SciencesPo

Digital Culture

Filter bubbles and the balkanisation of society: myth and reality

Filter Bubbles, Fake News, Democracy

Question

What is a filter bubble and do you feel like you have experienced it?

Democracy and Digital Spaces

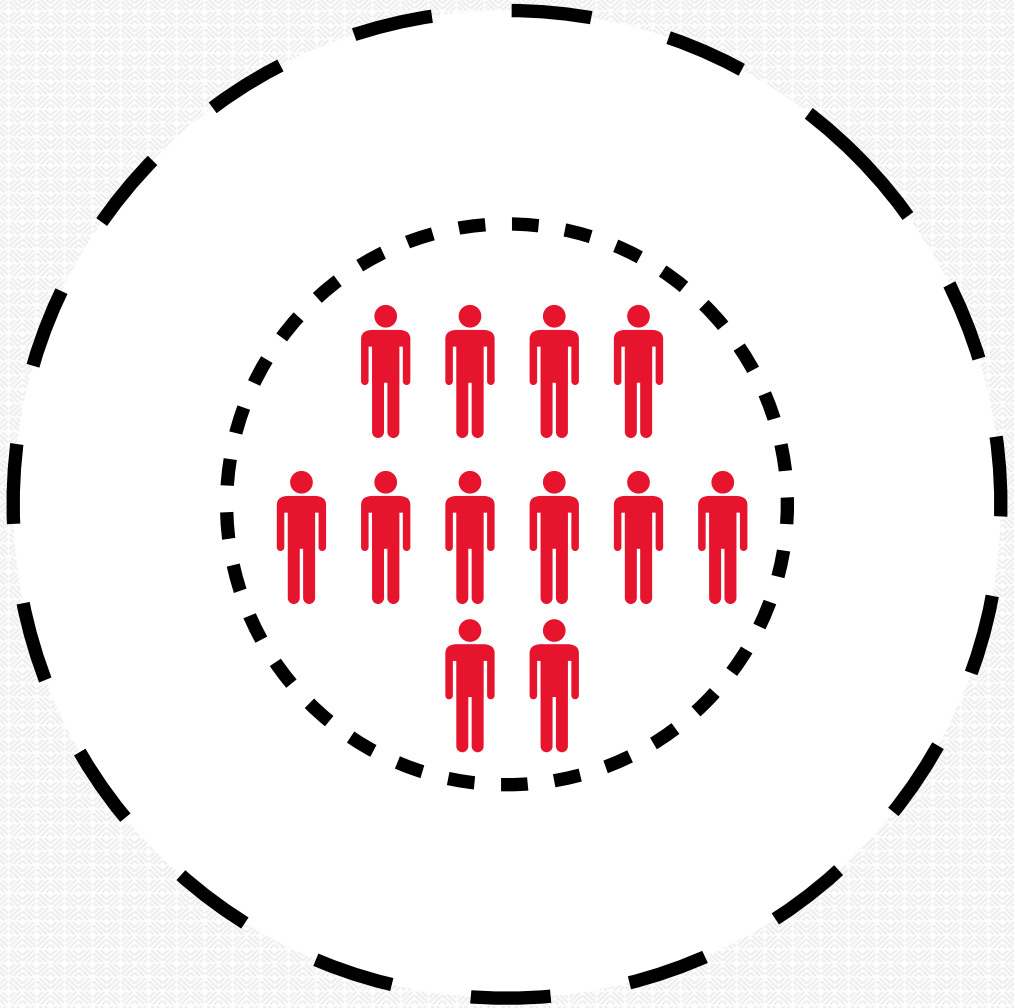
Question

How have the Internet and the web changed democracy?

Question

What is democracy?

Representative Democracy

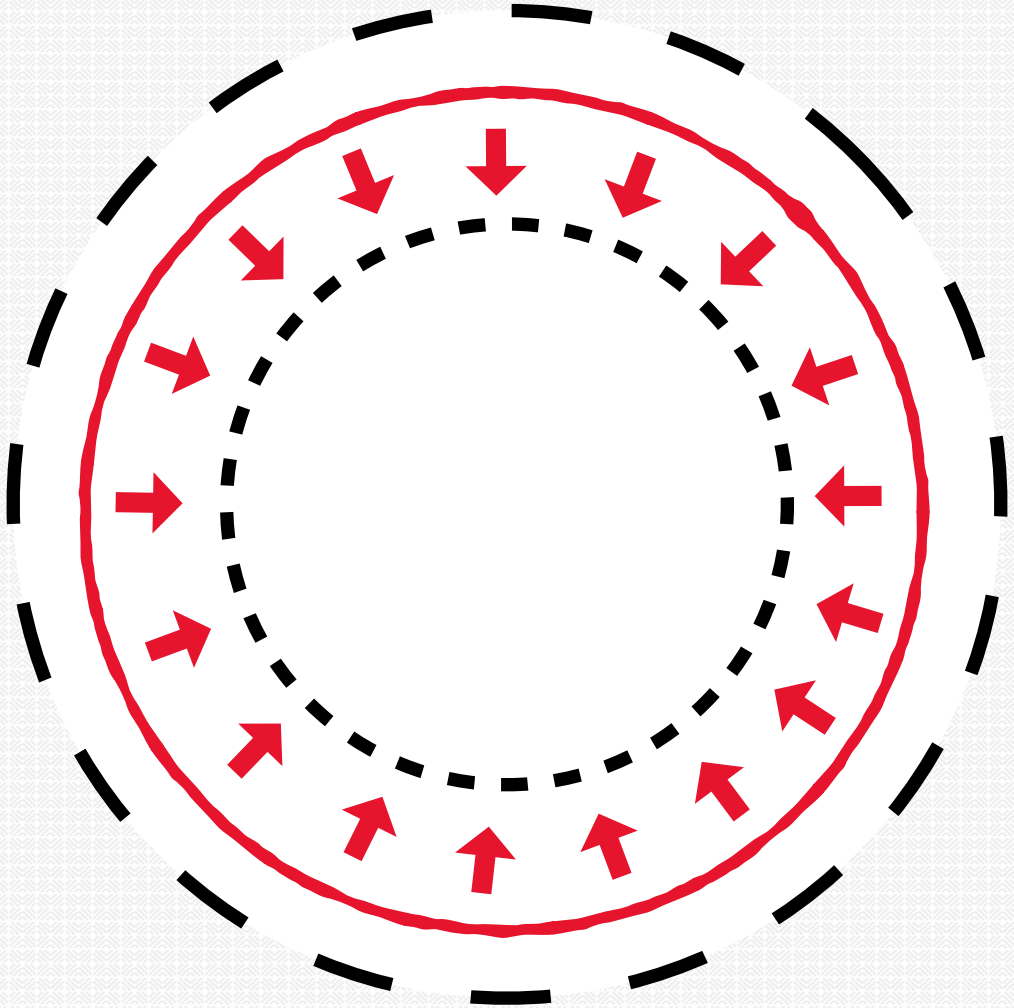


Representative Democracy

Forms of representative democracy include:

- presidential elections in the U.S.
- national assembly in France
- presidency of Universities in France
- etc.

Participatory Democracy

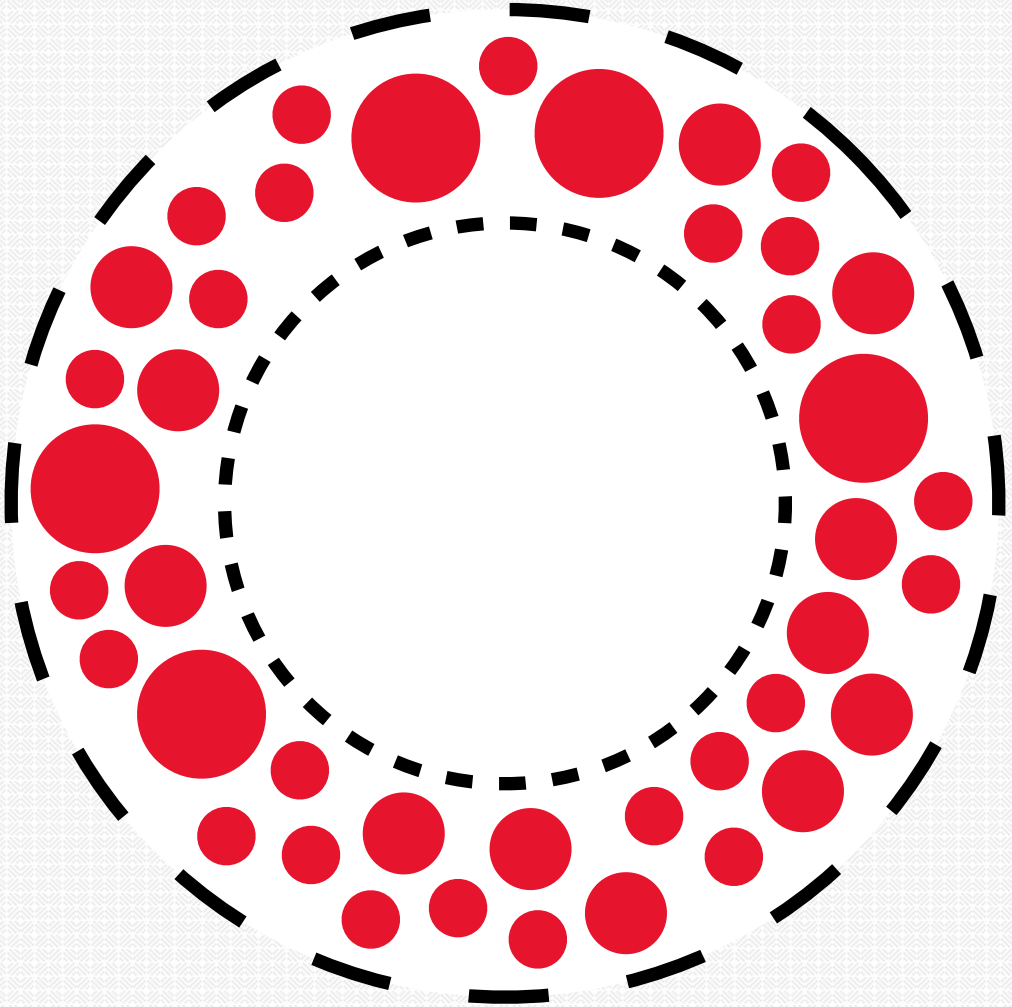


Participatory Democracy

Forms of participatory democracy include:

- neighbourhood councils
- national consultations (referendums)
- participatory fora
- deliberative polls
- etc.

“Internet” Democracy

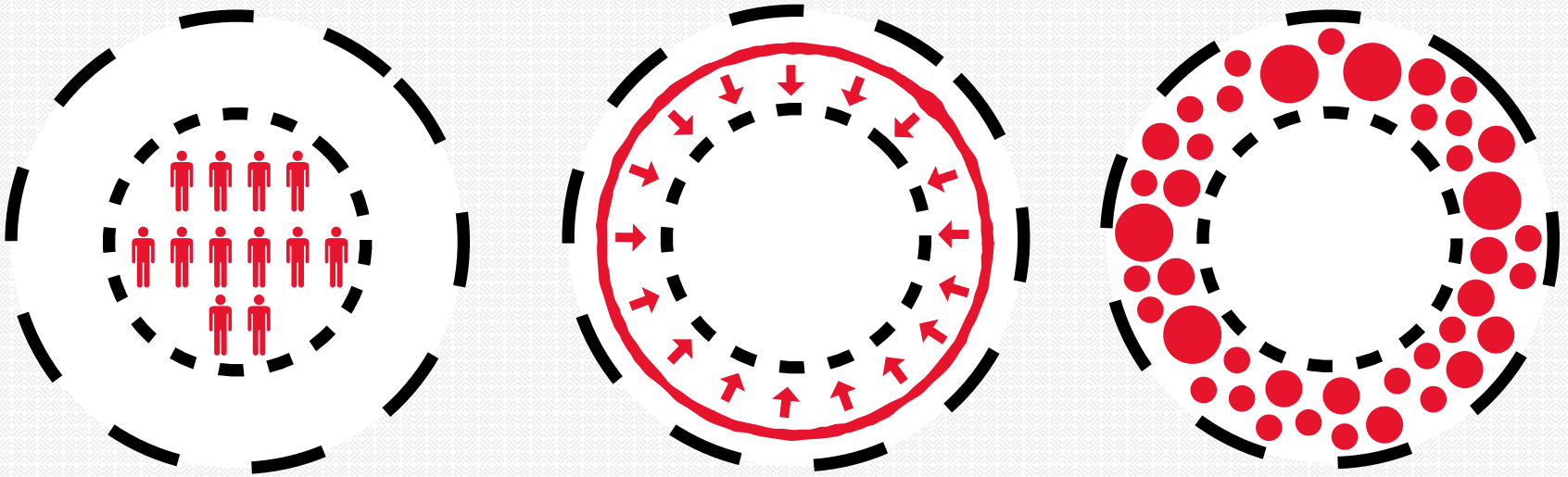


“Internet” Democracy

Forms of “Internet” democracy include:

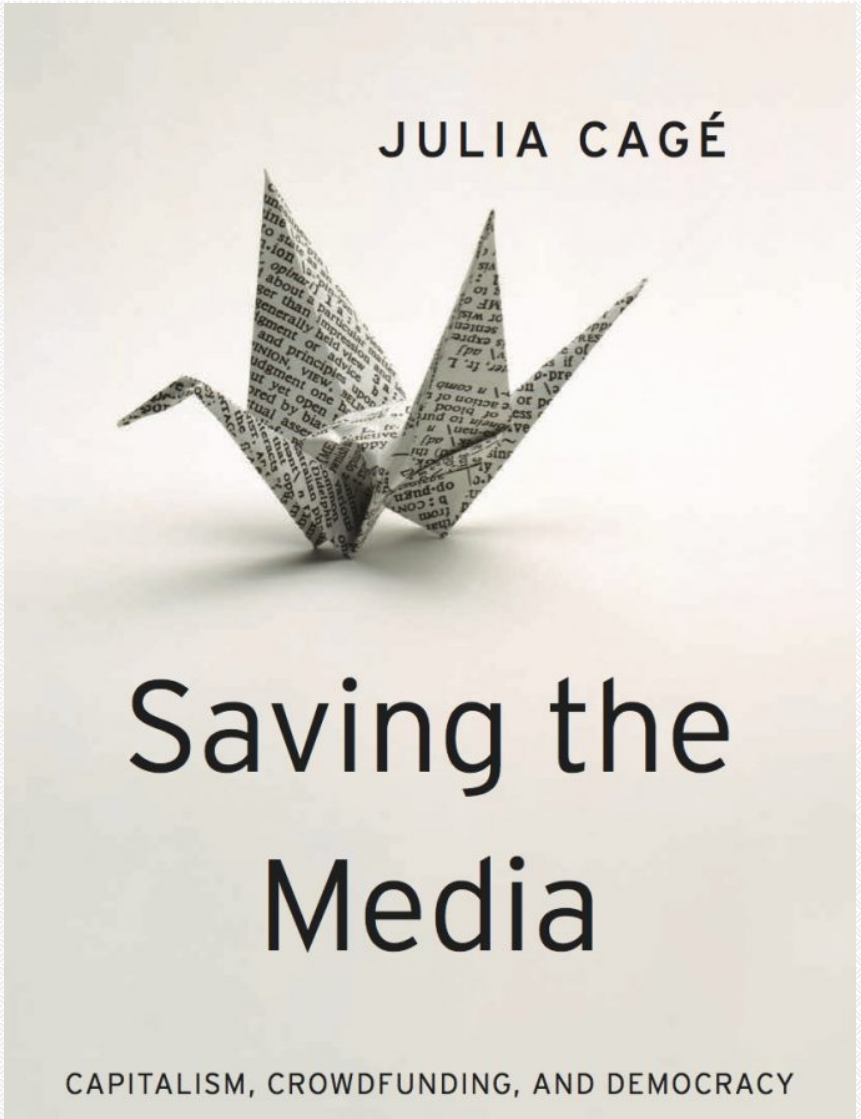
- online petitions
- videos with very high popularity
- circulation of hashtags
- activist collectives carrying out actions online
- etc.

A Shift from Political and Institutional Centers

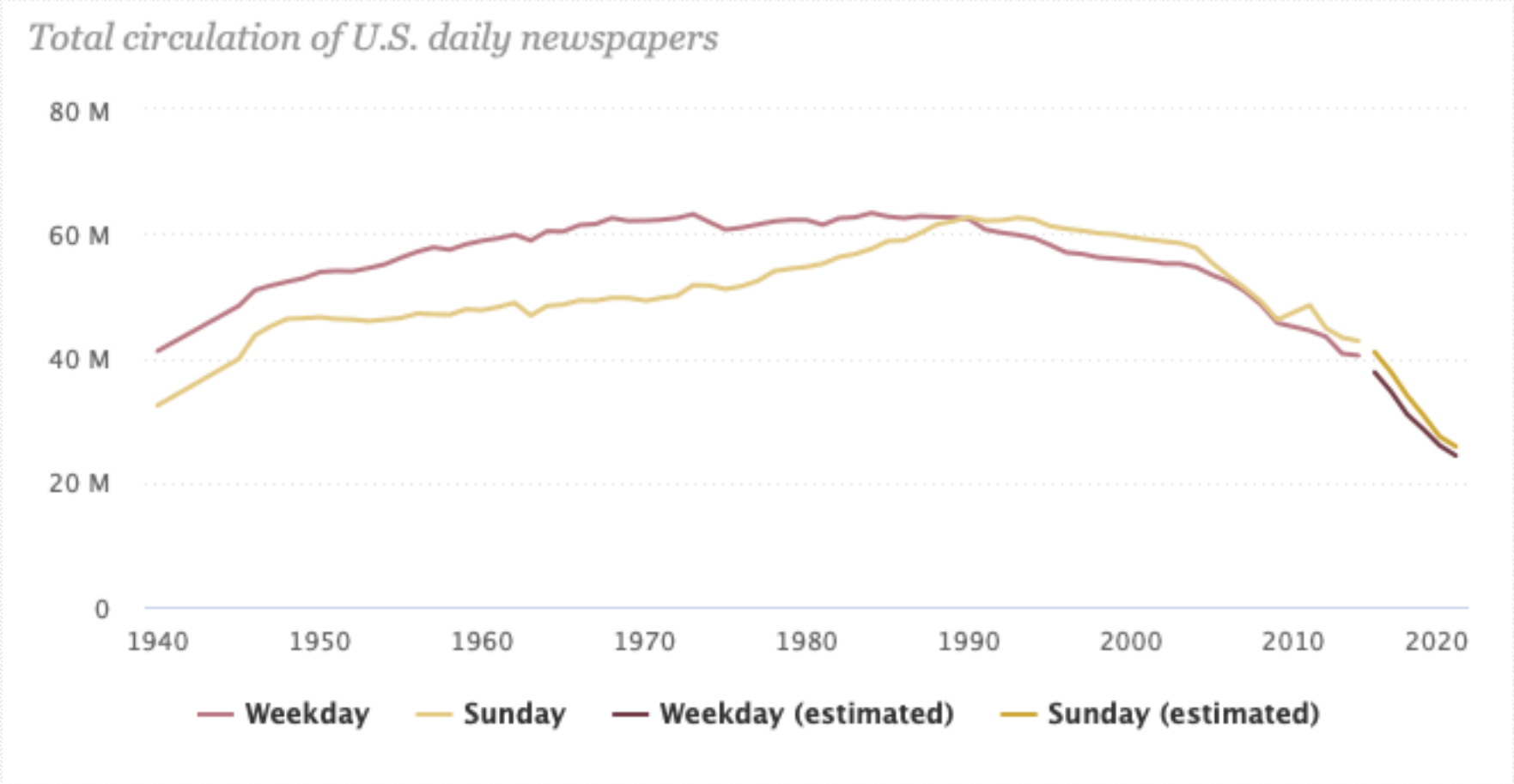


Media and the Digital Revolution

The Media Crisis

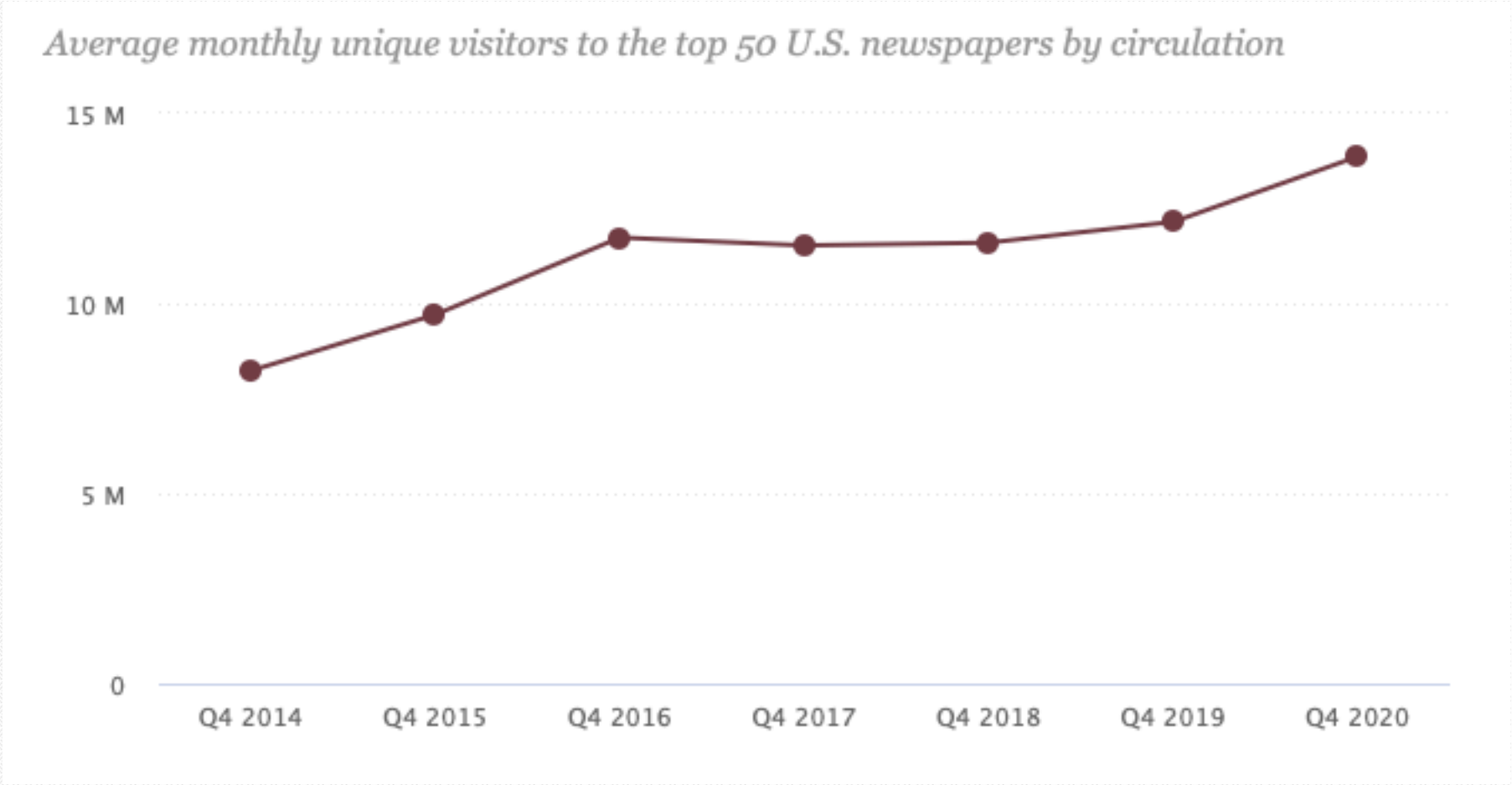


Newspaper Circulation in the U.S.



Source: Pew Research Center

Online Visitors to U.S. Newspapers



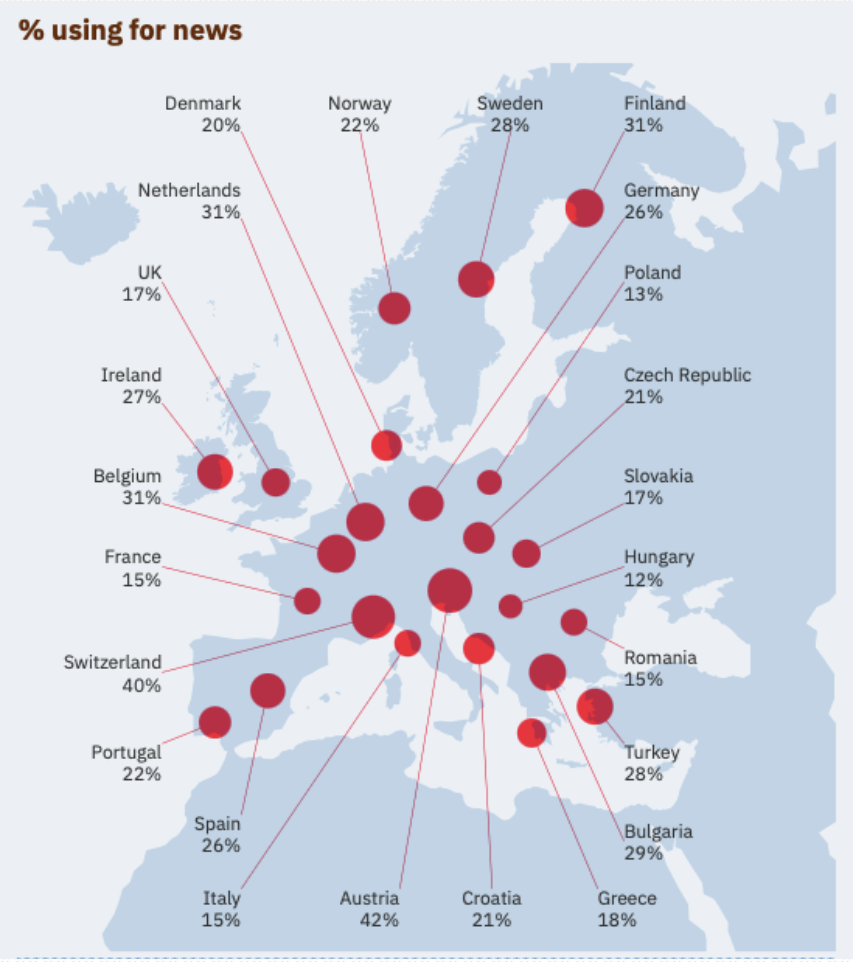
Source: Pew Research Center

Question

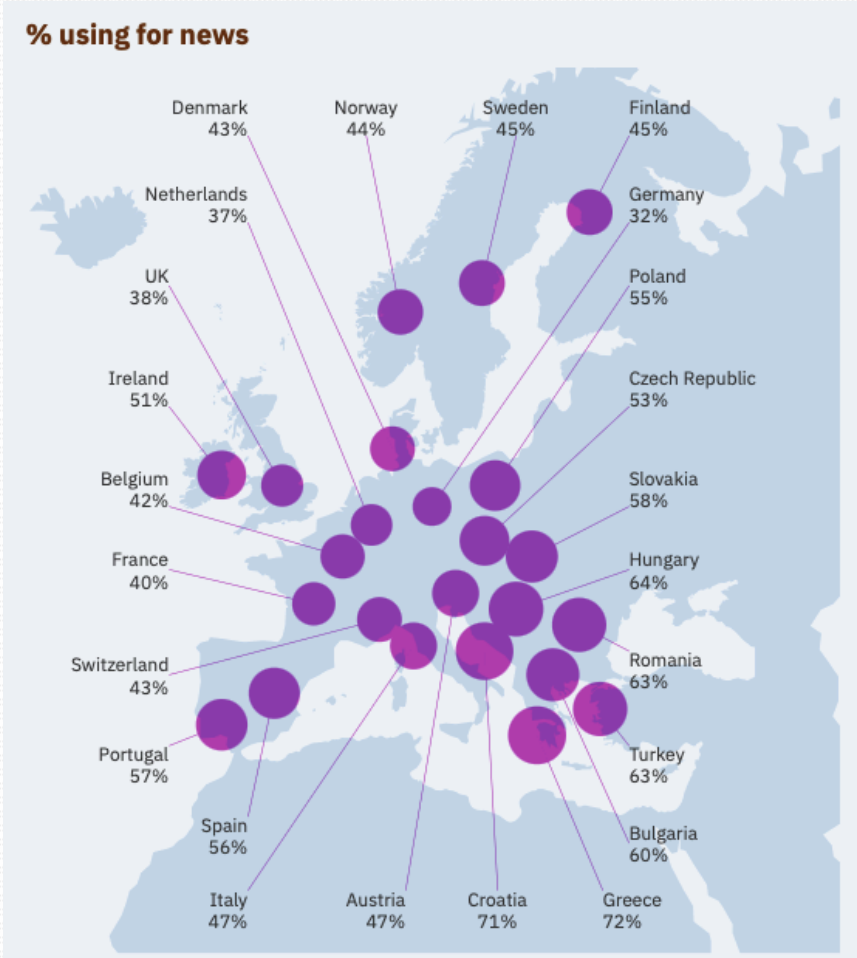
What are some causes of the economic crisis that media experience?

Source of Access to Media

Press



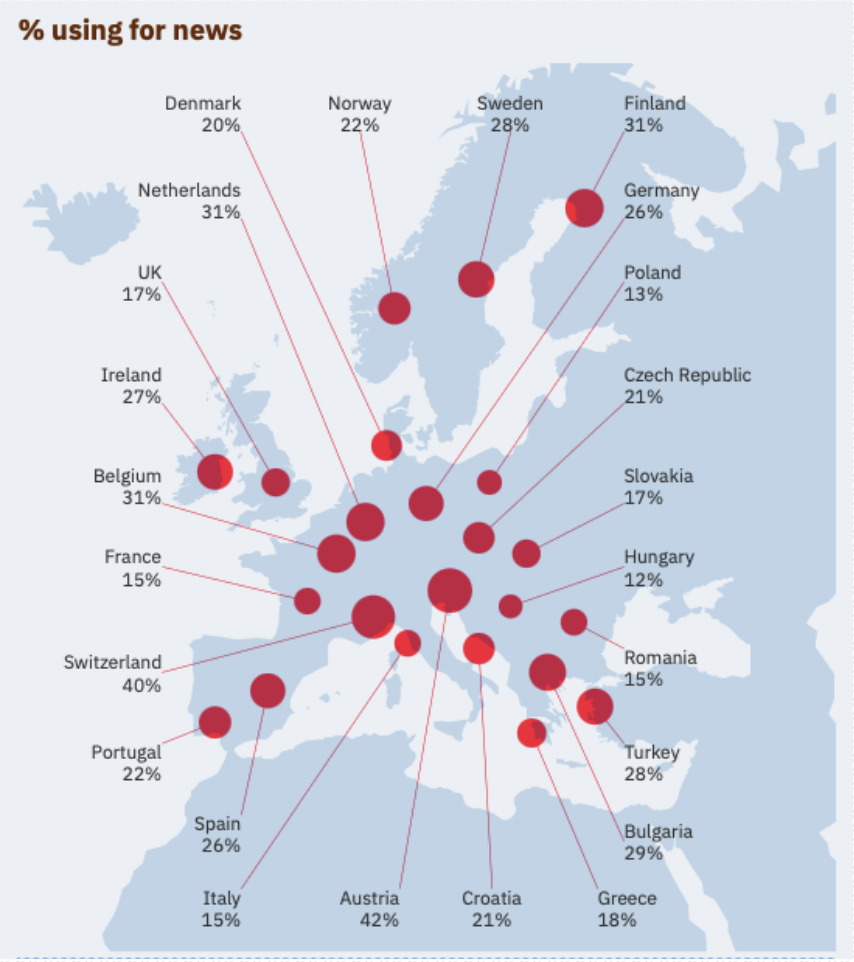
Social Media



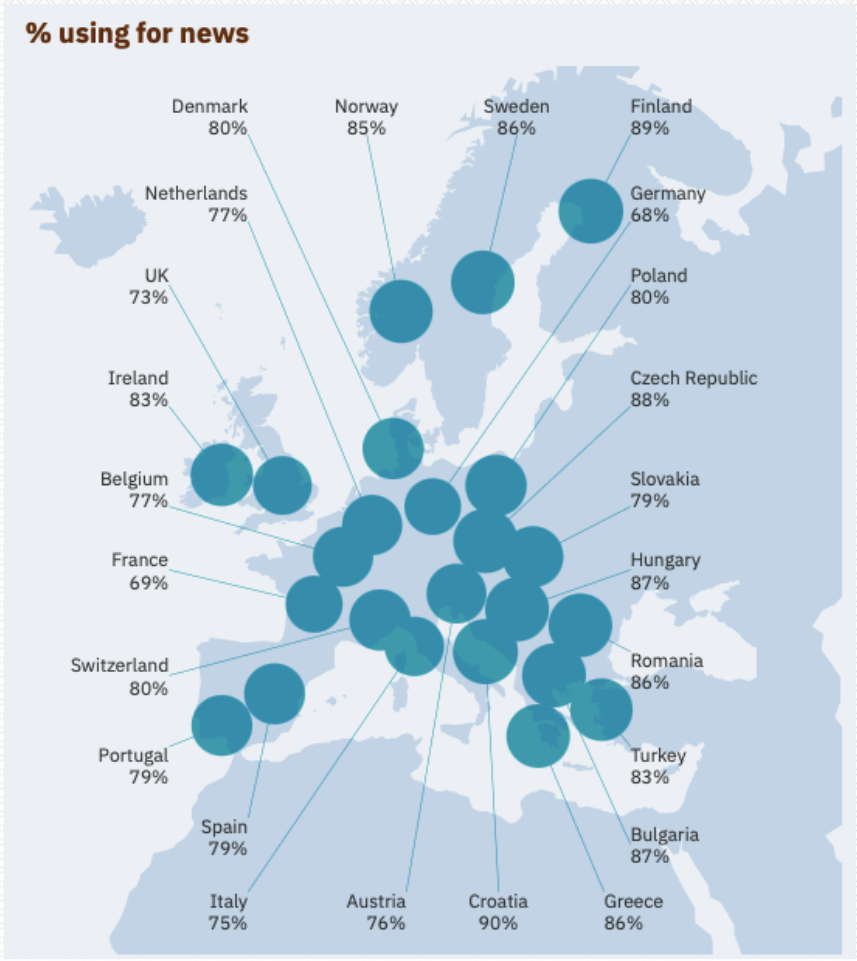
Source: Reuters Institute, University of Oxford

Source of Access to Media

Press



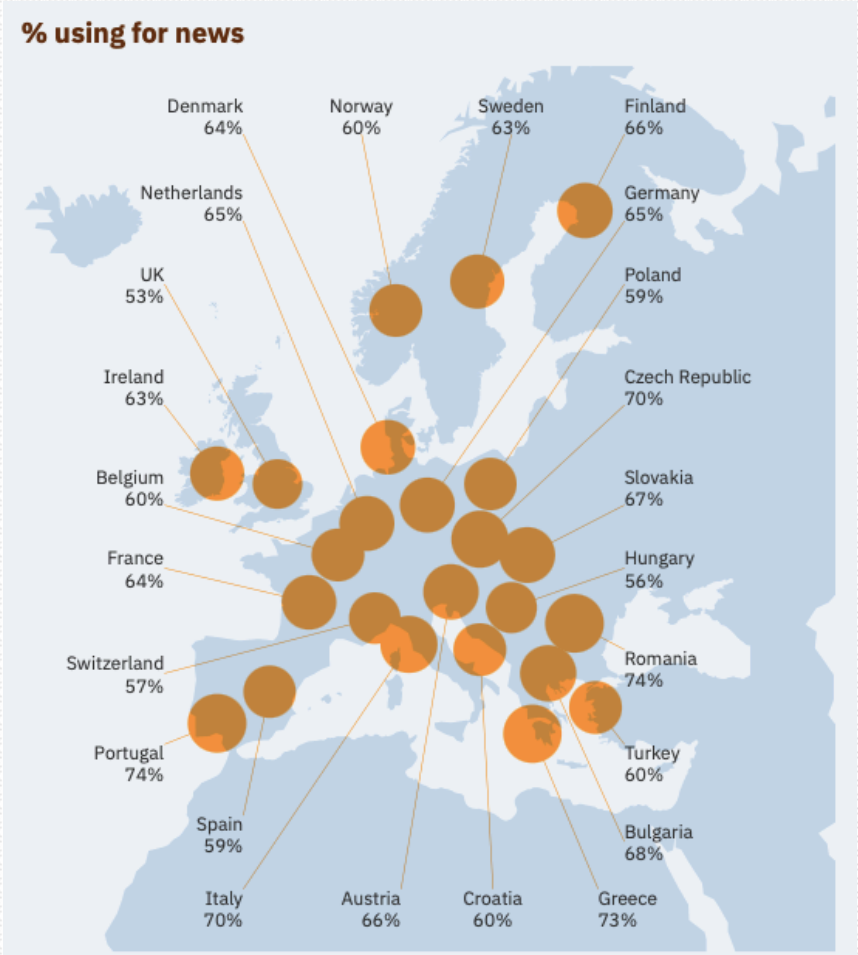
Online News (incl. Social Media)



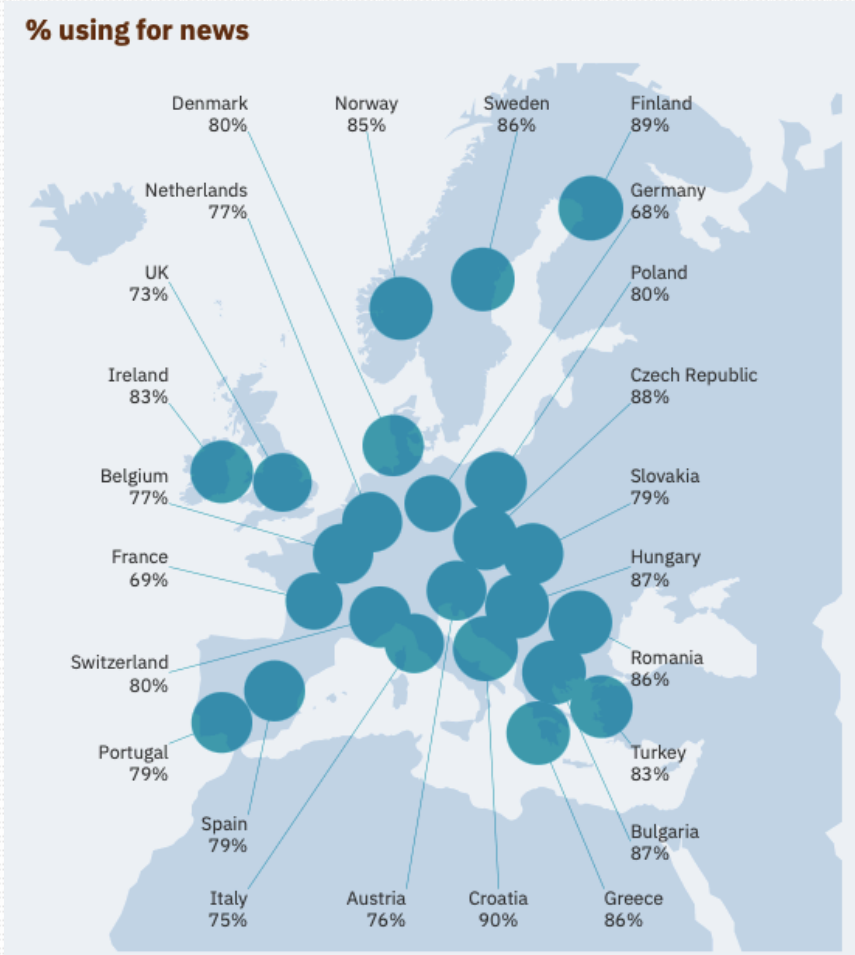
Source: Reuters Institute, University of Oxford

Source of Access to Media

TV



Online News (incl. Social Media)



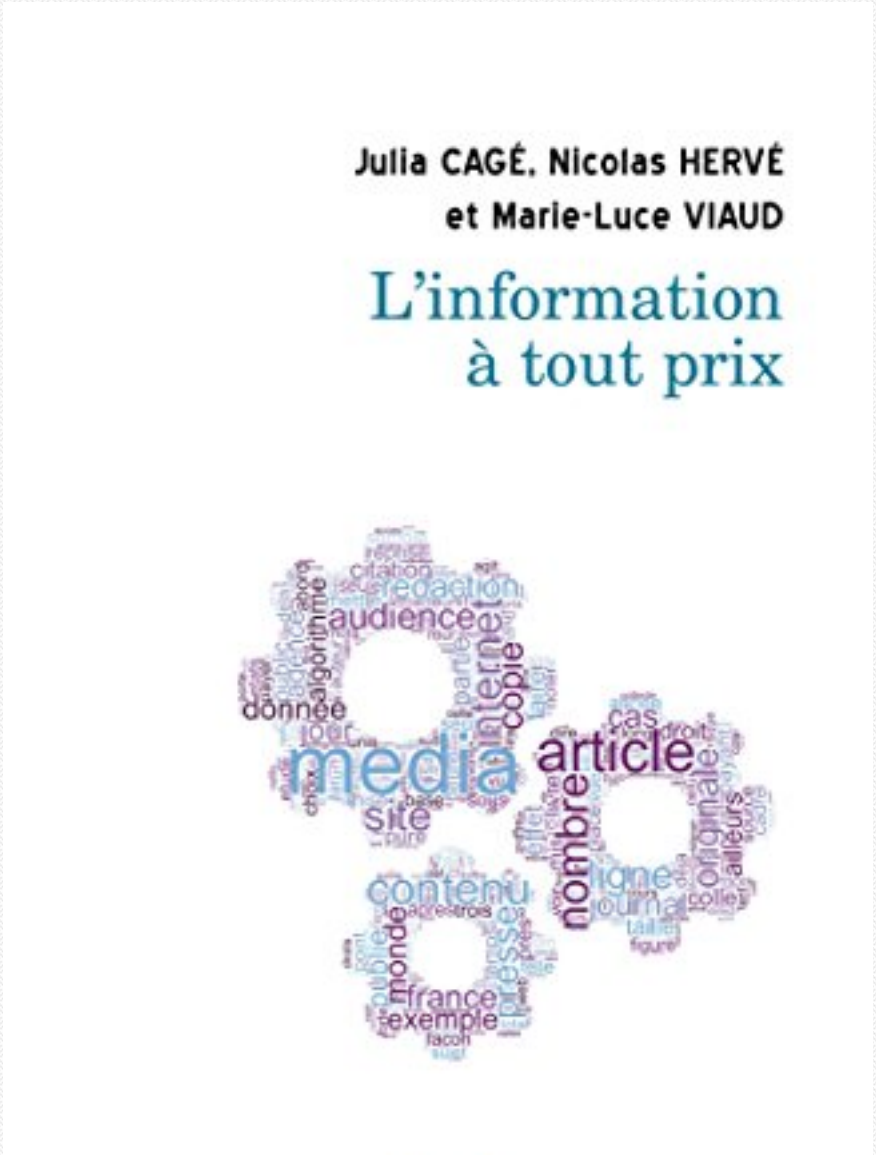
Source: Reuters Institute, University of Oxford

The Media and Advertising Markets Disunion

The union between the media and advertising markets was broken in two separate stages:

- first, the imposition of the idea of free information which made online media totally dependent on advertising to finance them
- then, the change in the practices of advertisers towards the displaying of advertisements on other spaces than just news sites, and especially on the big web portals and aggregators such as Google and Facebook

Shifts in Journalism

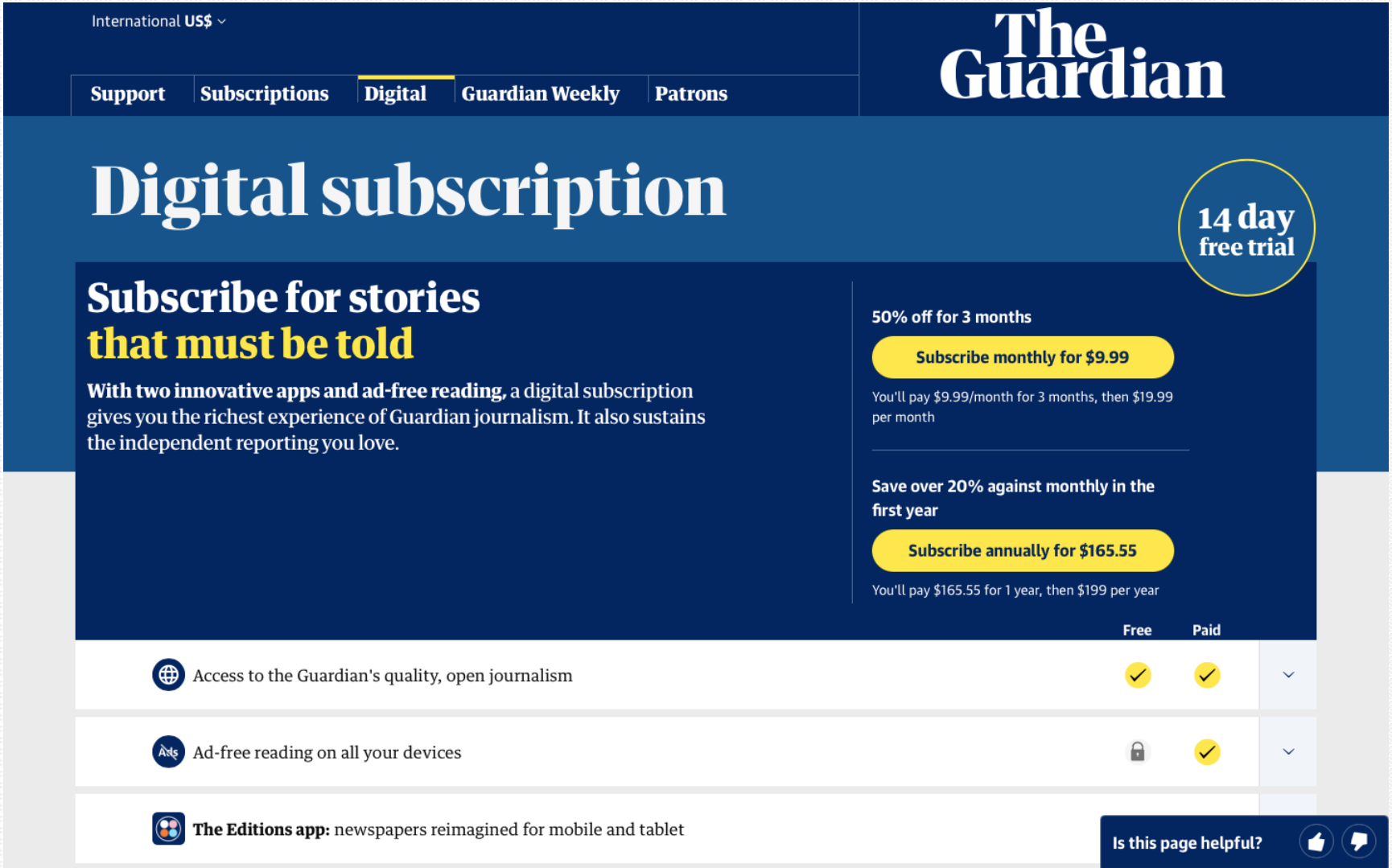


Editorial and Economic Innovations

Some editorial and economic innovations include:

- tailored subscription services
- data journalism
- leaks
- etc.

Editorial and Economic Innovations — 1/3



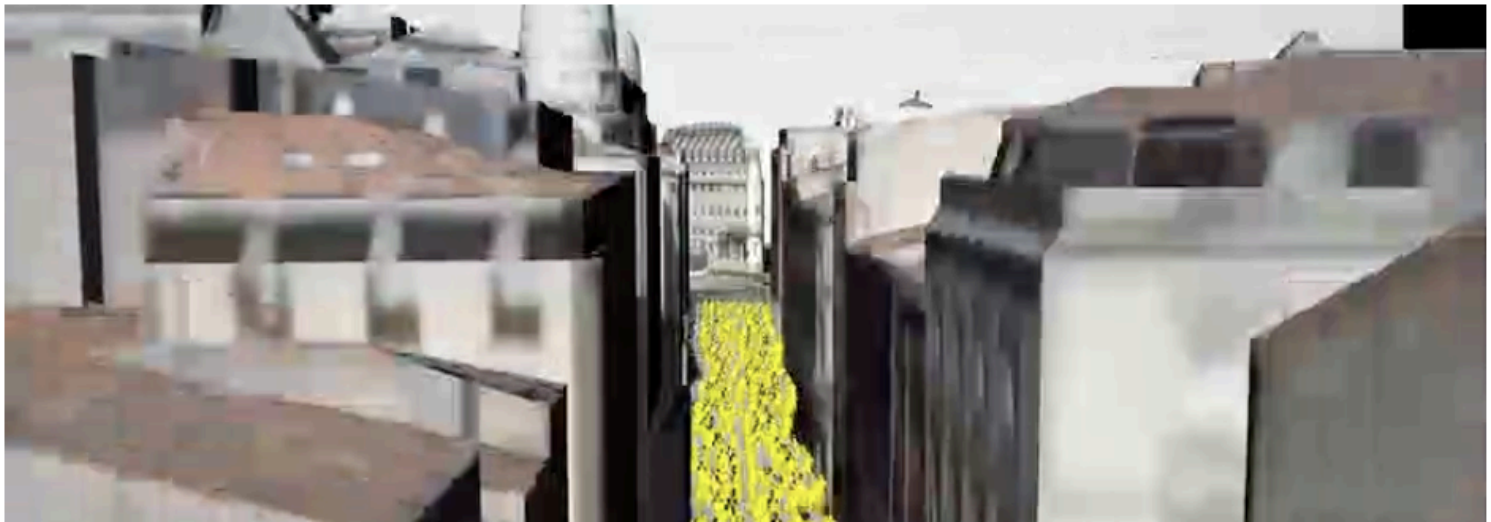
POLICE ET JUSTICE • VIOLENCES POLICIÈRES

Enquête vidéo : comment un tir de LBD a gravement blessé un « gilet jaune » à Bordeaux

VIDÉO | **Le 12 janvier 2019, à Bordeaux, le manifestant Olivier Beziade était gravement blessé à la tête par un tir de LBD 40. Le policier soupçonné d'avoir effectué ce tir a été mis en examen, selon une information obtenue par « Le Monde » mercredi 8 janvier 2020.**

Par Asia Balluffier et Antoine Schirer

Publié le 17 octobre 2019 à 08h00 • Mis à jour le 17 mars 2021 à 16h18



Editorial and Economic Innovations

WikiLeaks Leaks News About Partners Shop Donate Submit

Search Keywords

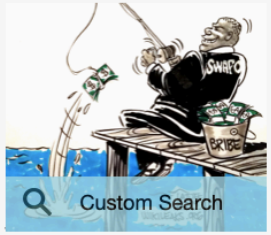
Intelligence Global Economy International Politics Corporations Government War & Military

Featured

The Intolerance Network

Today, 5th August 2021, WikiLeaks publishes "The Intolerance Network" over 17,000 documents from internationally active right wing campaigning organisations HazteOir and CitizenGO.

05 August 2021



Fishrot

Today, November 12, WikiLeaks publishes over 30000 documents from SAMHERJI

12 November 2019

OPCW Douma

Today, October 23, WikiLeaks publishes a statement made by a panel that listened to testimony and reviewed evidence from a whistleblower from the OPCW (update)

23 October 2019

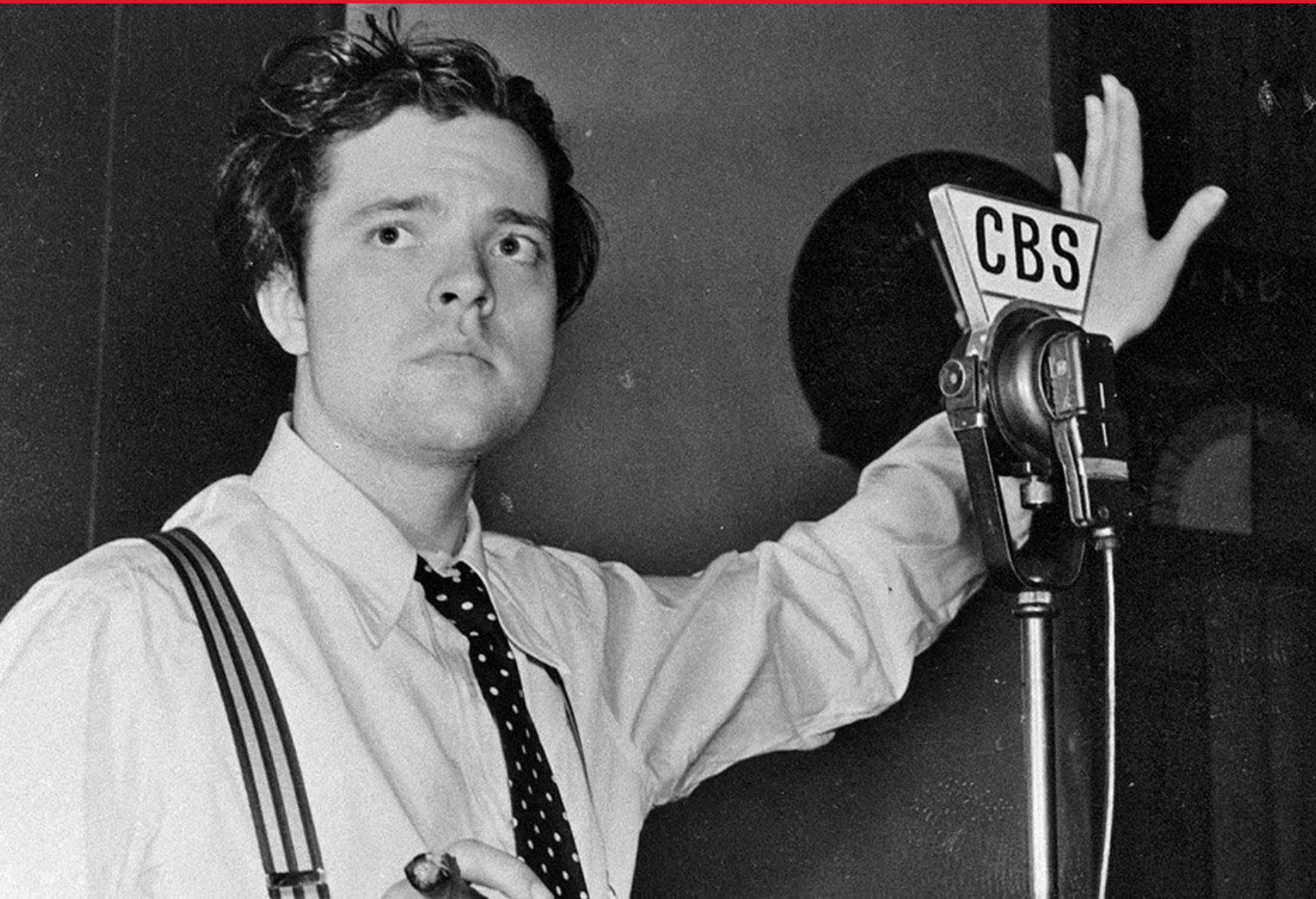
Two Strategies

One can identify two strategies taken by media to escape the crisis:

- from the top: the strengthening of a quality journalism and invention of new formats
- from below, a new market has developed to transform all possible and imaginable content into clickable information

Fake News

Orson Welles' Radio Broadcast



Paul Lazarsfeld

Sociologist

The People's Choice

1944

Key Points

Media effects always need to be put in perspective:

- by analysing figures and facts
- by interpreting biases in survey data and thinking methodologically
- by differentiating exposure and belief
- by being careful not to interpret correlation for causality

Filter Bubbles

Filter Bubbles: Myth and Reality

The truth behind filter bubbles

Richard Fletcher
Senior Research Fellow, Reuters Institute

Green Templeton College,
22 January 2020

Business and Practice of Journalism Seminar Series

Tutorial on Data Analysis

Twitter Data Collection Tutorial

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

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

- Install Numpy and Pandas by running:

```
pip3 install pandas
pip3 install numpy
```

Twitter Data Collection Tutorial

- Perform a basic tweet collection:

```
twint -s “DALL-E” -o dalle_twitter_data.csv –csv
```

Twitter Data Collection Tutorial

- Explore data using Libre Office Calc, Microsoft Excel or Numbers

id	conversation_id	created_at	date	time	timezone	user_id	username
1574110988143575041	1574110980535091206	2022-09-25 20:57:59 CEST	2022-09-25	20:57:59	200	2457909327	kimbfwhite
1574110164155768834	1574092215982620673	2022-09-25 20:54:43 CEST	2022-09-25	20:54:43	200	35522477	osomarron
1574109648013201408	1574109648013201408	2022-09-25 20:52:40 CEST	2022-09-25	20:52:40	200	38606371	samuel_biyi
1574105097382117377	1568685991145213953	2022-09-25 20:34:35 CEST	2022-09-25	20:34:35	200	15336391	thedigitaldr
1574105068529487872	1573792599369973760	2022-09-25 20:34:28 CEST	2022-09-25	20:34:28	200	99194591	radishspiritt
1574104690354159617	1574103947979026433	2022-09-25 20:32:58 CEST	2022-09-25	20:32:58	200	877406457410596865	thefakehaas
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Twitter Data Collection Tutorial

Follow the tutorials:

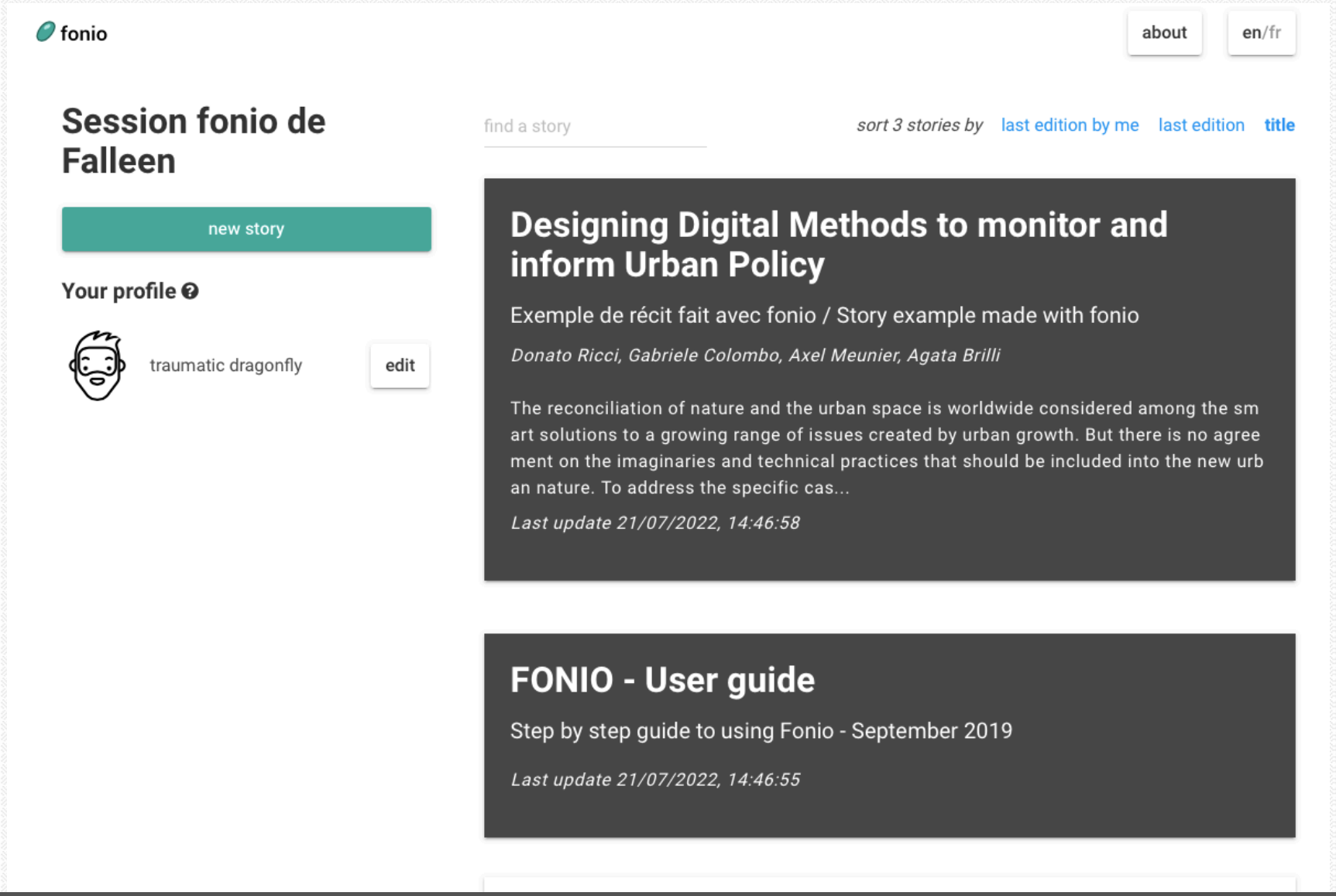
- https://osintfr.com/en/ukraine-twitter-analysis-twint-gephi-tutorial/
- https://pub.towardsai.net/getting-valuable-insights-and-visualizations-from-tweets-using-python-and-twint-28d9f9eb9128

Twitter Data Collection Tutorial

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

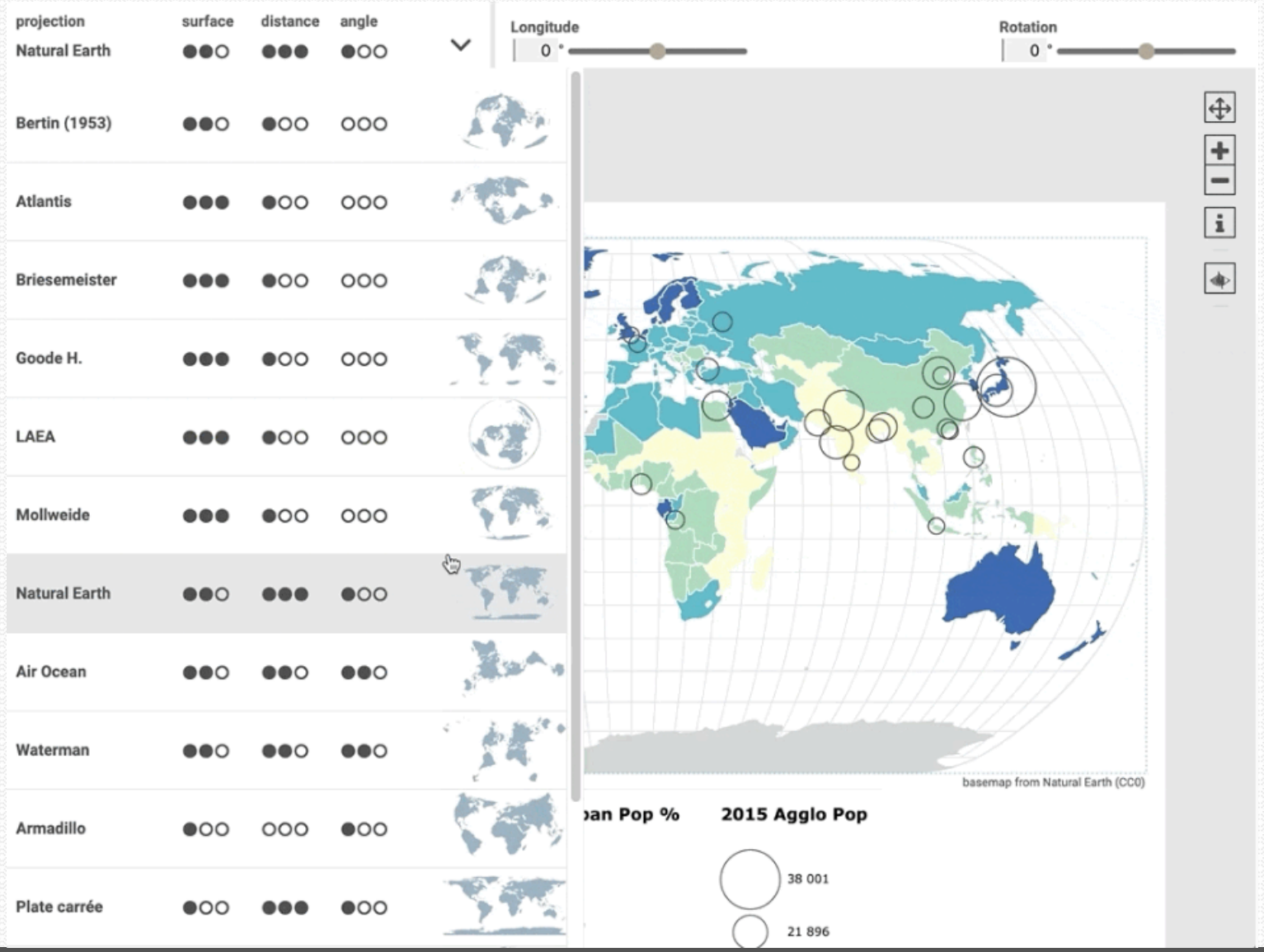
Tools for Digital Explorations

Fonio



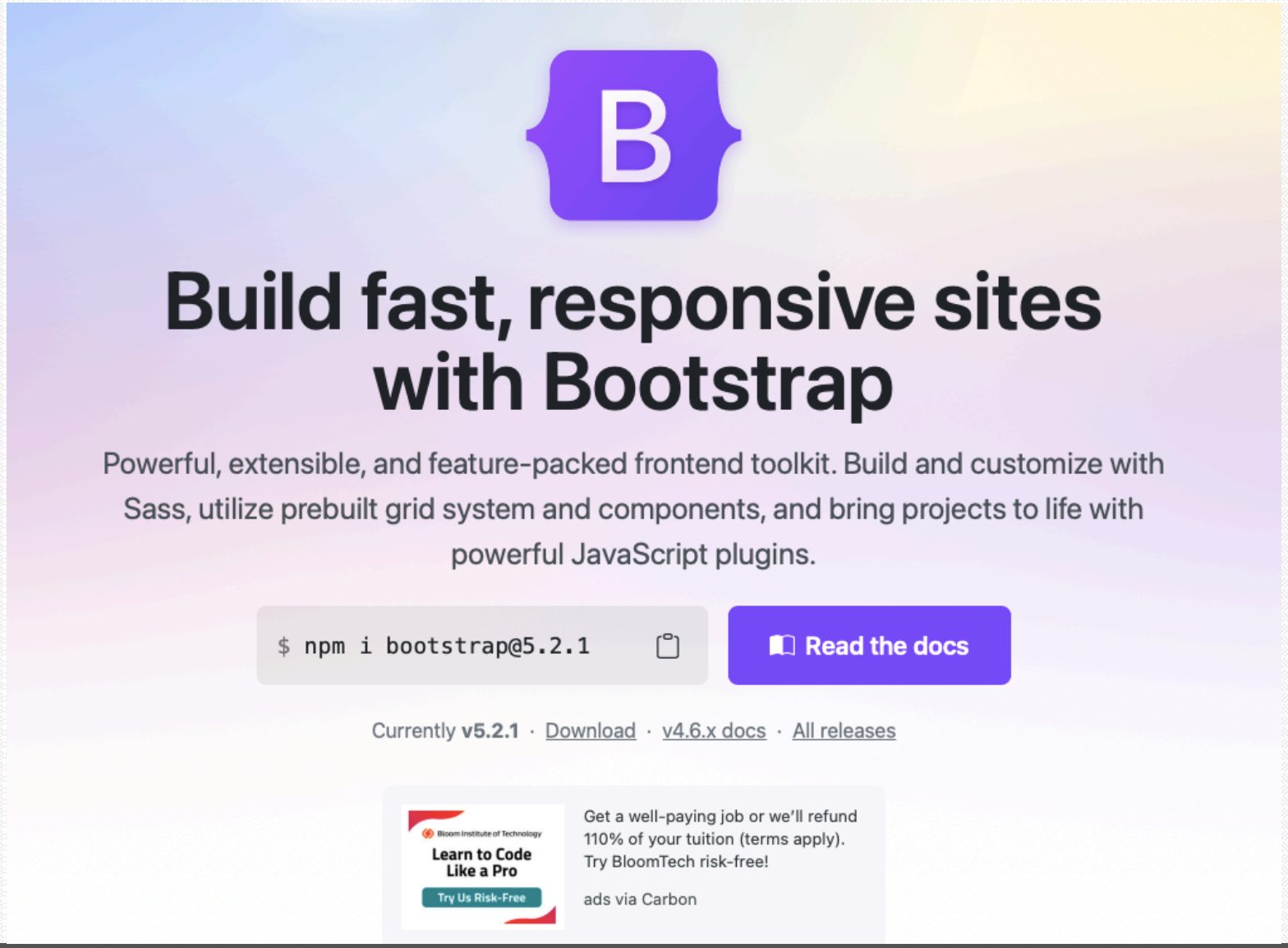
Source: https://fonio.medialab.sciences-po.fr/falleen/

Khartis



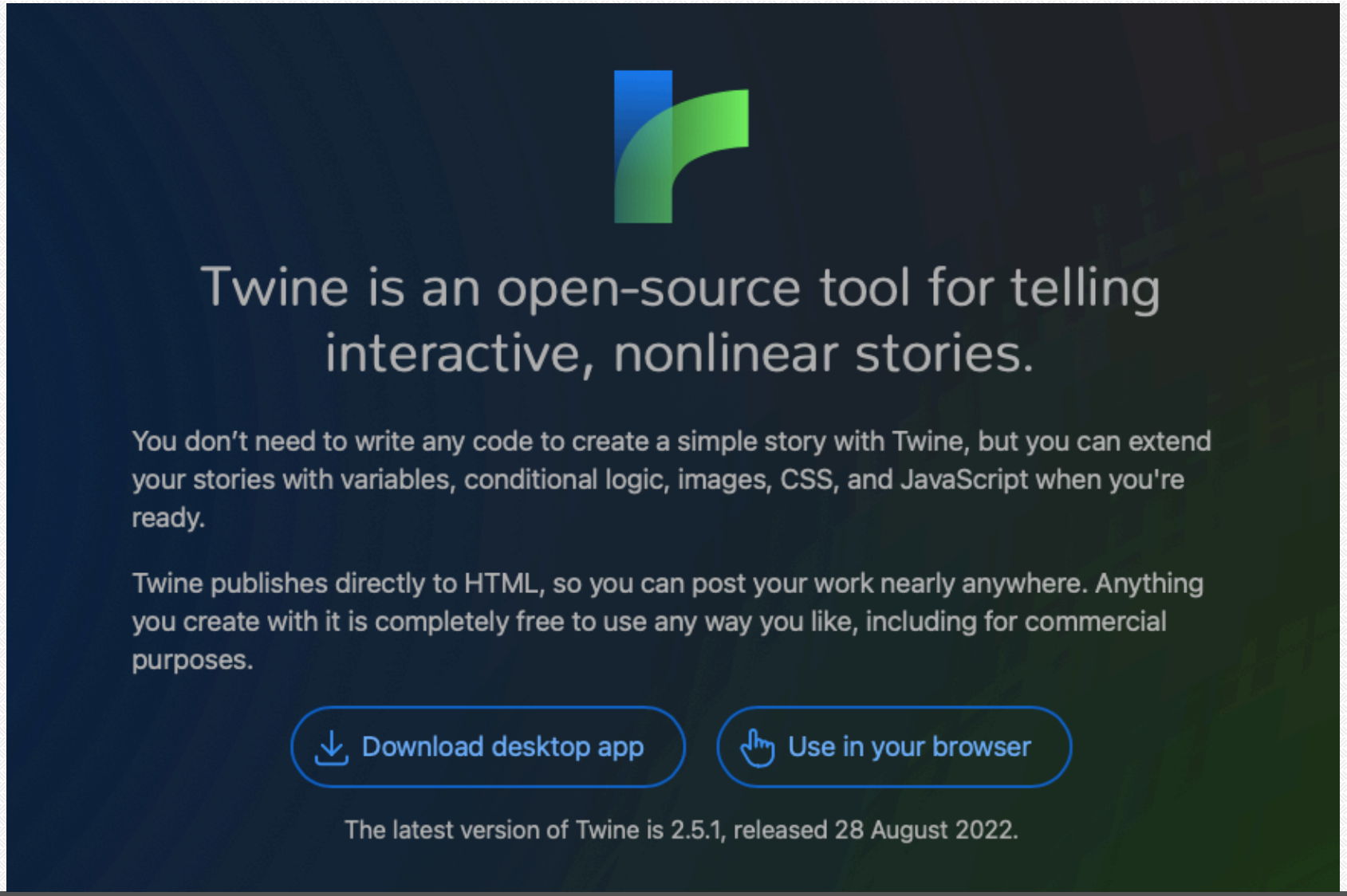
Source: *https://www.sciencespo.fr/cartographie/khartis/app/project/new/step1*

Bootstrap



Source: *https://getbootstrap.com*

Twine



Source: https://twinery.org

Audacity

Source: https://audacity.fr

OpenShot

Source: https://www.openshot.org

GIMP

Source: https://www.gimp.org

Work on Digital Explorations

Work on Digital Explorations

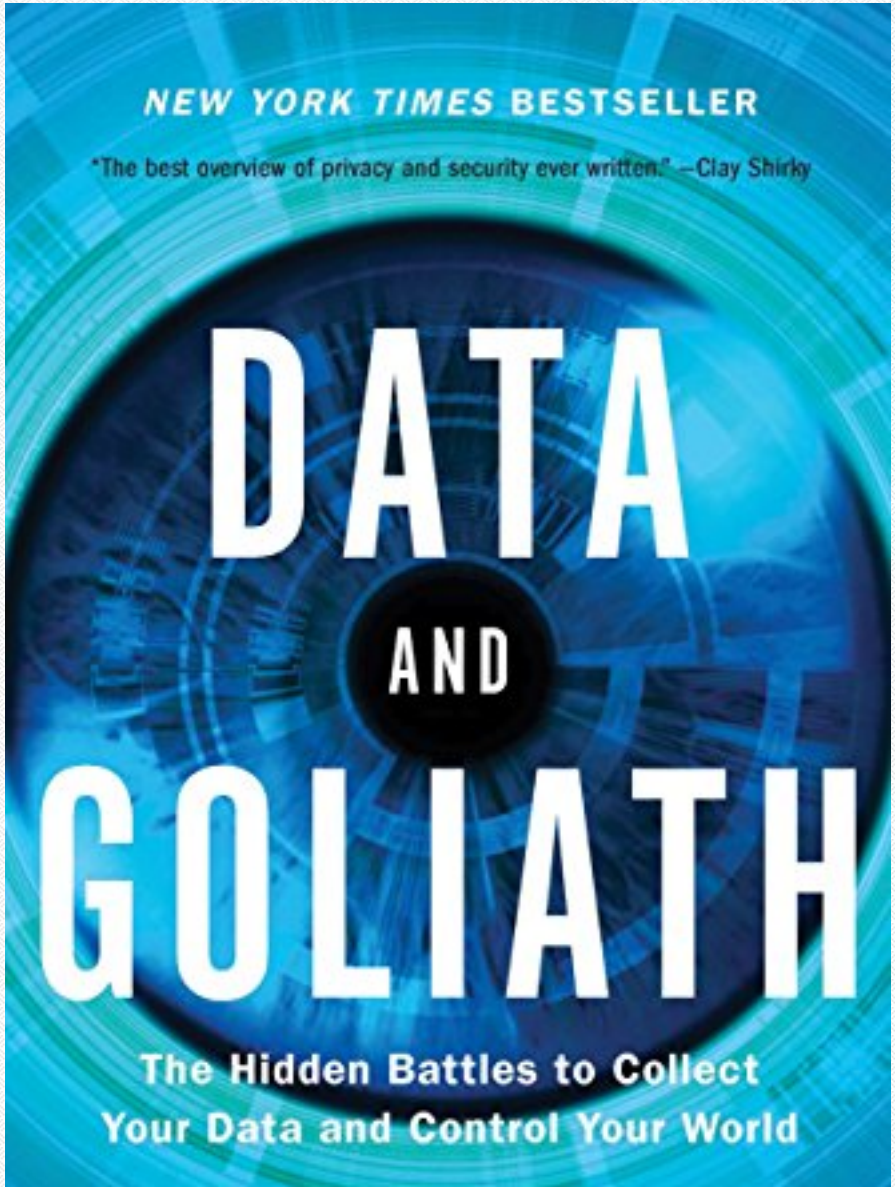
Questions on Digital Explorations

Questions on Digital Explorations

Homework

- read Gideon Lewis-Kraus's article on the changes of AI on translation:
  - https://www.nytimes.com/2016/12/14/magazine/the-great-ai-awakening.html
- read Dylan Gurran's article on the data collected by Google and Facebook:
  - https://www.theguardian.com/commentisfree/2018/mar/28/all-the-data-facebook-google-has-on-you-privacy

To go further



To go further

IJoC Big Data, Big Questions

The Big Data Divide

MARK ANDREJEVIC[1]
Pomona College, USA

This article extends the notion of a "big data divide" to describe the asymmetric relationship between those who collect, store, and mine large quantities of data, and those whom data collection targets. It argues that this key distinction highlights differential access to ways of thinking about and using data that potentially exacerbate power imbalances in the digital era. Drawing on original survey and interview findings about public attitudes toward collection and use of personal information, it maintains that the inability to anticipate the potential uses of such data is a defining attribute of data-mining processes, and thus of the forms of sorting and targeting that result from them.

Keywords: big data, data mining, privacy, digital divide, predictive analytics

Between Me and My Data

Contributing to the buzz around "the personal data revolution," Web founder and knighted new media guru Tim Berners-Lee recently issued a plea for Internet users to be able to access their personal data. All people should have the resources for data-mining themselves, he proclaimed, since "My computer has a great understanding of my state of fitness, of the things I'm eating, of the places I'm at. My phone understands from being in my pocket how much exercise I've been getting and how many stairs I've been walking up and so on" (Katz, 2012, para. 3). Echoing a well-worn set of claims about the power of machines to know ourselves better than we do (e.g., Gates, 1995, on software agents or Negroponte, 1996, on digital butlers), Berners-Lee portrayed the database as a personal-service resource: "If my

Thank you!