SOCI 210: SOCIOLOGICAL PERSPECTIVES

Agenda 1. Administrative

- 2. Science, technology, & society
- 3. The Internet & inequality
- 4. Discussion:
 - Online media & racial stereotyping

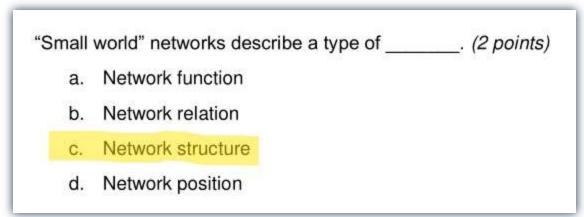
ADMINISTRATIVE

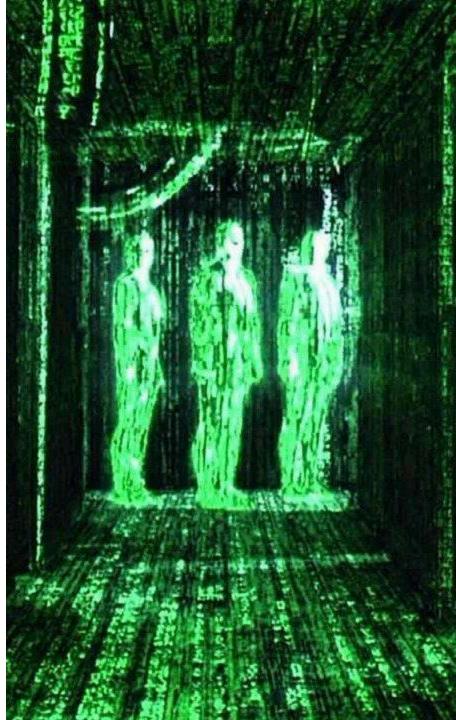
Deadline extention

Synthesis essay 2 is now due on *Friday, April 11*

Final exam freebie

- In our discussion of social network analysis, I neglected to talk about 'small world networks'
- On the exam, a question asks you what type of network feature these are. The answer is network structure
- Note that response orders are randomized; on your exam, it may not be option 'c'





Science, technology, & society

TECHNOLOGY AND SOCIETY

What is "technology"?

- Textbook: "The application of science to solve problems in daily life."
- Frequently used more broadly

Consider a tiny innovation commonly found in European hotels: attaching large cumbersome weights to room keys in order to remind customers that they should leave their key at the front desk every time they leave the hotel instead of taking it along on a tour of the city.

> Latour, Bruno. "Technology Is Society Made Durable." The Sociological Review 38, no. S1 (May 1, 1990): 103–31.



TECHNOLOGY AND SOCIETY

Technology *mediates* the way we live and interact in society:





Weapons

Interpersonal dominance Warfare, conquest, colonialism





Transportation Trade Migration





Medicine Personal health Reproduction Demographic change





Automation Increased alienation Economic production

Communication ...

5

SCIENCE & TECHNOLOGY STUDIES

Society & culture Science & technology

How does technology influence society?

- i Is technological change exogenous? something that happens to society? Demographic transition theory; Weber on bureaucracy; etc.
- How can new science and techologies change the way we interact with each other?
- How can new science and technologies alter power relations?

How does society influence technology?

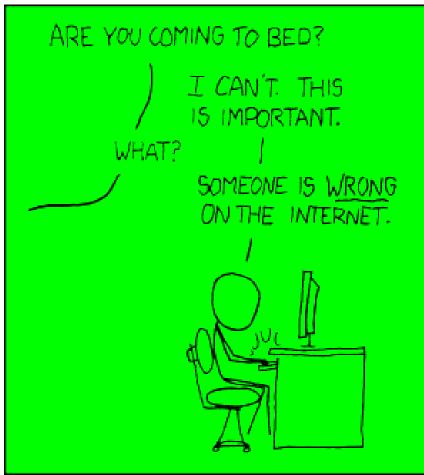
- Production of scientific knowledge and technology is *inherently social*
- Social institutions and norms *shape* scientific knowledge

E.g., promote 'bad' science (phrenology, conversion therapy)<

Scientific knowledge is *itself* social

E.g. paradigms the structure of scientific revolutions (Kuhn)

The Internet & social divisions



COMMUNICATION TECHNOLOGY

Technologies of communication are hugely impactful on society

Communication as the *medium* of interaction

Written language

Durable, verifiable, recordable Trade, laws, long-distance communication, literature, ...

ALL AND CONTRACT

Printing

Reproducible, mass distribution

Democratization of text (Martin Luther) Walter Benjamin: "The Work of Art in the Age of Mechanical Reproduction"



COMMUNICATION TECHNOLOGY

Technologies of communication are hugely impactful on society

Communication as the *medium* of interaction

Telecommunications

"Instant" broadcasts Global availability of news Mass media and culture (Hollywood)



The Internet

Email, World Wide Web Person-to-person communication Online identities



INTERNET AS EQUALIZER

Globalized communication

 Popular idea that instant, effortless communication is widely available to everyone (We will problematize this in a moment)

Lowered barriers

- Common idea behind theories of modernization
- Geographic, political, cultural, and economic barriers are easier to cross

"The World is Flat"

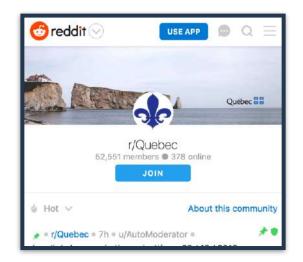
- Thomas Friedman (2005)
- Utopian ideal of hyper-modernized globe
- Realization of free-market ideal

INTERNET AS EQUALIZER

Internet undoubtedly breaks down some social barriers

- Effort required to publish information to a global audience (or a specific person) is extremely low
- Special-interest information and support communities are widely accessible Marginalized communities can cast a wider social support net
- Populations with grievance can find each other Disparate individuals can become a "group"

		Game Library		
-	🛤 Articity			
9	🖶 Ubrary	U Frostpank	·	a statistica and stat
	III Stars			
		Into the Breach		
	DIRECT VESSIANCE			
	C Linemari This Section Super-			
3	Norres Million		PLATFORM -	
	All Sarden	Bridge Constructor		
	Column 2.	Deed Calls		
	The Hall			
	A South Control of South States	Into the Breach		
	agerie -			
	the Uningsyst	Biggiore New Lands		
	Cipernali Stranger			
	Chartenane			
	Anticipat			

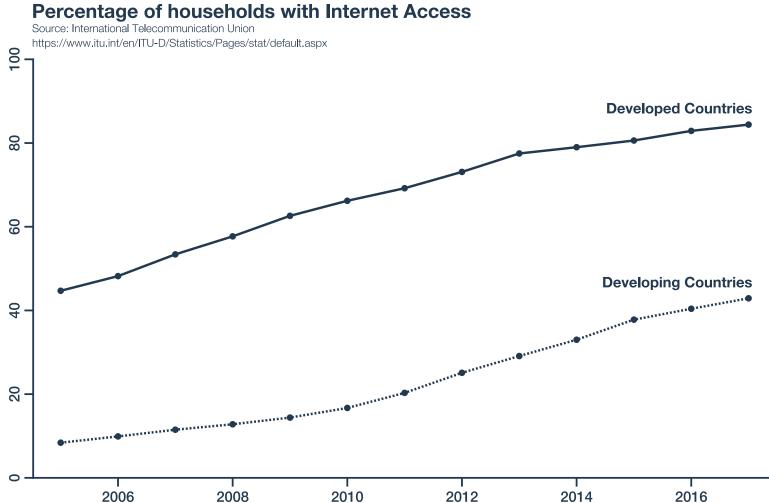


INTERNET AS EQUALIZER

Recombinative culture

- Cognitive Surplus (Clay Shirky, 2010)
- Grass-roots creative communities itch.io, bandcamp.com, github.com, archiveofourown.org







<!DOCTYPE html>

<html>

<head>

<title>Cultural Privilege of Northwest Europeans</title> </head>

<body>

<section>

<h1>Cultural Privilege of Northwest Europeans</h1>

Northwest Europeans are often seen as having cultura This privilege can be seen in various aspects of society, suc European the modia often nortrays Western values and life



Infrastructure inequality

Physical infrastructure of the Internet focussed on wealthy parts of wealthy countries

Access and bandwidth correlated with wealth and power

E Hardware expensive for individuals and institutions

Cultural inequality

Internet is designed by and for Western Europeans and North Americans

Euro-centric URLs, programming languages, documentation, ...

Knowledge inequality

Email, web navigation, word processing, etc.

: Social knowledge

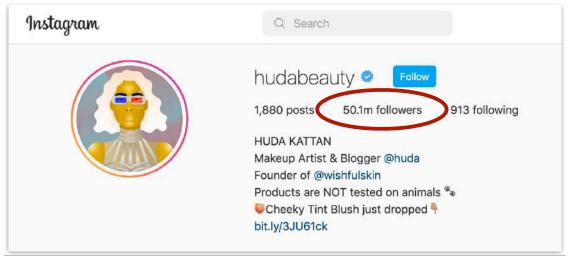
Etiquette, discernment of legitimate sources, etc.

Forces of structural inequality

- Evan a "flat world" will develop structural inequalities
- Matthew effect (path dependency, preferential attachment) "Rich get richer, poor get poorer"
- Concentration of power

Twitter accounts with many followers will attract even more Amazon books with lots of reviews will sell more Academic articles with lots of citations will be cited more

Small differences compound over time



Automation of communications media

• Filtered content, targeted ads, search, ...

Technology embeds existing biases

Racial, ethnic, gender, and class prejudices are built into technology

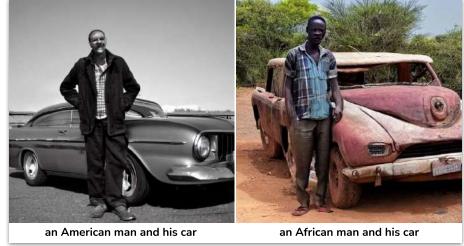
Roth, Lorna. "Looking at Shirley, the Ultimate Norm: Colour Balance, Image Technologies, and Cognitive Equity." *Canadian Journal of Communication* 34, no. 1 (March 28, 2009).





New media and the reproduction of inequality

- Artificial intelligence / machine learning cannot be neutral
- Biases of scientists Introduced through categories and implicit assumptions
- Biases of society Introduced through data availability and model training



Al-generated images reflect cultural biases

Bianchi, Federico, Pratyusha Kalluri, Esin Durmus, Faisal Ladhak, Myra Cheng, Debora Nozza, Tatsunori Hashimoto, Dan Jurafsky, James Zou, and Aylin Caliskan. 2022. "Easily Accessible Text-to-Image Generation Amplifies Demographic Stereotypes at Large Scale." arXiv. <u>https://doi.org/10.48550/</u> <u>arXiv.2211.03759</u>.

Menu 🗸

The Markup Donate

Challenging technology to serve the public good.

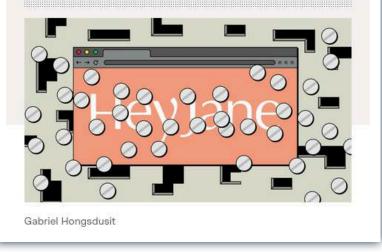
Pixel Hunt

Online Abortion Pill Provider Hey Jane Used Tracking Tools That Sent Visitor Data to Meta, Google, and Others

Personal information from reviewers was also exposed until The Markup's inquiry

By Jon Keegan and Dara Kerr

July 1, 2022 10:00 ET



Technology as tool of opression

- Ubiquity of digital communication opens new channels for systems of oppression
- **: Surveillance** Location, content, association, etc

Foucault's panopticon

Extraction

Labor (physical and creative)

Harassment, cyber-bullying, doxxing

Availability of information and access to social networks

EFraming / narative

Social media and online resources give outsize influence over framing to those with access

ONLINE MEDIA AND STEREOTYPING

The role of online *versus* 'legacy' media in racial stereotyping

- 1. In groups of 2–4:
 - What differences did Phelps and Hamilton (2021) find between 'online only' and 'legacy' news sources?
 - Discuss what **features** of online media could account for this difference?
 - Example Consider the influence of social media on racialized representations. How does this to the news media that was the focus of the reading?

2. As a class:

As a class, we'll discuss some of the points and insights from the groups