Architecture is politics: The power and the perils of systems design

Andreas Orphanides NCSU Libraries

Design ethics: a thing

Andreas Orphanides NCSU Libraries

Three lessons / uncomfortable truths

Lesson 1

Lesson 1

System design influences user behavior.

Yeah, and?

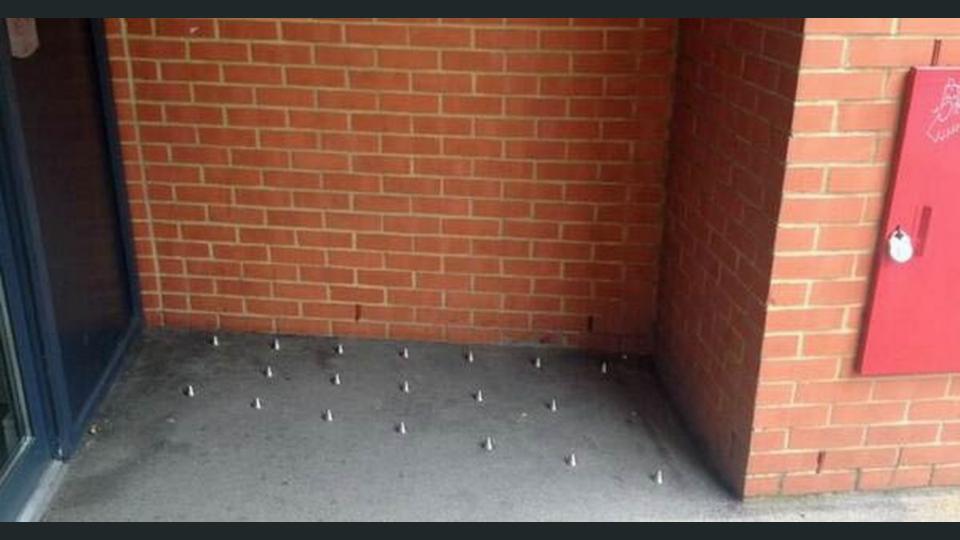
Yeah, and?

A door that never opens is called a wall.

Persuasive design

"disciplinary architecture"





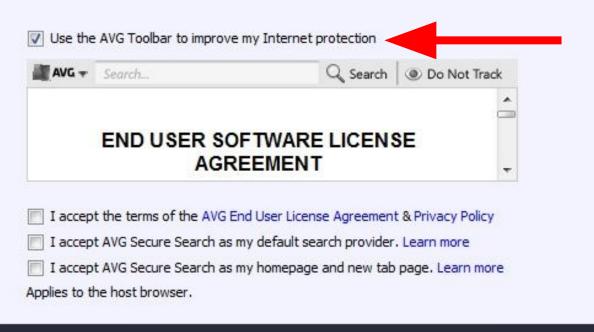
"dark patterns"







Install AVG Toolbar



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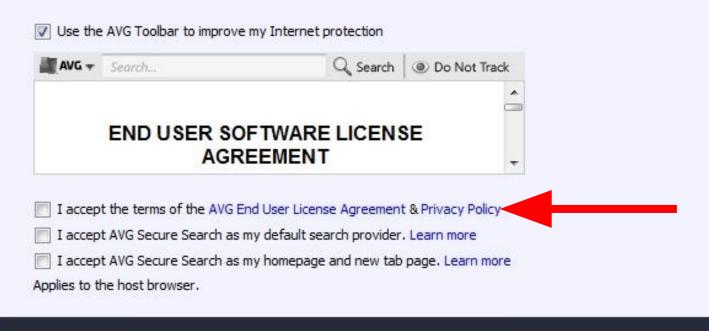




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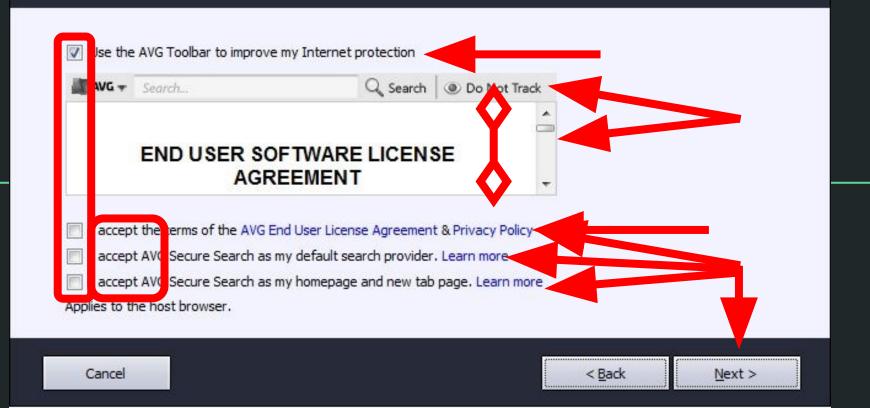


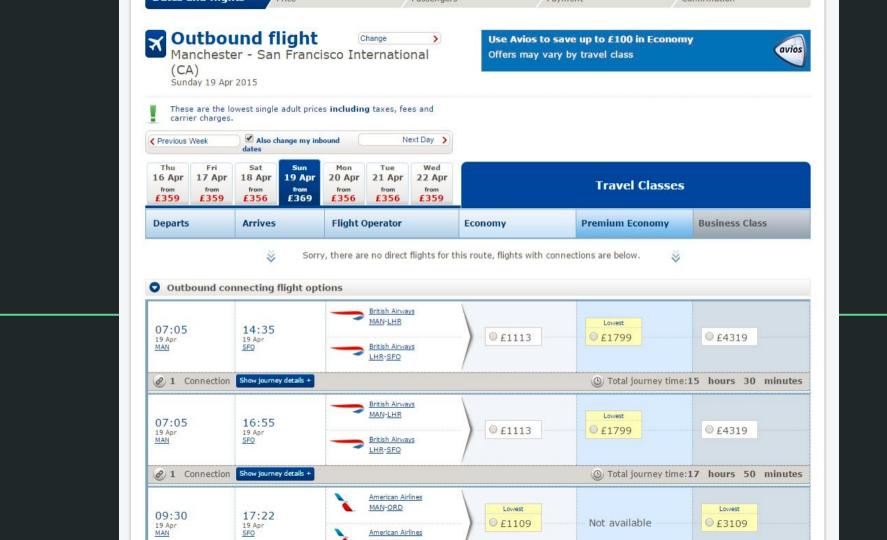






Install AVG Toolbar









"Lowest": £1799



£1113 "Lowest": £1799

We can use our powers for good.

Interlock

Can you set things up so one action can't be performed until another is completed?

Most modern cash machines don't dispense cash until you remove your card, making it less likely you'll leave it behind





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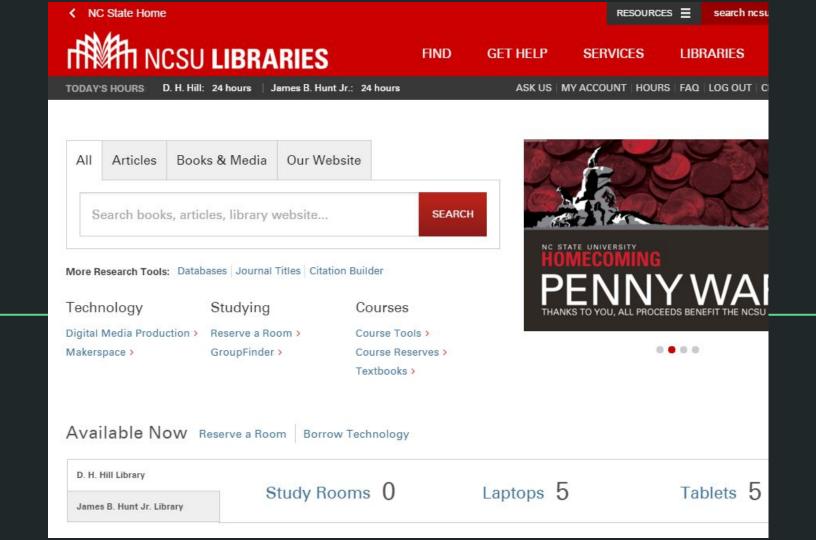
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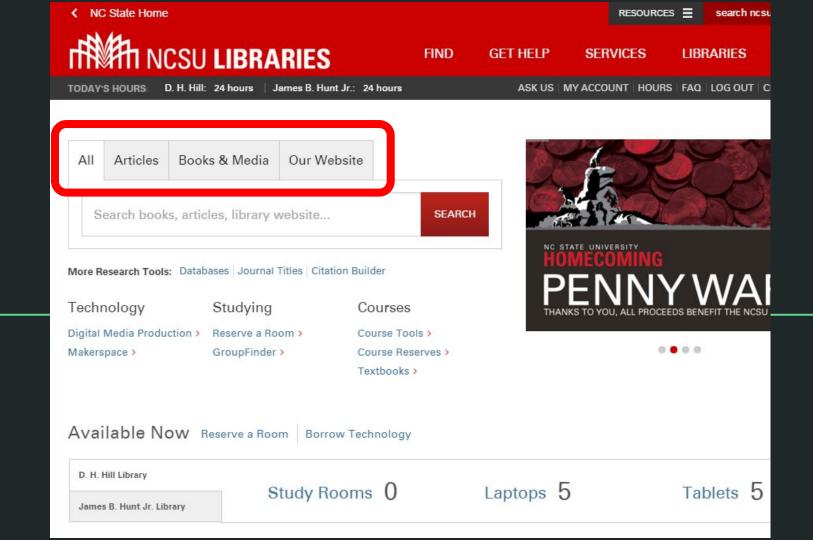
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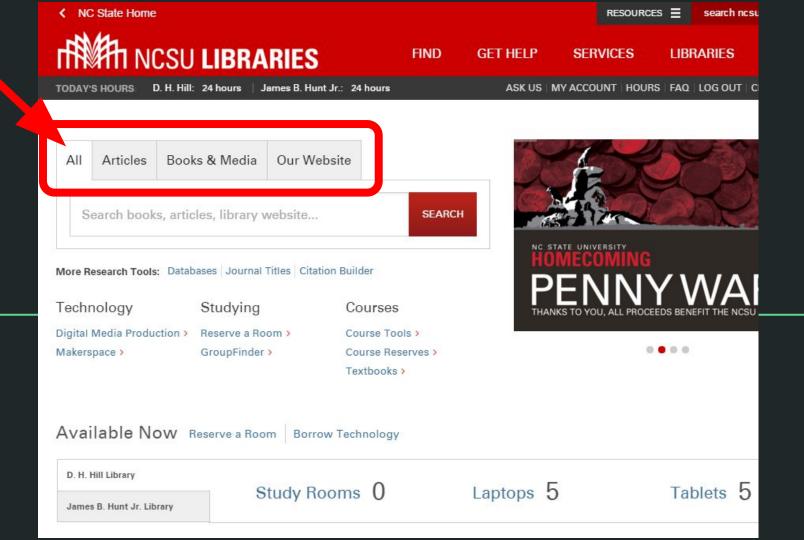
Help ❷ English ▼

chat now!









Uncomfortable truth 1

System design influences user behavior.

(whether you want it to or not)



Products

Natural **Baby Care**

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EXPLORE



What's inside?

Explore the role of natural ingredients in our products.

Our standard

From ingredients to packaging, our Stewardship Model guides every decision we make.

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Community



Meet our 2015 50 States For **Good Program** recipients.

\$1.000.000 and who nominated them.

MEET THE WINNERS »

Helping Kids

Download our coloring book and we'll donate toothpaste.

Start now »

Giving back

10% of our profits are









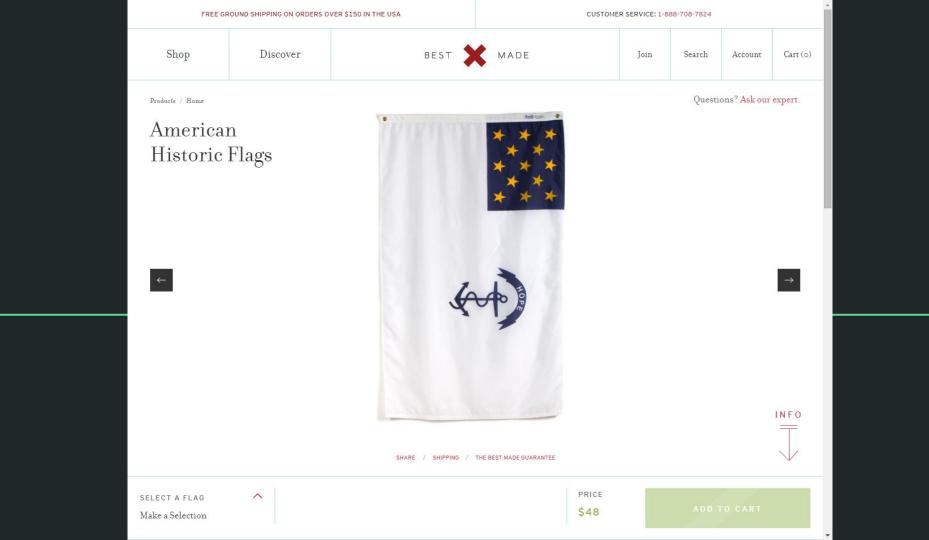


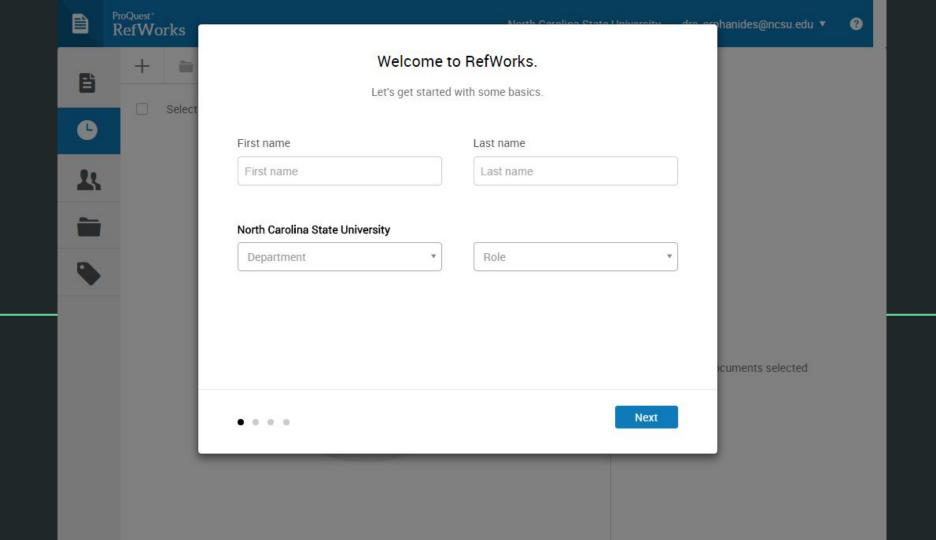










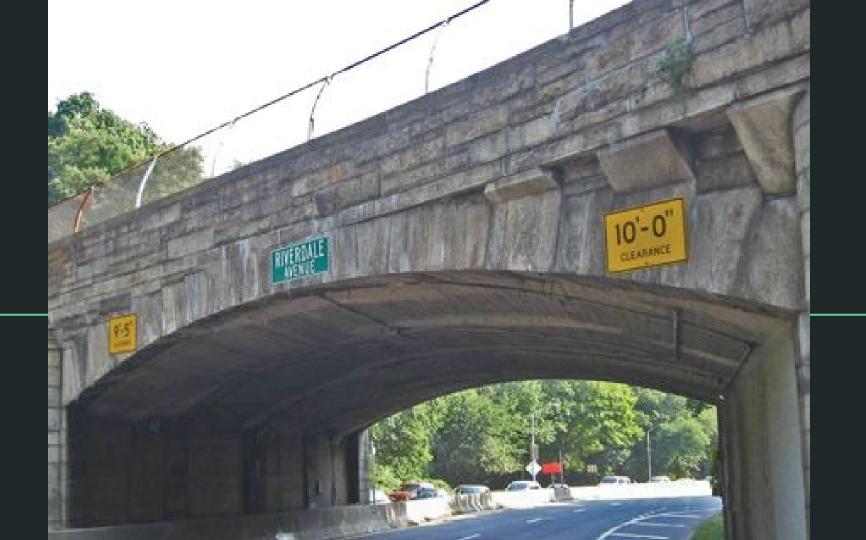


Ethical principles for persuasive design

- Implement constraints and affordances to the user's benefit.
- Design affordances the user will recognize.
- Disguise constraints with care.

Lesson 2

System design reflects the designer's values and the cultural context.



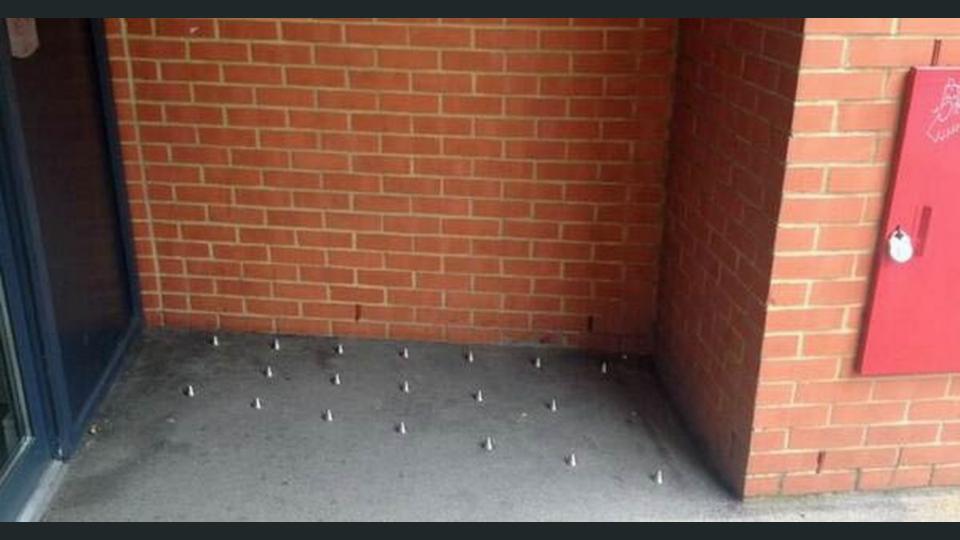
Architecture is politics: Your design choices reflect your values.

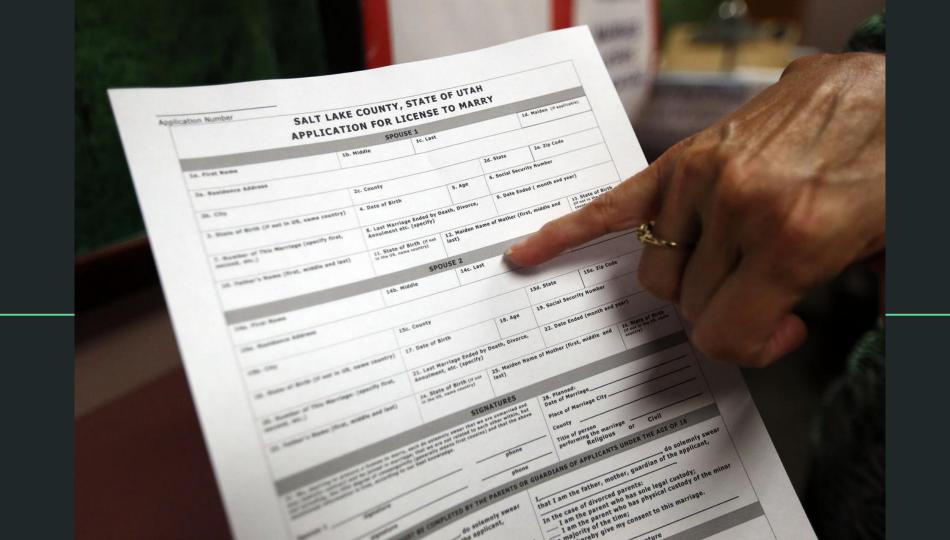
Upper West Side condo has separate entrances for rich and poor

By KATE BRIQUELET

Last Updated: 12:20 PM, August 18, 2013



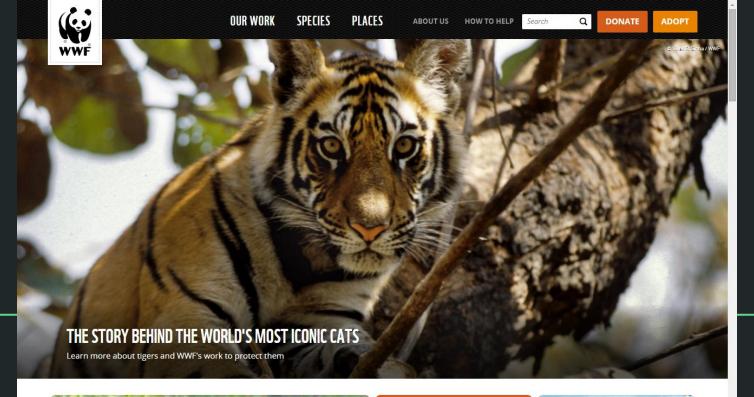








Your design choices reflect your values.



After the hottest









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First-ever twins born to habituated gorilla family in the Central African Republic



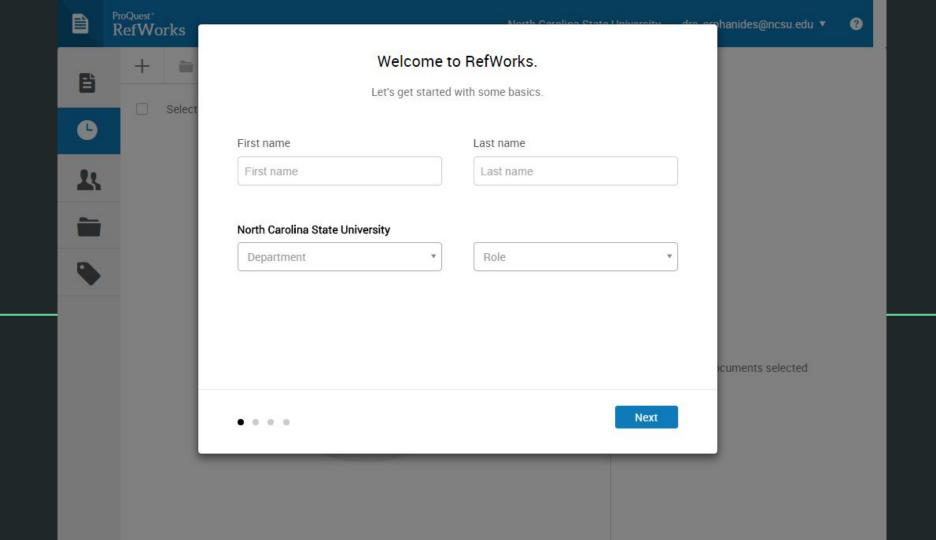


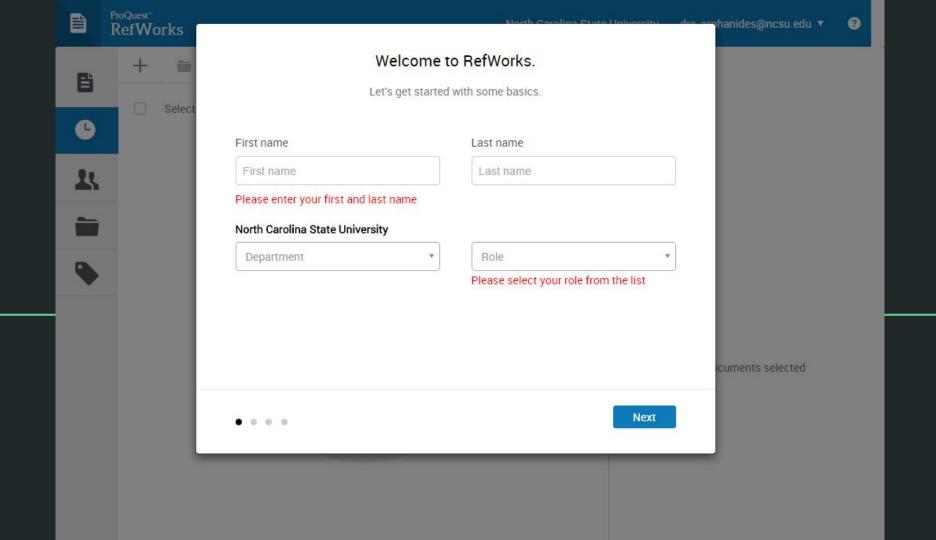
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First-ever twins born to habituated gorilla family in the Central African Republic



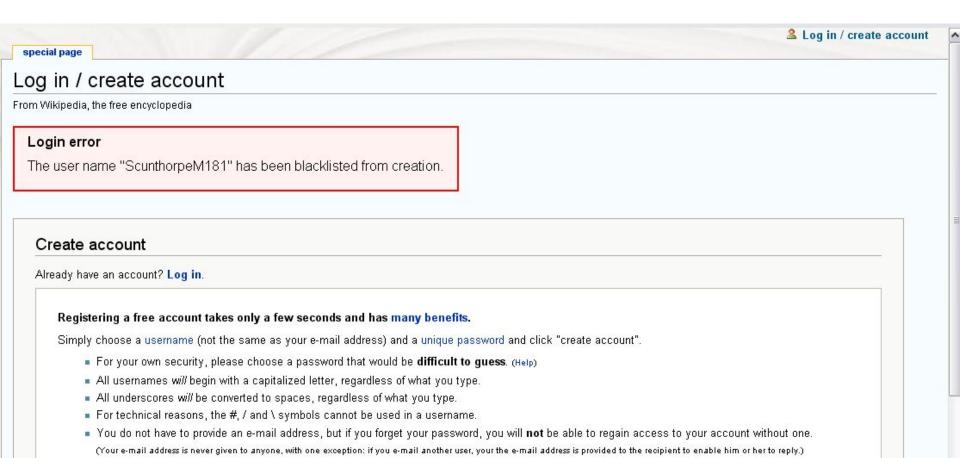


Politics is architecture:

Context exerts influence on design.



"The Scunthorpe Problem"





System design reflects the designer's values and the cultural context.

(whether you want it to or not)

Ethical principles for political design

- Seek out and recognize your biases.
- Diversify your design practices.
- Understand your culture and its mores.

Lesson 3

to review...

System design influences user behavior.

(whether you want it to or not)

System design reflects the designer's values and the cultural context.

(whether you want it to or not)

Lesson 3

The system's interests will come into conflict with the user's interests.

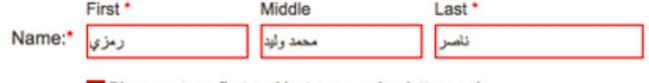
80/20 rule

	Megabytes to load advertising content Megabytes to load editorial content 15.4 megabytes 4.0					
boston.com					Boston.com's mobile website ads averaged 30 seconds to	
# LAZE	6.0	2.5 2.2				load on a typical 4G connection, mostly because of large video ads. That's the equivalent of 32 cents of cell data in ads every time the home page is loaded.
THE DAILY BEAST	5.6					
☑ INDEPENDENT	5.5					
Chicago Tribune	4.7	1.7	1.7			
examiner.com	4.5	1.0				
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Los Angeles Times	3.9	1.9				
Mirror	3.6	3.2				
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*Atlantic	2.9	1.6				
atta NRC NEWS	2.8	16				

Who's Traveling?

Required information

Important: Traveler names must match your government-issued photo ID exactly.



Please enter a first and last name using letters only.

Country Code* Preferred Phone Number*

Phone Number:* United States of America (1) \$

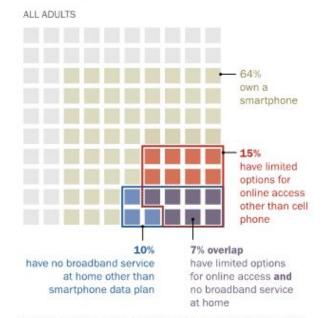
TSA Secure Flight Info

What's this?

7% of Americans Rely Heavily on a Smartphone for Online Access

The "Smartphone-Dependent"
Population: 7% of Americans Rely
Heavily on a Smartphone for Online
Access

% of U.S. adults who have a smartphone, but lack other broadband internet service at home, and/or have limited options for going online other than their cell phone



The system's interests will come into conflict with the user's interests.

(whether you want them to or not)

Ethical principles for compassionate design

- Recognize and acknowledge your compromises.
- Know your users.
- Design with empathy.



Thanks!

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Sources

Lesson 1 images

- Angry wall: Nils Norman via <u>Slate</u>
- Anti-homeless spikes: GetWestLondon
- AVG: Dark Patterns
- BA: Dark Patterns
- "Interlock": Dan Lockton
- Shark teeth road: hawaiihighways.com
- Summon spinner: Serials Solutions
- NCSU Libraries: North Carolina State University
- Flat website: <u>Tom's of Maine</u> (h/t <u>Hoa Loranger</u>)
- Flag for sale: <u>Best Made Co.</u>
- Refworks: <u>ProQuest</u>

Lesson 2 images

- Overpass: <u>NYSDOT</u>
- Rich door, poor door: New York Post
- Marriage certificate: KSL Broadcasting
- Lame wheelchair ramp: <u>Southeastern Ornamental Iron</u>
- Cool wheelchair ramp: <u>Think Inclusive</u>
- WWF website: World Wildlife Fund

- Fence: author
- Scunthorpe problem: Wikimedia
- Metro: WMATA

Lesson 3 images

- Advertising chart: New York Times
- "Who's traveling?": Greg Tarnoff
- Mobile internet chart: Pew Research
- Chucklings and mother: author

References and inspiration

- Dark Patterns
- John Gall, <u>The systems bible</u>
- Mitch Kapor, <u>Architecture is politics (and politics is architecture)</u>
- Dan Lockton, <u>Design with intent toolkit</u>
- Hoa Loranger, <u>Beyond blue links: making clickable</u> elements recognizable
- Greg Tarnoff, <u>Designing with empathy</u>
- Langdon Winner, <u>Do artifacts have politics?</u>