

Code4Lib
San Jose, California

Sarah Rice rice@seneb.com

Bern Irizarry bern@vlvt.com



Sarah Rice

- 23 years as a freelance information architect
- Library and Information Science background
- Clients include Google, PayPal, Microsoft, eBay, etc.
- Work activities include: human-centered design research, user experience design, service design, taxonomy/metadata/system implementation



Bern Irizarry

- Founder and principal of design consultancy, Velvet Hammer Design
- Over 20 years developing product and services for Fortune 500 and startups
- Clients include Sony Pictures, Ace Hardware, and Children's Hospital Los Angeles
- Specialties: brand architecture, UX, change management, service design
- AIGA Los Angeles Executive, Ladies that UX Los Angeles Co-Founder

We Need to Design & Build Ethically

Peter Morville

The Ethics of Information Architecture (2000)
As information architects, we are shaping the collaborative work spaces and social environments of tomorrow. Are we willing to take responsibility for the shapes we shape?

Vladimir Zwass

Ethical Issues in Information Systems (2010)

[W]e should use ethical principles and codes of ethics to avoid and prevent deleterious effects of technology.

B.J. Fogg

Keynote, IA Summit (2005)

Whether we like it or not, we are all in the business of influencing people's thoughts and behaviors...
The stakes are higher now than ever before.

Terence Fenn & Jason Hobbs

Wicked Ethics in Design (2015)
[I]s it possible that a design could be successful but not good?



Student college apps exposed via data breach

Accessible info included ethnicity, criminal status, test scores

> By JULIA INGRAM MANAGING EDITOR OF NEWS HANNAH KNOWLES SENIOR STAFF WRITER

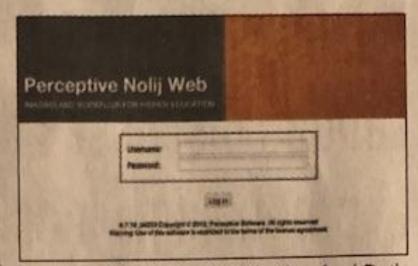
Before this week, Stanford students could view the Common Applications and high school transcripts of other students if they first requested to view their own admission documents under the Family Educational Rights and Privacy Act (FERPA).

Accessible documents contained sensitive personal information including, for some students, Social Security numbers. Other obtainable data included students' ethnicity, legacy status, home address, citizenship status, criminal status, standardized test scores, personal essays and whether they applied for financial aid. Official standardized test score reports were also accessible.

Students' documents were not searchable by name, but were instead made accessible by changing a numeric ID in a URL.

A Stanford student who recently submitted a FERPA request for their admissions documents discovered the vulnerability in a third-party content management system called NolijWeb that the University has used since 2009 to host scanned files. Since 2015, students who have submitted FERPA requests have been able to view files through NolijWeb.

Between Jan. 28 and 29, the student briefly accessed 81 students' records



JULIA INGRAM/The Stanford Daily A vulnerability in the third-party content management system, NolijWeb, that Stanford uses to store students' admissions files, allowed students to access the records of others.

student who disclosed the breach to The Daily was granted anonymity to protect them from potential legal repercussions for accessing private information while investigating the security flaw.

Stanford will notify the 93 students whose privacy was compromised because of this flaw.

"We regret this vulnerability in our system and apologize to those whose records were inappropriately viewed," Hayward wrote in an email to The Daily. "We have worked to remedy the situation as quickly as possible and will continue working to better protect our systems and data."

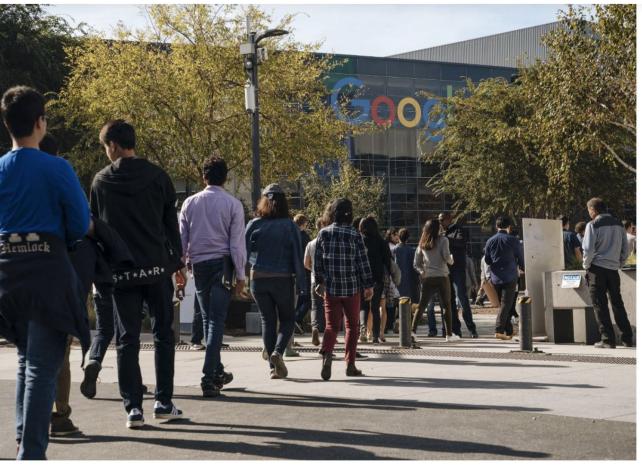
Stanford has also notified Nolij's parent company Hyland Software of the vulnerability. Hyland acquired Nolij in 2017 and announced on Dec. 31, 2017 that it would be discontinuing the NolijWeb product. While Stanford University Information Technology (UIT) intends to finish implementing a new platform to replace the NolijWeb sysMedium Technology Become a member Sign in

MEMBER FEATURE STORY

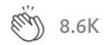
Google Workers Lost a Leader, But the Fight Will Continue

Liz Fong-Jones explains why she left, and the future of tech worker activism, in a new op-ed





Credit: Mason Trinca / Stringer/Getty Images









quit Google this January. It was a bittersweet moment—I joined 11 years ago as a college dropout and ultimately emerged as a prominent figure in the field of Site Reliability Engineering. My work had impact, I liked my team, and Google had given me so much over my career. But I couldn't continue working there.

I have grave concerns about how strategic decisions are made at Google today, and who is missing a seat at the bargaining table. Google bears the responsibility of being one of the most influential companies in the world, but it has misused its power to place profits above the well-being of people. Executives seem to have forgotten the ethos of the company's earliest employees—"don't be evil"—and ethical stances, such as pulling out of China over censorship concerns in 2010, have been supplanted by shadowy efforts to appease the country's government at the expense of human rights.

The approaches that I used during my time at Google to advocate for vulnerable people, including women, people of color, and LGBT+ people, have become less effective as leadership repeatedly stonewalls employees who privately raise concerns. Google will need to fundamentally change how it is run in order to win back the trust of workers and prevent a catastrophic loss of long-tenured employees, especially those from vulnerable groups.

first raised my voice on behalf of users in January 2010, less than two L years into my run at the company. I'd taken to heart the Google handbooks containing phrases such as "focus on the user, and all else will follow," and "don't be evil; if you see something that you think isn't right—speak up!"

I, along with many peers, predicted that without significant product changes,



We're Working on Tools for Ethical Design



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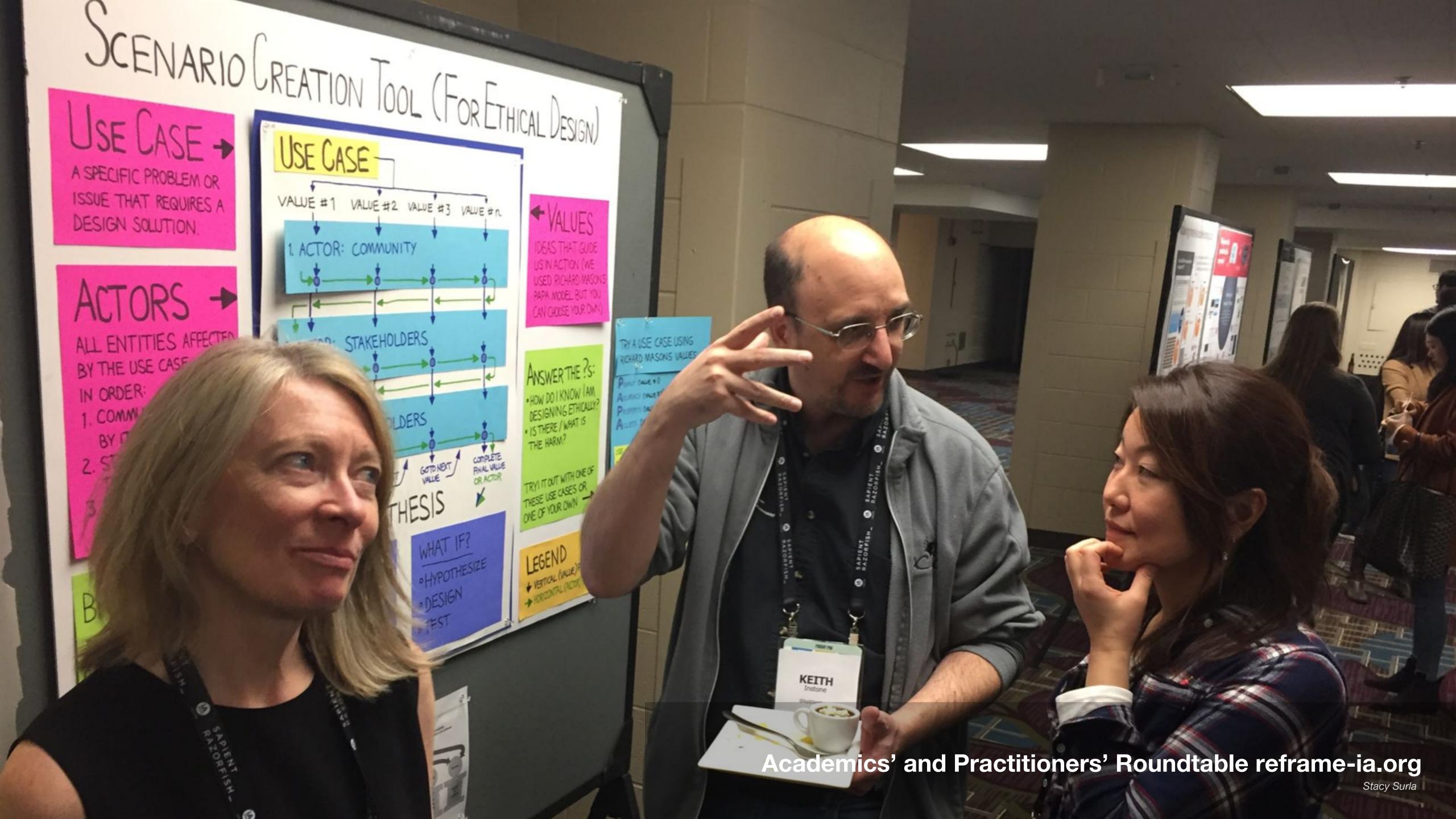
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The Ethics Canvas



Tech Connec	ETHICS CANVAS A DESIGN TOOL FOR INFORMATION PROFESSIONALS Title:		Cr	reated by Sarah Rice (rice@seneb.com) and B Based on the IA Ri	ern Irizarry (bern@vlvt.com) - http://www.iaroundtable.org/code4lib, undtable work of Stacy Suria, Jeff Pass, Arturo Perez, Jackie Wolfe	Creative Commons License http://creativecommons.org/licenses/by-sa/4.0 Creator: Date:
MOORITHM PILE SON TO THE FILES CANVAS	Is this an ethical dilemma? Circle "Yes" or "No" for each question. A "Yes" to any questions means continue to the next section.	Situation Summary Provide a brief overview, no more	han 2 or 3 sentences that o	outlines the ethical dilemma and pro	oject context.	Sythesize and Solution Synthesize the impacts across your impacted groups. What common themes do yo see? Look at your Impact map in Section 6.
The state of the s	Could you or someone suffer physical harm? Yes / No Could you or someone suffer emotional injury? Yes / No Could this damage your or your organization's reputation? Yes / No Could this damage your or your organization's relationships? Yes / No Could this hinder achievement of your personal or organizational goals? Yes / No					+ Benefits What are the positive impacts of this solution? • List the positive impacts you saw affecting your groups
the page 1 to the page of the	What Are Your Project/Initiative Goals? What must be achieved with your project? Are there underlying beliefs, rumors, past experiences for stakeholders that could impact your efforts or require change management mitigation?	Impacts What potential impacts might the product or system you are creating have on each individual VALUES & GUIDING PRINCIPLES Select your top values and principles from Section 4. These are lenses you will use to evalue how your program or product could impact individuals or groups.			What can be done to amplify these results?	
anguary anabacan to C.	Facts What do we know about the initiative/solution? What people appear to think/believe	or constituency. How does adhering to the value, mitigate or amplify that effect on people?	Value:	Value:	Value:	
What Are Your Project/Initiative Goals?	e.g. Solution needs to collect PII e.g. Needs to meet ADA requirements e.g. We are about to be regulated	IMPACTED INDIVIDUALS OR GRO Select the groups you want to foc		ection		Harms What are the negative impacts of this solution? List the negative impacts you saw affecting your groups
Facts Facts Perceptions Page 100 (000 (000 (000 (000 (000 (000 (000		Group 1:	Impact(s):	Impact(s):	Impact(s):	
The state of the control of the cont		- 8				What can be done to mitigate these results?
Company of Contract of State of the Contract of State of Contract of Contract of State of Contract of		Group 2:	Impact(s):	Impact(s):	Impact(s):	Need More Research What areas do you need to explore further?
And the state of t	Who is involved or can be impacted? List all the groups that can be impacted by your solution. Remember, go broad here. You can always reassess or group into categories later.(e.g. Comunity, Stakeholders, Shareholders, Departments)	*				List the areas you identified as needed to explore further to understand
A Secretary Programme Secretary Programme Secretary Secr		Group 3:	Impact(s):	Impact(s):	Impact(s):	What kind of experiments might you be ablet to in these areas?
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	bring to your work. (List 8-10)	Group 4:	Impact(s):	Impact(s):	Impact(s):	
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whout c	How do you address individuals' abnegati bias? What is the role of the information p issues like this? ¹

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Situation Summary



DRITHM BIAS

is tasked with working with a search algorithm team to better understand how up in its algorithms and to suggest ways it can improve and correct that bias. engineers rely heavily on what they consider to be objective measures and this means their work is neutral, and that some other cause is making the ılts appear biased.

address individuals' abnegation of responsibility for their contribution to is the role of the information professional in combating systemic information

B - PERSONAL DATA

A firm has a policy of allowing employees to use their computers, which were the property of the company, for personal purposes, including e-mail and web access. When a possible acquisition of the company by another one was announced, a rising employee unrest was suspected. The president of the company ordered the data department to monitor all the computer activities of the employees, including gathering and organizing the contents of their memos, e-mail messages, budgets in preparation, and so forth. Information professionals in the data department constructed a dashboard and report that detailed employees' activity both during work and during private use of their computers. The monitoring and reporting was done without employees' knowledge.

Was the action of the company management ethical or unethical in allowing personal use of company computers by employees? How about the president's monitoring decision?

Who is involved or can be impacted?

List all the groups that can be impacted by your solution. Remember, go broad here. You can always reassess or group into categories later.(e.g. Comunity, Stakeholders, Shareholders, Departments)

What values or frameworks exist?

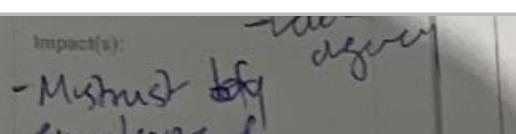
Identify what values and guiding principles govern your work. This can be informed by organizational values, industry ethics guidelines you adhere to or personal values you bring to your work. (List 8-10)

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Date:

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pact map in Section 6

What are the positiv

Impacts

What potential impacts might the product or system you are creating have on each individual or constituency. How does adhering to the value, mitigate or amplify that effect on people?

VALUES & GUIDING PRINCIPLES

Select your top values and principles from Section 4. These are lenses you will use to evalue how your program or product could impact individuals or groups.

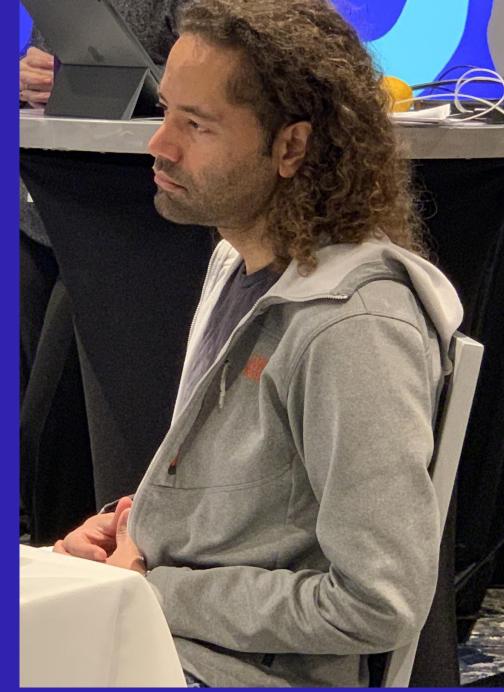
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IMPACTED INDIVIDUALS OR GROUPS

Select the groups you want to focus on from the Impacted section.

Group 1:	Impact(s):	Impact(s):	Impact(s):
Group 2:	Impact(s):	Impact(s):	Impact(s):
Group 3:	Impact(s):	Impact(s):	Impact(s):
Group 4:	Impact(s):	Impact(s):	Impact(s):





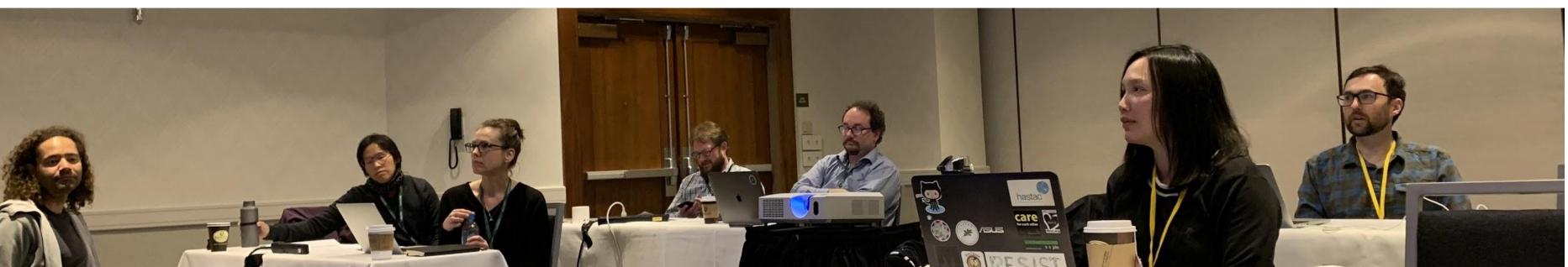


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MORKSHOP









Using the Ethics Canvas



OTHERUSES

Use on a current project, product or initiative

- During design/planning phase
- When a problem arises, to focus your efforts

Use with fictitious scenarios to

- have a conversation about ethics, but stay on neutral topics
- flesh out an ethical framework or principles that your organization can use

Questions



Diversity & Inclusion Roundtable

Information Architecture Conference Orlando, FL March 13-14, 2019 iaroundtable.org



RESOURCES

Ethics and Information Architecture

http://iaroundtable.org/2018.html

Information Architecture Conference

March 13 – 17, 2019 Orlando, FL http://www.theiaconference.com/ * Code4Lib Presentation & Ethics Canvas

http://www.iaroundtable.org/code4lib

REFERENCES

Four Ethical Issues of the Information Age, Richard Mason, http://moodle.ncku.edu.tw/pluginfile.php/848770/mod/resource/content/1/mason/PAPA.pdf

The Ethics and Politics of Information Architecture, Andrea Resmini, https://www.slideshare.net/resmini/the-ethics-and-politics-of-information-architecture

Ethical Issues in Information Systems, Vladimir Zwass, http://reframe-ia.org/EthicalIssuesinInformationSystems-Zwass.pdf

Scenario Creation Tool for Ethical Design, Surla, Pass, Wolfe, Perez https://www.slideshare.net/stacysurla/ethics-and-ia-a-scenario-creation-tool-for-ethical-design

Thanks!

Sarah Rice rice@seneb.com

Bern Irizarry bern@vlvt.com