global-e



Studying Regional Variations in Globalization

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We would expect to find that people view globalization differently depending on where they live. While an international opinion survey would probably be the preferable way to measure these differences in understanding, this article proposes a much cheaper proxy: freely available information about books on the topic of

globalization that people buy in online stores around the world. Using this data is clearly inferior to a well-designed opinion survey in that it cannot provide answers to a full set of research questions, but it can tell us which aspects of globalization are perceived to be important in different regions of the world, and it might illuminate the structure of popular discussions about globalization. It also has the advantages of being non-invasive and of capturing the whole population of users of a popular online bookstore, probably more than could be reached by an opinion survey. Of course, given that this data is about the purchasing choices made by individuals among books offered by publishers, it is something of a halfway house between individuals' views of globalization—such as might be expressed in answers to an opinion survey or in postings on social media—and the views of globalization produced and promoted by the media and publishing industries. Enough caveats: what can the data tell us?

Amazon currently has 11 stores: Brazil, Canada, China, France, Germany, India, Italy, Japan, Spain, the UK, and the US. Of these all but the Brazilian and Indian stores offer an API that allows automatic searching. We therefore wrote a program that retrieved the top 100 books with the keyword "globalization" (or the equivalent in the relevant language) every day from these nine Amazon stores and archived the results in a database. This should be done over a period of at least several months to overcome temporary biases toward particular titles. However, as a proof of concept this article presents some results based on 15 days of data from June 2013.

Book titles

First, let us look at the words used in the titles of the books. We removed words such as "globalization," "global," "world," "international," "introduction," and "edition." Then we combined parts of speech and near-synonyms such as "politics"/"political" and "economy"/"economics." Finally we calculated word frequencies. Rather than present tables of dry figures, we visualized the 50 most frequently occurring words in each store using wordle.net; Japanese and Chinese need some extra processing before analysis is possible so are omitted here.

Figure 1: Globalization book title keywords in seven Amazon.com markets: Canada, France, Germany, Italy, Spain, United Kingdom, United States


politics
first
capitalism
great
asia
critical
future
new
environment
markets
revolution
health
strategy
challenge
migration
perspectives
history
rights
third
america
21st
china
movement
justice
modernity
culture
century
studies
place
human
governance
policy
power
age
change
democracy
era
development
theory
empire
nation
poverty
society
crisis
industry
education
terrorism
city
economy
afrique
mutations
urbain
tourisme
géopolitique
territoire
société
enjeux
acteurs
heure
droit
tle
france
leçons
autre
marché
contre
état
limites
comprendre
europe
nouveau
entreprise
précis
jours
art
essai
pouvoir
programme
crise
économie
histoire
faisait
dynamiques
francophonie
après
géographie
guerre
finance
politique
capitalisme
compact
grandes
ère
siècle
questions
cultures
grande


neu
demokratie
europa
föderalismus
plädoyer
deutschland
kultur
leben
gesellschaft
neoliberalismus
kapitalismus
verantwortung
megastädte
gerechtigkeit
weltwirtschaft
indien
economics
geld
wirtschaft
zukunft
governance
mensch
wege
geschichte
armut
theorie
china
management
krise
weltordnung
erklärt
bank
westen
reise
amerika
macht
soziologie
ende
jahrhundert
politik
unternehmen
morgen
rechtsordnung
schatten
zusammenarbeit
entwicklung
afrika
interkulturelle
zeitalter


crisi
migrazioni
uscita
sociali
finanziaria
sociale
potere
italia
vita
modernità
nuova
mercato
commercio
geografie
occidente
civiltà
secolo
lavoro
società
diritto
verità
tempo
arte
breve
mercati
america
politica
genova
europa
verso
età
sviluppo
nuovi
contemporanea
rivoluzione
economia
industria
cultura
fine
india
democrazia
economy
diaz
manuale
libertà
rischio
storia
new


historia
vuelta
neoliberal
social
democracia
sistema
viene
compromiso
orden
derecho
humanos
the
moderno
mercado
política
pobreza
gran
sur
economía
derechos
feminismo
pequeña
law
requisitos
comercio
financieros
nuevo
libre
educación
cómo
desarrollo
teoría
infantil
crítica
perspectiva
rojo
europa
contemporáneo
agua
integración
desigualdad
ciudadanía
sociedad
next
control
siglo
capital
poder


china
challenge
changing
city
crisis
future
welfare
first
america
asia
capitalism
europe
history
critical
21st
geography
real
new
business
rights
culture
society
modernity
power
democracy
state
education
change
making
governance
economy
relations
studies
art
century
politics
states
markets
age
management
issues
policy
nation
perspectives
development
human
theory
strategy



Clearly, book purchasers in all the stores are extremely interested in the economic aspects of globalization. The Italian store shows an unusually high association of globalization with “crisis,” which occurs in 11 of the 150 book titles collected. It will be interesting to see whether this association continues over a longer period.

It is also interesting to compare the balance between “future” and “history.” While for Canada, Germany, the UK, and the US the two are more or less the same size, for France, Italy, and Spain we see only “history.” Book titles everywhere tend to emphasize the newness of globalization.

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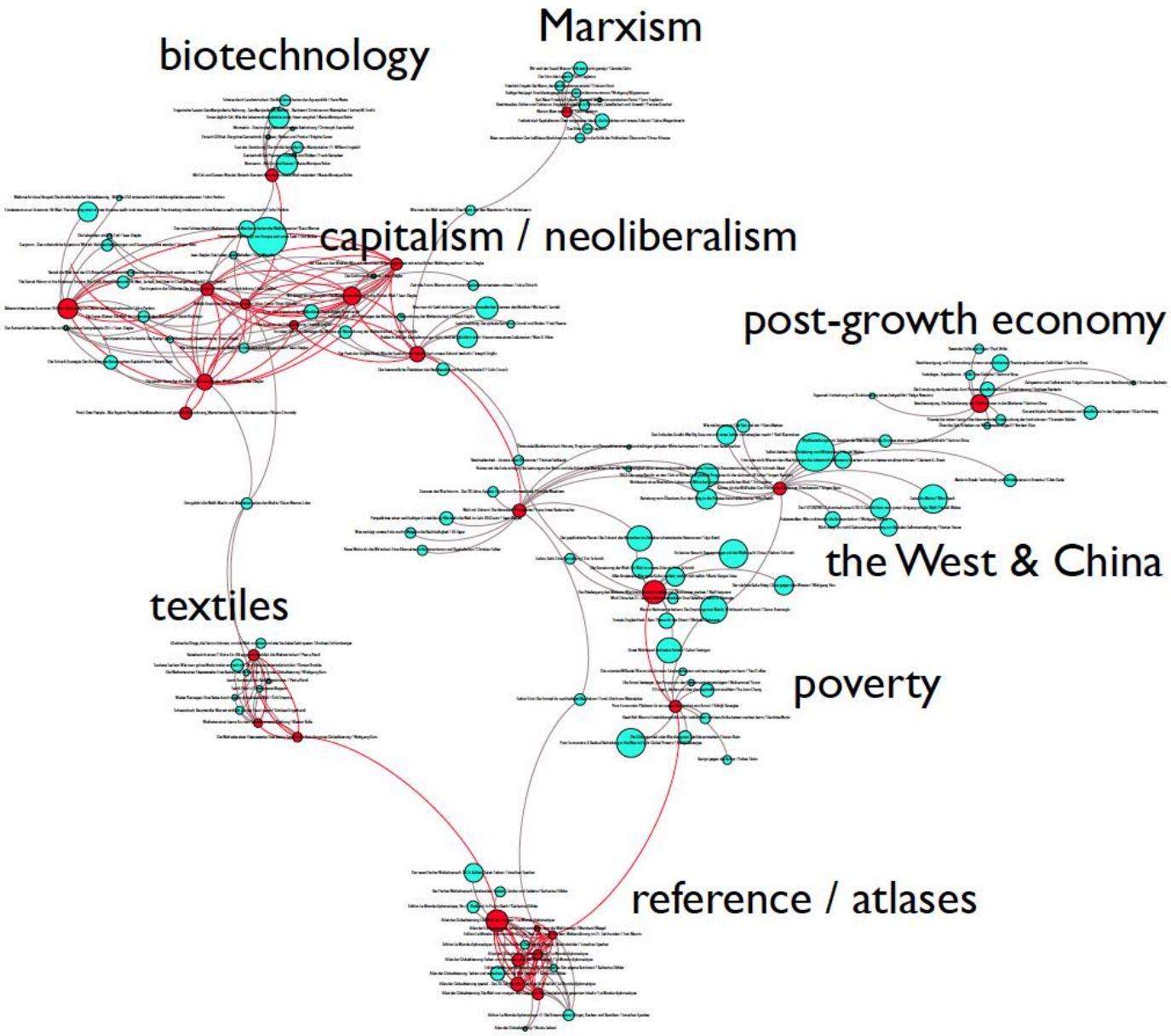
We also notice differences in the geopolitical associations of globalization. In the US and Canadian stores, “America” is a large presence, with “China” (plus “Asia” for Canada) just making the cut. “Europe” features prominently in all the European stores. The German and Italian stores show the greatest geographical diversity, with China, America, Africa, India, and the West joining Europe and the two home countries. The French results include “France,” “Europe,” and “Africa,” while those for the Spanish store include only “Europe.”

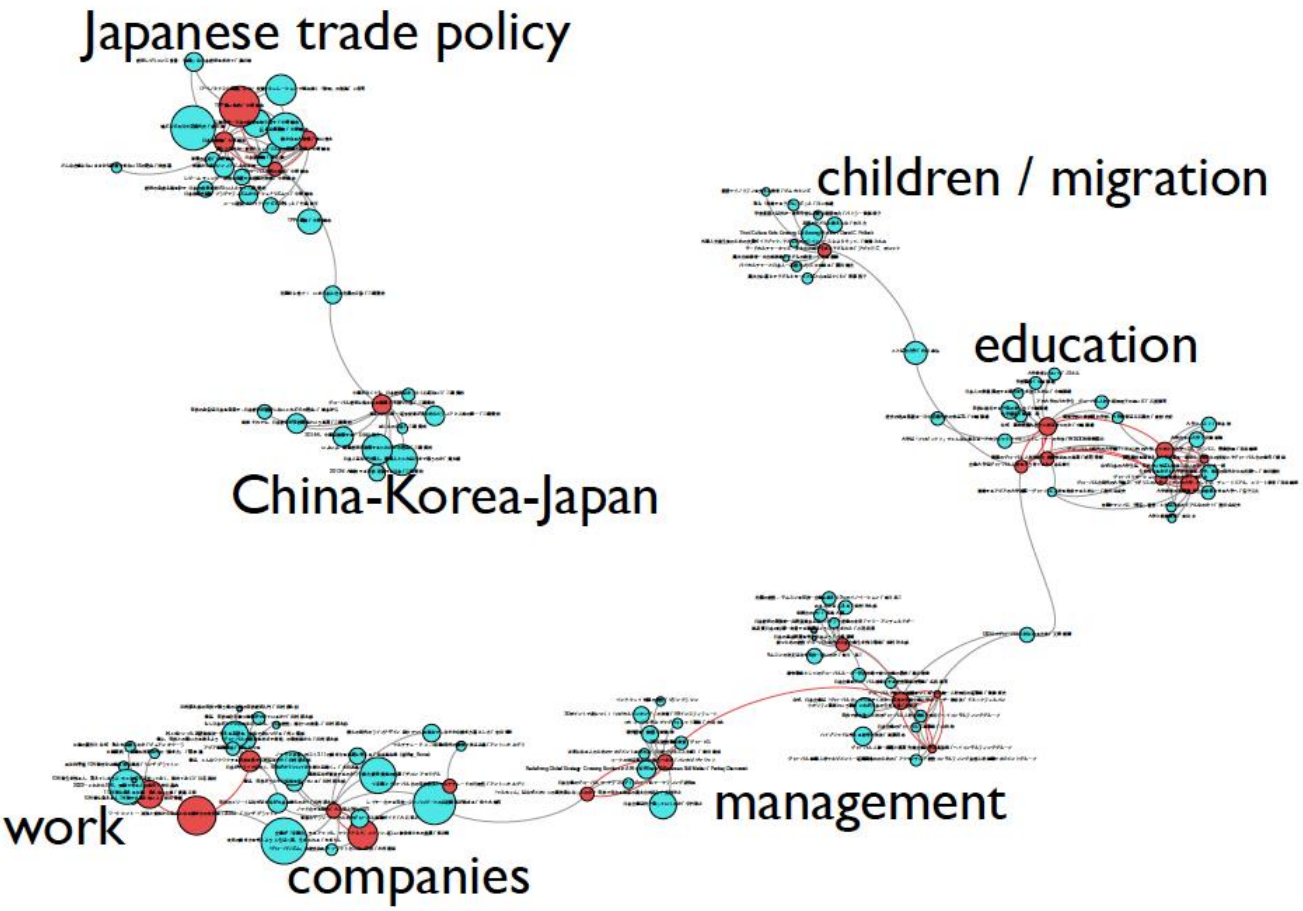
Co-purchasing networks

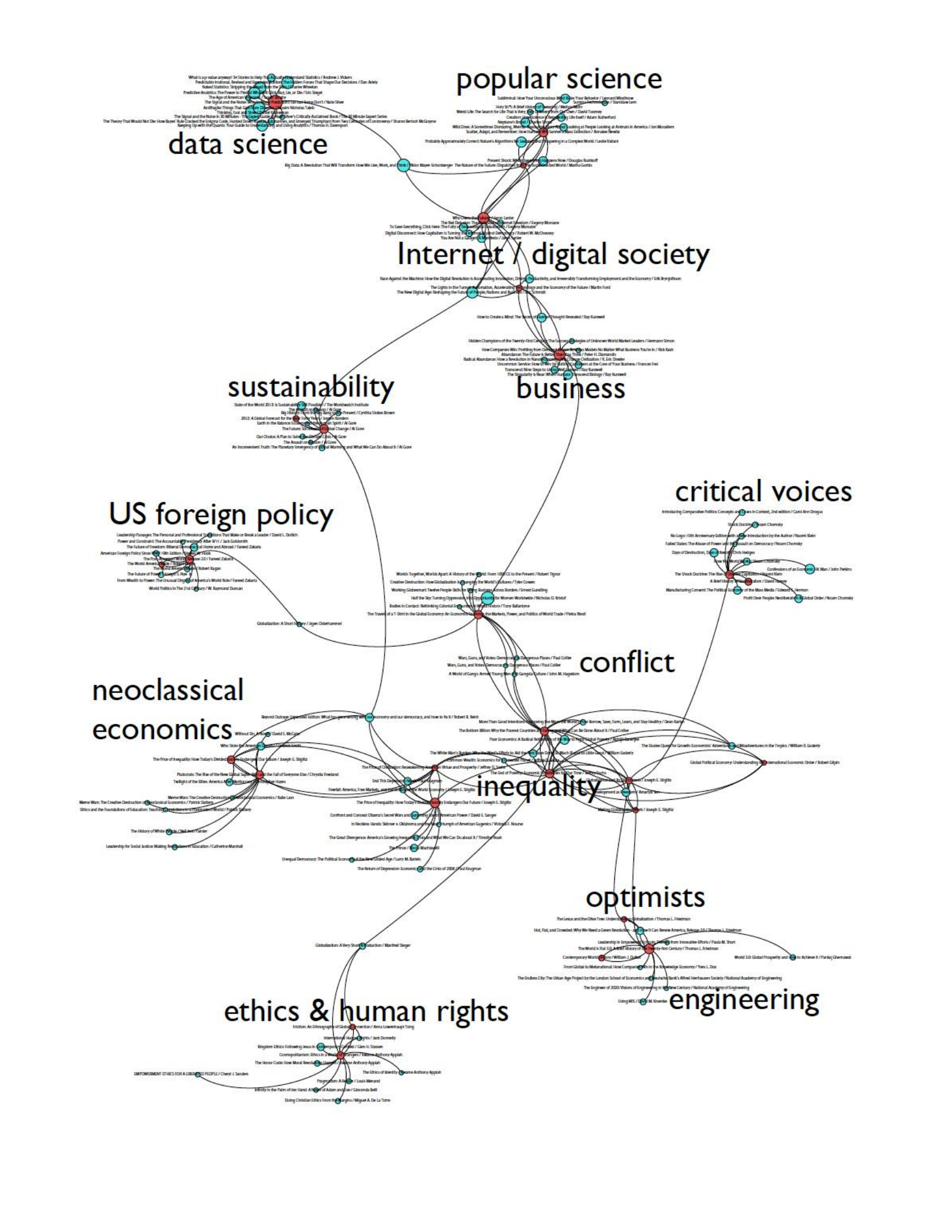
This simple analysis of the text of book titles has revealed some interesting regional variations, but we would like to get a better sense of the issues associated with globalization in different countries. When we browse in an Amazon store we see co-purchasing information ("Customers Who Bought This Item Also Bought…"). By gathering this information for each book returned in the search results for "globalization," we can see which topics are closely associated with globalization in the different book markets. These co-purchasing data can also suggest the structure of debates about globalization in different regions: following Kreb's analysis of political book purchases around the 2008 US presidential election (http://www.orgnet.com/divided.html), will we see mutually unconnected "islands" of texts suggesting a polarized or fragmented popular understanding of globalization or a community of readers linked by knowledge (or at least ownership) of common texts?

In the interest of brevity, here we will confine ourselves to comparing co-purchasing networks from the German, Japanese, and US stores. In the network diagrams that follow, the red nodes are books that have been returned in the search results for "globalization" and the blue nodes are books that have also been purchased by people who have bought books on globalization. The larger the node, the higher the book's mean sales ranking over the two-week period in June 2013. The networks have been restricted to the 200 books with the highest mean sales rankings. Smaller components ("islands") have been omitted. The words in large font size are labels we have subjectively attached to sub-groups of books within each network in an attempt to give a broad sense of their content; the reader is invited to improve these thematic labels. Titles and authors of individual books can be seen by clicking on the image.

Figure 2: Co-purchasing networks in three Amazon.com markets: Germany, Japan, USA


biotechnology
Marxism
capitalism / neoliberalism
post-growth economy
the West & China
textiles
poverty
reference / atlases


Japanese trade policy
children / migration
education
China-Korea-Japan
management
work
companies


popular science
data science
Internet / digital society
sustainability
business
critical voices
US foreign policy
conflict
neoclassical economics
inequality
optimists
engineering
ethics & human rights

The first thing we notice is that the German and US networks consist of one large component whereas the Japanese network is split into two components; the slightly smaller Japanese component is concerned with trade policy—including books debating the Trans-Pacific Strategic Economic Partnership—and Japan's relations with its neighbors. The other component centers on business and management, but also includes books aimed at people concerned about the impact of globalization on their workplace and books on university education and the children of migrants living in Japan. Poverty, inequality, and the environment are not major topics.

These co-purchasing data can also suggest the structure of debates about globalization in different regions...

By contrast, the German and US store networks both have one large component that includes multiple perspectives on globalization ranging from the highly critical accounts of Jean Ziegler and Noam Chomsky to the more optimistic positions taken by, for example, Thomas Friedman. This suggests that the debate on globalization in those countries is lively but not completely polarized. Nevertheless, the overall tone of the best-selling German books on globalization and the titles bought along with them is considerably more skeptical of the benefits of globalization than that in the US store.

Final word

The preliminary results presented in this article suggest that using purchasing data from online book stores, despite its limitations, is a promising way of estimating what people in a given country are likely to understand by and associate with globalization. In order to present firm conclusions we need to gather data over a longer period, and it would be desirable to expand the coverage to include other regions and countries.

Tags

regional studies

globalization



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