

Design for Diversity

Design for Diversity: Towards More Inclusive Technical Systems

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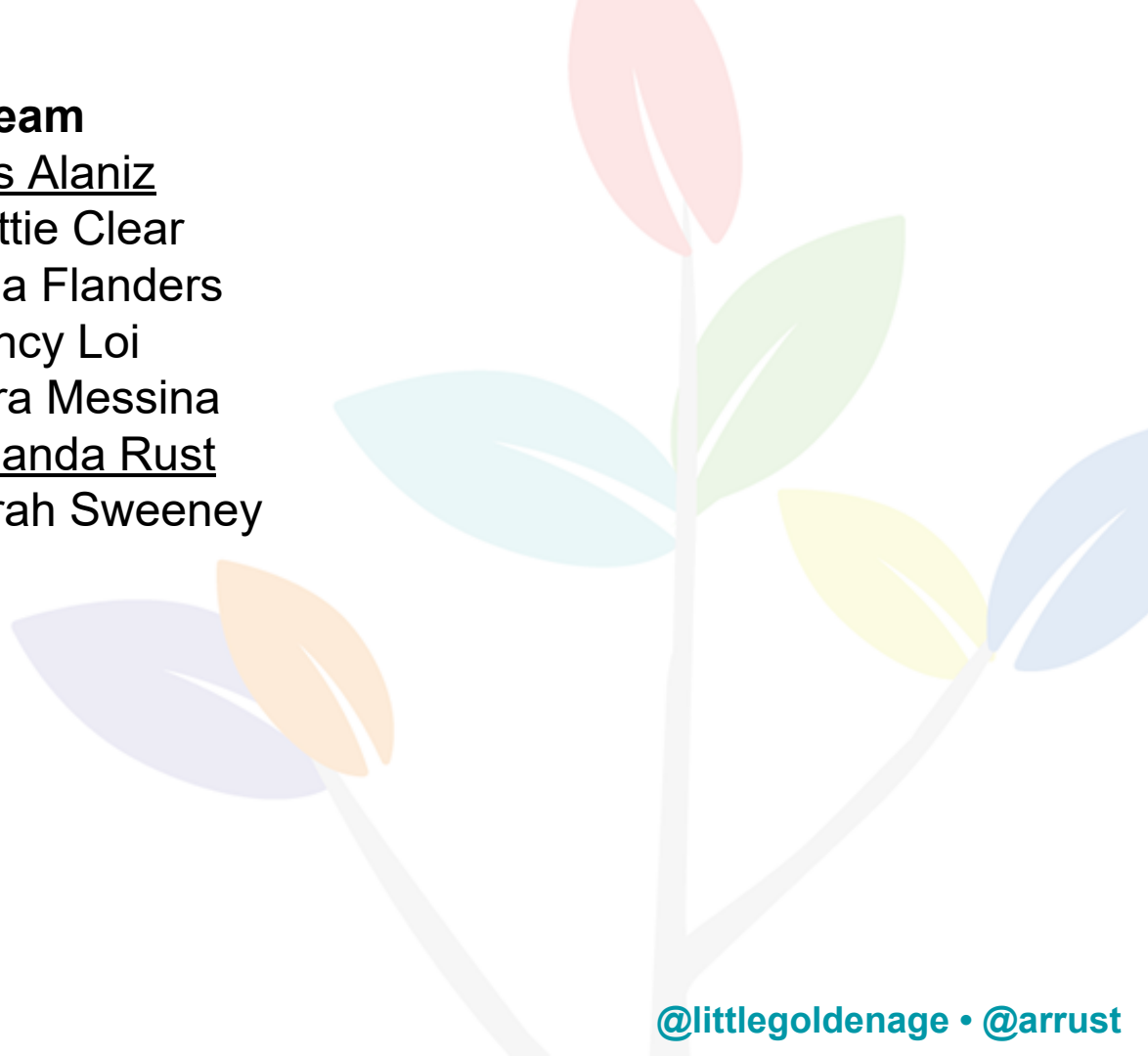
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Design for Diversity



Focuses on the ways in which information systems embody and reinforce cultural norms.

Asks how we might design systems that account for diverse cultural materials and ways of knowing.

Part one

How *does* the design of information systems impact issues of diversity and inclusion?

Prior work

<https://dsg.neu.edu/d4dzotero>

Prior work

Doris Hargrett Clack



User interface
Data structures and models, vocabularies
Software applications/algorithms
Network
Communication and interaction protocols
Operating systems
Programming languages, character encoding
Hardware and chip design

User interface

Data structures and models, vocabularies

Software applications/algorithms

Network

Communication and interaction protocols

Operating systems

Programming languages, character encoding

Hardware and chip design

User interface

Bardzell, S. (2010). Feminist HCI: taking stock and outlining an agenda for design. In CHI '10 Proceedings of the SIGCHI Conference on Human Factors in Computing Systems (pp. 1301–1310). Atlanta, GA.

Data structures and models, vocabularies

Software applications/algorithms

Network

Communication and interaction protocols

Operating systems...

User interface

Data structures and models, vocabularies

Billey, A., Drabinski, E., & Roberto, K. R. (2014). "What's Gender Got to Do with It? A Critique of RDA 9.7." *Cataloging & Classification Quarterly*, 52(4), 412–421.

Cherry, Alissa, and Keshav Mukunda. "A Case Study in Indigenous Classification: Revisiting and Reviving the Brian Deer Scheme." *Cataloging & Classification Quarterly*, vol. 53, no. 5–6, July 2015, pp. 548–67

Swanson, Raegan. "Adapting the Brian Deer Classification System for Aanischaaukamikw Cree Cultural Institute." *Cataloging & Classification Quarterly*, vol. 53, no. 5–6, July 2015, pp. 568–79.

Software applications/algorithms...

User interface

Data structures and models, vocabularies

Software applications/algorithms

Noble, Safiya Umoja. 2012. "Missed Connections: What Search Engines Say About Women." Bitch Magazine, 2012.

Sweeney, Latanya. "Discrimination in Online Ad Delivery." Communications of the ACM, vol. 56, no. 5, 2013, pp. 44–54.

Network

Communication and interaction protocols...



User interface
Data structures and models, vocabularies
Software applications/algorithms
Network
Maron, Deborah, Cliff Missen, and Jane Greenberg. 2014. "Lo-Fi to Hi-Fi": A New Metadata Approach in the Third World with the EGranary Digital Library." <i>International Conference on Dublin Core and Metadata Applications</i> , October, 37–42.
Communication and interaction protocols
Operating systems...

User interface

Data structures and models, vocabularies

Software applications/algorithms

Network

Communication and interaction protocols

Christen, Kimberly. 2015. "Tribal Archives, Traditional Knowledge, and Local Contexts: Why the 's' Matters." *Journal of Western Archives* 6 (1)

Operating systems

Programming languages, character encoding...

Data structures and models, vocabularies

Software applications/algorithms

Network

Communication and interaction protocols

Operating systems

Barnett, Fiona, Zach Blas, Micha Cárdenas, Jacob Gaboury, Jessica Marie Johnson, and Margaret Rhee. 2016. "QueerOS: A User's Manual." In *Debates in the Digital Humanities*, edited by Matthew K Gold and Lauren F Klein. Minneapolis, MN: University of Minnesota Press.

Programming languages, character encoding...

Data structures and models, vocabularies

Software applications/algorithms

Network

Communication and interaction protocols

Operating systems

Programming languages, character encoding

Posner, Miriam. 2018. "See No Evil." *Logic Magazine*, August 7, 2018.

Hardware and chip design

Prior work

<https://dsg.neu.edu/d4dzotero>

Themes

- Forget the stack
- Who is centered, who is unmarked?
- Data is the “new oil”
- Ethic of pace
- Build flexible, networked projects (*Emergent Strategies*, adrienne maree brown)
- Ask more from commercial systems

A stylized illustration of a plant with a grey stem and several branches. The leaves are in various colors: light blue, green, yellow, and purple. There are also some reddish-pink buds or flowers at the top of the branches.

Redefine “efficient” and “optimized”

Part two

Explore and workshop the Toolkit

<https://des4div.library.northeastern.edu>

Toolkit structure

A stylized illustration of a plant with a light grey stem and several branches. The leaves are in various colors: light green, light blue, light yellow, light orange, and light purple. The plant is positioned on the right side of the slide, partially overlapping the text.

In Pairs

- Describe a scenario where you want to provide education or advocacy around inclusive information systems.
- Look for 1-2 items in the toolkit (orientations, case studies, study paths, readings, etc.) that you might use.
 - Did you find anything?
 - What would make the Toolkit more usable for your scenario?

As a Table

- Share your scenarios
- Determine, as a group:
 - What was most useful about the site?
 - What was confusing or needs more explanation?
 - What more is needed to support your goals?

Part three

Create a plan for advocacy
within your organization

Write and share

- Inventory your own organization's digital projects and systems (either home-grown or vendor) -- where might issues of inclusion come into play?
 - The stack model may be helpful
- Using the Toolkit Orientation for Organizational Change, we'll start with activities Three and Four.

Questions?

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Thanks!

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