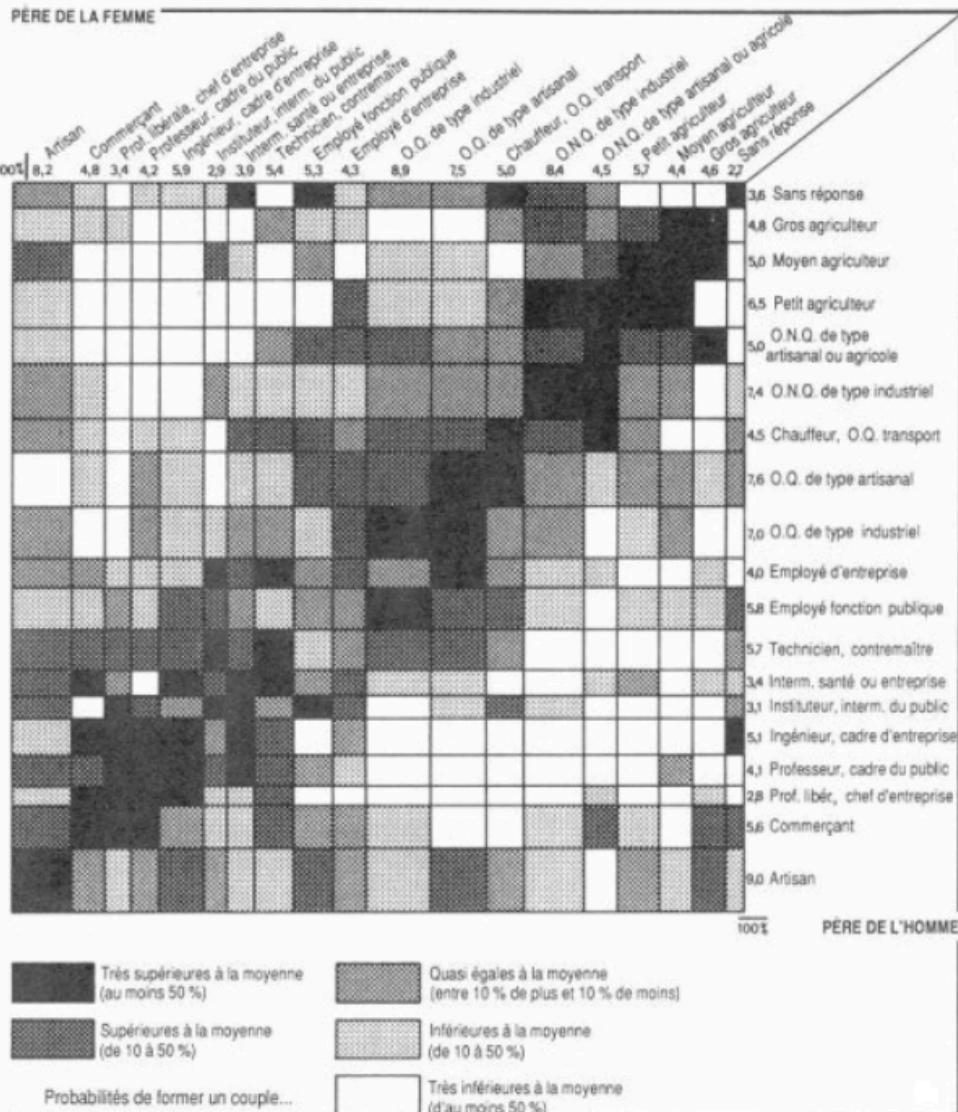
Exposure of oneself online is a highly controlled process.

Case Study of Online Dating Sites

Sociology of Relationships

The sociology of relationships has historically been mostly interested in homogamy and in how homogamy appears.

Sociology of Relationships



Sociology of Relationships

The sociology of relationships has historically been mostly interested in homogamy and in how homogamy appears.

Explicative theories about homogamy often rely on the locations where relationships usually start:

- reserved places (e.g. clubs, rallyes, etc.)
- private places (e.g. universities, companies, etc.)
- public places (e.g. bars, campings, etc.)

Do online dating sites create a shift in the traditional homogamy?

Question

Do online dating sites create a shift in the traditional homogamy?

Why is there Homogamy Online?

Homogamy is still very much present on online dating sites.

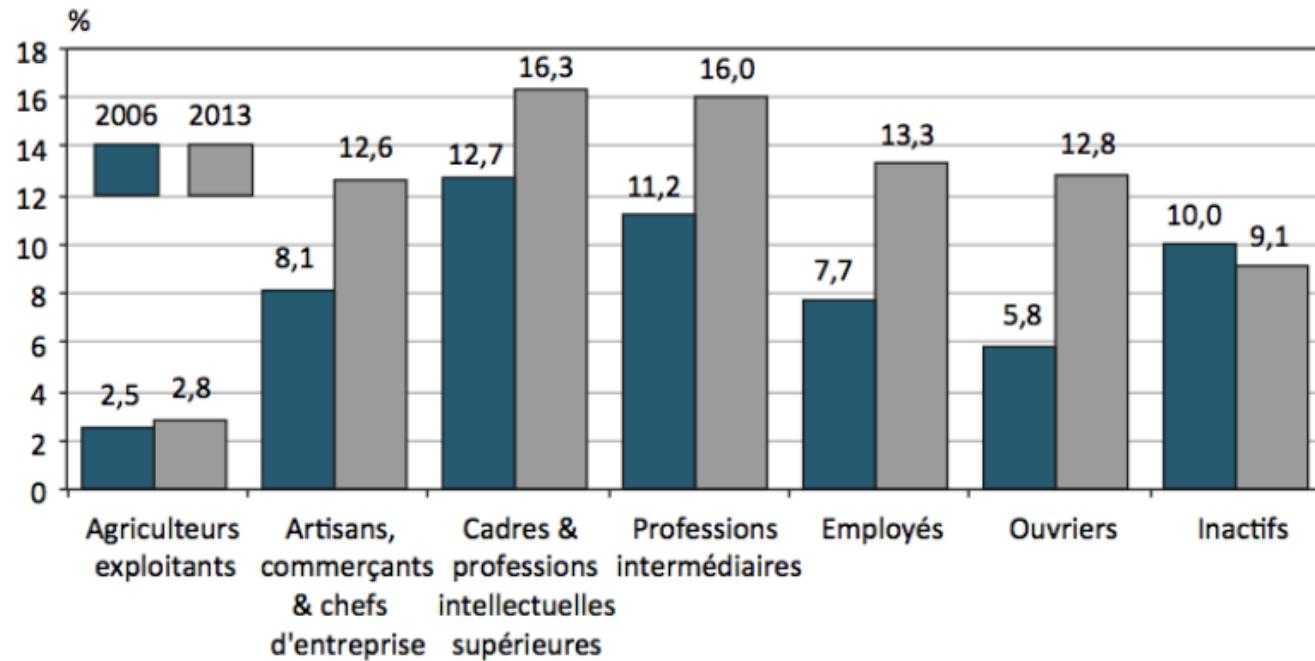
This comes, in part, from the iterative selection process that happens online. Dating online follows three phases:

- the evaluation of user profiles
- the written exchanges
- the face-to-face meeting

We'll see that in each of these three phases, socially differentiated selection mechanisms intervene, where individuals are led to renegotiate and construct their identity.

Use of Dating Sites is a Socially Situated Practice

Figure 1. Évolution du taux d'usage des sites de rencontres par catégorie socioprofessionnelle entre 2006 et 2013 (%)



Marie Bergström, *Population et Sociétés* n° 530, Ined, février 2016.

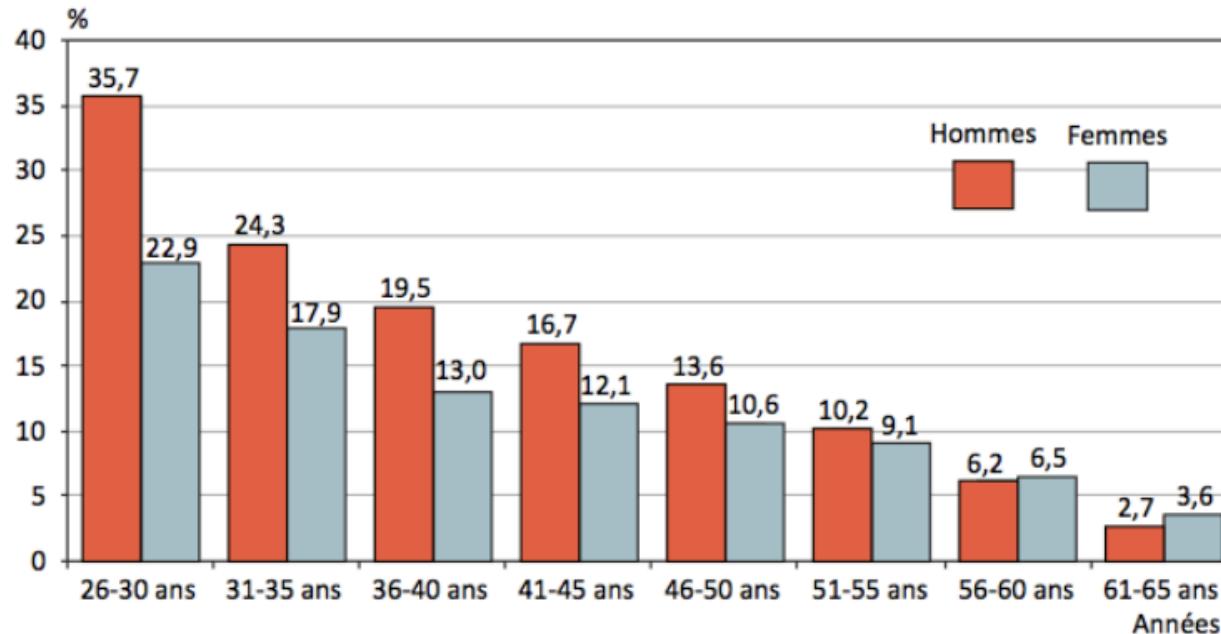
Sources : Enquêtes CSF (Inserm-Ined, 2006) et Épic (Ined-Insee, 2013-2014).

Champ : Femmes et hommes âgés de 26 à 65 ans en 2006 ($N = 9\,690$) et en 2013 ($N = 7\,825$).

Lecture : En 2006, 6 % des ouvriers s'étaient déjà connectés à un site de rencontres. En 2013, ils étaient 13 % à l'avoir fait.

Use of Dating Sites is a Socially Situated Practice

Figure 2. Taux d'usage des sites de rencontres par sexe et par groupe d'âges, en 2013 (%)



Marie Bergström, *Population et Sociétés* n° 530, Ined, février 2016.

Sources : Enquête Épic (Ined-Insee, 2013-2014).

Champ : Femmes et hommes âgés de 26 à 65 ans en 2013 (N = 7 825).

Lecture : 24 % des hommes âgés de 31 à 35 ans déclarent s'être déjà inscrits sur un site de rencontres contre 18 % des femmes de même âge.

Sociology of Relationships

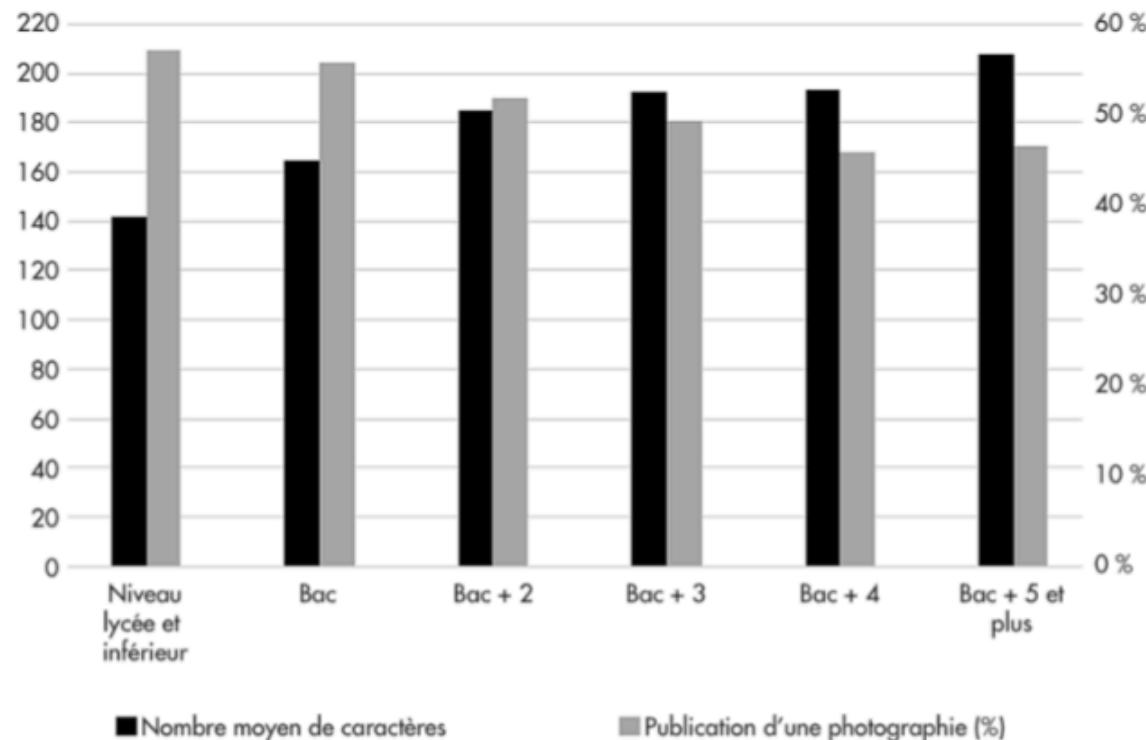
Not everyone uses the same dating site!



Use of Dating Sites is a Socially Situated Practice

GRAPHIQUE 1

Usages de l'« annonce » et de la photographie sur *Meetic.fr* selon le niveau d'éducation déclaré



Note : Les niveaux d'éducation correspondent aux modalités de réponses proposées sur le site.

Champ : profils d'utilisateurs « actifs » enregistrés sur le site *Meetic.fr* en 2014 indiquant le niveau d'éducation.

Source : Base d'utilisateurs de *Meetic.fr*, 2014, Meetic Group.

Use of Dating Sites is a Socially Situated Practice

TABLEAU 2

Comportements de contacts sur *Meetic.fr* selon le niveau d'éducation déclaré – tableau de sur- et de sous-représentation

Prise de contact (1 ^{er} email)						
Destinataire	Niveau lycée et inférieur	BAC	Bac+2	Bac+3	Bac+4	Bac+5 et plus
Expéditeur						
Niveau lycée et inférieur	1,52	1,23	1,04	0,93	0,83	0,67
Bac	1,21	1,14	1,05	0,98	0,90	0,79
Bac+2	0,98	1,02	1,04	1,02	0,98	0,94
Bac+3	0,90	0,96	1,00	1,02	1,03	1,05
Bac+4	0,87	0,92	0,97	1,00	1,10	1,12
Bac+5 et plus	0,66	0,78	0,91	1,02	1,14	1,36
Échange prolongé (10^e email)						
Niveau lycée et inférieur	1,93	1,36	0,97	0,82	0,67	0,52
Bac	1,35	1,24	1,04	0,93	0,82	0,68
Bac+2	0,97	1,04	1,08	1,02	0,98	0,89
Bac+3	0,78	0,93	1,03	1,07	1,06	1,06
Bac+4	0,62	0,77	0,96	1,07	1,24	1,28
Bac+5 et plus	0,46	0,61	0,87	1,07	1,26	1,62

< 0,9 Sous-représentation 0,9-1,1 Proche du taux attendu > 1,1 Surreprésentation

Lecture : Lors d'une prise de contact (1^{er} email envoyé), la proportion d'emails envoyés par des utilisateurs indiquant « Bac+5 et plus » à des utilisateurs ayant indiqué ce même niveau de diplôme est 1,36 fois supérieure à la proportion attendue.

Champ : mails échangés en 2014 sur le site *Meetic.fr* entre comptes d'utilisateurs « actifs » indiquant le niveau d'éducation.

Source : Base d'utilisateurs de *Meetic.fr*, 2014, Meetic Group.

Why is there Homogamy Online?

Homogamy is still very much present on online dating sites.

This comes, in part, from the iterative selection process that happens online. Dating online follows three phases:

- the evaluation of user profiles
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In each of these phases, socially differentiated selection mechanisms intervene, where individuals are led to renegotiate their identity.

Social Network and Social Sciences

Who Leads? Who Follows?

Who Leads? Who Follows?

American Political Science Review (2019) 113, 4, 883–901

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Who Leads? Who Follows? Measuring Issue Attention and Agenda Setting by Legislators and the Mass Public Using Social Media Data

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ANDREU CASAS *New York University*

JONATHAN NAGLER *New York University*

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RICHARD BONNEAU *New York University*

JOHN T. JOST *New York University*

JOSHUA A. TUCKER *New York University*

Are legislators responsive to the priorities of the public? Research demonstrates a strong correspondence between the issues about which the public cares and the issues addressed by politicians, but conclusive evidence about who leads whom in setting the political agenda has yet to be uncovered. We answer this question with fine-grained temporal analyses of Twitter messages by legislators and the public during the 113th US Congress. After employing an unsupervised method that classifies tweets sent by legislators and citizens into topics, we use vector autoregression models to explore whose priorities more strongly predict the relationship between citizens and politicians. We find that legislators are more likely to follow, than to lead, discussion of public issues, results that hold even after controlling for the agenda-setting effects of the media. We also find, however, that legislators are more likely to be responsive to their supporters than to the general public.

INTRODUCTION

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Jonathan Nagler , Professor, Wilf Family Department of Politics, New York University, jonathan.nagler@nyu.edu.

Patrick J. Egan , Associate Professor, Wilf Family Department of Politics, New York University, patrick.egan@nyu.edu.

Richard Bonneau, Professor, Center For Genomics and Systems Biology, Courant Institute of Mathematical Sciences, Computer Science Department, and Center for Data Science, New York University; and Flatiron Institute, Center for Computational Biology, Simons Foundation, bonneau@nyu.edu.

An enduring topic in the study of democratic polities is how responsive governments are to the preferences of the public. Two main lines of inquiry lead this research: Do politicians respond to the issue priorities of the public (Edwards and Wood 1999; Jones and Baumgartner 2004; Neundorf and Adams 2018; Sulkin 2005)? And, if so, do they reflect the policy preferences that citizens have on these issues (Caughey and Warshaw 2018; Page and Shapiro 1983; Soroka and Wlezien 2009; Stimson, Mackuen, and Erikson 1995)? Our manuscript focuses on the first of these two questions, because while a correspondence between public and political agendas has definitively been shown

Who Leads? Who Follows?

ONLINE APPENDIX:

Who Leads? Who Follows? Measuring Issue Attention and Agenda Setting by Legislators and the Mass Public Using Social Media Data.

Pablo Barberá, Andreu Casas, Jonathan Nagler, Patrick Egan, Richard Bonneau, John Jost, and Joshua Tucker.

Full paper available [here](#).

Economic Issues

- Topic 13: Small Business
- Topic 17: 2013 Government Shutdown (Republicans)
- Topic 26: 2013 Government Shutdown (Democrats)
- Topic 35: 2013 Budget Sequestration (Republicans)
- Topic 37: Social Security
- Topic 38: Budget Discussion (early 2014)
- Topic 39: Keystone XL Pipeline
- Topic 42: 2013 Budget Sequestration (Democrats)
- Topic 46: Unemployment Numbers Reports
- Topic 47: Paul Ryan's Budget Proposal
- Topic 49: 2013 Budget Agreement
- Topic 53: Minimum Wage
- Topic 59: Budget Discussion (mid-2014)
- Topic 64: FAA Furloughs Cause Flight Delays
- Topic 70: #MiddleClassFirst campaign
- Topic 83: 21st Century Cures Initiative
- Topic 93: Jobs Bills Omnibus

Foreign Policy

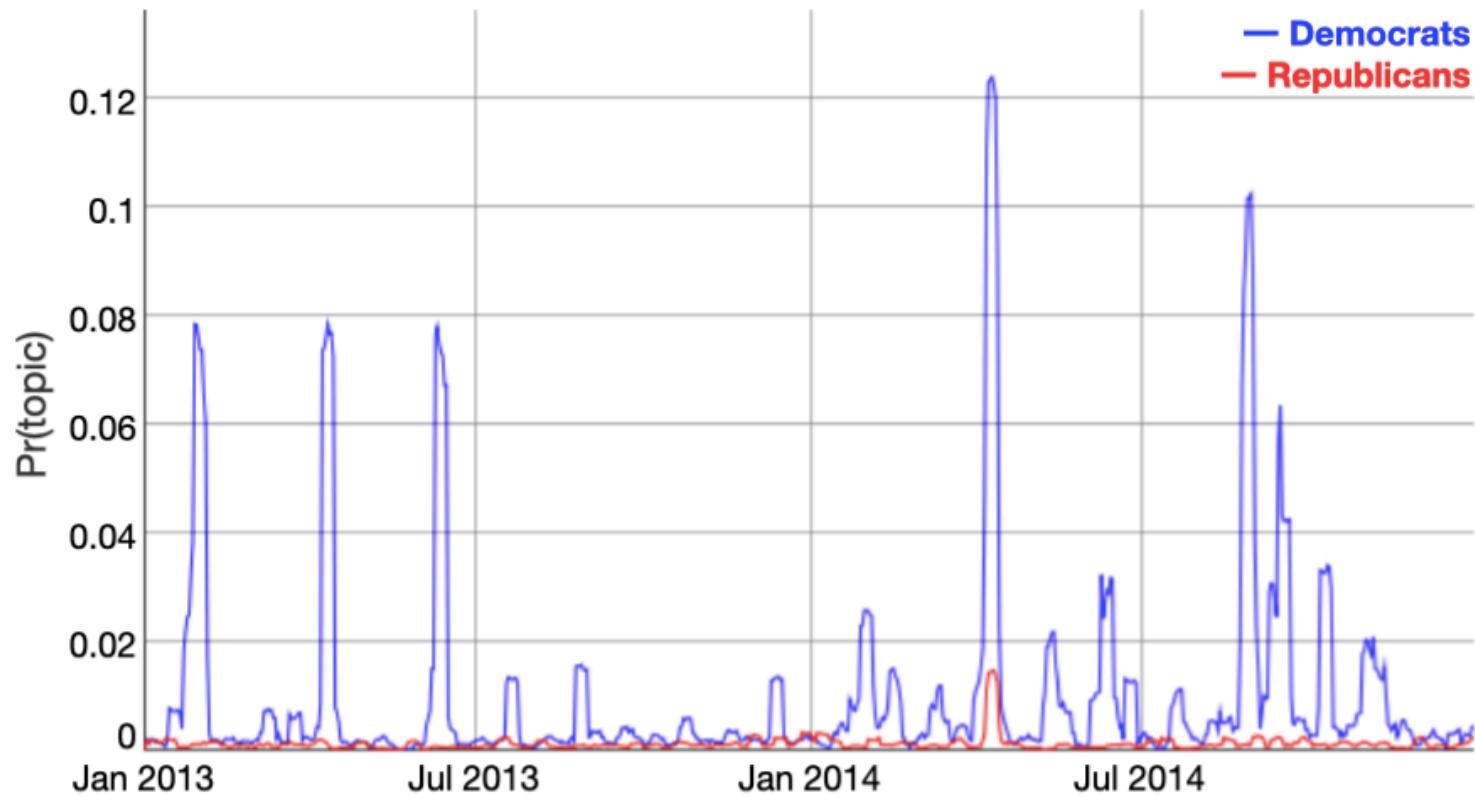
- Topic 7: 100 Days of #BringBackOurGirls campaign
- Topic 23: #BringBackOurGirls campaign
- Topic 32: Islamic State
- Topic 33: Use of Military Force in Syria
- Topic 36: Ebola
- Topic 66: Malaysian Airlines Crash in Ukraine
- Topic 69: Sargent Tahmooreissi Release
- Topic 97: Protests in Ukraine and Venezuela
- Topic 99: CIA Detentions and Interrogations Report

Social Issues

- Topic 9: Gender Wage Gap
- Topic 11: Hobby Lobby Supreme Court Decision (Democrats)

Gender Wage Gap

Topic Usage Over Time:



The Yellow Vests Movement

Who Leads? Who Follows?

What colours are the yellow vests? An ideological scaling of Facebook groups

Jean-Philippe Cointet* Pedro Ramaciotti Morales* Dominique Cardon*

Caterina Froio[†] Andreï Mogoutov* Benjamin Ooghe-Tabanou*
Guillaume Plique*

17 juin 2020

Abstract : The Yellow Vests' motto is “neither right wing nor left wing”. Rather than “taking sides”, they have chosen to dismiss entrenched political parties altogether, setting them back to back. Yet, when they emerged in France the public space was already informed by pre-existing structures and rife with tensions. Their actions are therefore necessarily situated, embedded in this space and imbued with some of its properties. This calls for an examination of the movement’s role and the position of its digital expression on Facebook. How do online citation practices reveal not so much the movement’s political colour, but the political space that informs it and which it in turn informs ? This article answers this question by introducing an original methodological framework that makes it possible to extend ideological embeddedness of Twitter users to posts published on Facebook. We first use a correspondence analysis to reduce the adjacency matrix that links French members of parliament to their Twitter followers. This first step allows us to identify two latent axes which are decisive in explaining the structure of the network. The first dimension distributes individuals according to their position on the left-to-right axis of the political space, and we interpret the second as a measure of distance to power. These two dimensions frame a space in which we then position hundreds of thousands of Twitter users along with URLs and media cited on the platform and, by extension, publications from almost 1,000 of the most active Facebook groups in the Yellow Vests movement. We finally quantify the evolution in these groups’ publications within the latent ideological space, to provide both an interpretation and an answer to the question of the movement’s political orientation. The dynamics observed support the interpretation of a movement that was initially fuelled by far right-wing resources but then quickly shifted to the left while maintaining an attitude of dissent. This portrait sketched through the lens of the Yellow Vests’ use of media on Facebook perfectly illustrates the idea of a multifaceted populism.

The Yellow Vests Movement

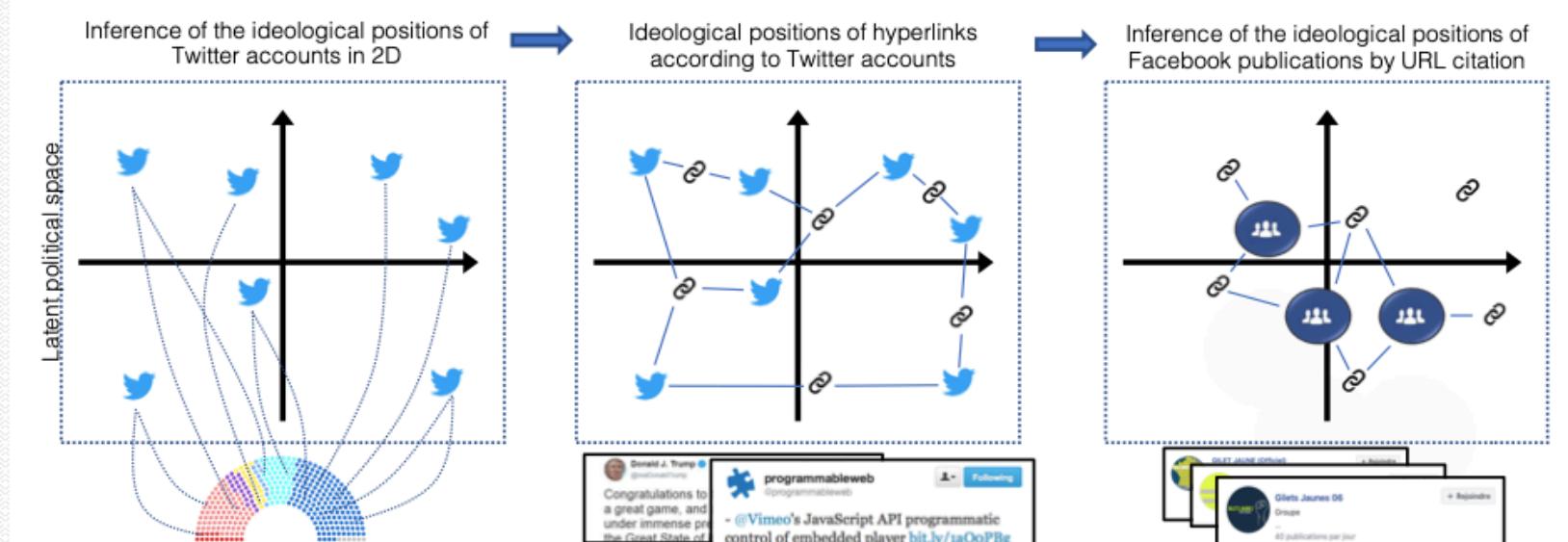


FIGURE 1 – Breakdown of our methodology into three stages. From left to right : inference of an ideological space from Twitter accounts (based on their links to MPs and senators), calculation of the scores of URLs as the average position of the accounts having shared them, and propagation of these scores to the posts and then to the Facebook groups in which these links are shared.

The Yellow Vests Movement

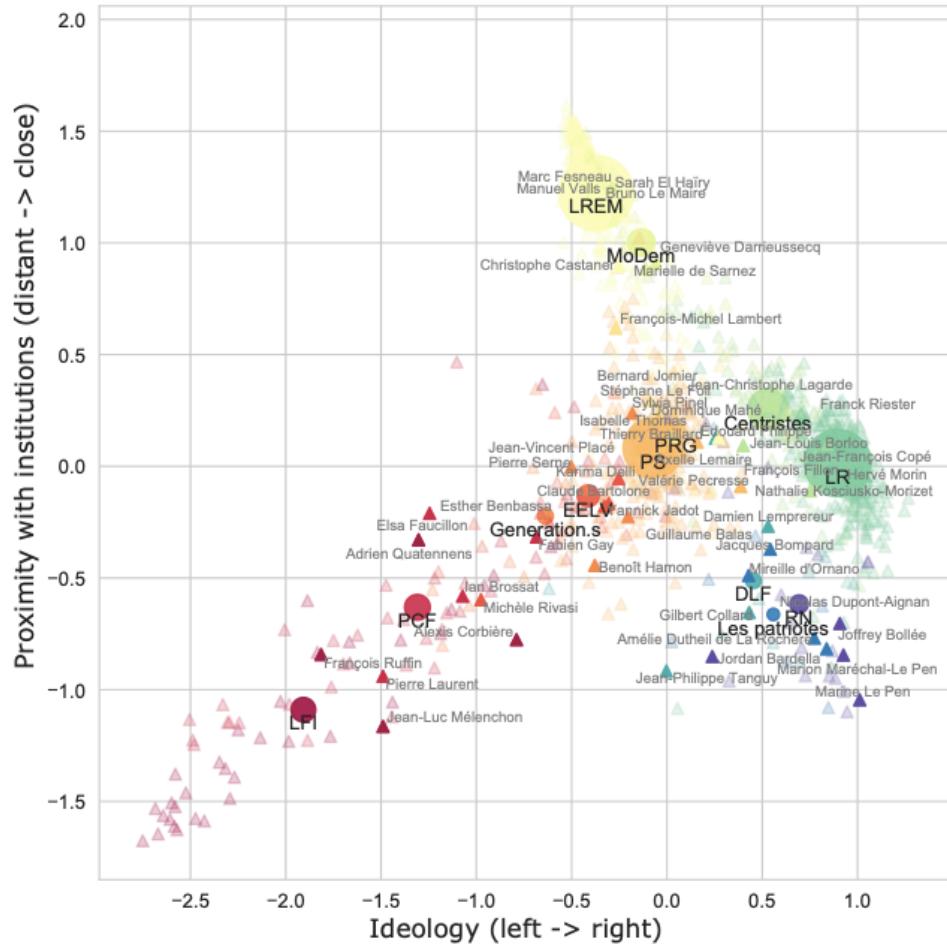


FIGURE 4 – Positions of almost a thousand political accounts (deputies, senators, candidates in the last European elections, ministers or former ministers) in the latent space induced by the correspondence analysis. A few individual accounts are labelled. The accounts of each personality are coloured according to their party, whose average position is represented by a circle and whose size is proportional to its number of elected representatives. The 4 most followed accounts of each party are labelled with their full name.

The Yellow Vests Movement

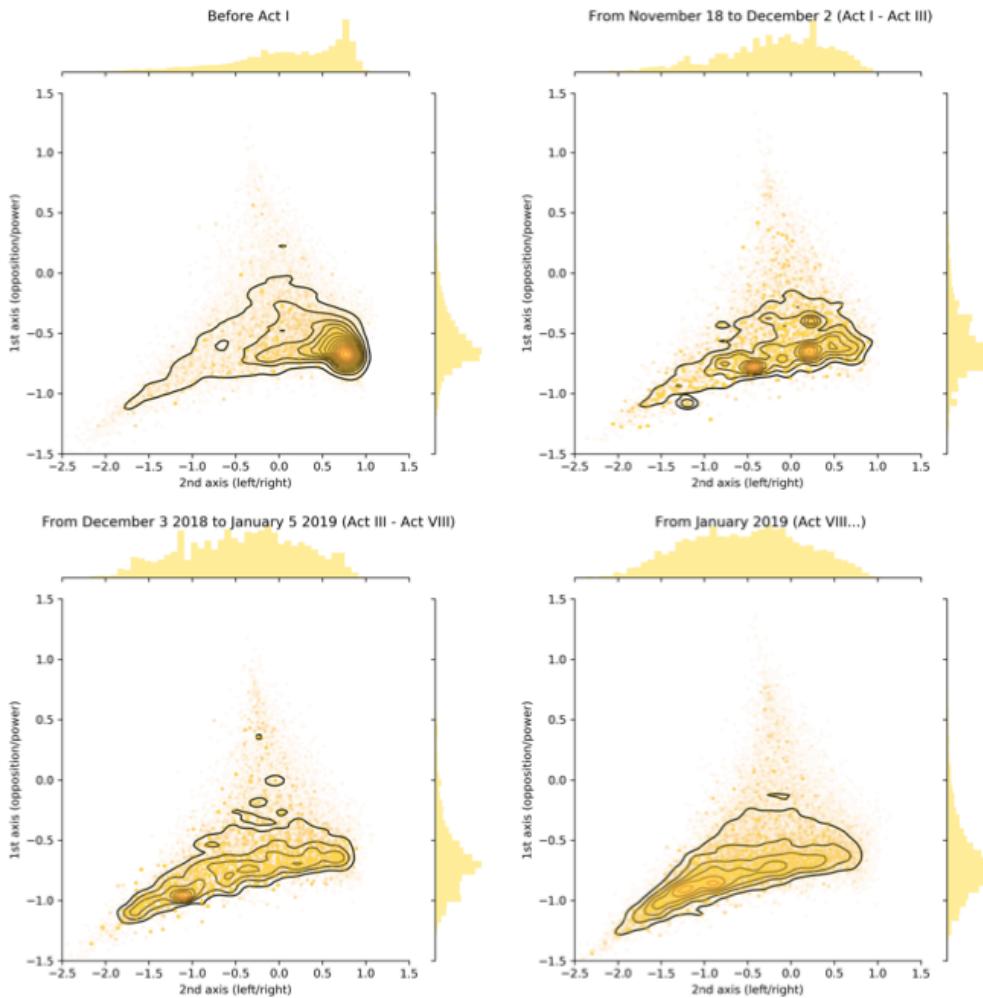
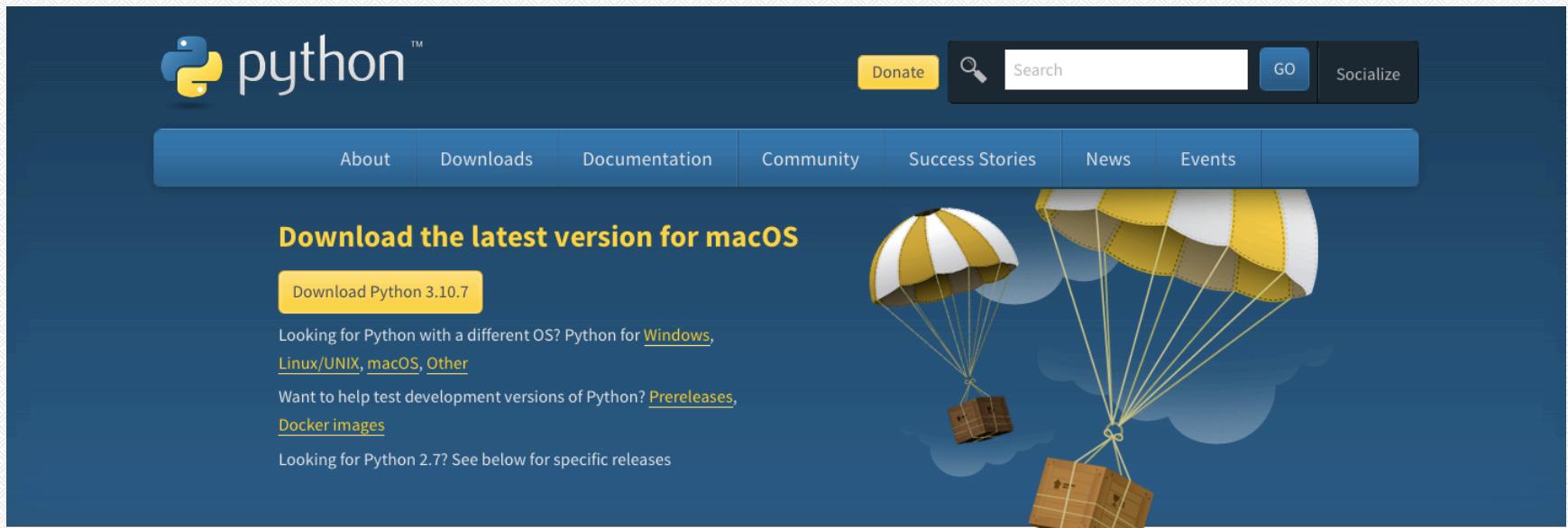


FIGURE 11 – Ideological distribution of Yellow Vest posts as a function of URLs cited in four successive periods. 28 000 random URLs were sampled for each period, so as to construct distributions that correspond to a constant number of entities in each period. The successive concentric contour lines also correspond to a constant density level from one period to the next, which reveals a gradual flattening of the distribution

Tutorial on Data Analysis

Twitter Data Collection Tutorial

- Install Python 3.10.7 on <https://www.python.org/downloads/>



Active Python Releases

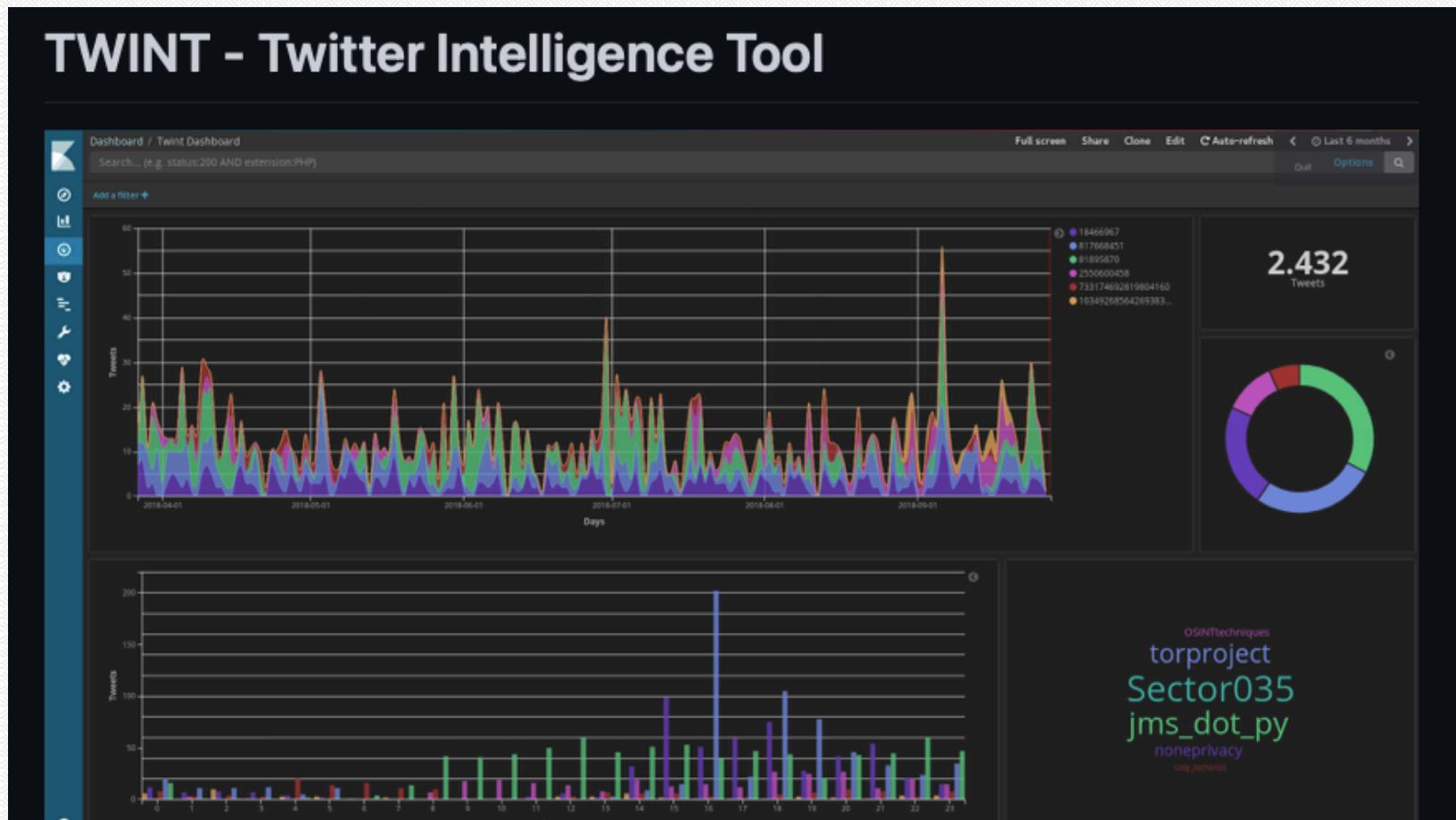
For more information visit the [Python Developer's Guide](#).

Python version	Maintenance status	First released	End of support	Release schedule
3.10	bugfix	2021-10-04	2026-10	PEP 619
3.9	security	2020-10-05	2025-10	PEP 596
3.8	security	2019-10-14	2024-10	PEP 569
3.7	security	2018-06-27	2023-06-27	PEP 537
2.7	end-of-life	2010-07-03	2020-01-01	PEP 373

Twitter Data Collection Tutorial

- Install Twint by running:

```
pip3 install -user -upgrade -e git+https://github.com/twintproject/twint.git@origin/master#egg=twint
```



Twitter Data Collection Tutorial

- Perform a basic tweet collection:

```
twint -s "patagonia" -o patagonia_twitter_data.csv -CSV
```

115	15655613335€ 15655613335€ 2022-09-02 2022-09-02 10:11:21 +0200 126244275 stadedereims Stade de Rein	⚠ CHANGEN fr	🔗 [http://bit.ly/€]	0
116	1565596636€ 1565596636€ 2022-09-02 2022-09-02 09:05:00 +0200 126244275 stadedereims Stade de Rein	#LaConf fr	[{'screen_nar': 'https://pbs.twimg.com/media/...	0
117	1565587829€ 1565587829€ 2022-09-02 2022-09-02 08:30:00 +0200 126244275 stadedereims Stade de Rein	Eric Watte fr	🔗 [https://pbs.twimg.com/media/...	1
118	1568887328€ 1568887328€ 2022-09-11 2022-09-11 11:01:02 +0200 168619698 sciencespo Sciences Po	Nathacha fr	[{'screen_nar': 'https://fal.cr/...', 'https://pbs.twimg.com/media/...	0
119	1568555143€ 1568555143€ 2022-09-10 2022-09-10 13:01:03 +0200 168619698 sciencespo Sciences Po	"There are at en	[{'screen_nar': 'https://fal.cr/...', 'https://pbs.twimg.com/media/...	0
120	1568532484€ 1568532484€ 2022-09-10 2022-09-10 11:31:00 +0200 168619698 sciencespo Sciences Po	Découvrez "C fr	[{'screen_nar': 'https://fal.cr/...', 'https://pbs.twimg.com/media/...	0
121	1568262443€ 1568262443€ 2022-09-09 2022-09-09 17:37:58 +0200 168619698 sciencespo Sciences Po	Feliz anive fr	🔗 [https://pbs.twimg.com/media/...	0
122	1568221968€ 1568221968€ 2022-09-09 2022-09-09 14:57:08 +0200 168619698 sciencespo Sciences Po	En direct de € fr	[{'screen_nar': 'https://fal.cr/...', 'https://pbs.twimg.com/media/...	0
123	1568162548€ 1568162548€ 2022-09-09 2022-09-09 11:01:01 +0200 168619698 sciencespo Sciences Po	"Le mot "libre fr	[{'screen_nar': 'https://fal.cr/...', 'https://pbs.twimg.com/media/...	0
124	15681398974 15681398974 2022-09-09 2022-09-09 09:31:00 +0200 168619698 sciencespo Sciences Po	Rencontre avr fr	[{'screen_nar': 'https://fal.cr/...', 'https://pbs.twimg.com/media/...	0
125	1567906108€ 1567906108€ 2022-09-08 2022-09-08 18:02:01 +0200 168619698 sciencespo Sciences Po	In less than a en	[{'screen_nar': 'https://fal.cr/...', 'https://pbs.twimg.com/media/...	0
126	1567882439€ 1567882439€ 2022-09-08 2022-09-08 16:27:58 +0200 168619698 sciencespo Sciences Po	"Le fil de la ct fr	[{'screen_nar': 'https://fal.cr/...', 'https://pbs.twimg.com/media/...	0
127	1567881567€ 1567880723€ 2022-09-08 2022-09-08 16:24:30 +0200 168619698 sciencespo Sciences Po	@pierregouv_en	🔗 [https://pbs.twimg.com/media/...	0
128	1567878888€ 1567878888€ 2022-09-08 2022-09-08 16:13:51 +0200 168619698 sciencespo Sciences Po	La ministre de fr	[{'screen_nar': 'https://fal.cr/...', 'https://pbs.twimg.com/media/...	0
129	1567877022€ 1567877022€ 2022-09-08 2022-09-08 16:06:26 +0200 168619698 sciencespo Sciences Po	"Je vous souf fr	[{'screen_nar': 'https://fal.cr/...', 'https://pbs.twimg.com/media/...	0
130	1567873317€ 1567873317€ 2022-09-08 2022-09-08 15:51:43 +0200 168619698 sciencespo Sciences Po	Le conseil de fr	[{'screen_nar': 'https://fal.cr/...', 'https://pbs.twimg.com/media/...	0
131	15678718194 15678718194 2022-09-08 2022-09-08 15:45:46 +0200 168619698 sciencespo Sciences Po	"L'actualité nt fr	[{'screen_nar': 'https://fal.cr/...', 'https://pbs.twimg.com/media/...	0
132	15678706017 15678706017 2022-09-08 2022-09-08 15:40:55 +0200 168619698 sciencespo Sciences Po	Le directeur c fr	[{'screen_nar': 'https://fal.cr/...', 'https://pbs.twimg.com/media/...	0
133	1567848552€ 1567848543€ 2022-09-08 2022-09-08 14:13:18 +0200 168619698 sciencespo Sciences Po	Thursday en	🔗 [https://www/]	0
134	1567848549€ 1567848543€ 2022-09-08 2022-09-08 14:13:18 +0200 168619698 sciencespo Sciences Po	Jeudi 15/ fr	[{'screen_nar': 'https://www/']	1
135	1567848547€ 1567848543€ 2022-09-08 2022-09-08 14:13:17 +0200 168619698 sciencespo Sciences Po	Mercredi / fr	[{'screen_nar': 'https://www/']	1
136	1567848543€ 1567848543€ 2022-09-08 2022-09-08 14:13:16 +0200 168619698 sciencespo Sciences Po	Atteintes à la fr	🔗 [https://pbs.twimg.com/media/...	2
137	1567800836€ 1567800836€ 2022-09-08 2022-09-08 11:03:42 +0200 168619698 sciencespo Sciences Po	97% des adm fr	[{'screen_nar': 'https://www/']	0
138	1567770347€ 1567770347€ 2022-09-08 2022-09-08 09:02:33 +0200 168619698 sciencespo Sciences Po	Samedi 17 et fr	[{'screen_nar': 'https://fal.cr/...']	0
139	1567543740€ 1567543740€ 2022-09-07 2022-09-07 18:02:05 +0200 168619698 sciencespo Sciences Po	This year mar en	🔗 [https://fal.cr/...]	0
140	15674391146 15674391146 2022-09-07 2022-09-07 11:06:21 +0200 168619698 sciencespo Sciences Po	Pour célébrer fr	🔗 [https://fal.cr/...]	1
141	1567169504€ 1567169504€ 2022-09-06 2022-09-06 17:15:01 +0200 168619698 sciencespo Sciences Po	Pour quelle ra fr	[{'screen_nar': 'https://fal.cr/...']	0
142	15671360562 15671360562 2022-09-06 2022-09-06 15:02:06 +0200 168619698 sciencespo Sciences Po	How to digitis fr	[{'screen_nar': 'https://fal.cr/...']	0
143	15671061606 15671061606 2022-09-06 2022-09-06 13:03:18 +0200 168619698 sciencespo Sciences Po	L'écrivain fr	🔗 [https://fal.cr/...]	0
144	15670774730 15670774730 2022-09-06 2022-09-06 11:09:19 +0200 168619698 sciencespo Sciences Po	Retour en ima fr	[{'screen_nar': 'https://pbs.twimg.com/media/...']	0
145	1566843797€ 1566843797€ 2022-09-05 2022-09-05 19:40:46 +0200 168619698 sciencespo Sciences Po	Watch live en	[{'screen_nar': 'https://youtu/']	2
146	1566842472€ 1566842472€ 2022-09-05 2022-09-05 19:35:30 +0200 168619698 sciencespo Sciences Po	@sguriev en	[{'screen_nar': 'https://youtu/']	0
147	1566803592€ 1566803592€ 2022-09-05 2022-09-05 17:01:00 +0200 168619698 sciencespo Sciences Po	Quel bilan poi fr	[{'screen_nar': 'https://fal.cr/...']	0
148	15667741071 15667741071 2022-09-05 2022-09-05 15:03:51 +0200 168619698 sciencespo Sciences Po	The Global La en	[{'screen_nar': 'https://fal.cr/...']	0
149	1566743194€ 1566743194€ 2022-09-05 2022-09-05 13:01:01 +0200 168619698 sciencespo Sciences Po	Découvrez le! fr	[{'screen_nar': 'https://fal.cr/...']	0
150	15667130404 15667130404 2022-09-05 2022-09-05 11:01:11 +0200 168619698 sciencespo Sciences Po	#FreeFariba T fr	[{'screen_nar': 'https://fal.cr/...']	2
151	15664701785 15664701785 2022-09-04 2022-09-04 18:56:08 +0200 168619698 sciencespo Sciences Po	Watch this an en	🔗 [https://pbs.twimg.com/media/...]	0
152	1566019930€ 1566019930€ 2022-09-03 2022-09-03 13:07:01 +0200 168619698 sciencespo Sciences Po	@science en	[{'screen_nar': 'https://fal.cr/...']	3
153	15665656030! 15665656030! 2022-09-02 2022-09-02 13:01:00 +0200 168619698 sciencespo Sciences Po	Quels sont les fr	[{'screen_nar': 'https://fal.cr/...']	1
154	1566525863! 1566525863! 2022-09-02 2022-09-02 11:01:08 +0200 168619698 sciencespo Sciences Po	#VendrediLec fr	[{'screen_nar': 'https://fal.cr/...']	0
155	1565293641€ 1565293641€ 2022-09-01 2022-09-01 13:01:00 +0200 168619698 sciencespo Sciences Po	Écouter la pla fr	[{'screen_nar': 'https://fal.cr/...']	0
156	15652739134 15652739134 2022-09-01 2022-09-01 11:42:37 +0200 168619698 sciencespo Sciences Po	Découvrez le! fr	🔗 [https://pbs.twimg.com/media/...]	0

Twitter Data Collection Tutorial

- Perform a basic tweet collection:

```
twint -g="48.880048,2.385939,1km" -o file.csv -CSV
```

115	15655613335€ 15655613335€	2022-09-02	2022-09-02	10:11:21	+0200	126244275	stadedereims	Stade de Reims	⚠ CHANGEN fr	HTTP://bit.ly/	0
116	1565596636€ 1565596636€	2022-09-02	2022-09-02	09:05:00	+0200	126244275	stadedereims	Stade de Reims	#LaConf fr	['screen_nar']	['https://pbs.t 0
117	1565587829€ 1565587829€	2022-09-02	2022-09-02	08:30:00	+0200	126244275	stadedereims	Stade de Reims	Eric Watte fr	HTTP://	['https://pbs.t 1
118	1568887328€ 1568887328€	2022-09-11	2022-09-11	11:01:02	+0200	168619698	sciencespo	Sciences Po	Nathacha fr	['screen_nar']	['https://pbs.t 0
119	1568555143€ 1568555143€	2022-09-10	2022-09-10	13:01:03	+0200	168619698	sciencespo	Sciences Po	"There are at en	['screen_nar']	['https://pbs.t 0
120	1568532484€ 1568532484€	2022-09-10	2022-09-10	11:31:00	+0200	168619698	sciencespo	Sciences Po	Découvrez "C fr	['screen_nar']	['https://pbs.t 0
121	1568262443€ 1568262443€	2022-09-09	2022-09-09	17:37:58	+0200	168619698	sciencespo	Sciences Po	Feliz anive fr	['screen_nar']	['https://pbs.t 0
122	1568221968€ 1568221968€	2022-09-09	2022-09-09	14:57:08	+0200	168619698	sciencespo	Sciences Po	En direct de € fr	['screen_nar']	['https://pbs.t 0
123	1568162548€ 1568162548€	2022-09-09	2022-09-09	11:01:01	+0200	168619698	sciencespo	Sciences Po	"Le mot "libre fr	['screen_nar']	['https://pbs.t 0
124	15681398974 15681398974	2022-09-09	2022-09-09	09:31:00	+0200	168619698	sciencespo	Sciences Po	Rencontre avr fr	['screen_nar']	['https://pbs.t 0
125	1567906108€ 1567906108€	2022-09-08	2022-09-08	18:02:01	+0200	168619698	sciencespo	Sciences Po	In less than a en	['screen_nar']	['https://pbs.t 0
126	1567882439€ 1567882439€	2022-09-08	2022-09-08	16:27:58	+0200	168619698	sciencespo	Sciences Po	"Le fil de la ct fr	['screen_nar']	['https://pbs.t 0
127	1567881567€ 1567880723€	2022-09-08	2022-09-08	16:24:30	+0200	168619698	sciencespo	Sciences Po	@pierregov_ en	HTTP://	0
128	1567878888€ 1567878888€	2022-09-08	2022-09-08	16:13:51	+0200	168619698	sciencespo	Sciences Po	La ministre de fr	['screen_nar']	['https://pbs.t 0
129	1567877022€ 1567877022€	2022-09-08	2022-09-08	16:06:26	+0200	168619698	sciencespo	Sciences Po	"Je vous souf fr	['screen_nar']	['https://pbs.t 0
130	1567873317€ 1567873317€	2022-09-08	2022-09-08	15:51:43	+0200	168619698	sciencespo	Sciences Po	Le conseil de fr	['screen_nar']	['https://pbs.t 0
131	15678718194 15678718194	2022-09-08	2022-09-08	15:45:46	+0200	168619698	sciencespo	Sciences Po	"L'actualité nt fr	['screen_nar']	['https://pbs.t 0
132	15678706017 15678706017	2022-09-08	2022-09-08	15:40:55	+0200	168619698	sciencespo	Sciences Po	Le directeur c fr	['screen_nar']	['https://pbs.t 0
133	1567848552€ 1567848543€	2022-09-08	2022-09-08	14:13:18	+0200	168619698	sciencespo	Sciences Po	Thursday en	HTTP://	0
134	1567848549€ 1567848543€	2022-09-08	2022-09-08	14:13:18	+0200	168619698	sciencespo	Sciences Po	Jeudi 15/ fr	['screen_nar']	['https://www 1
135	1567848547€ 1567848543€	2022-09-08	2022-09-08	14:13:17	+0200	168619698	sciencespo	Sciences Po	Mercredi / fr	['screen_nar']	['https://www 1
136	1567848543€ 1567848543€	2022-09-08	2022-09-08	14:13:16	+0200	168619698	sciencespo	Sciences Po	Atteintes à la fr	HTTP://	['https://pbs.t 2
137	1567800836€ 1567800836€	2022-09-08	2022-09-08	11:03:42	+0200	168619698	sciencespo	Sciences Po	97% des adm fr	['screen_nar']	['https://www ['https://pbs.t 0
138	1567770347€ 1567770347€	2022-09-08	2022-09-08	09:02:33	+0200	168619698	sciencespo	Sciences Po	Samedi 17 et fr	['screen_nar']	['https://fal.cr ['https://pbs.t 0
139	1567543740€ 1567543740€	2022-09-07	2022-09-07	18:02:05	+0200	168619698	sciencespo	Sciences Po	This year mar en	HTTP://	['https://fal.cr ['https://pbs.t 0
140	15674391146 15674391146	2022-09-07	2022-09-07	11:06:21	+0200	168619698	sciencespo	Sciences Po	Pour célébrer fr	HTTP://	['https://fal.cr ['https://pbs.t 1
141	1567169504€ 1567169504€	2022-09-06	2022-09-06	17:15:01	+0200	168619698	sciencespo	Sciences Po	Pour quelle ra fr	['screen_nar']	['https://fal.cr 0
142	15671360562 15671360562	2022-09-06	2022-09-06	15:02:06	+0200	168619698	sciencespo	Sciences Po	How to digitis fr	['screen_nar']	['https://fal.cr ['https://pbs.t 0
143	15671061606 15671061606	2022-09-06	2022-09-06	13:03:18	+0200	168619698	sciencespo	Sciences Po	L'écrivain fr	HTTP://	['https://fal.cr 0
144	15670774730 15670774730	2022-09-06	2022-09-06	11:09:19	+0200	168619698	sciencespo	Sciences Po	Retour en ima fr	['screen_nar']	['https://pbs.t 0
145	1566843797€ 1566843797€	2022-09-05	2022-09-05	19:40:46	+0200	168619698	sciencespo	Sciences Po	Watch live en	['screen_nar']	['https://yout ['https://pbs.t 2
146	1566842472€ 1566842472€	2022-09-05	2022-09-05	19:35:30	+0200	168619698	sciencespo	Sciences Po	@sguriev en	['screen_nar']	['https://yout ['https://pbs.t 0
147	1566803592€ 1566803592€	2022-09-05	2022-09-05	17:01:00	+0200	168619698	sciencespo	Sciences Po	Quel bilan poi fr	['screen_nar']	['https://fal.cr 0
148	15667741071 15667741071	2022-09-05	2022-09-05	15:03:51	+0200	168619698	sciencespo	Sciences Po	The Global La en	['screen_nar']	['https://pbs.t 0
149	15667431949 15667431949	2022-09-05	2022-09-05	13:01:01	+0200	168619698	sciencespo	Sciences Po	Découvrez le! fr	['screen_nar']	['https://fal.cr 0
150	15667130404 15667130404	2022-09-05	2022-09-05	11:01:11	+0200	168619698	sciencespo	Sciences Po	#FreeFariba T fr	['screen_nar']	['https://fal.cr ['https://pbs.t 2
151	15664701785 15664701785	2022-09-04	2022-09-04	18:56:08	+0200	168619698	sciencespo	Sciences Po	Watch this an en	HTTP://	0
152	1566019930€ 1566019930€	2022-09-03	2022-09-03	13:07:01	+0200	168619698	sciencespo	Sciences Po	@science en	['screen_nar']	['https://fal.cr 3
153	15665656030! 15665656030!	2022-09-02	2022-09-02	13:01:00	+0200	168619698	sciencespo	Sciences Po	Quels sont les fr	['screen_nar']	['https://fal.cr 1
154	1566525863! 1566525863!	2022-09-02	2022-09-02	11:01:08	+0200	168619698	sciencespo	Sciences Po	#VendrediLec fr	['screen_nar']	['https://fal.cr ['https://pbs.t 0
155	1565293641€ 1565293641€	2022-09-01	2022-09-01	13:01:00	+0200	168619698	sciencespo	Sciences Po	Écouter la pla fr	['screen_nar']	['https://fal.cr 0
156	15652739134 15652739134	2022-09-01	2022-09-01	11:42:37	+0200	168619698	sciencespo	Sciences Po	Découvrez le! fr	HTTP://	0

Twitter Data Collection Tutorial

- Perform a basic tweet collection:

```
twint -u "POTUS"
```

115	15655613335€	15655613335€	2022-09-02	2022-09-02	10:11:21	+0200	126244275	stadedereims	Stade de Rein	⚠ CHANGEN fr	HTTP://bit.ly/	0
116	1565596636€	1565596636€	2022-09-02	2022-09-02	09:05:00	+0200	126244275	stadedereims	Stade de Rein	#LaConf fr	['screen_nar']	['https://pbs.t 0
117	1565587829€	1565587829€	2022-09-02	2022-09-02	08:30:00	+0200	126244275	stadedereims	Stade de Rein	Eric Watte fr	HTTP://bit.ly/	1
118	1568887328€	1568887328€	2022-09-11	2022-09-11	11:01:02	+0200	168619698	sciencespo	Sciences Po	Nathacha fr	['screen_nar']	['https://pbs.t 0
119	1568555143€	1568555143€	2022-09-10	2022-09-10	13:01:03	+0200	168619698	sciencespo	Sciences Po	"There are at en	['screen_nar']	['https://pbs.t 0
120	1568532484€	1568532484€	2022-09-10	2022-09-10	11:31:00	+0200	168619698	sciencespo	Sciences Po	Découvrez "C fr	['screen_nar']	['https://pbs.t 0
121	1568262443€	1568262443€	2022-09-09	2022-09-09	17:37:58	+0200	168619698	sciencespo	Sciences Po	Feliz anive fr	HTTP://bit.ly/	0
122	1568221968€	1568221968€	2022-09-09	2022-09-09	14:57:08	+0200	168619698	sciencespo	Sciences Po	En direct de € fr	['screen_nar']	['https://pbs.t 0
123	1568162548€	1568162548€	2022-09-09	2022-09-09	11:01:01	+0200	168619698	sciencespo	Sciences Po	"Le mot "libre fr	['screen_nar']	['https://pbs.t 0
124	15681398974	15681398974	2022-09-09	2022-09-09	09:31:00	+0200	168619698	sciencespo	Sciences Po	Rencontre avr fr	['screen_nar']	['https://pbs.t 0
125	1567906108€	1567906108€	2022-09-08	2022-09-08	18:02:01	+0200	168619698	sciencespo	Sciences Po	In less than a en	['screen_nar']	['https://pbs.t 0
126	1567882439€	1567882439€	2022-09-08	2022-09-08	16:27:58	+0200	168619698	sciencespo	Sciences Po	"Le fil de la ct fr	['screen_nar']	['https://pbs.t 0
127	1567881567€	1567880723€	2022-09-08	2022-09-08	16:24:30	+0200	168619698	sciencespo	Sciences Po	@pierregouv_en	HTTP://bit.ly/	0
128	1567878888€	1567878888€	2022-09-08	2022-09-08	16:13:51	+0200	168619698	sciencespo	Sciences Po	La ministre de fr	['screen_nar']	['https://pbs.t 0
129	1567877022€	1567877022€	2022-09-08	2022-09-08	16:06:26	+0200	168619698	sciencespo	Sciences Po	"Je vous souffr	['screen_nar']	['https://pbs.t 0
130	1567873317€	1567873317€	2022-09-08	2022-09-08	15:51:43	+0200	168619698	sciencespo	Sciences Po	Le conseil de fr	['screen_nar']	['https://pbs.t 0
131	15678718194	15678718194	2022-09-08	2022-09-08	15:45:46	+0200	168619698	sciencespo	Sciences Po	"L'actualité nt fr	['screen_nar']	['https://pbs.t 0
132	15678706017	15678706017	2022-09-08	2022-09-08	15:40:55	+0200	168619698	sciencespo	Sciences Po	Le directeur c fr	['screen_nar']	['https://pbs.t 0
133	1567848552€	1567848543€	2022-09-08	2022-09-08	14:13:18	+0200	168619698	sciencespo	Sciences Po	Thursday en	HTTP://bit.ly/	0
134	1567848549€	1567848543€	2022-09-08	2022-09-08	14:13:18	+0200	168619698	sciencespo	Sciences Po	Jeudi 15/ fr	['screen_nar']	['https://www. 1
135	1567848547€	1567848543€	2022-09-08	2022-09-08	14:13:17	+0200	168619698	sciencespo	Sciences Po	Mercredi / fr	['screen_nar']	['https://www. 1
136	1567848543€	1567848543€	2022-09-08	2022-09-08	14:13:16	+0200	168619698	sciencespo	Sciences Po	Atteintes à la fr	HTTP://bit.ly/	2
137	1567800836€	1567800836€	2022-09-08	2022-09-08	11:03:42	+0200	168619698	sciencespo	Sciences Po	97% des adm fr	['screen_nar']	['https://www. ['https://pbs.t 0
138	1567770347€	1567770347€	2022-09-08	2022-09-08	09:02:33	+0200	168619698	sciencespo	Sciences Po	Samedi 17 et fr	['screen_nar']	['https://pbs.t 0
139	1567543740€	1567543740€	2022-09-07	2022-09-07	18:02:05	+0200	168619698	sciencespo	Sciences Po	This year mar en	HTTP://bit.ly/	0
140	15674391146	15674391146	2022-09-07	2022-09-07	11:06:21	+0200	168619698	sciencespo	Sciences Po	Pour célébrer fr	HTTP://bit.ly/	1
141	1567169504€	1567169504€	2022-09-06	2022-09-06	17:15:01	+0200	168619698	sciencespo	Sciences Po	Pour quelle ra fr	['screen_nar']	['https://pbs.t 0
142	15671360562	15671360562	2022-09-06	2022-09-06	15:02:06	+0200	168619698	sciencespo	Sciences Po	How to digitis fr	['screen_nar']	['https://pbs.t 0
143	15671061606	15671061606	2022-09-06	2022-09-06	13:03:18	+0200	168619698	sciencespo	Sciences Po	L'écrivain fr	HTTP://bit.ly/	0
144	15670774730	15670774730	2022-09-06	2022-09-06	11:09:19	+0200	168619698	sciencespo	Sciences Po	Retour en ima fr	['screen_nar']	['https://pbs.t 0
145	1566843797€	1566843797€	2022-09-05	2022-09-05	19:40:46	+0200	168619698	sciencespo	Sciences Po	Watch live en	['screen_nar']	['https://pbs.t 2
146	1566842472€	1566842472€	2022-09-05	2022-09-05	19:35:30	+0200	168619698	sciencespo	Sciences Po	@sguriev en	['screen_nar']	['https://youtu. ['https://pbs.t 0
147	1566803592€	1566803592€	2022-09-05	2022-09-05	17:01:00	+0200	168619698	sciencespo	Sciences Po	Quel bilan poi fr	['screen_nar']	['https://pbs.t 0
148	15667741071	15667741071	2022-09-05	2022-09-05	15:03:51	+0200	168619698	sciencespo	Sciences Po	The Global La en	['screen_nar']	['https://pbs.t 0
149	15667431949	15667431949	2022-09-05	2022-09-05	13:01:01	+0200	168619698	sciencespo	Sciences Po	Découvrez le! fr	['screen_nar']	['https://pbs.t 0
150	15667130404	15667130404	2022-09-05	2022-09-05	11:01:11	+0200	168619698	sciencespo	Sciences Po	#FreeFariba T fr	['screen_nar']	['https://pbs.t 2
151	15664701785	15664701785	2022-09-04	2022-09-04	18:56:08	+0200	168619698	sciencespo	Sciences Po	Watch this an en	HTTP://bit.ly/	0
152	1566019930€	1566019930€	2022-09-03	2022-09-03	13:07:01	+0200	168619698	sciencespo	Sciences Po	@science en	['screen_nar']	['https://pbs.t 3
153	15665656030!	15665656030!	2022-09-02	2022-09-02	13:01:00	+0200	168619698	sciencespo	Sciences Po	Quels sont les fr	['screen_nar']	['https://pbs.t 1
154	1565625863€	1565625863€	2022-09-02	2022-09-02	11:01:08	+0200	168619698	sciencespo	Sciences Po	#VendrediLec fr	['screen_nar']	['https://pbs.t 0
155	1565293641€	1565293641€	2022-09-01	2022-09-01	13:01:00	+0200	168619698	sciencespo	Sciences Po	Écouter la pla fr	['screen_nar']	['https://pbs.t 0
156	15652739134	15652739134	2022-09-01	2022-09-01	11:42:37	+0200	168619698	sciencespo	Sciences Po	Découvrez le fr	HTTP://bit.ly/	0

Twitter Data Collection Tutorial

Explore the documentation: <https://github.com/twintproject/twint> !

Twitter Data Collection Tutorial

Explore with the Python language

- <https://osintfr.com/en/ukraine-twitter-analysis-twint-gephi-tutorial/>
- <https://pub.towardsai.net/getting-valuable-insights-and-visualizations-from-tweets-using-python-and-twint-28d9f9eb9128>

Questions on Digital Explorations

Questions on Digital Explorations

Homework

- optional — watch The Social Dilemma
 - <https://www.thesocialdilemma.com>
- read First Draft's guide to fake news:
 - [https://firstdraftnews.org/articles/fake-news-
complicated/](https://firstdraftnews.org/articles/fake-news-complicated/)
- think about what type of information you see rarely on social media

To go further

THE NEW YORK TIMES BESTSELLER

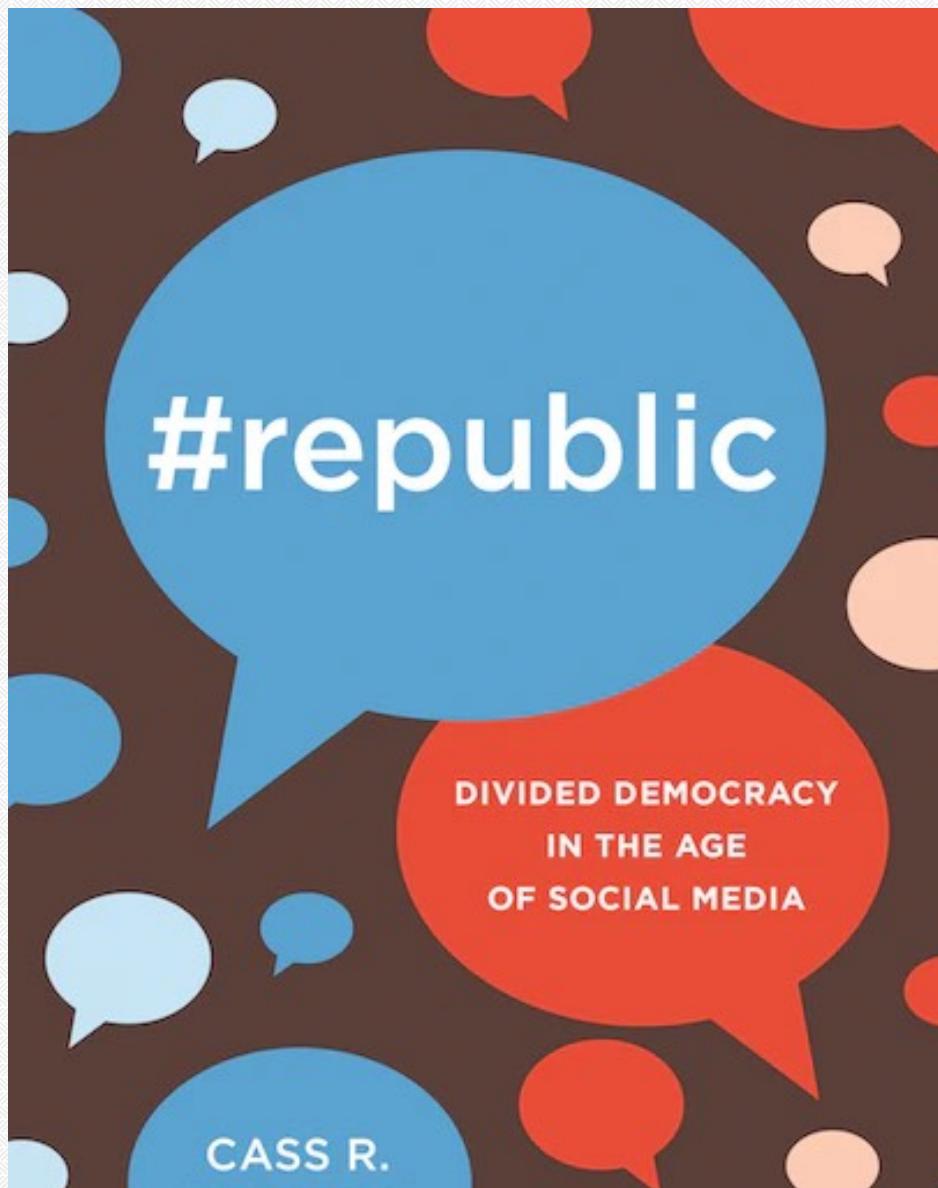
THE FILTER BUBBLE

What the Internet is
Hiding from You



‘Astonishing’
Andrew Marr

To go further



Thank you!