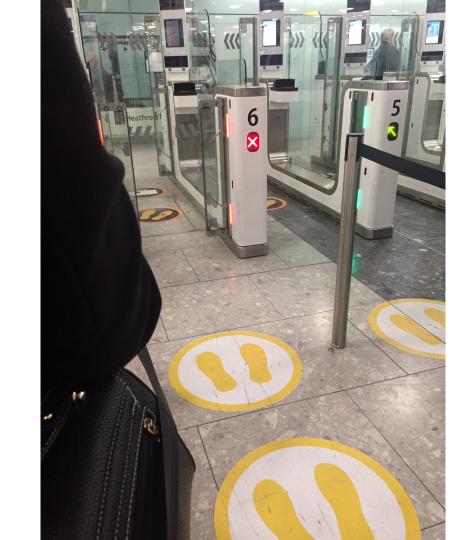
The Politics of Big Data, Migration, and Mobility

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Magdalen College and
Centre on Migration, Policy, and Society (COMPAS)









Definitions and Motivation

Big Data refers to "things one can do at a large scale that cannot be done at a smaller one, to extract new insights or create new forms of value, in ways that change markets, organizations, the relationship between citizens and governments"

(Mayer-Schönberger & Cukier, 2013: 6)







THE END OF THEORY: THE DATA DELUGE MAKES THE SCIENTIFIC METHOD OBSOLETE



Key Messages

Data do not speak for themselves.







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Data politics are central to many pressing and urgent issues—including global migration and mobility.







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Data politics are central to many pressing and urgent issues—including global migration and mobility.

Data politics are as much social, cultural, and affective as they are technological and practical.







Roadmap

Data Politics: Subjects, Worlds, Rights

Migration and Mobility: Such a New Issue?

Collecting Data

Categorizing Data

Visualizing Data

Conclusion







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Data has "potential force that can be realized in myriad ways through its uptake and deployments"

(Ruppert, Isin, & Bigo, 2017: 2)







Data worlds: material objects, landscapes, and infrastructures associated with data and their transmission







Data worlds: material objects, landscapes, and infrastructures associated with data and their transmission Data subjects: how data collection, filtering, and usage create new kinds of individuals that relate to each other in new ways







Data worlds: material objects, landscapes, and infrastructures associated with data and their transmission

Data subjects: how data collection, filtering, and usage create new kinds of individuals that relate to each other in new ways

Data rights: how and to what extent subjects claim and struggle over ownership of their data







Data politics arise in (at least) two forms:







Data politics arise in (at least) two forms:

debates about the collection and use of data







Data politics arise in (at least) two forms:

debates about the collection and use of data

how these data and their uses create new relations







Why does an appreciation of data politics matter?







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moves debate beyond simple binaries of Big Data being 'good' or 'bad'







Why does an appreciation of data politics matter?

moves debate beyond simple binaries of Big Data being 'good' or 'bad'

opens relational questions about 'effectiveness'







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Max Hirzel, Migrant Bodies

Shipwreck recovered by the Italian Navy, from 18 April 2015



Diego Rivera (1947), Detail from 'Dream of a Sunday Afternoon in Alameda Central Park (Sueño de una tarde dominical en la Alameda Central)'

Migration and Mobility: Such a New Issue?

"...the notion that migration is a peculiarly contemporary issue actually sits at odds with global histories of trade, colonialism, transportation and vagrancy, largely because such mobilities have not been understood as 'migration' in the first place."

(Allen et al., 2017: 218; see also Anderson, 2013)







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Data volume, variety, velocity, (and veracity)







Data volume, variety, velocity, (and veracity)

Practical challenges and questions







Data volume, variety, velocity, (and veracity)

Practical challenges and questions

How do you know the data actually reflect what you think they do?









John Stanmeyer wins World Press Photo of the Year 2013

© John Stanmeyer/VII for National Geographic

Challenges for using mobile phone data as a measure







Challenges for using mobile phone data as a measure

ethical and privacy issues (including 'mission creep')







Challenges for using mobile phone data as a measure

ethical and privacy issues (including 'mission creep')

specific situations (intentional and unintentional) related to the conditions of forced migration







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Two senses of categorization







Two senses of categorization

defining subjects ('who counts as a migrant?')







Two senses of categorization

defining subjects ('who counts as a migrant?')

predicting future behaviors via flags, maps, scores







Defining subjects: 'who counts as a migrant?'







Defining subjects: 'who counts as a migrant?'

UN definition: anyone who has lived outside their country of origin for more than 12 months







Defining subjects: 'who counts as a migrant?'

UN definition: anyone who has lived outside their country of origin for more than 12 months

Limitations in terms of length and geography of journeys







Defining subjects

"Developing more detailed data on categories of migration is not without hazards. Simply because we have somewhat more sophisticated data does not mean that interpretations of the analysis will be sophisticated..."

(Sumption, in Allen et al., 2018: 227)







Predicting future behaviors via flags, maps, scores







Predicting future behaviors via flags, maps, scores

"Data derivatives...what can be imagined and inferred about who we might be—on our very proclivities and potentialities"

(Amoore, 2001: 28)







"The worry I think is we become a slave to a machine and we forget actually the data is only as good as the people who put it on there. [I]f you've got rubbish in you're going to get rubbish out and actually some of the best catches we've had have been on what we would call 'clean skins'. These are people who don't come up on the computer but by talking to them and by interviewing them and by examining their baggage you can identify things that only a human being can really do."

(Former senior management staff, UKBA; quoted in Allen and Vollmer 2018)







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Data visualization is 'the representation and presentation of data to facilitate understanding'

(Kirk, 2016: 19)









Image credit:
Buzzfeed
(https://www.b
uzzfeed.com/sa
mir/worldsmost-accuratepie-chart)

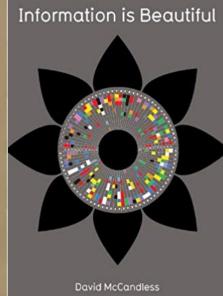




DED RUITIUM

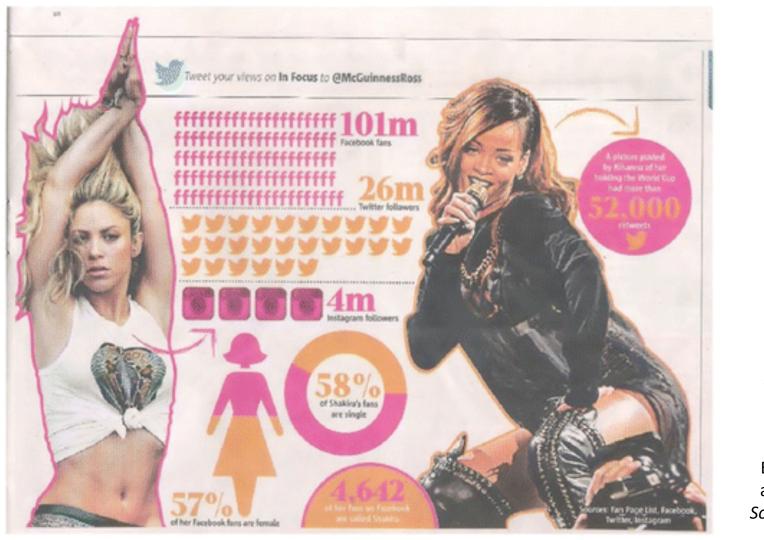
The Visual Display of Quantitative Information

EDWARD & TUFTE









As appears in: Kennedy and Hill. 2018. 'The Feeling of Numbers: Emotions in Everyday Engagements with Data and Their Visualisation'. Sociology 52 (4): 830–48.

Data politics arise in two ways







Data politics arise in two ways

representations of concepts, populations, ideas







Data politics arise in two ways

representations of concepts, populations, ideas

conceiving, generating, and sharing visualizations







Data 'do' ideological work through design conventions that tap into culture- and society-specific norms (Kennedy et al., 2016)







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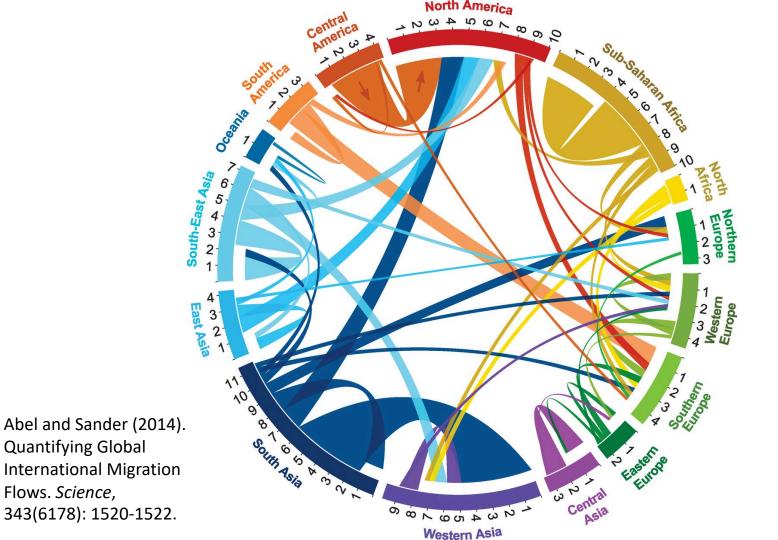
prioritize scientific objectivity over other purposes

communicate meanings (implied and explicit)



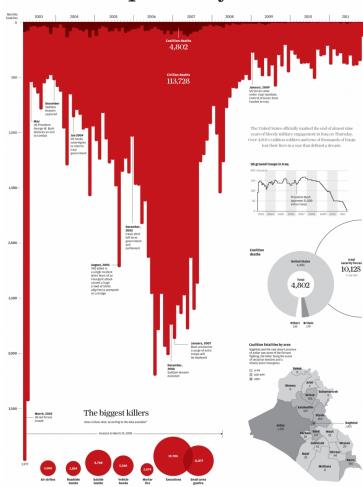




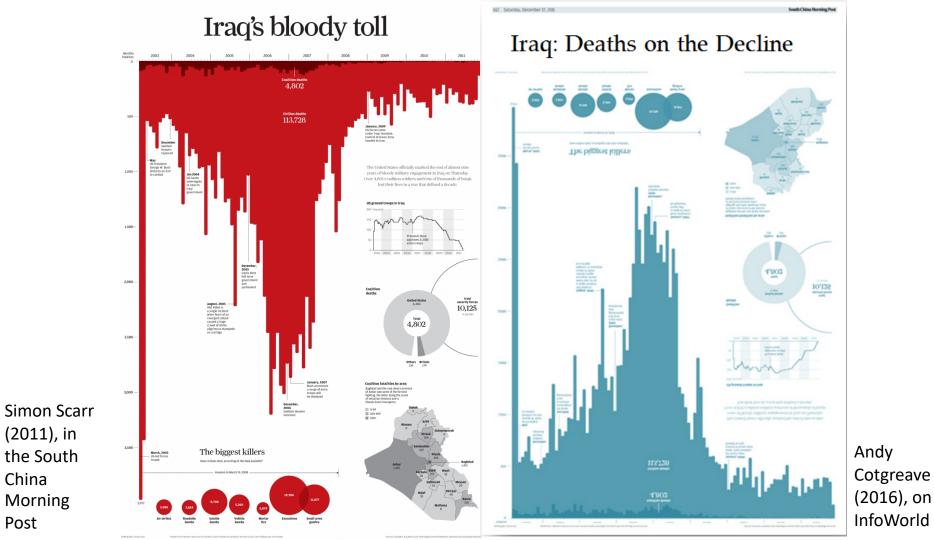


Flows. Science,

Iraq's bloody toll



Simon Scarr (2011), in the South China Morning Post



China

Post

Visualizations are artifacts that are imagined, constructed, brokered, and shared







Visualizations are artifacts that are imagined, constructed, brokered, and shared

involving many hands and minds







Visualizations are artifacts that are imagined, constructed, brokered, and shared

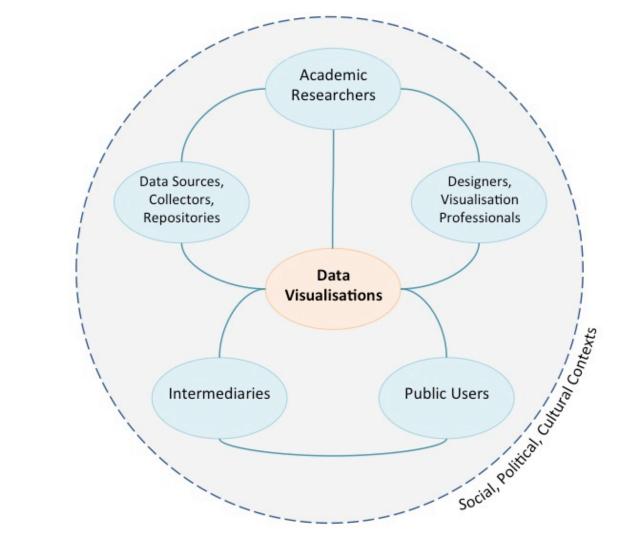
involving many hands and minds

with competing interests, agendas, motivations









Allen, William (2018).
Visual Brokerage:
Communicating Data and
Research Through
Visualisation. *Public Understanding of Science*. 27(8): 906-922

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Data politics involves 'worlds, subjects, and rights'







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An agenda for critical data politics:







An agenda for critical data politics:

how are data used,







An agenda for critical data politics

how are data used,

for and by whom,







An agenda for critical data politics:

how are data used,

for and by whom,

and under what kinds of circumstances?







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