

Materials available here:

<https://tinyurl.com/MaptimeAMS-19>



A practical introduction to *feminist* cartographies

Meghan Kelly | @meghankellymaps

Agenda

First... what is *feminism*?

First... what is *feminism*?

(thoughts from the crowd)

What are feminist cartographies in
theory and what does feminist mapping
look like in **practice**?

What are feminist cartographies in
theory and what does feminist mapping
look like in **practice**?

Critical Cartography / GIS

Feminist Geographies

Feminist Cartography / GIS

Queer GIS

Data Feminism

Feminist Data Visualization

Influences

Critical Cartography / GIS

Feminist Geographies

Feminist Cartography / GIS

Queer GIS

Data Feminism

Feminist Data Visualization

Influences

Catherine D'Ignazio and Lauren Klein (2016)

Feminist Data Visualization

The (often) visual expression of spatial information that intentionally and explicitly addresses questions of **power, inequality, representation, and ethics.**

Feminist Cartographies in *Theory*

The (often) visual expression of spatial information that intentional and explicitly addresses questions of power, inequality, representation, and ethics.

A map may be feminist in **content, form, and/or process**.

Feminist Cartographies in *Theory*

feminist ^{inclusive cart.} cartographies —

[the (often) visual ^{map definition needed?} expression of spatial info. that] intentionally + explicitly addresses questions of scale, embodiment, power, inequality, representation, and/or ethics. ^{← what is missing?} _{etc.}

A map may be feminist in content, form, or process. <sub>↓
outcome/impact</sub>

Examples/themes

Cartographies

Rethinking binaries
Embracing pluralism
Examine power and aspire to empower
Consider context and subjectivity
Representing Uncertainty
Legitimize embodiment and affect
Make labor visible

Feminist Data Viz Principles (D'Ignazio and Klein 2016)

Rethinking binaries

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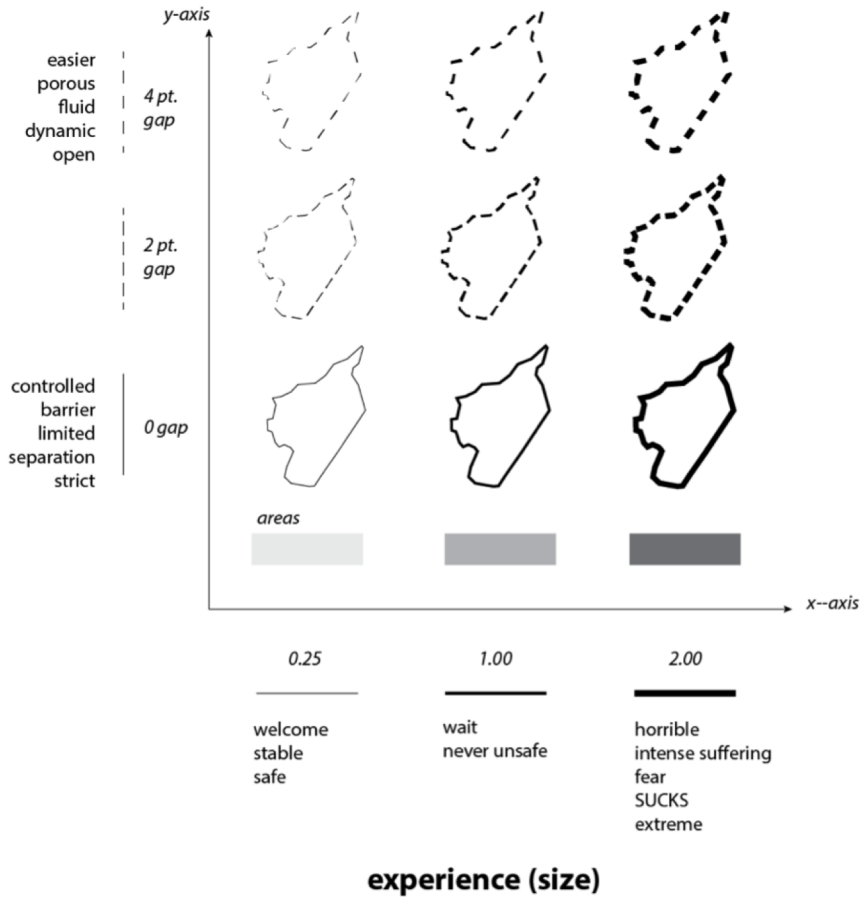
Feminist Data Viz Principles (D'Ignazio and Klein 2016)



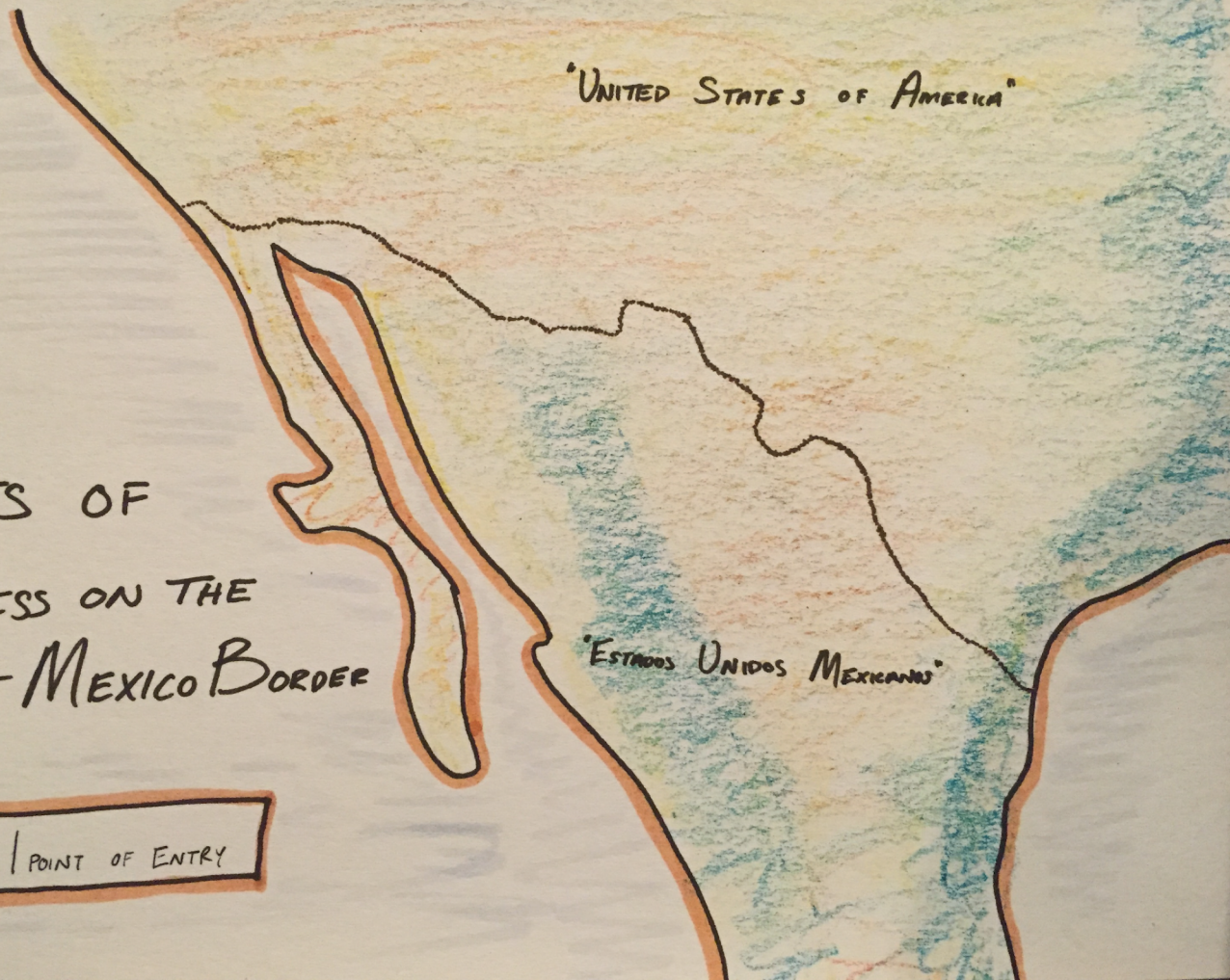
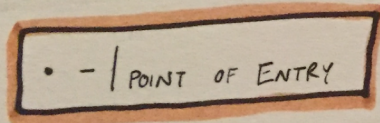
toilet

Rethinking Binaries

porosity (arrangement)



POINTS OF
ACCESS ON THE
US - MEXICO BORDER

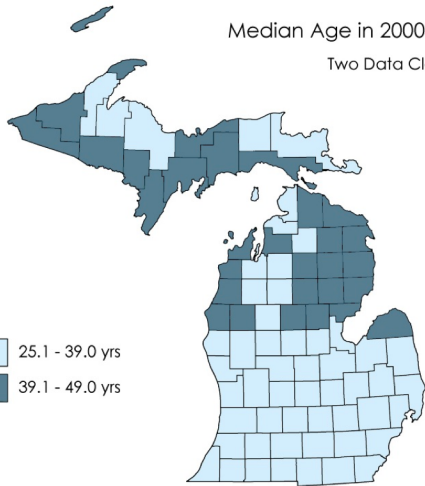


"UNITED STATES OF AMERICA"

"ESTADOS UNIDOS MEXICANOS"

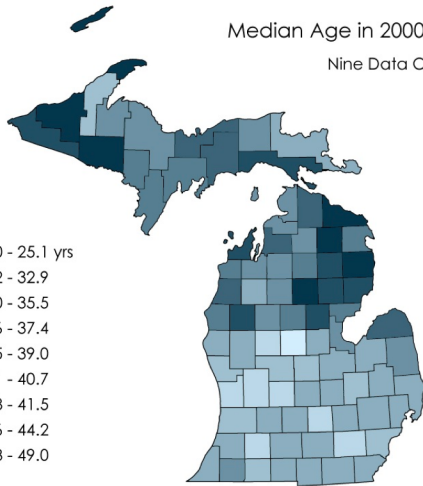
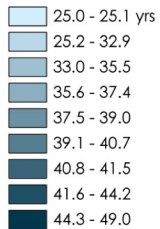
Median Age in 2000 in Michigan

Two Data Classes



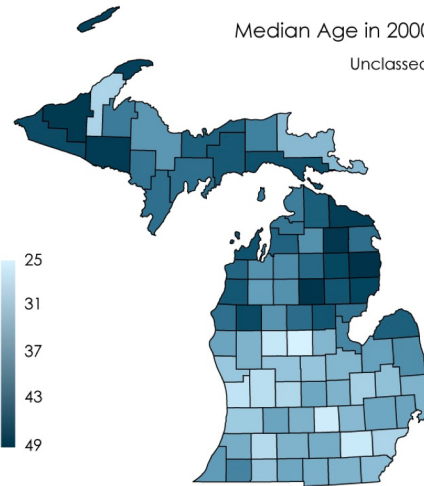
Median Age in 2000 in Michigan

Nine Data Classes



Median Age in 2000 in Michigan

Unclassed



Rethinking binaries

Embracing pluralism

Examine power and aspire to empower

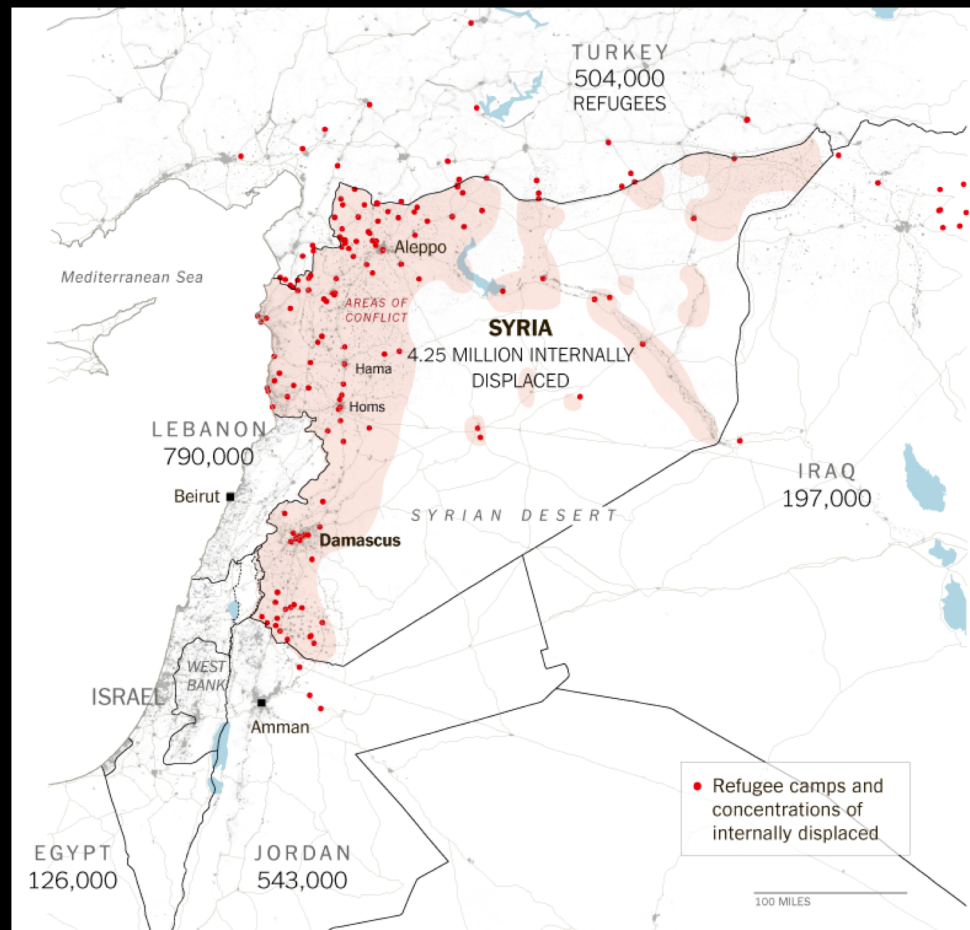
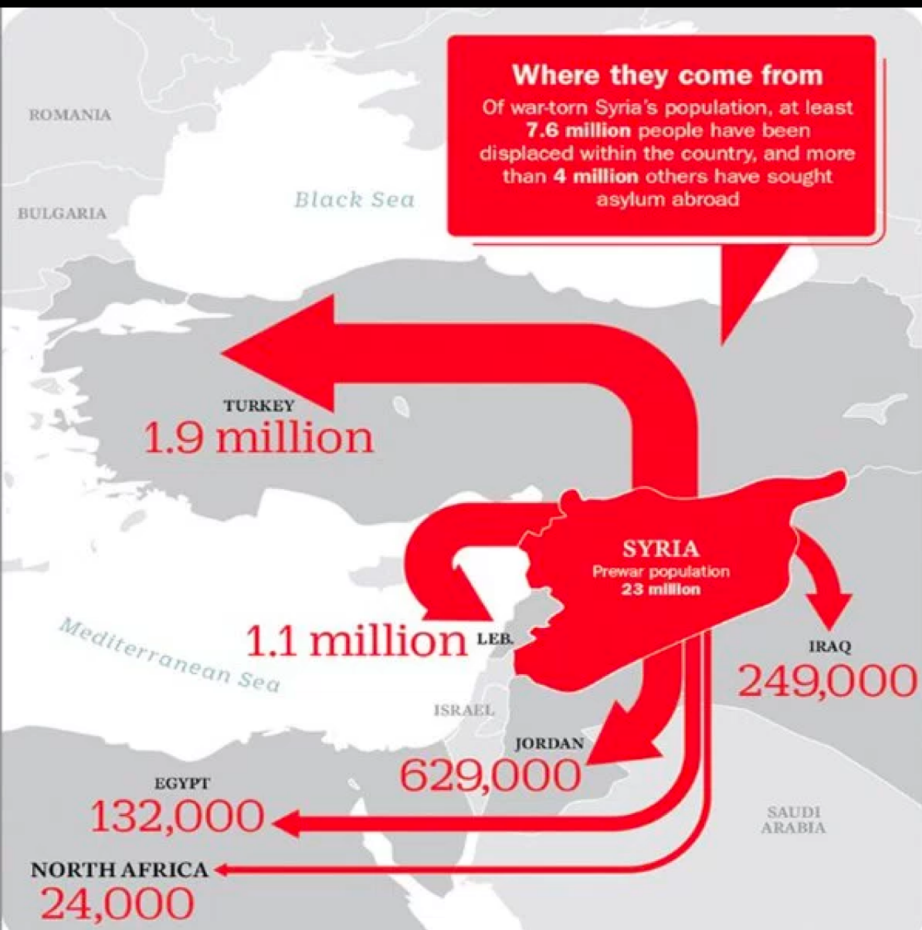
Consider context and subjectivity

Representing Uncertainty

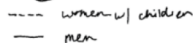
Legitimize embodiment and affect

Make labor visible

Feminist Data Viz Principles (D'Ignazio and Klein 2016)



Meghan Kelly





Wisconsin

As seen by the many who live there

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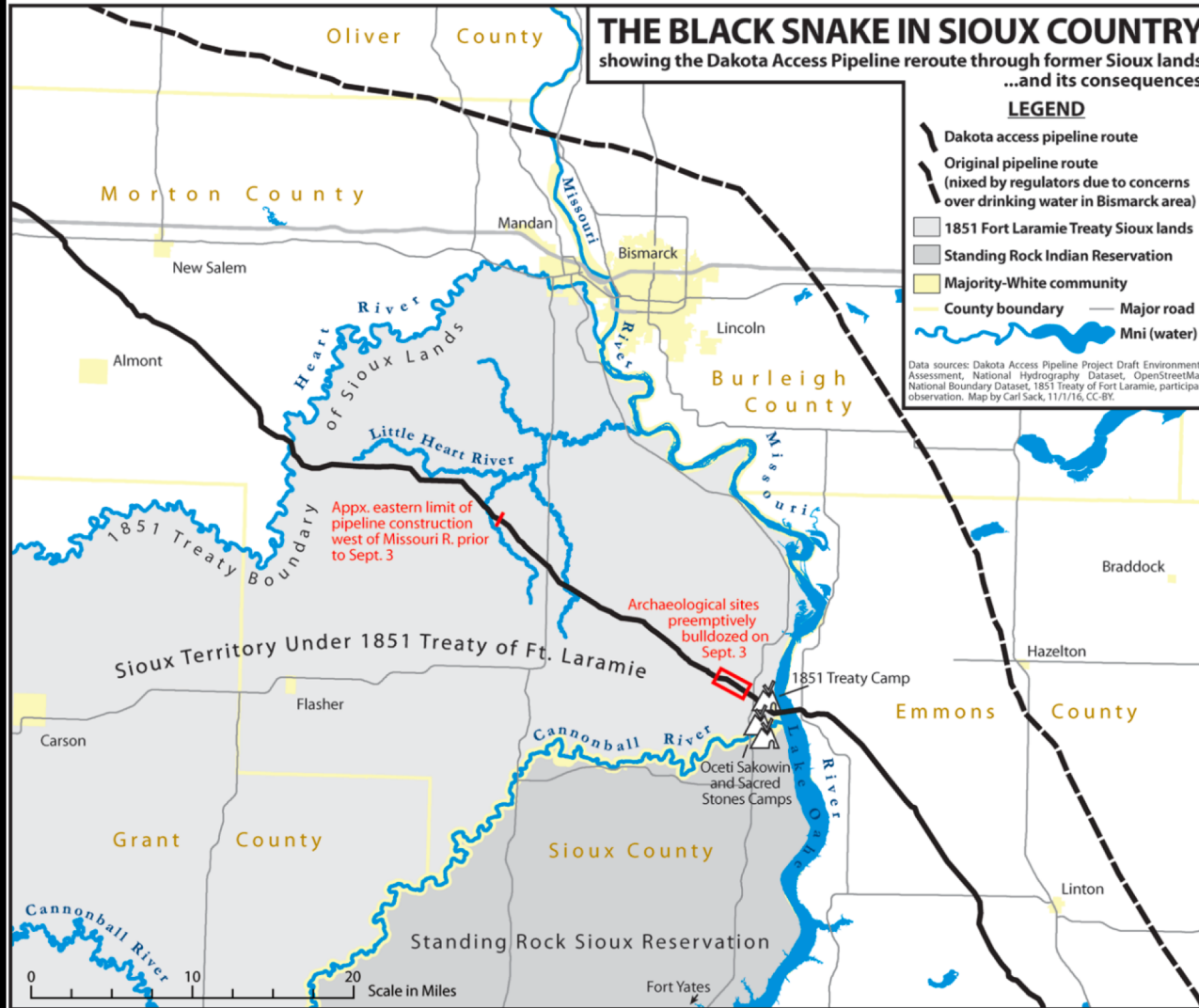
THE BLACK SNAKE IN SIOUX COUNTRY

showing the Dakota Access Pipeline reroute through former Sioux lands
...and its consequences

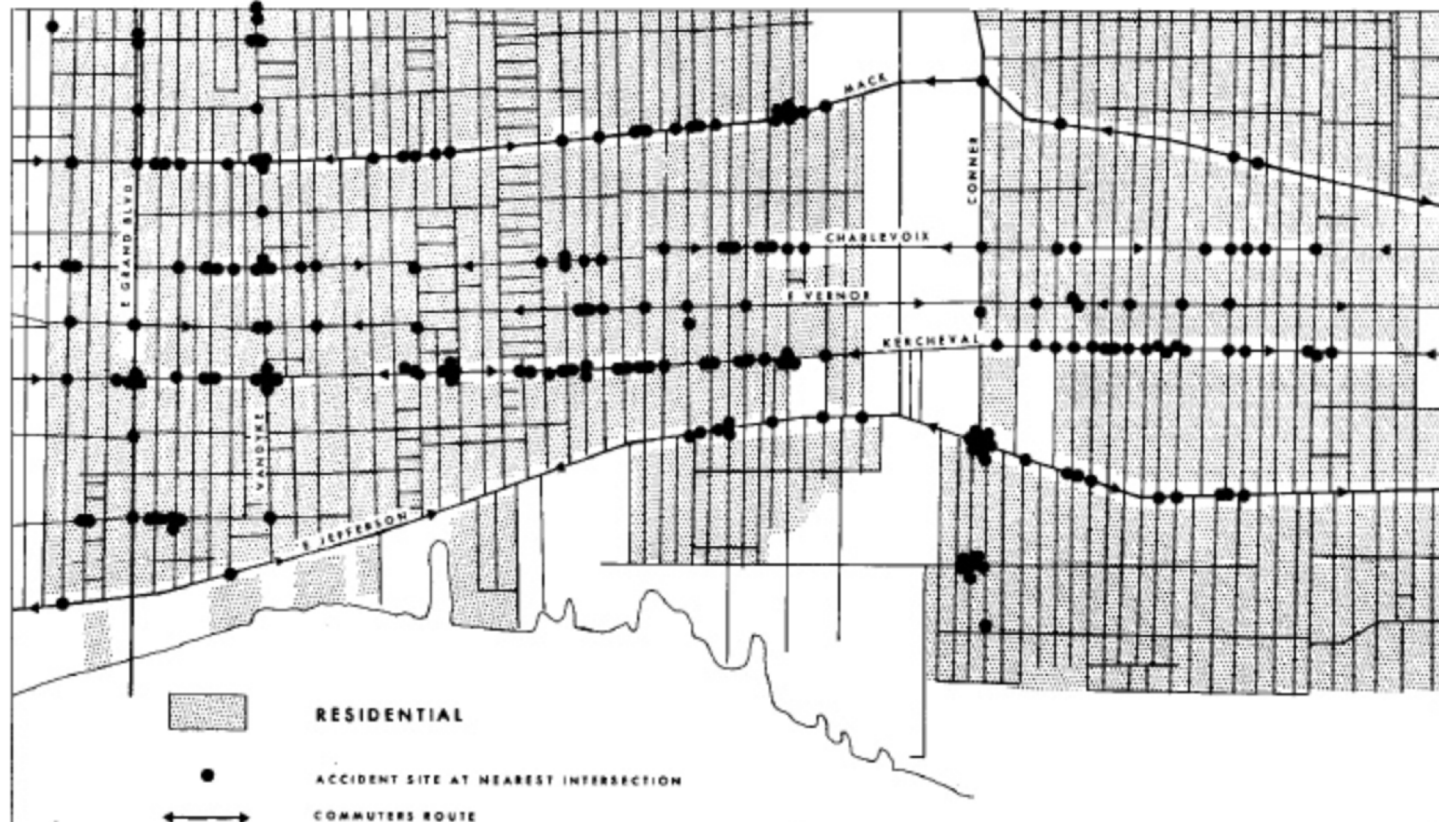
LEGEND

- Dakota access pipeline route
- Original pipeline route
(nixed by regulators due to concerns
over drinking water in Bismarck area)
- 1851 Fort Laramie Treaty Sioux lands
- Standing Rock Indian Reservation
- Majority-White community
- County boundary
- Major road
- Mni (water)

Data sources: Dakota Access Pipeline Project Draft Environmental Assessment, National Hydrography Dataset, OpenStreetMap, National Boundary Dataset, 1851 Treaty of Fort Laramie, participant observation. Map by Carl Sack, 11/1/16, CC-BY.



TO DOWNTOWN



WHERE COMMUTERS RUN OVER BLACK
CHILDREN ON THE POINTES-DOWNTOWN TRACK

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2017 DESIGN CHALLENGE

hosted by the UW-Madison Cartography Lab

March 4, 2017 • 9am–8pm • UW-Madison Cartography Lab

MEANINGFUL WORK FOR YOUR CITY

Maps are powerful and persuasive visuals for tackling local needs. The 2017 Design Challenge will focus on mapping and community needs in Madison!

Participants will create a comprehensive plan for Madison focused on community services (where are the services and who





Lake Monona

Bridge Lake Point Waunona
Neighborhood Center

Owl Creek
Neighborhood

BLW Neighborhood Center pays to transport youth from the Owl Creek Neighborhood to the center for youth programming. The Owl Creek neighborhood is far outside of BLW's service area; the 4 mile drive takes 10 minutes each way. The city provides no additional funding for this service, but BLW continues to serve Owl Creek's children who do not have a neighborhood center near their homes.

Lake Waubesa

Our Needed Community Center

Bridge Lake Point Neighborhood Center offers a range of successful child and adult programs. We are in desperate need of more space! All of our programs have waiting list of at least 5 people. We also need more public space amenities for our neighbors in Bridge Lake Point and Waunona. Many of our city's neighborhood centers have the following amenities, which are currently missing from our neighborhood:

- cafés
- sitting and reading spaces with wifi
- computer lab
- fitness center
- basketball gyms and rec centers
- art and cooking classes
- gallery space and theater
- community kitchen and event space



Rethinking binaries

Embracing pluralism

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Consider context and subjectivity

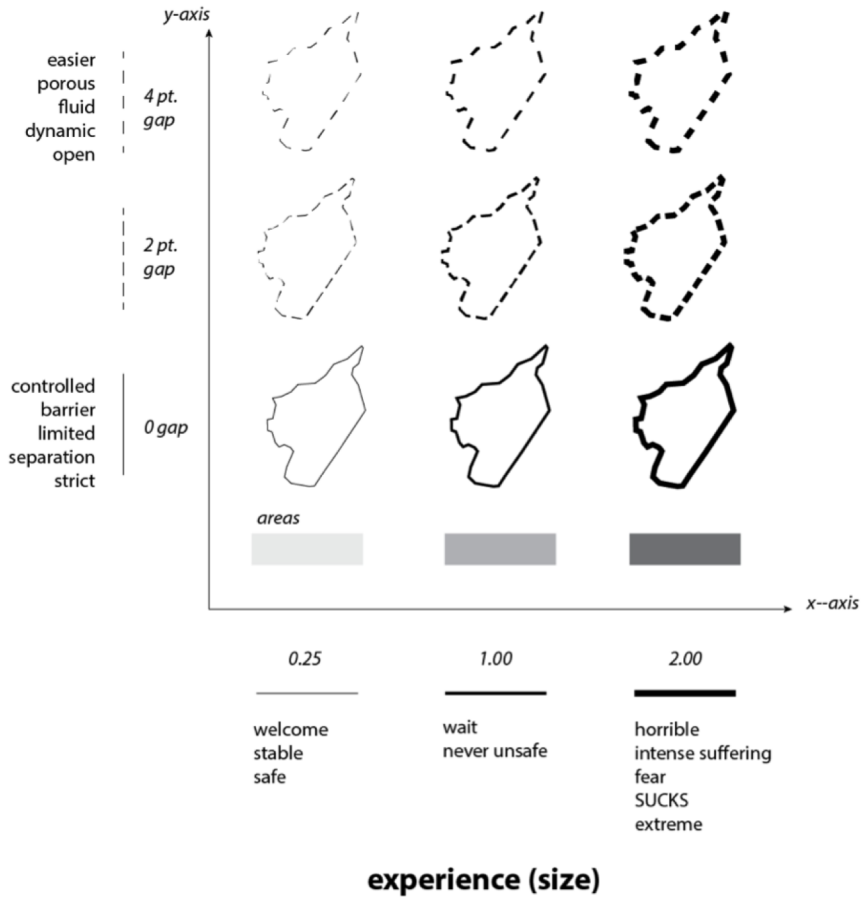
Representing Uncertainty

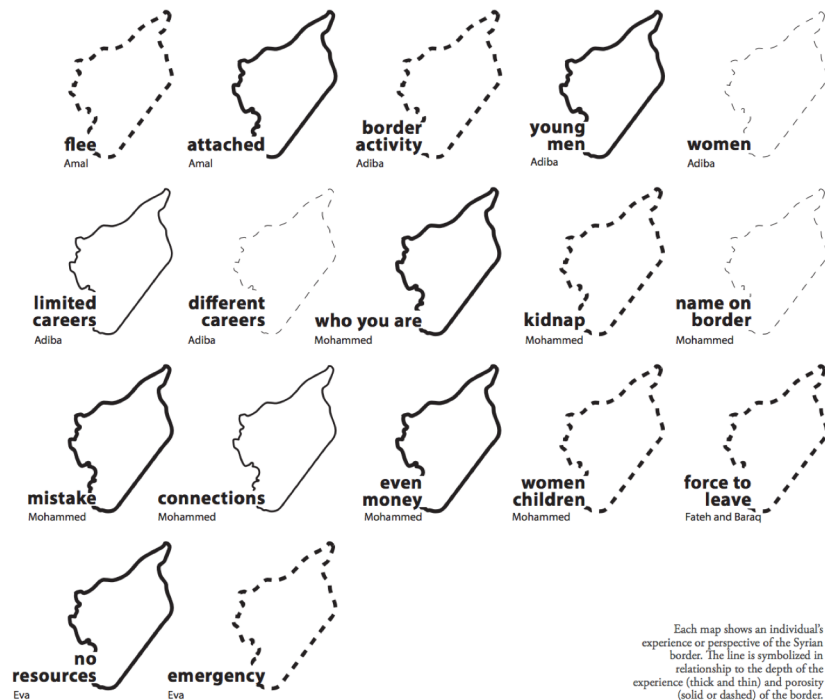
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Feminist Data Viz Principles (D'Ignazio and Klein 2016)

porosity (arrangement)





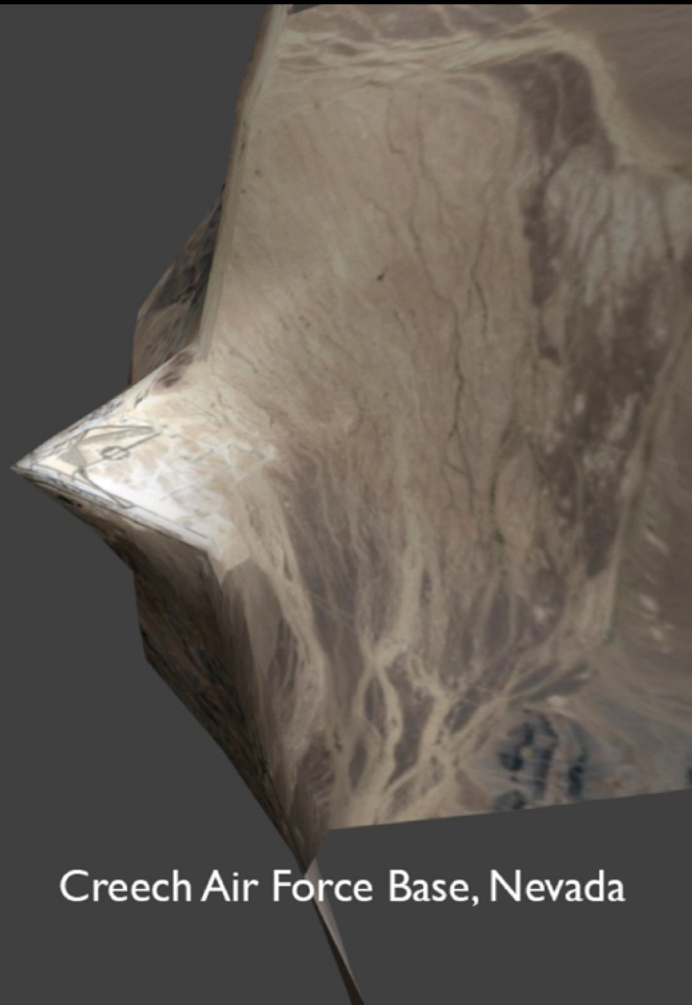
The Places We've BEEN!

Pop & Pop
& Me





Wana, Waziristan, Pakistan



Creech Air Force Base, Nevada

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What's in the path of Hurricane Irma

The storm is big, fast and speeding through the Caribbean toward Florida

By **Bonnie Berkowitz**, **Laris Karklis**, **Reuben Fischer-Baum**, **John Mayskens**, **Gabriel Florit** and **Denise Lu**

Updated Sept. 7 3:15 p.m.



Model simulations of Irma's path

ECMWF forecasts at 8 p.m. Sept. 6



Wind speeds

0 mph

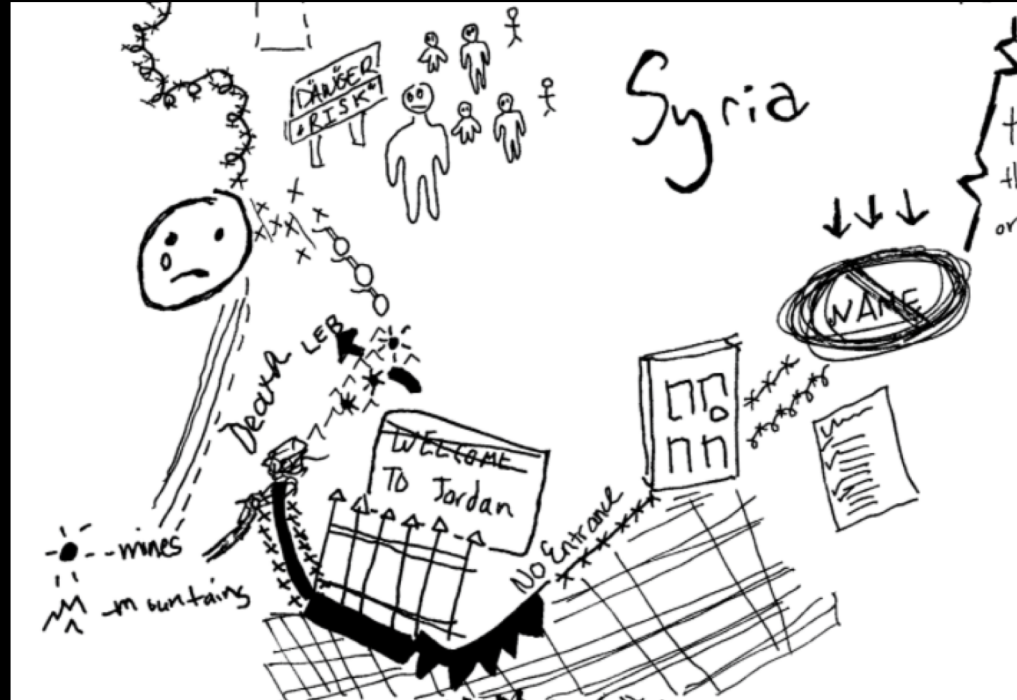


128 mph

• Projected location of storm center

Collectively Mapping Borders

Meghan Kelly





**I was physically
hurt in one
incidence**

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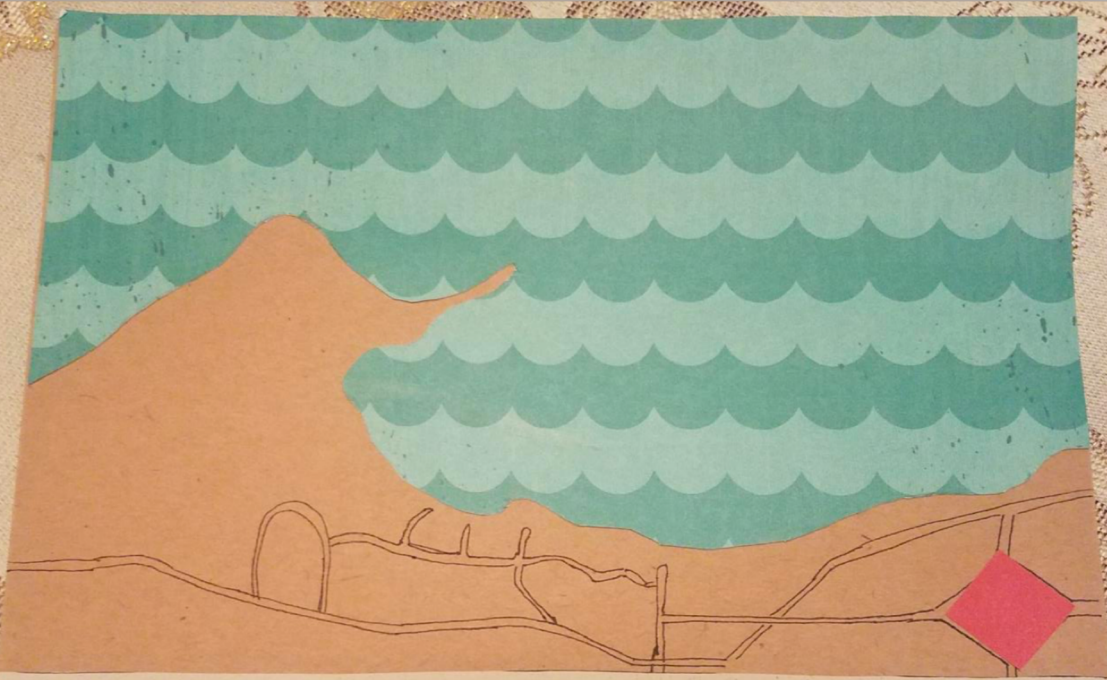
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Feminist Data Viz Principles (D'Ignazio and Klein 2016)



- Body + Embodiment -

Body: one biological object, binaries

Embodiment: lived experience of human beings

Embodiment

Emotion map of Madison

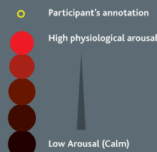
2
Miles



- In a rush/low awareness
- Socializing/low awareness
- Solitary/high awareness
- Comfort/normal awareness
- Learning/high awareness

Lake Mendota



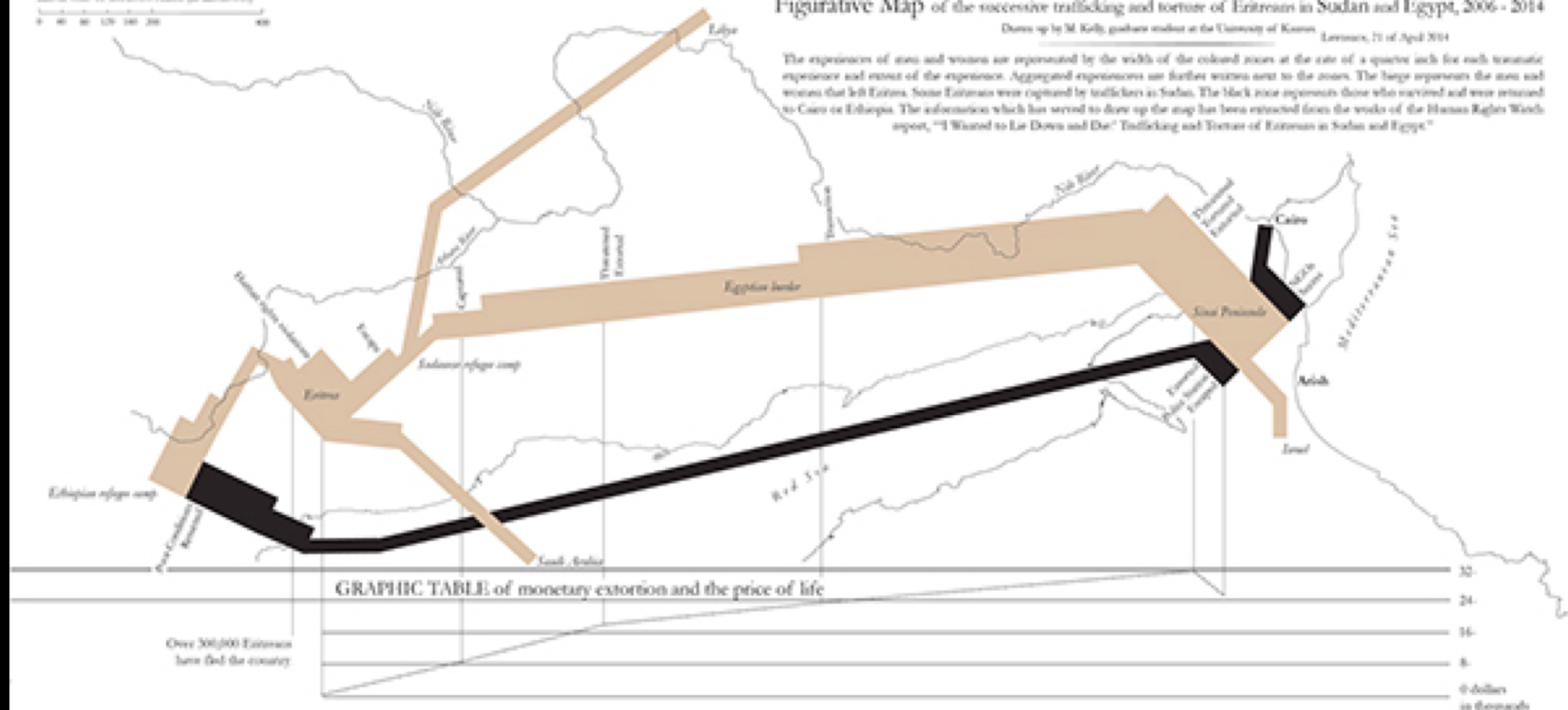


Linear scale of northeast Africa (in kilometers)
 0 40 80 120 160 200

Figurative Map of the successive trafficking and torture of Eritreans in Sudan and Egypt, 2006 - 2014

Drawn up by M. Kelly, graduate student at the University of Kansas, Lawrence, 11 of April 2014

The experiences of men and women are represented by the width of the colored zones at the rate of a square inch for each traumatic experience and extent of the experience. Aggregated experiences are further written next to the zones. The large represents the men and women that left Eritrea. Some Eritreans were captured by traffickers in Sudan. The black zone represents those who survived and were returned to Cairo or Ethiopia. The information which has served to draw up the map has been extracted from the works of the Human Rights Watch report, "I Wanted to Lie Down and Die" Trafficking and Torture of Eritreans in Sudan and Egypt."



"And I thought I was going to die..."

A Survivor's Map

An Eritrean man was kidnapped by traffickers outside of Sudan's Shagbela refugee camp in March 2012. These traffickers handed him over to Egyptian traffickers in southern Egypt, who held him in Nasa with 24 other men and eight women for six weeks.

This map follows the survivor's route through an interview with Human Rights Watch as he traveled from south to north in 2012. At the time, he was 23 years old. In the map, the spectrum of the survivor's experiences is portrayed by giving each day its own palette, guided by his words. The distance of each day's frame represents the unknown and simultaneously reflects continued movement in the journey. The size of each frame is proportional to the amount of money involved. The world outside his experience is mapped here as assumed and inaccessible.

Each experience recounted is a landscape of vegetation, mood, and story. Each experience is a map different from that which came before and that which will follow, yet connected to all other experiences to form the broader map of the survivor's story.

- City
- Refugee Camp
- State
- Country
- Phone call

Shagbela

Human Rights Watch Report



Shagbela refugee camp, Sudan, March 2012



Nasa, Egypt, June 2012



The first group of Eritreans, identified as a group of men, were held together in a room in a small building in Sudan.



The second group of Eritreans, identified as a group of men, were held together in a room in a small building in Sudan.



The third group of Eritreans, identified as a group of men, were held together in a room in a small building in Sudan.

They lived in a small room, shared meals, and were not allowed to leave the room.

They lived in a small room, shared meals, and were not allowed to leave the room.

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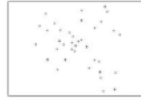
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AA_Polling_Locations

Shapefile



Tags

Voting, Vote, Polling Location, Precincts, Ward, Election

Summary

To make a complete dataset of all polling places in the City.

Description

Point feature class containing polling places for the City of Ann Arbor. Includes the polling place address, building name, the precinct that votes there, and its X & Y coordinates (in international feet based on the feature class' spatial reference)

Credits

Scott Harrod

Use limitations

The City of Ann Arbor shall not be held liable for improper or incorrect use of this data. This data and related graphics are not legal documents and are not intended to be used as such. The information contained in this data is dynamic and may change over time. The data is not better than the original sources from which it was derived. It is the responsibility of the data user to use the data appropriately and within the limitations of geospatial data in general. The City of Ann Arbor gives no warranty, expressed or implied, as to the accuracy, reliability, or completeness of this data. It is strongly recommended that this data be directly acquired from the City of Ann Arbor, and not indirectly through other sources which may have changed the data in some way. This disclaimer applies both to individual use of the data and aggregate use with other data.

Extent

West	-83.790996	East	-83.685866
North	42.311930	South	42.233096

Scale Range

There is no scale range for this item.

ArcGIS Metadata ►

Topics and Keywords ►



Micah Cohen ✓

@micahcohen

Follow

What's that? You want all the data we use at @FiveThirtyEight in one easy-to-find-and-download place?

OK:

```
252 Donald Trump,Adults,11/18/2017,37.66021,41.32718,33.99324,55.76469,60.22801,51.30137,13:18:21 18 Nov 2
253 Donald Trump,All polls,11/18/2017,38.19148,42.61485,33.76891,55.45759,59.77378,51.1414,13:18:15 18 Nov 2
254 Donald Trump,Adults,11/17/2017,37.49475,41.12764,33.86187,55.80109,60.26508,51.3371,14:27:21 17 Nov 2
255 Donald Trump,Voters,11/17/2017,39.20837,43.77735,34.7994,55.46104,59.46125,51.46262,14:27:25 17 Nov 2
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257 Donald Trump,Voters,11/16/2017,39.17174,43.72211,34.62136,55.44165,59.49014,51.39315,22:26:26 16 Nov 2
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274 Donald Trump,All polls,11/11/2017,37.91284,42.33805,33.40764,56.00043,60.84921,51.31165,18:28:10 11 Nov 2
275 Donald Trump,Voters,11/10/2017,38.91225,43.31968,34.50483,55.91314,60.30188,51.52439,17:38:26 10 Nov 2
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277 Donald Trump,All polls,11/10/2017,37.85893,42.279,33.43886,56.11641,60.87601,51.3568,17:38:16 10 Nov 2
278 Donald Trump,Voters,11/9/2017,38.82508,43.16136,34.4888,56.00803,60.37885,51.63721,15:22:24 9 Nov 20
```

Our Data

We're sharing the data and code behind some of our articles and graphics.

data.fivethirtyeight.com

1:56 PM - 9 Feb 2018

558 Retweets 1,701 Likes



47



558



1.7K



Our Data

We're sharing the data and code behind some of our articles and graphics.

We hope you'll use it to check our work and to create stories and visualizations of your own.

● UPDATING

DATA SET

RELATED CONTENT

soccer-spi

Club Soccer Predictions

an hour ago ●

info



trump-approval-ratings

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2 hours ago ●

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nba-carmelo

2017-18 NBA Predictions

10 hours ago ●

info



mlb-elo

2018 MLB Predictions

11 hours ago ●

info



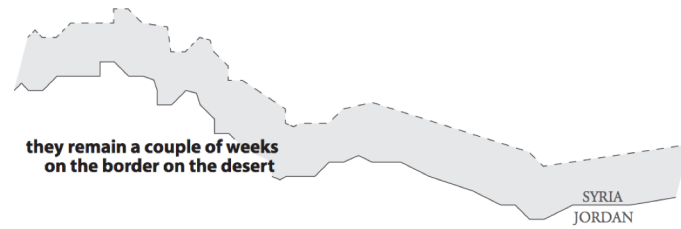
congress-generic-ballot

Are Democrats Or Republicans Winning The Race For

a day ago ●

info





Fateh and Baraq

Syrian-Jordanian borderland

For those that reach the border, Fateh and Baraq described the border as space, not a line.

Several months ago, there were like 5000 refugee on the border waiting for the Jordan government approval to give them the permission to enter Jordan, so they remain a couple of weeks on the border... the Jordanian army and UNHCR distributed the food, water, and shelter during that time... they spent some days on the desert in area called Al elayyaneh...

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A map may be feminist in
content, form, and/or process.

Feminist Cartographies in Theory

A map may be feminist in
content, **form**, and/or process.

Feminist Cartographies in Theory



Goal: Use *feminist data visualization* principles to design alternative icons

Designing Feminist Icons





baseball



basketball



bicycle
share



circle



circle
stroke



clothing



college



cricket



dentist



doctor



entrance



golf



hairdresser



heart



lodging



marker



pitch



playground



police



shop



skiing



soccer



square



square stroke



star



star stroke



suitcase



swimming



tennis



theater



toilet



triangle



triangle
stroke



wheelchair

Step 1: Pick an icon and think about its limitations. How can the icon be improved through a feminist lens?

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Step 2: Drawing on feminist data visualization principles (above), iteratively redesign the icon. Keep your sketches and drafts.

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Step 3: Reflect on your designs in writing / with annotations.

What icon are you working with? Which feminist data visualization principles are you drawing on? How does your icon improve the original design? When would you use your icon and what are the limitations of your design?

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Step 2: Drawing on feminist data visualization principles (above), iteratively redesign the icon. Keep your sketches and drafts.

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What icon are you working with? Which feminist data visualization principles are you drawing on? How does your icon improve the original design? When would you use your icon and what are the limitations of your design?



swimming



toilet

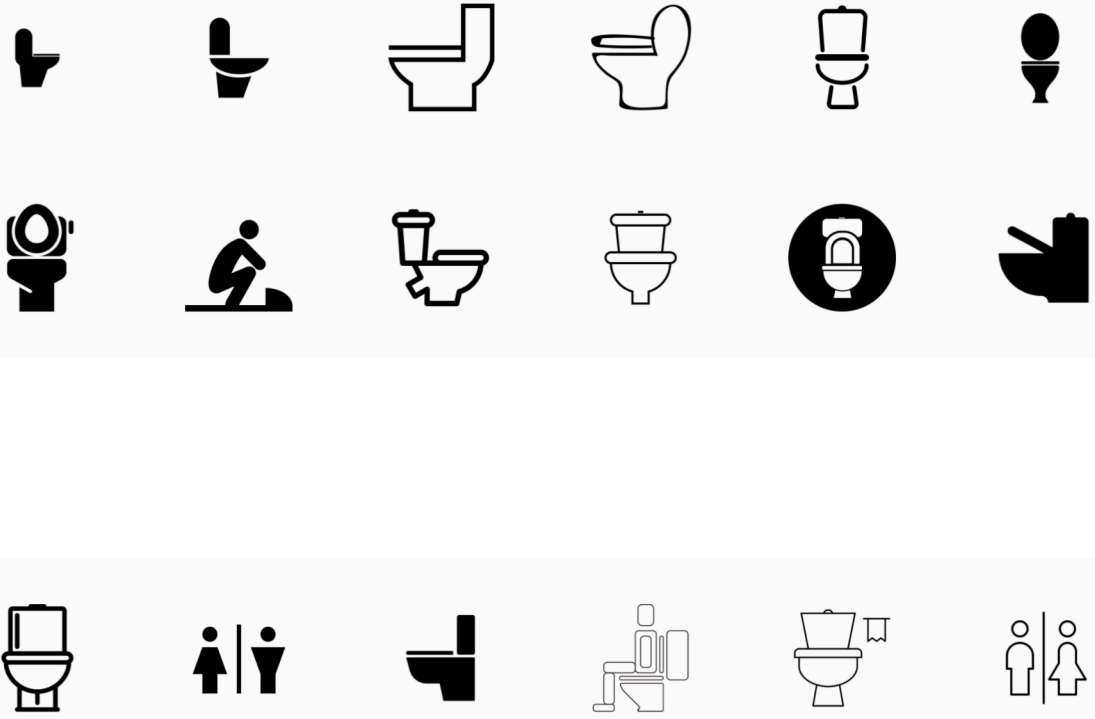


toilet

Log in

Results for "toilet"

2,039 icons 90 collections





Search for anything

Log in

Gender Neutral Bathroom

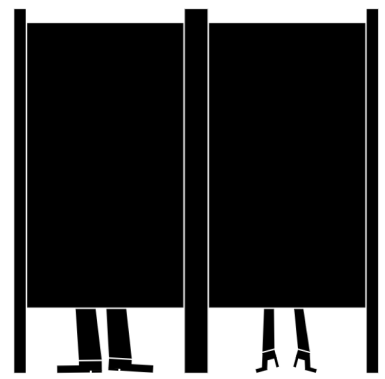
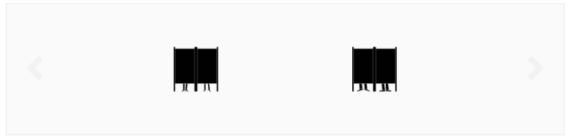


By [Josiah Workman](#)

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More from [Josiah Workman](#)





police

police

Log in

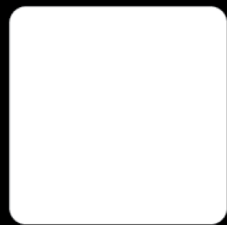




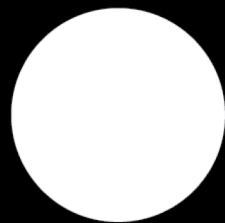
doctor



hairdresser



square



circle

