

Privacy, Anonymity, and User-Centered Design

Dr. Kaylea Champion

February 26, 2025



• I study how people build awesome software.

- I study how people build awesome software.
- Postdoc, Community Data Science Collective (UW, Northwestern, Purdue, UT Austin)

- I study how people build awesome software.
- Postdoc, Community Data Science Collective (UW, Northwestern, Purdue, UT Austin)
- Research areas: human-computer interaction, empirical software engineering, cybersecurity, privacy, organizational communication

- I study how people build awesome software.
- Postdoc, Community Data Science Collective (UW, Northwestern, Purdue, UT Austin)
- Research areas: human-computer interaction, empirical software engineering, cybersecurity, privacy, organizational communication
- PhD, Communication, UW Seattle

- I study how people build awesome software.
- Postdoc, Community Data Science Collective (UW, Northwestern, Purdue, UT Austin)
- Research areas: human-computer interaction, empirical software engineering, cybersecurity, privacy, organizational communication
- PhD, Communication, UW Seattle
- MS, Computer Science, University of Chicago

- I study how people build awesome software.
- Postdoc, Community Data Science Collective (UW, Northwestern, Purdue, UT Austin)
- Research areas: human-computer interaction, empirical software engineering, cybersecurity, privacy, organizational communication
- PhD, Communication, UW Seattle
- MS, Computer Science, University of Chicago
- Industry experience: IT systems (career ladder: service delivery, system administration, management, leadership)

• Quick introduction [done!]

- Quick introduction [done!]
- My goals

- Quick introduction [done!]
- My goals
 - Set the context a little bit

- Quick introduction [done!]
- My goals
 - Set the context a little bit
 - $\bullet\,$ Expand your toolbox for thinking about privacy and anonymity in UX

- Quick introduction [done!]
- My goals
 - Set the context a little bit
 - Expand your toolbox for thinking about privacy and anonymity in UX
 - Share some perhaps-surprising research results about anonymity seekers

- Quick introduction [done!]
- My goals
 - Set the context a little bit
 - Expand your toolbox for thinking about privacy and anonymity in UX
 - Share some perhaps-surprising research results about anonymity seekers
 - Discuss and apply these ideas

- Quick introduction [done!]
- My goals
 - Set the context a little bit
 - Expand your toolbox for thinking about privacy and anonymity in UX
 - Share some perhaps-surprising research results about anonymity seekers
 - Discuss and apply these ideas
- We can only scratch the surface today.

• Theories of social computing, in an applied setting

- Theories of social computing, in an applied setting
- Typical structure

- Theories of social computing, in an applied setting
- Typical structure
 - Key theories, ideas, and skills...

- Theories of social computing, in an applied setting
- Typical structure
 - Key theories, ideas, and skills...
 - ...applied to case studies through discussion...

- Theories of social computing, in an applied setting
- Typical structure
 - Key theories, ideas, and skills...
 - ...applied to case studies through discussion...
 - …leading to a student-selected project.

• Communication (Discord)

- Communication (Discord)
- Community (Reddit)

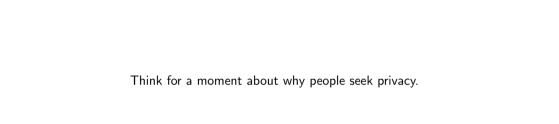
- Communication (Discord)
- Community (Reddit)
- Curation (also Reddit)

- Communication (Discord)
- Community (Reddit)
- Curation (also Reddit)
- Question and answer (StackExchange, Quora)

- Communication (Discord)
- Community (Reddit)
- Curation (also Reddit)
- Question and answer (StackExchange, Quora)
- Connection (social media)

- Communication (Discord)
- Community (Reddit)
- Curation (also Reddit)
- Question and answer (StackExchange, Quora)
- Connection (social media)
- Coordination (productivity, workflow, collaboration platforms GitHub, Wikipedia, Jira)







11



Are people only good when they have a fear of punishment?

Or can they be good when truly anonymous?

Why	do	we	care	about	privacy	in	design	of	social	comp	outing

systems?

1. Technology brings our ideas about privacy out of the realm of thought experiments and fiction, and into the real world.

- 1. Technology brings our ideas about privacy out of the realm of thought experiments and fiction, and into the real world.
- 2. We don't always get it right—users experience privacy-related problems in the systems we build.

- 1. Technology brings our ideas about privacy out of the realm of thought experiments and fiction, and into the real world.
- 2. We don't always get it right—users experience privacy-related problems in the systems we build.
- Privacy notices, cookie notices, pages of settings

- 1. Technology brings our ideas about privacy out of the realm of thought experiments and fiction, and into the real world.
- 2. We don't always get it right—users experience privacy-related problems in the systems we build.
- Privacy notices, cookie notices, pages of settings
- The (controversial) privacy paradox

- 1. Technology brings our ideas about privacy out of the realm of thought experiments and fiction, and into the real world.
- 2. We don't always get it right—users experience privacy-related problems in the systems we build.
- Privacy notices, cookie notices, pages of settings
- The (controversial) privacy paradox
 - People say they care about privacy...

- 1. Technology brings our ideas about privacy out of the realm of thought experiments and fiction, and into the real world.
- 2. We don't always get it right—users experience privacy-related problems in the systems we build.
- Privacy notices, cookie notices, pages of settings
- The (controversial) privacy paradox
 - People say they care about privacy...
 - but they still share a lot of information online!

- 1. Technology brings our ideas about privacy out of the realm of thought experiments and fiction, and into the real world.
- 2. We don't always get it right—users experience privacy-related problems in the systems we build.
- Privacy notices, cookie notices, pages of settings
- The (controversial) privacy paradox
 - People say they care about privacy...
 - but they still share a lot of information online!
 - (....the research record here is mixed; people's attitudes and behaviors on this topic are complex and multi-layered).

- 1. Technology brings our ideas about privacy out of the realm of thought experiments and fiction, and into the real world.
- 2. We don't always get it right—users experience privacy-related problems in the systems we build.
- Privacy notices, cookie notices, pages of settings
- The (controversial) privacy paradox
 - People say they care about privacy...
 - but they still share a lot of information online!
 - (....the research record here is mixed; people's attitudes and behaviors on this topic are complex and multi-layered).
- Privacy cynicism

- 1. Technology brings our ideas about privacy out of the realm of thought experiments and fiction, and into the real world.
- 2. We don't always get it right—users experience privacy-related problems in the systems we build.
- Privacy notices, cookie notices, pages of settings
- The (controversial) privacy paradox
 - People say they care about privacy...
 - but they still share a lot of information online!
 - (....the research record here is mixed; people's attitudes and behaviors on this topic are complex and multi-layered).
- Privacy cynicism
- Privacy violations

- 1. Technology brings our ideas about privacy out of the realm of thought experiments and fiction, and into the real world.
- 2. We don't always get it right—users experience privacy-related problems in the systems we build.
- Privacy notices, cookie notices, pages of settings
- The (controversial) privacy paradox
 - People say they care about privacy...
 - but they still share a lot of information online!
 - (....the research record here is mixed; people's attitudes and behaviors on this topic are complex and multi-layered).
- Privacy cynicism
- Privacy violations
- Who / what is private? From whom?

• Anonymity and privacy are sometimes used interchangeably

Westin, A. F. (1967). Privacy and Freedom. Atheneum.

- Anonymity and privacy are sometimes used interchangeably
- Privacy has multiple "substates":

Westin, A. F. (1967). Privacy and Freedom. Atheneum.

- Anonymity and privacy are sometimes used interchangeably
- Privacy has multiple "substates":
 - solitude

Westin, A. F. (1967). Privacy and Freedom. Atheneum.

- Anonymity and privacy are sometimes used interchangeably
- Privacy has multiple "substates":
 - solitude
 - reserve

Westin, A. F. (1967). Privacy and Freedom. Atheneum.

- Anonymity and privacy are sometimes used interchangeably
- Privacy has multiple "substates":
 - solitude
 - reserve
 - intimacy (and community)

Westin, A. F. (1967). Privacy and Freedom. Atheneum.

- Anonymity and privacy are sometimes used interchangeably
- Privacy has multiple "substates":
 - solitude
 - reserve
 - intimacy (and community)
 - anonymity:

Westin, A. F. (1967). Privacy and Freedom. Atheneum.

- Anonymity and privacy are sometimes used interchangeably
- Privacy has multiple "substates":
 - solitude
 - reserve
 - intimacy (and community)
 - anonymity:

the degree to which identifiable details are known or can be known by those receiving communication from us

Westin, A. F. (1967). Privacy and Freedom. Atheneum.

- Anonymity and privacy are sometimes used interchangeably
- Privacy has multiple "substates":
 - solitude
 - reserve
 - intimacy (and community)
 - anonymity:

the degree to which identifiable details are known or can be known by those receiving communication from us

We'll focus on just anonymity today.

Westin, A. F. (1967). Privacy and Freedom. Atheneum.



• Online disinhibition

- Online disinhibition
- Media richness

- Online disinhibition
- Media richness
- Helpful for some activities:

- Online disinhibition
- Media richness
- Helpful for some activities:
 - giving feedback

- Online disinhibition
- Media richness
- Helpful for some activities:
 - giving feedback
 - brainstorming

- Online disinhibition
- Media richness
- Helpful for some activities:
 - giving feedback
 - brainstorming
 - support groups

- Online disinhibition
- Media richness
- Helpful for some activities:
 - giving feedback
 - brainstorming
 - support groups
- Perhaps less helpful for other activities:

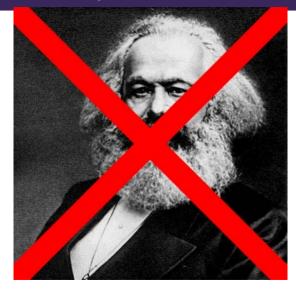
- Online disinhibition
- Media richness
- Helpful for some activities:
 - giving feedback
 - brainstorming
 - support groups
- Perhaps less helpful for other activities:
 - making decisions

- Online disinhibition
- Media richness
- Helpful for some activities:
 - giving feedback
 - brainstorming
 - support groups
- Perhaps less helpful for other activities:
 - making decisions
 - building relationships? Mixed/conflicting results

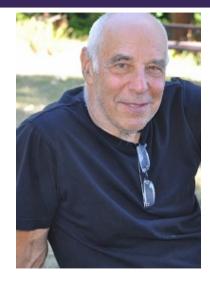
- Online disinhibition
- Media richness
- Helpful for some activities:
 - giving feedback
 - brainstorming
 - support groups
- Perhaps less helpful for other activities:
 - making decisions
 - building relationships? Mixed/conflicting results
- Much of this is made possible by "mediation" (i.e. technology, and how we design it)

The Marx Model of Identifiability

The Marx Model of Identifiability – 10 facets



The Marx Model of Identifiability – 10 facets



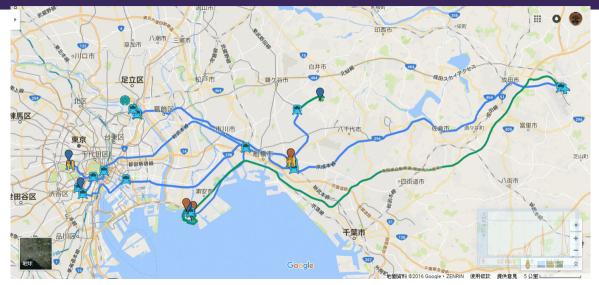
information about an individual



shared traits they may typify



geographic



temporal



networks and relationships



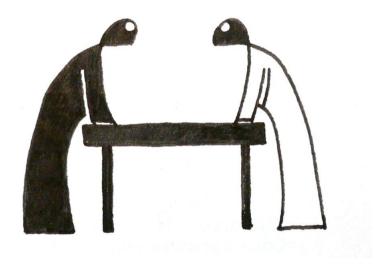
objects



behavioral



beliefs, attitudes, emotions



measurement of characteristics



media references

ferences | Ledit source 1

- 1. ^ "Linda Brown obituary | Register" . The Times. Retrieved April 11, 2018.
- 2. ^ a b c d e f Smith, Harrison; Silverman, Ellie, "Linda Brown Thompson, girl at center of Brown v. Board of
- April 25, 2018. 3. ^ a b c d e f g h i j k l "Linda Brown Biography" 配.
 - Biography.com. Retrieved April 25, 2018.
- 4. ^ a b c Grinberg, Emanuella; Jones, Sheena; Vera, Amir.

Education case, dies" . The Washington Post, Retrieved

- "Linda Brown, woman at center of Brown v. Board case. dies" . CNN. Retrieved April 25, 2018. 5. ^ a b c d e f Carlson, Michael. "Linda Brown obituary" &.
- The Guardian. Retrieved April 25, 2018. 6. ^ a b c d e f Romo, Vanessa, "Linda Brown, Who Was At
 - Center Of Brown v. Board Of Education, Dies & NPR.
 - Retrieved April 25, 2018.

- 7. ^ a b James, Mike. "Linda Brown of Brown v. Board of Education dies; was a symbol of struggle against segregation" @. USA Today. Retrieved April 25, 2018.
- 8. ^ "Myths vs Truths" . Brown Foundation. Retrieved April 25, 2018.
- 9. ↑ "MISS BUCHANAN'S PERIOD OF ADJUSTMENT" №.
- Revisionist History. Retrieved September 1, 2018. 10. A Brown v. Board of Education, 98 F. Supp. 797, 798 (D.
- Kan. 1951), rev'd, 347 U.S. 483 (1954). 11. ^ "Understanding Brown v. Board of Education: A Case
- Summary" &. Findlaw.
- 12. ^ "The Court's Decision Separate Is Not Equal" ... americanhistory.si.edu. Retrieved February 1, 2022.



the United







Authority control &

Facets of Identifiability

- information about them as an individual (name, ancestry)
- shared traits they may typify (gender, age, occupation)
- geographic (these are about reachability, and can be fixed such as residence, and mobile, such as e-mail address)
- temporal (when they did what activity)
- networks and relationships
- objects (that they own)
- behavioral (patterns of communication, purchases, work, norm compliance)
- beliefs, attitudes, emotions
- measurement characterizations (SAT scores, credit rating, HIV status)
- media references (what's been said about whom in public)

• Criminality?



- Criminality?
- Principle?



- Criminality?
- Principle?
 - Some people have a strong desire for anonymity....



- Criminality?
- Principle?
 - Some people have a strong desire for anonymity....
 - ...but we all maintain some forms of anonymity online



- Criminality?
- Principle?
 - Some people have a strong desire for anonymity....
 - ...but we all maintain some forms of anonymity online
- Safety?



- Criminality?
- Principle?
 - Some people have a strong desire for anonymity....
 - ...but we all maintain some forms of anonymity online
- Safety?
 - Fraud



- Criminality?
- Principle?
 - Some people have a strong desire for anonymity....
 - ...but we all maintain some forms of anonymity online
- Safety?
 - Fraud
 - Abuse



- Criminality?
- Principle?
 - Some people have a strong desire for anonymity....
 - ...but we all maintain some forms of anonymity online
- Safety?
 - Fraud
 - Abuse
 - Oppression



Identity information can be used as a driver for profit



BM Hill, A Shaw. The Hidden Costs of Requiring Accounts: Quasi-Experimental Evidence From Peer Production. Communication Research. Preprint: https://arxiv.org/abs/2111.10688

N McDonald and A Forte. 2020. The Politics of Privacy Theories: Moving from Norms to Vulnerabilities. Proceedings of the 2020 ACM Conference on Human Factors in Computing Systems. (CHI 2020) https://doi.org/10.1145/3313831.3376167

Identity information can be used as a driver for profit

....although some platforms see anonymity / privacy as a selling point (Reddit, Signal).



BM Hill, A Shaw. The Hidden Costs of Requiring Accounts: Quasi-Experimental Evidence From Peer Production. Communication Research. Preprint: https://arxiv.org/abs/2111.10688

N McDonald and A Forte. 2020. The Politics of Privacy Theories: Moving from Norms to Vulnerabilities. Proceedings of the 2020 ACM Conference on Human Factors in Computing Systems. (CHI 2020) https://doi.org/10.1145/3313831.3376167

Identity information can be used as a driver for profit

....although some platforms see anonymity / privacy as a selling point (Reddit, Signal).

 Anonymity can complicate enforcement e.g. export restrictions, embargoes, harassment complaints



BM Hill, A Shaw. The Hidden Costs of Requiring Accounts: Quasi-Experimental Evidence From Peer Production. Communication Research. Preprint: https://arxiv.org/abs/2111.10688

N McDonald and A Forte. 2020. The Politics of Privacy Theories: Moving from Norms to Vulnerabilities. Proceedings of the 2020 ACM Conference on Human Factors in Computing Systems. (CHI 2020) https://doi.org/10.1145/3313831.3376167

- Identity information can be used as a driver for profit
 -although some platforms see anonymity / privacy as a selling point (Reddit, Signal).
- Anonymity can complicate enforcement e.g. export restrictions, embargoes, harassment complaints
 - Impact of identity policies can be hard to see



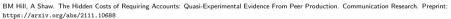
BM Hill, A Shaw. The Hidden Costs of Requiring Accounts: Quasi-Experimental Evidence From Peer Production. Communication Research. Preprint: https://arxiv.org/abs/2111.10688

N McDonald and A Forte. 2020. The Politics of Privacy Theories: Moving from Norms to Vulnerabilities. Proceedings of the 2020 ACM Conference on Human Factors in Computing Systems. (CHI 2020) https://doi.org/10.1145/3313831.3376167

Identity information can be used as a driver for profit

....although some platforms see anonymity / privacy as a selling point (Reddit, Signal).

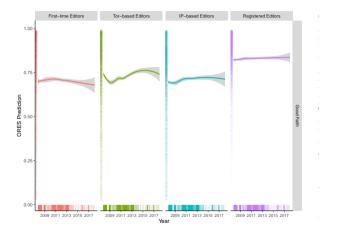
- Anonymity can complicate enforcement e.g. export restrictions, embargoes, harassment complaints
 - Impact of identity policies can be hard to see
 - Perspective of vulnerable populations may be unknown and unfamiliar



N McDonald and A Forte. 2020. The Politics of Privacy Theories: Moving from Norms to Vulnerabilities. Proceedings of the 2020 ACM Conference on Human Factors in Computing Systems. (CHI 2020) https://doi.org/10.1145/3313831.3376167



• Context: Wikipedia



- Context: Wikipedia
- 4-group comparison:

Newcomers

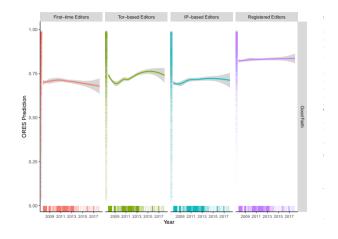
Anonymity-seekers using

Tor

Contributors without

accounts

Accountholders



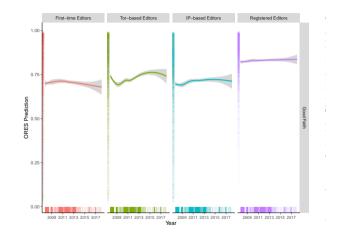
- Context: Wikipedia
- 4-group comparison:

Newcomers Anonymity-seekers using Tor Contributors without accounts

Accountholders

• Anonymity-seekers at the

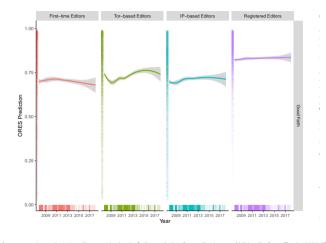
 Anonymity-seekers at the same or slightly better quality than newcomers, non-account holders



- Context: Wikipedia
- 4-group comparison:

Newcomers
Anonymity-seekers using
Tor
Contributors without
accounts
Accountholders

- Anonymity-seekers at the same or slightly better quality than newcomers, non-account holders
- Different topics (more politics, religion, tech, less American football)



• Many typical edits:

Many typical edits:
 typo fixes

- Many typical edits:
 - typo fixes fact updating

- Many typical edits:
 - typo fixes
 - fact updating
 - and vandalism.

- Many typical edits:
 - typo fixes fact updating and vandalism.
- Some contributions that suggest vulnerability:

- Many typical edits:
 - typo fixes fact updating and vandalism.
- Some contributions that suggest vulnerability:
 - activism

- Many typical edits:
 - typo fixes fact updating and vandalism.
- Some contributions that suggest vulnerability:
 - activism removing conspiracy theories

But the bad stuff!

• Same four groups:

Newcomers

Anonymity-seekers using Tor

Contributors without accounts

Accountholders



K Champion. Characterizing Online Vandalism: A Rational Choice Perspective in ACM International Conference on Social Media and Society (SMSociety 2020). Preprint: https://arxiv.org/abs/2007.02199

But the bad stuff!

• Same four groups:

Newcomers

Anonymity-seekers using Tor

Contributors without accounts

Accountholders

Lower rates of vandalism from Tor than those without accounts



K Champion. Characterizing Online Vandalism: A Rational Choice Perspective in ACM International Conference on Social Media and Society (SMSociety 2020). Preprint: https://arxiv.org/abs/2007.02199

But the bad stuff!

• Same four groups:

Newcomers

Anonymity-seekers using Tor

Contributors without accounts

Accountholders

- Lower rates of vandalism from Tor than those without accounts
- Tor users challenged attempts to block them



K Champion. Characterizing Online Vandalism: A Rational Choice Perspective in ACM International Conference on Social Media and Society (SMSociety 2020). Preprint: https://arxiv.org/abs/2007.02199

The evidence I've shared with you today has been developed in multiple ways.

Quantitative

- Quantitative
 - Count actions (trends over time, before / after a change)

- Quantitative
 - Count actions (trends over time, before / after a change)
 - Characterize actions (machine learning / natural language processing)

- Quantitative
 - Count actions (trends over time, before / after a change)
 - Characterize actions (machine learning / natural language processing)
 - ullet Could also do A / B testing, surveys

- Quantitative
 - Count actions (trends over time, before / after a change)
 - Characterize actions (machine learning / natural language processing)
 - Could also do A / B testing, surveys
- Qualitative

- Quantitative
 - Count actions (trends over time, before / after a change)
 - Characterize actions (machine learning / natural language processing)
 - Could also do A / B testing, surveys
- Qualitative
 - Interviews

Methods for Studying Anonymity and Privacy

The evidence I've shared with you today has been developed in multiple ways.

- Quantitative
 - Count actions (trends over time, before / after a change)
 - Characterize actions (machine learning / natural language processing)
 - Could also do A / B testing, surveys
- Qualitative
 - Interviews
 - Grounded theory, thematic analysis

Methods for Studying Anonymity and Privacy

The evidence I've shared with you today has been developed in multiple ways.

- Quantitative
 - Count actions (trends over time, before / after a change)
 - Characterize actions (machine learning / natural language processing)
 - Could also do A / B testing, surveys
- Qualitative
 - Interviews
 - Grounded theory, thematic analysis
 - Forensic qualitative analysis (close reading of traces)

Methods for Studying Anonymity and Privacy

The evidence I've shared with you today has been developed in multiple ways.

- Quantitative
 - Count actions (trends over time, before / after a change)
 - Characterize actions (machine learning / natural language processing)
 - Could also do A / B testing, surveys
- Qualitative
 - Interviews
 - Grounded theory, thematic analysis
 - Forensic qualitative analysis (close reading of traces)
 - Could also do digital ethnography, gather feedback in design workshops

People have good reasons to be anonymous online....

People have good reasons to be anonymous online....

but platforms and communities may respond to them with suspicion $% \left(\frac{1}{2}\right) =\frac{1}{2}\left(\frac{1}{2}\right) =\frac{1}{2}\left($

People have good reasons to be anonymous online.... but platforms and communities may respond to them with suspicion and not take up their perspective.

Anonymity-seekers are often comparable to other groups... $% \label{eq:comparable} % \label{eq:compar$

Anonymity-seekers are often comparable to other groups...

like newcomers and casual contributors.

Anonymity-seekers are often comparable to other groups...

like newcomers and casual contributors.

They may offer some unique value or tackle riskier types of work.

• Take stock of identifiability. [use the Marx model – this will be today's activity]

- Take stock of identifiability. [use the Marx model this will be today's activity]
- Path-trace workflows and interactions

- Take stock of identifiability. [use the Marx model this will be today's activity]
- Path-trace workflows and interactions

How would someone who needs anonymity join and use this service?

- Take stock of identifiability. [use the Marx model this will be today's activity]
- Path-trace workflows and interactions
 How would someone who needs anonymity join and use this service?
- Re-imagine the anonymous 'other'.

- Take stock of identifiability. [use the Marx model this will be today's activity]
- Path-trace workflows and interactions

How would someone who needs anonymity join and use this service?

Re-imagine the anonymous 'other'.

- Take stock of identifiability. [use the Marx model this will be today's activity]
- Path-trace workflows and interactions

How would someone who needs anonymity join and use this service?

Re-imagine the anonymous 'other'.

'They' may have the same good intentions 'we' do.

Seek out the perspective of people in vulnerable and stigmatized groups

- Take stock of identifiability. [use the Marx model this will be today's activity]
- Path-trace workflows and interactions

How would someone who needs anonymity join and use this service?

Re-imagine the anonymous 'other'.

- Seek out the perspective of people in vulnerable and stigmatized groups
- Keep participation barriers low it helps newcomers and casual users, not just anonymity seekers

- Take stock of identifiability. [use the Marx model this will be today's activity]
- Path-trace workflows and interactions

How would someone who needs anonymity join and use this service?

Re-imagine the anonymous 'other'.

- Seek out the perspective of people in vulnerable and stigmatized groups
- Keep participation barriers low it helps newcomers and casual users, not just anonymity seekers
- Anticipate value in marginalized potential members

- Take stock of identifiability. [use the Marx model this will be today's activity]
- Path-trace workflows and interactions

How would someone who needs anonymity join and use this service?

Re-imagine the anonymous 'other'.

- Seek out the perspective of people in vulnerable and stigmatized groups
- Keep participation barriers low it helps newcomers and casual users, not just anonymity seekers
- Anticipate value in marginalized potential members
- · Look for opportunities to innovate around privacy and access

- Take stock of identifiability. [use the Marx model this will be today's activity]
- Path-trace workflows and interactions

How would someone who needs anonymity join and use this service?

Re-imagine the anonymous 'other'.

- Seek out the perspective of people in vulnerable and stigmatized groups
- Keep participation barriers low it helps newcomers and casual users, not just anonymity seekers
- Anticipate value in marginalized potential members
- Look for opportunities to innovate around privacy and access
- Collect data and do research about the impacts of policy changes around identity

Any Questions? Let's do our hands on activity!

Your task:

1. Form a group with your neighbors (3-ish)

- information about an individual (name, ancestry, DNA, fingerprint)
- shared traits they may typify (gender, age, occupation)
- geographic location, 'reachability' (residence, e-mail address)
- temporal (when they did what activity)
- networks and relationships
- objects (that they own)
- behavioral (patterns of communication, purchases, work, norm compliance)
- · beliefs, attitudes, emotions
- measurement characterizations (SAT scores, credit rating, opinions of others, HIV status)

Your task:

- 1. Form a group with your neighbors (3-ish)
- 2. Choose a setting you know (GitHub, Reddit, LinkedIn)

- information about an individual (name, ancestry, DNA, fingerprint)
- shared traits they may typify (gender, age, occupation)
- geographic location, 'reachability' (residence, e-mail address)
- temporal (when they did what activity)
- networks and relationships
- · objects (that they own)
- behavioral (patterns of communication, purchases, work, norm compliance)
- · beliefs, attitudes, emotions
- measurement characterizations (SAT scores, credit rating, opinions of others, HIV status)

Your task:

- 1. Form a group with your neighbors (3-ish)
- 2. Choose a setting you know (GitHub, Reddit, LinkedIn)
- 3. Highlight identifiability facets.

- information about an individual (name, ancestry, DNA, fingerprint)
- shared traits they may typify (gender, age, occupation)
- geographic location, 'reachability' (residence, e-mail address)
- temporal (when they did what activity)
- networks and relationships
- · objects (that they own)
- behavioral (patterns of communication, purchases, work, norm compliance)
- · beliefs, attitudes, emotions
- measurement characterizations (SAT scores, credit rating, opinions of others, HIV status)

Your task:

- 1. Form a group with your neighbors (3-ish)
- 2. Choose a setting you know (GitHub, Reddit, LinkedIn)
- 3. Highlight identifiability facets.
- 4. Suggest one facet for change (add, subtract, modify)

- information about an individual (name, ancestry, DNA, fingerprint)
- shared traits they may typify (gender, age, occupation)
- geographic location, 'reachability' (residence, e-mail address)
- temporal (when they did what activity)
- networks and relationships
- · objects (that they own)
- behavioral (patterns of communication, purchases, work, norm compliance)
- beliefs, attitudes, emotions
- measurement characterizations (SAT scores, credit rating, opinions of others, HIV status)

Your task:

- 1. Form a group with your neighbors (3-ish)
- 2. Choose a setting you know (GitHub, Reddit, LinkedIn)
- 3. Highlight identifiability facets.
- 4. Suggest one facet for change (add, subtract, modify)
- 5. Risks and benefits of proposed change? To platform? To user? How could this be measured?

- information about an individual (name, ancestry, DNA, fingerprint)
- shared traits they may typify (gender, age, occupation)
- geographic location, 'reachability' (residence, e-mail address)
- temporal (when they did what activity)
- networks and relationships
- · objects (that they own)
- behavioral (patterns of communication, purchases, work, norm compliance)
- beliefs, attitudes, emotions
- measurement characterizations (SAT scores, credit rating, opinions of others, HIV status)

Let's Connect!



Interested in privacy and anonymity? Let's talk!

kaylea@uw.edu
@social.coop/@kaylea
kayleachampion.com

This work was supported by the National Science Foundation (awards CNS-1703736 and CNS-1703049).

Strategies for remaining open to anonymity seekers

 Incorporate anonymity-seekers into the operational model (Reddit, Signal, VPNs, NextCloud)

C Tran, K Champion, BM Hill, R Greenstadt. The risks, benefits, and consequences of pre-publication moderation: Evidence from 17 Wikipedia language editions in *Proceedings of the ACM on Computer Supported Cooperative Work and Social Computing* (CSCW 2022). Preprint: https://arxiv.org/abs/2202.05548

Strategies for remaining open to anonymity seekers

- 1. Incorporate anonymity-seekers into the operational model (Reddit, Signal, VPNs, NextCloud)
- 2. Pre-publication moderation

C Tran, K Champion, BM Hill, R Greenstadt. The risks, benefits, and consequences of pre-publication moderation: Evidence from 17 Wikipedia language editions in *Proceedings of the ACM on Computer Supported Cooperative Work and Social Computing* (CSCW 2022). Preprint: https://arxiv.org/abs/2202.05548

Strategies for remaining open to anonymity seekers

- Incorporate anonymity-seekers into the operational model (Reddit, Signal, VPNs, NextCloud)
- 2. Pre-publication moderation
- 3. Make pseudonyms less "cheap"

C Tran, K Champion, BM Hill, R Greenstadt. The risks, benefits, and consequences of pre-publication moderation: Evidence from 17 Wikipedia language editions in *Proceedings of the ACM on Computer Supported Cooperative Work and Social Computing* (CSCW 2022). Preprint: https://arxiv.org/abs/2202.05548

Use a threat model for analyzing contributions

