

EVOLUTION OF COMMUNITIES ON TWITTER DURING THE 2017 FRENCH PRESIDENTIAL ELECTION

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algodiv



Observation



François Hollande @fhollande · 1 déc. 2016

Aussi, j'ai décidé de ne pas être candidat au renouvellement de mon mandat



1,3 k



12 k



6,7 k

- The 2017 French presidential election was unconventional and surprising.
- Twitter is part of the communication strategy of every major candidates.

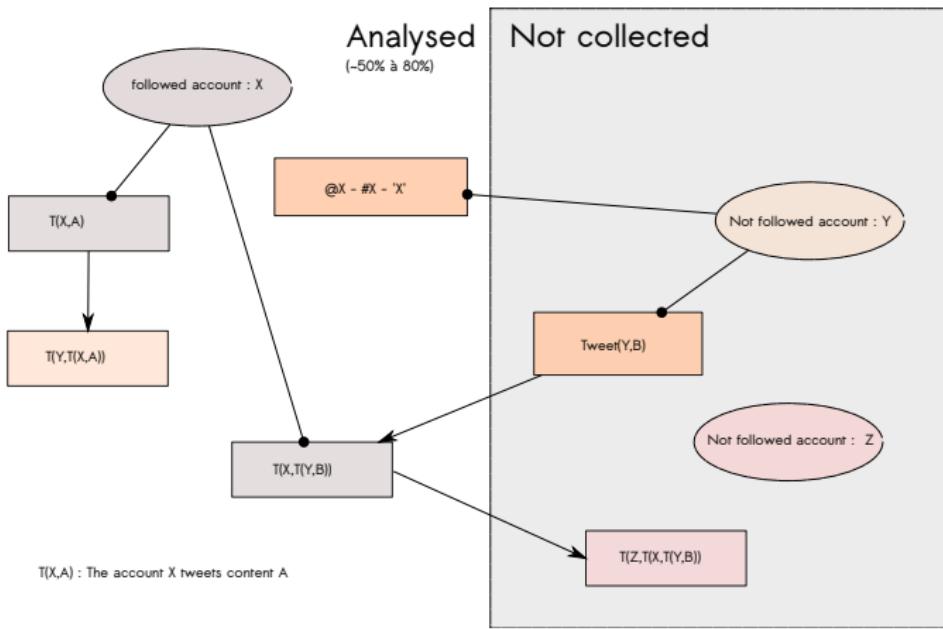
Data - collected since June 2016

Following ≈ 3700 accounts of political figures with the *track* and *follow* Twitter API).

le 8 juin 2017

Tweets :
 $> 60M$

Unique user: $> 2.4M$



Definition of social communities

Lots of variables :

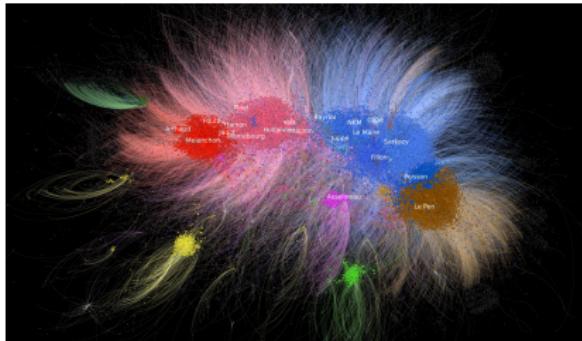
- The follower/followee relation
- **The retweet relations**
- The semantic proximity
- The mentions @
- The reply links
- ...

We choose to first analyse the dynamics of communities. The retweet relations is dynamic and is less ambiguous than mentions and replies.

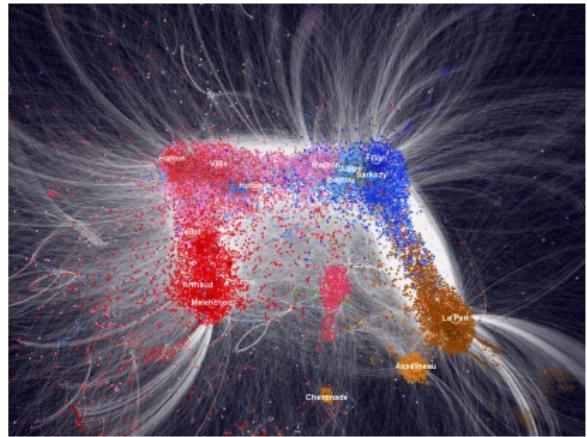
Definition of social communities

Goal : Identification of political communities through the graph of retweets.
Louvain + strong link

Communities detection on which time window

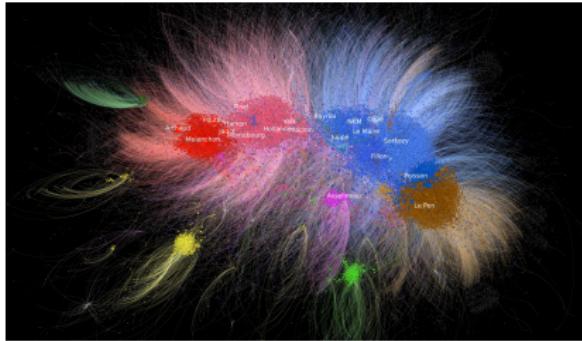


From August to December

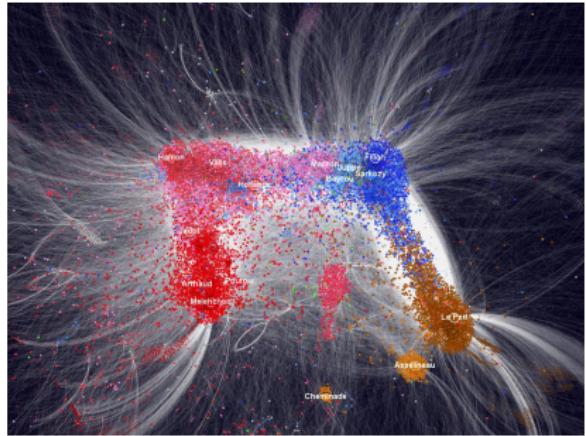


From August to February

Communities detection on which time window



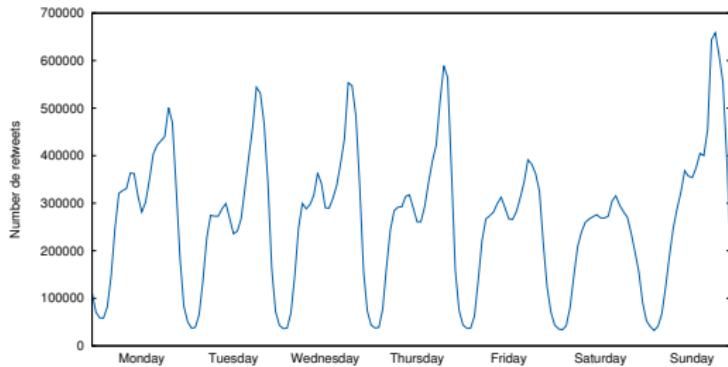
From August to December



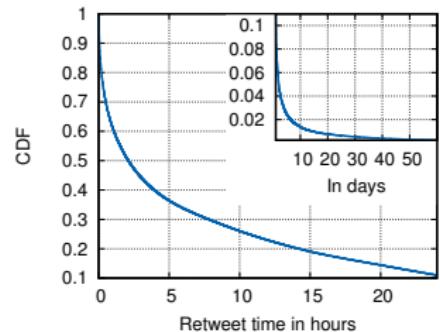
From August to February

Too short → empty graph
Too long → clique-like graph

Retweet time

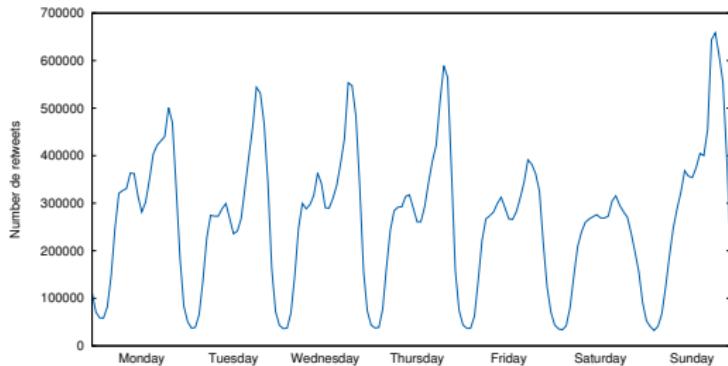


Weekly pattern of retweets

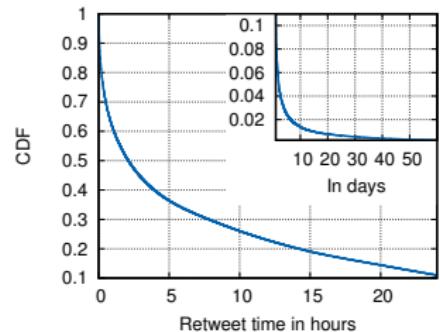


Retweet time converse
cumulative distribution

Retweet time



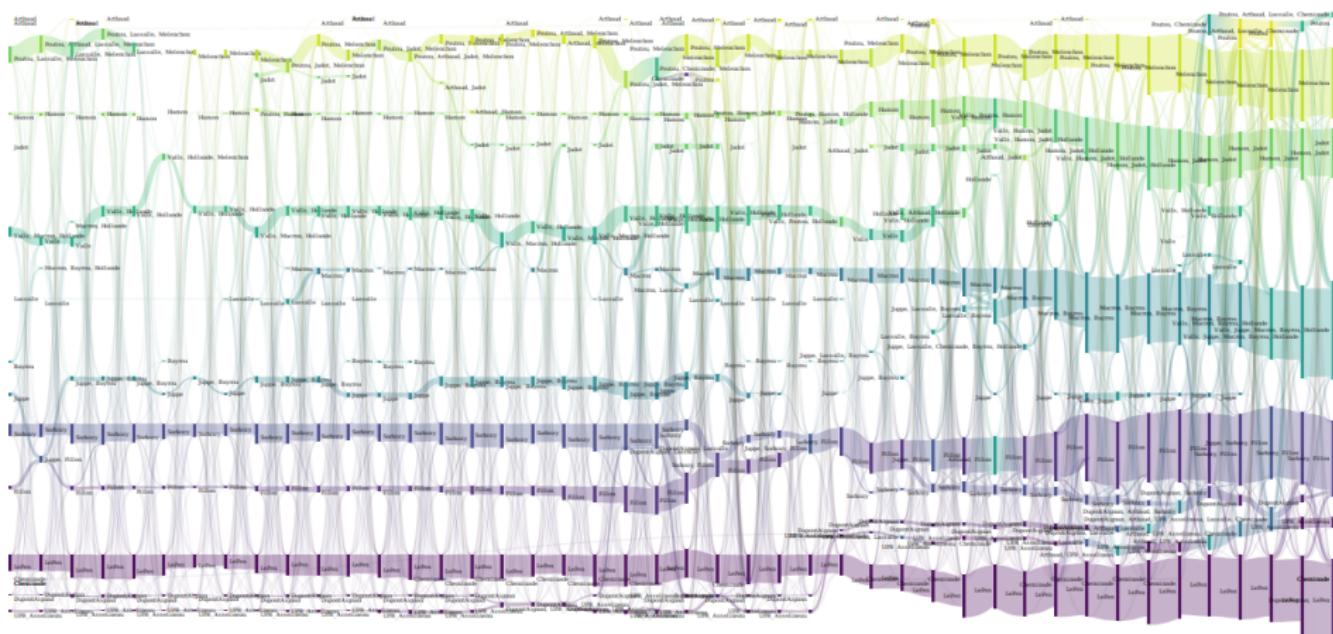
Weekly pattern of retweets



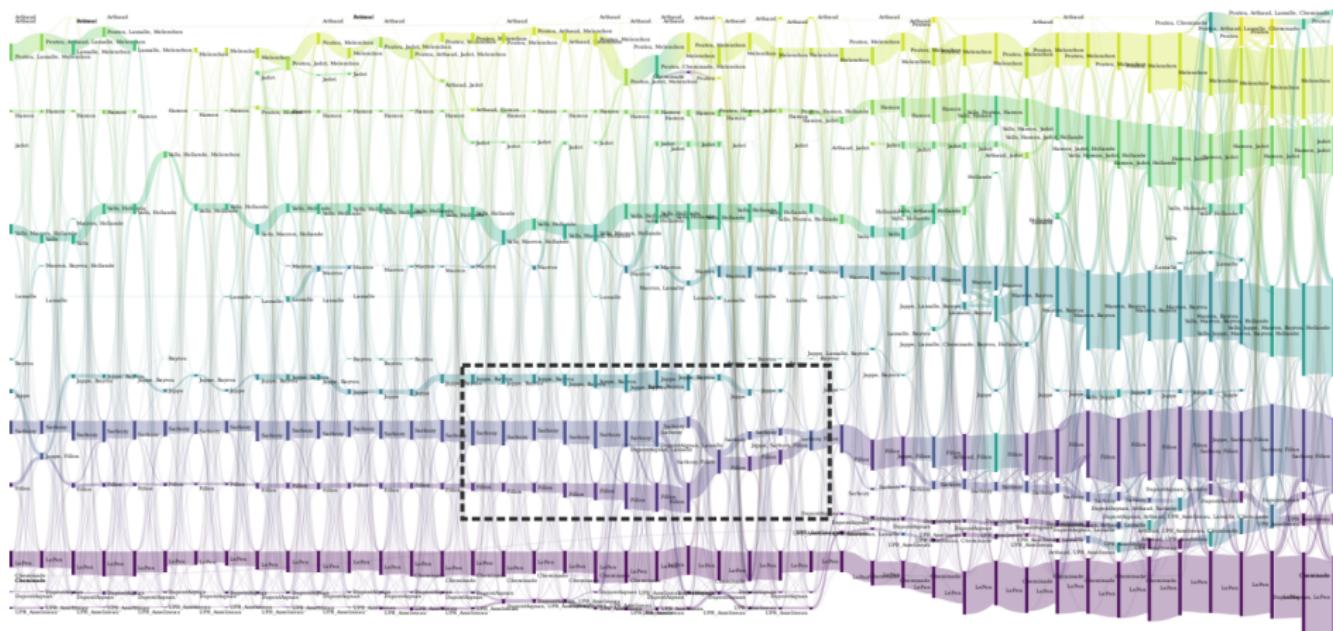
Retweet time converse
cumulative distribution

Two weeks sliding periods for the retweet graphs.

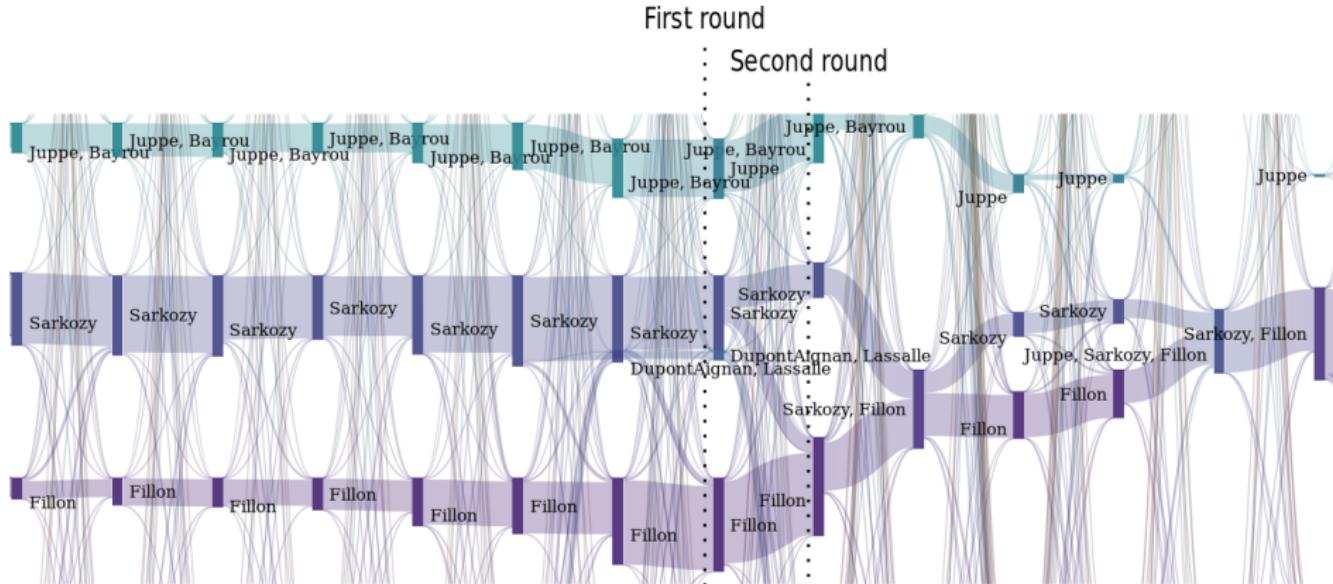
Community Evolution



Community Evolution

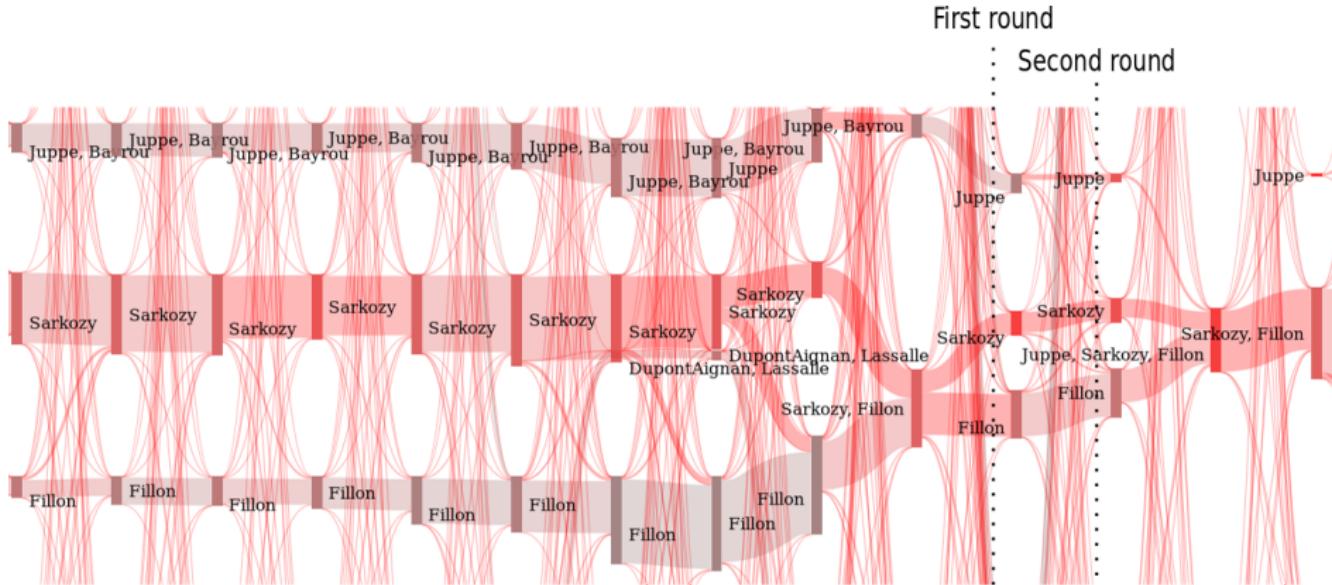


Focus on the right primary

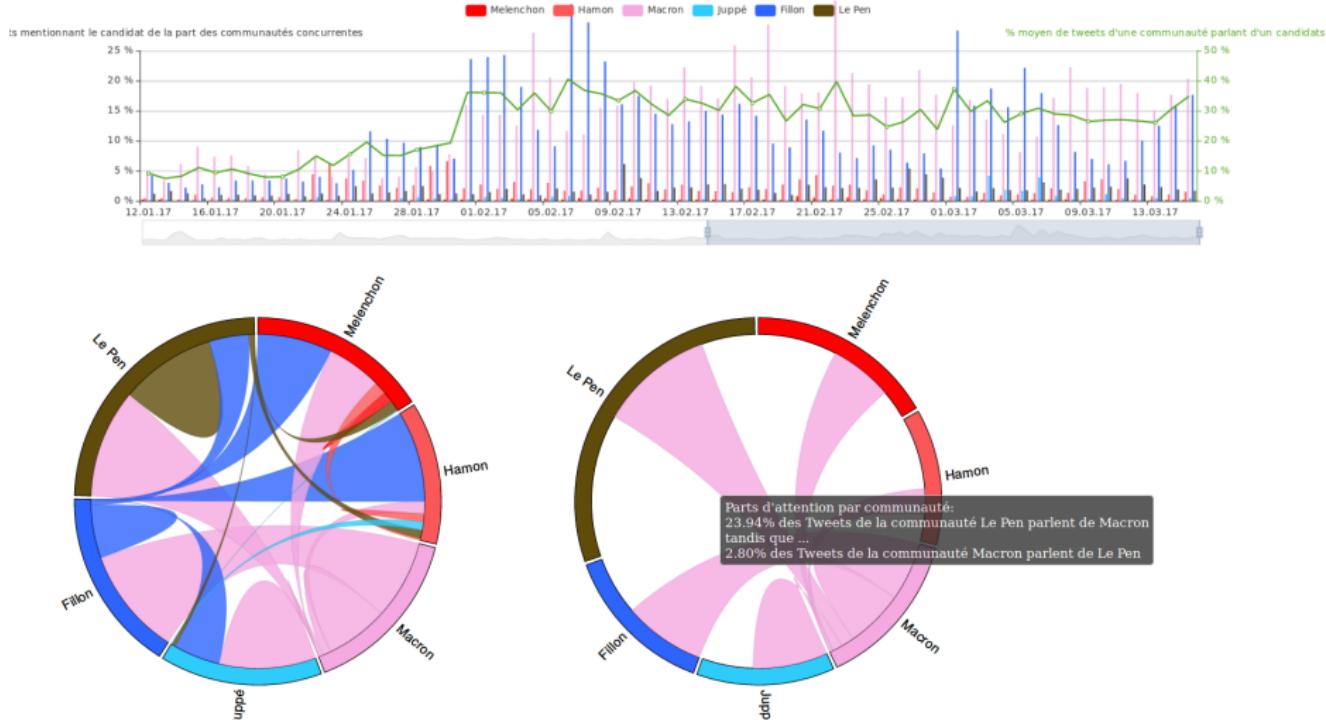


Fillon and Juppé lead the first round
Fillon won the second run

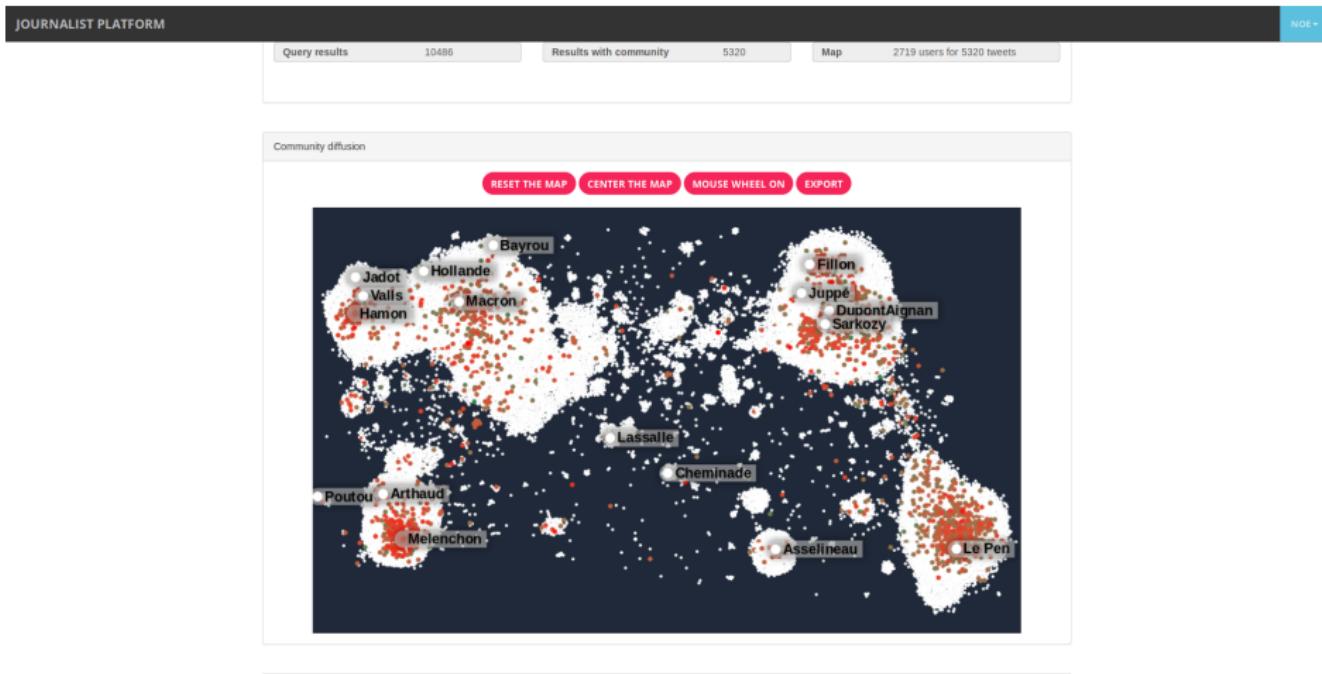
Focus on the right primary



Community as feature for other study



Community as feature for other study



Conclusion

lien vers le papier

THANK YOU FOR YOUR ATTENTION



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