

# *A Practical Introduction* to Feminist Mapping

Geography 572, Fall 2019

Meghan Kelly | @meghankellymaps

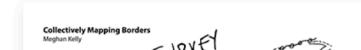
*Welcome and Agenda*

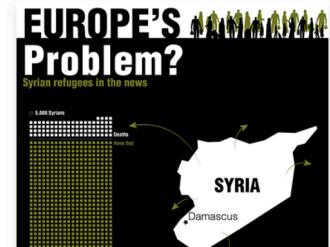
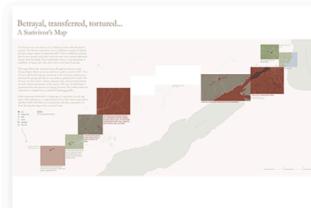
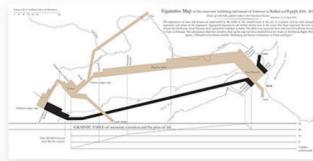
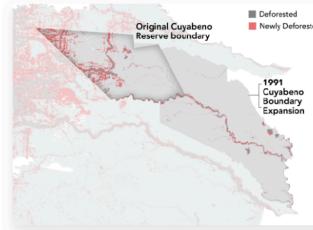
# Hello! I'm Meghan.

I'm a cartographer and PhD student at the [University of Wisconsin–Madison](#)! I'm interested in all things mapping related. I make maps, teach mapmaking, and think and rethink mapping practice. My dissertation explores the intersections of mapping and feminist theory. Broadly, I ask what can feminist cartographies look like? You can find my CV [here](#). Thanks for stopping by!



## *Introductions*





# *Research Consent*

# **Feminism**

# FEMINIST



**Feminism:** Historical, theoretical, and practical framework that explores the construction of knowledge, the distribution of power, and genders' intersections with identity, sexuality, race, ethnicity, class, education, etc.

**Feminism:** Historical, theoretical, and practical framework that explores the construction of **knowledge**, the distribution of **power**, and **genders' intersections** with identity, sexuality, race, ethnicity, class, education, etc.

**Feminism + Mapping?**

## Your Body, (Not) Your Choice

Map

Analysis

About

Since the landmark Supreme Court decision Roe v. Wade in 1973, which legalized abortion throughout in the U.S., states across the country have slowly chipped away at this federally protected right. We are here to tell this story.

## Report Card

## Grading Scale:



F



D



C



B



A

## Prohibited At

## Mandated Counseling

## Waiting Period

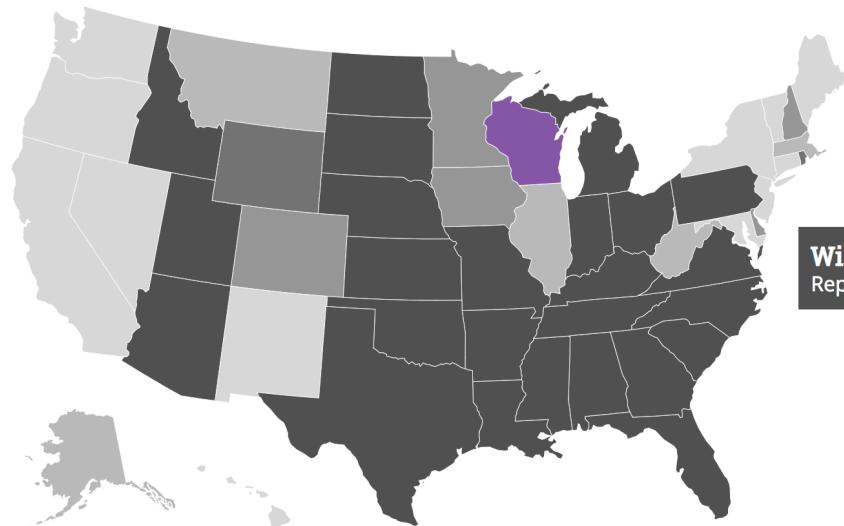
## Parental Consent

## Mandatory Ultrasound

**Show:**  
Crisis Pregnancy Centers**Show:**  
Abortion Providers

The report card grade, created by NARAL, given to each state based on their policies regarding a woman's choice and access to abortions. [We provide an overview of these policies here.](#)

2014

**Wisconsin**  
Report Card: D

What is **feminist mapping** and what  
does it look like in **practice**?

# **Feminist Data Visualization**

*Catherine D'Ignazio and Lauren Klein (2016)*

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

*Defining Feminist Cartographies*

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**.

*Defining Feminist Cartographies*

# feminist <sup>/inclusive cavt.</sup> cartographies —

[the (often) visual <sup>map  
definition  
needed?</sup> expression of spatial info.

that] intentionally + explicity addresses <sup>questions</sup> ~~scale~~ / embodiment / individual of power, <sup>person experience</sup> inequality, representation, and/or ethics. ← what is missing?

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

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

Embracing pluralism

Examine power and aspire to empower

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Legitimize embodiment and affect

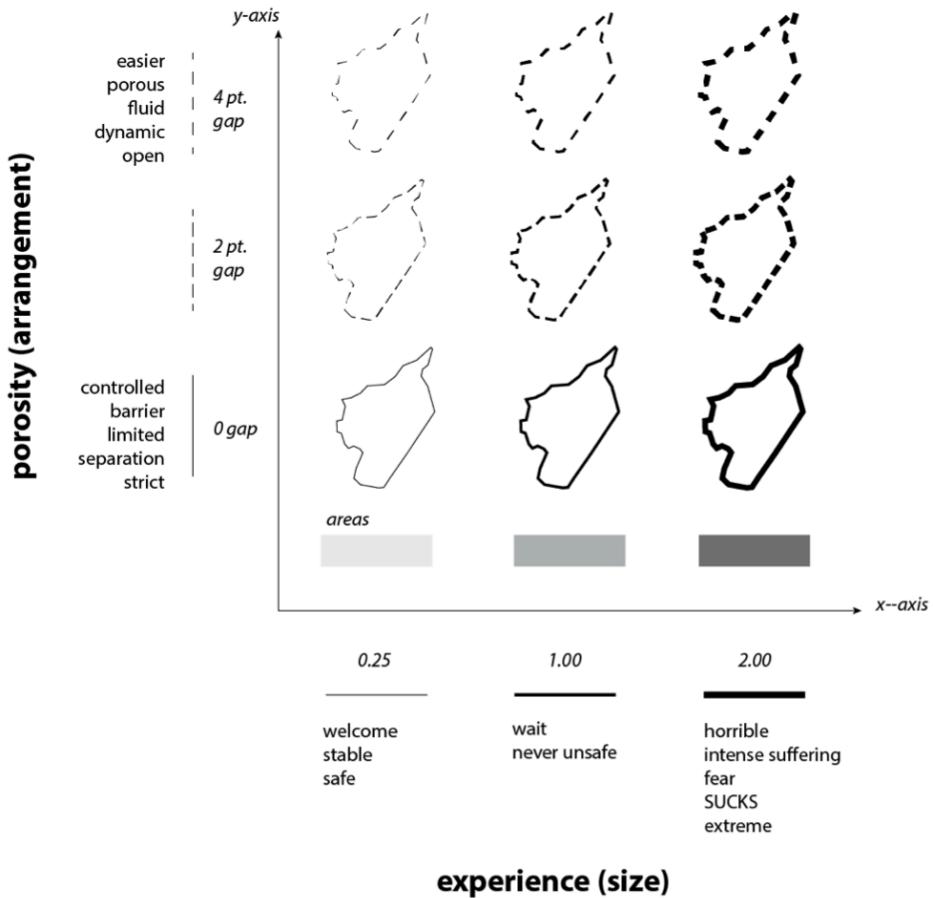
Make labor visible

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

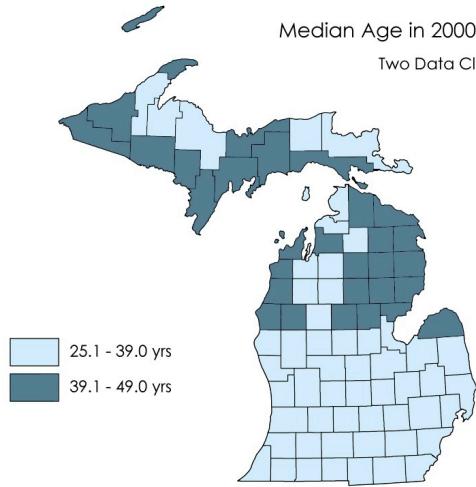


toilet

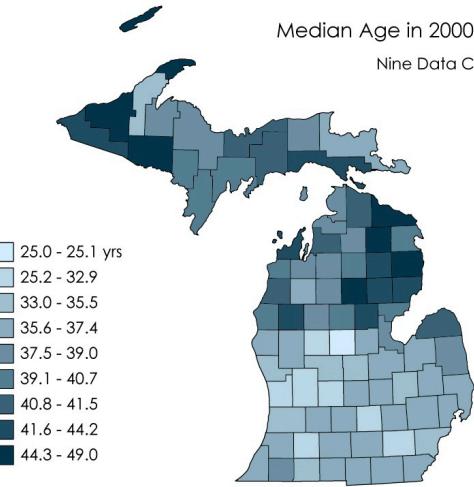
*Rethinking Binaries*



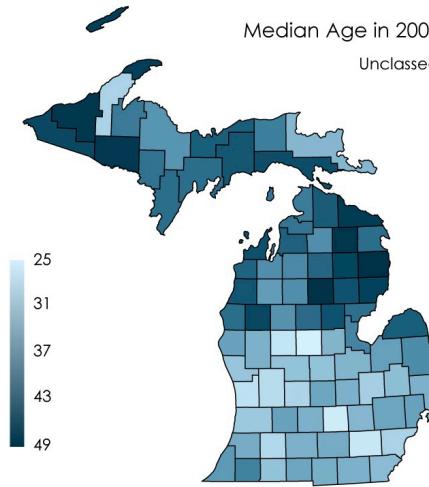
Median Age in 2000 in Michigan  
Two Data Classes



Median Age in 2000 in Michigan  
Nine Data Classes



Median Age in 2000 in Michigan  
Unclassed



Rethinking binaries

## **Embracing pluralism**

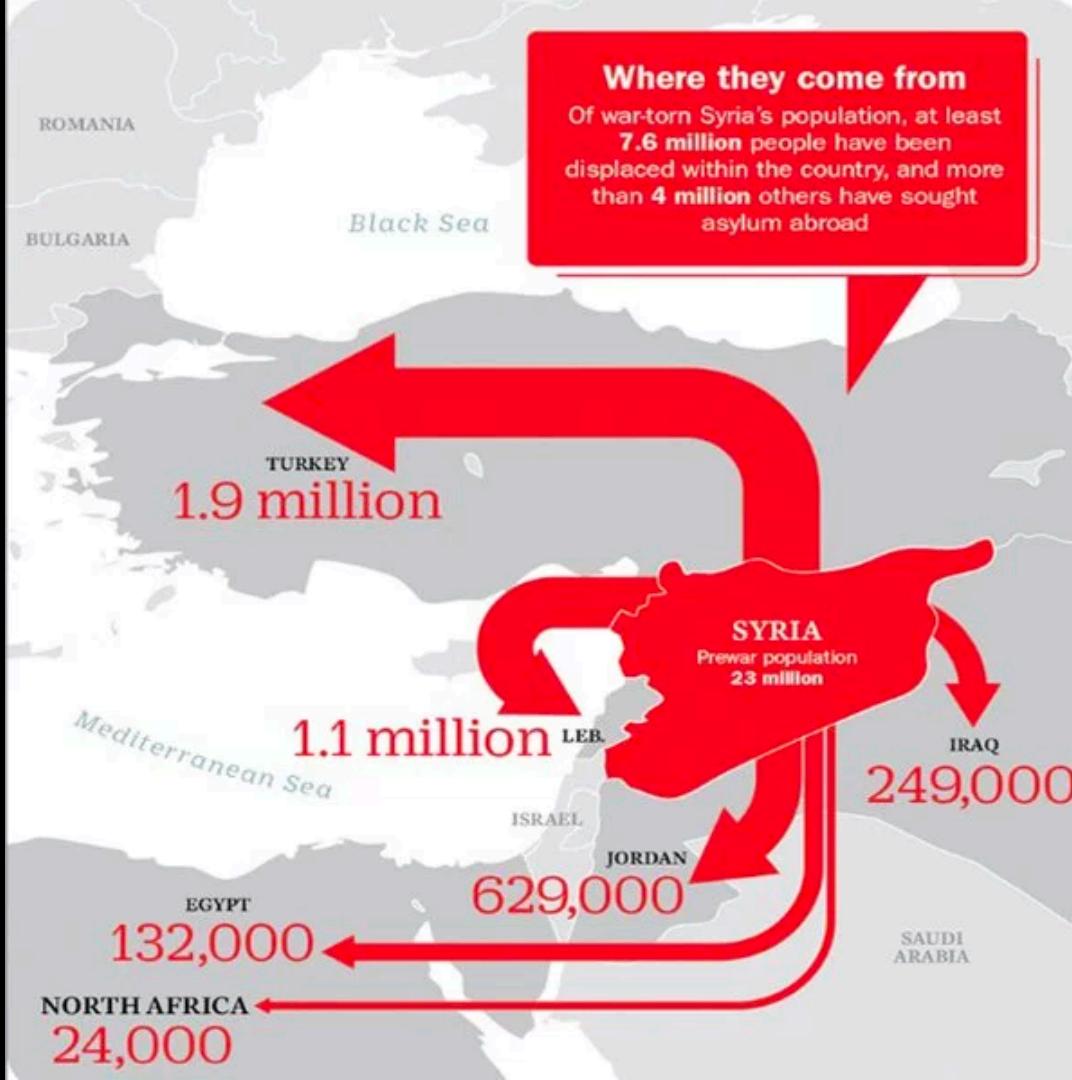
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## Collectively Mapping Borders

Meghan Kelly



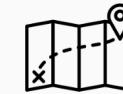


map



Results for “map”

34,964 icons 768 collections



Rethinking binaries

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# MISSING & MURDERED INDIGENOUS WOMEN DATABASE

© 2018 ANNITA LUCCHESI. PROUDLY CREATED WITH WIX.COM

BEA JENNIKA NERISSA MAKAYLA SAMANTHA LATOYA VERA MIA FREIDA RAINBOW SAMMI TASHAYNI  
LYNNE DESTINY RUBINA MAE LAURIE JOCELYN MERCEDES EARLENE KEESHA ADRIENNE JASMINE RAQ  
NIA LOREAL MIRABELLA ALISHA SADIE JOZANNA JAYDEN JOURDAN CHELSEA TRINA VIKKI SHAYLENE  
RAMONA HOPE SARAH TARITA COURTNEY ELIE LEONA TONEQUA  
https://www.mmiwdatabase.com

## ACCESSING THE DATA

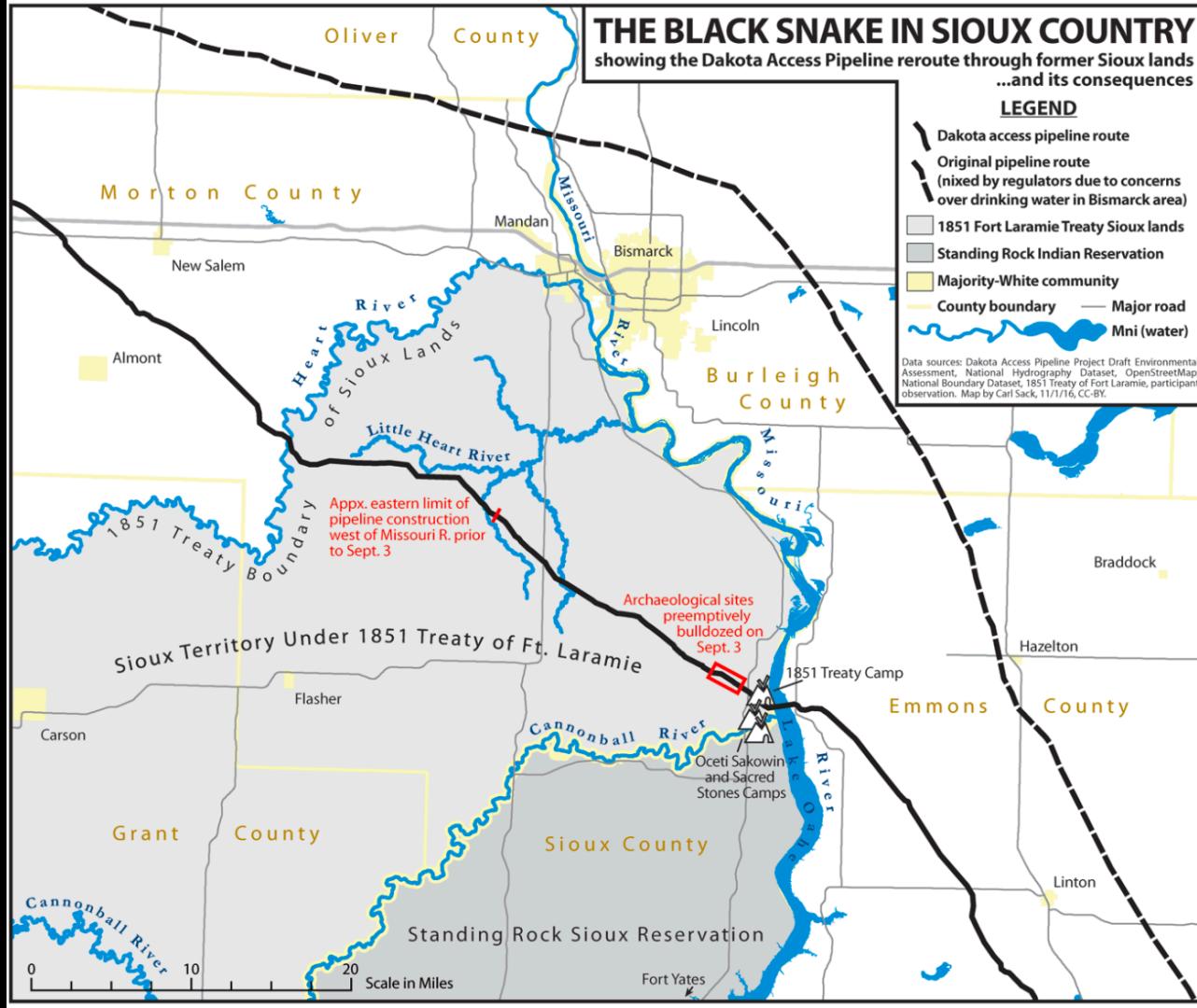
The data is made available on an as-requested basis. The database spans from 1900 to the present, includes both Canada and the US, and includes all homicide victims, deaths in custody, suspicious deaths, and missing persons who are identified as indigenous women or girls (including trans-women, two-spirit people, and descendants who were part of an indigenous community but lack enrollment/status). The following data is logged in the database:

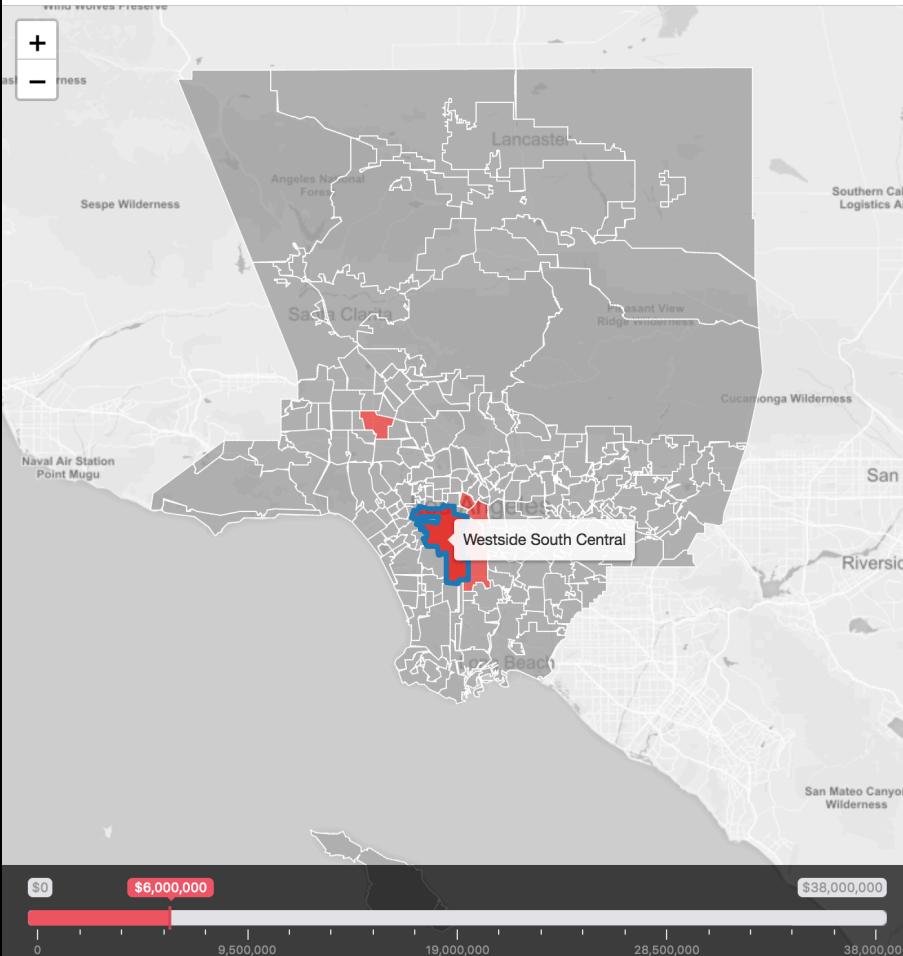
- Names (English, Indian, & translation of Indian name)
- Tribal Affiliation(s)
- Location (town, state/province, country, location type)
- Date of event
- Victim birth date and age at time of event
- Status (missing or murdered)
- Case ruling
- Reward (if one was ever put out, and how much)
- Race, gender, & conviction status of the perpetrator
- Relationship the perpetrator had to the victim
- Violence done to body after death
- If the victim was a mother
- If the victim had other MMIWG in their family
- Relevant keywords (disabled, domestic violence, sexual assault, sex work/trafficking, foster care, residential schools, 60s Scoop, police brutality/healigence/death in

## REQUESTS

When making a request for data, please share as much of the following information as you can:

- Type of Data: Do you need all cases from a specific geographic area, tribe, or time period? Are you only looking for data on a particular relevant issue—for example, police brutality or sexual assault? Try to be as specific as you can.
- Who You Are: Are you a journalist, a community member, a policymaker, or a researcher? Are you indigenous, or do you work with an indigenous community?
- How You Plan to Use the Data: Is this for a community event, a news article, or a research project? Knowing how you will use this data is important because it helps us figure out what data would help you in your work, and ensure that it's being used in a respectful and appropriate way.
- When You Need the Data: If you have a time-sensitive request, please share that information so that we can



[Neighborhoods](#) [Regions](#) [Senate](#) [Assembly](#) [LAPD](#) [LASD](#)

## LAPD 2012-2017 by Neighborhoods

[Jail Data](#) [Rankings](#)

## Westside South Central

\$38,104,024

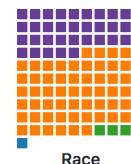
Cost of incarceration

165,785

Days in jail

71,461

Number of arrests



Hispanic 24907 (35%)

Black 43633 (61%)

White 1826 (3%)

Other 1095 (2%)



Male 56526 (79%)

Female 14935 (21%)

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



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Export

GPS Traces

User Diaries

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Where is this?

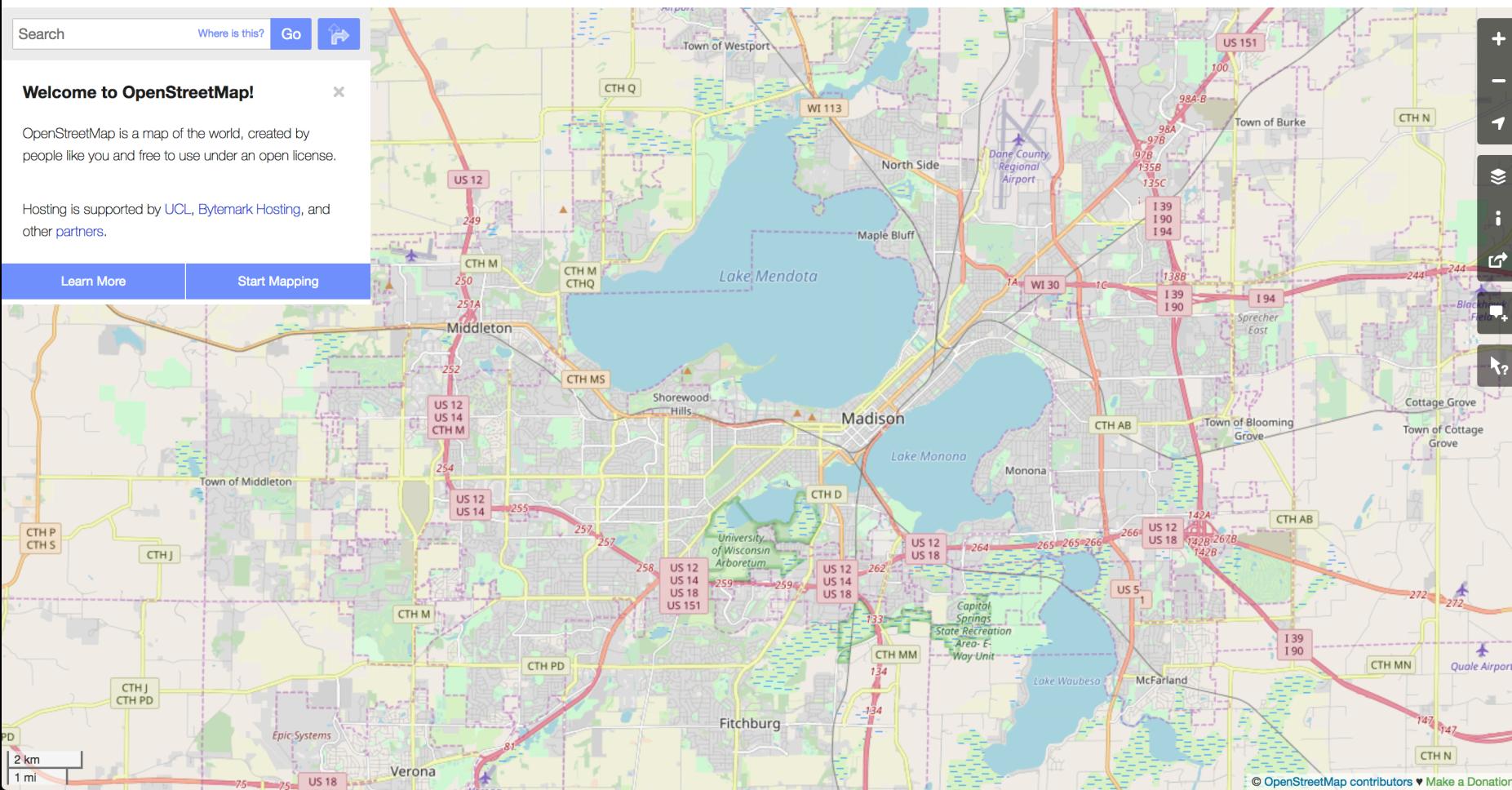
Go



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OpenStreetMap is a map of the world, created by people like you and free to use under an open license.

Hosting is supported by UCL, Bytemark Hosting, and other [partners](#).

[Learn More](#)[Start Mapping](#)

# 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



# 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

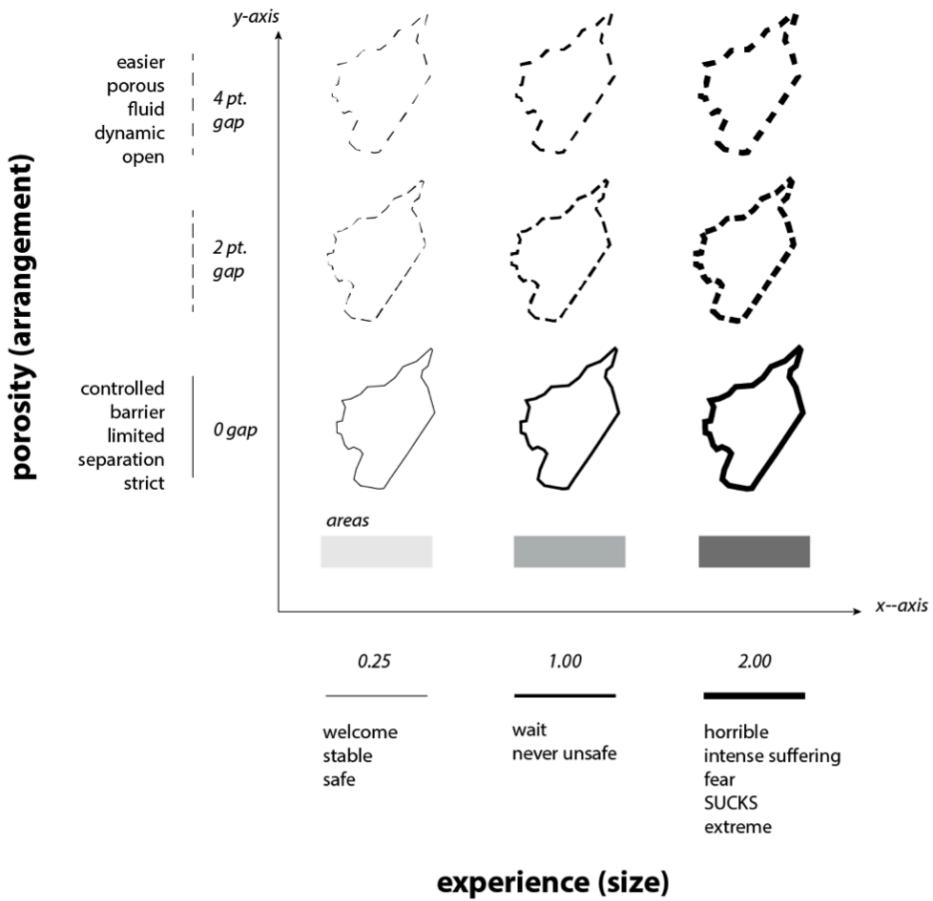


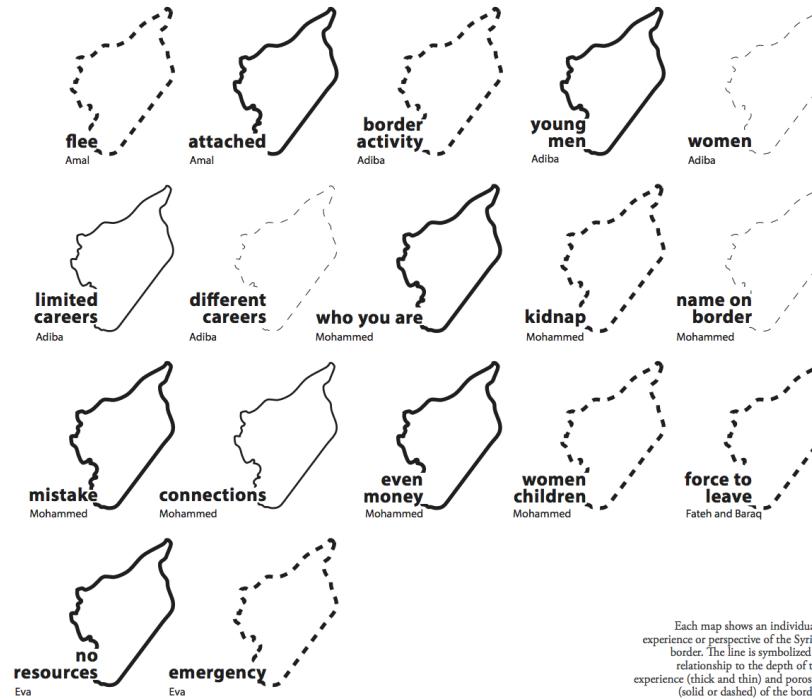
Rethinking binaries  
Embracing pluralism  
Examine power and Aspire to empower

## **Consider context and subjectivity**

Representing Uncertainty  
Legitimize embodiment and affect  
Make labor visible

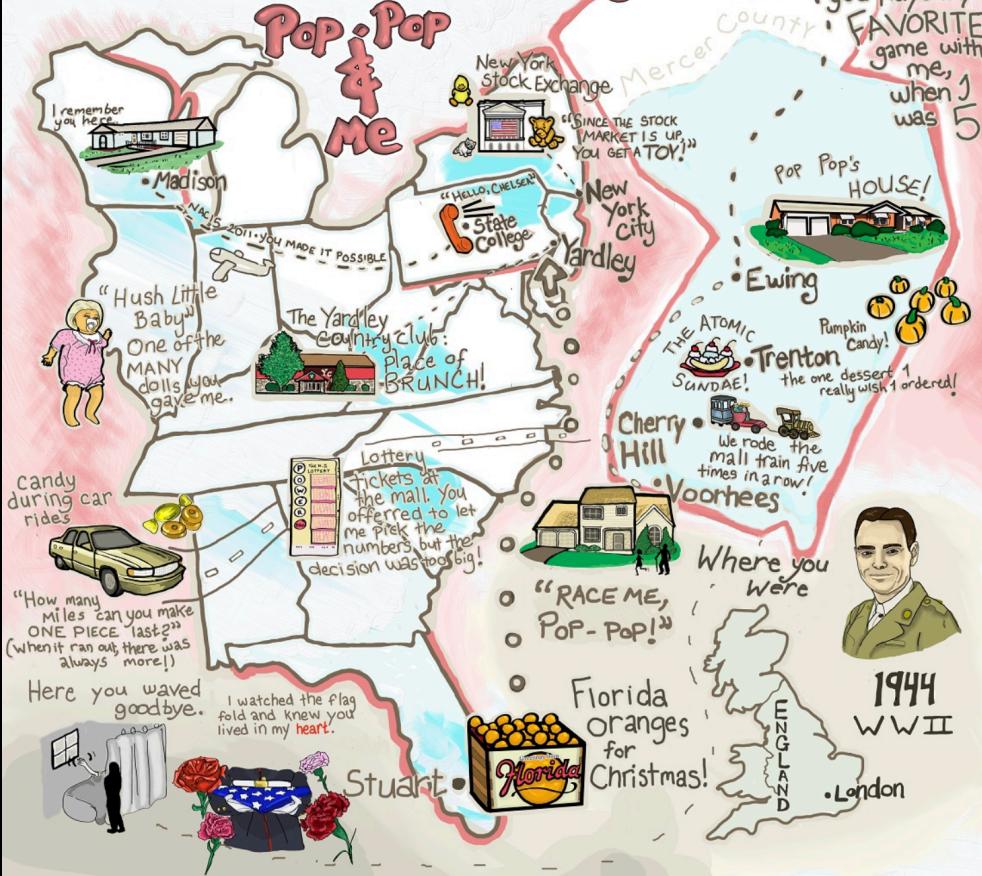
*Feminist Data Viz Principles (D'Ignazio and Klein 2016)*

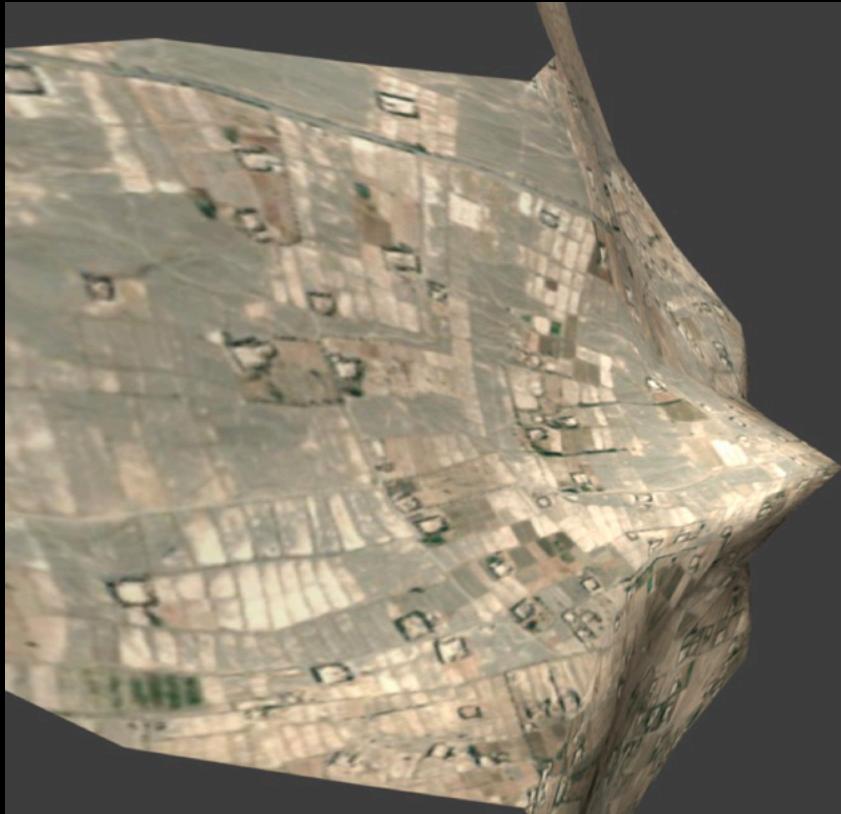




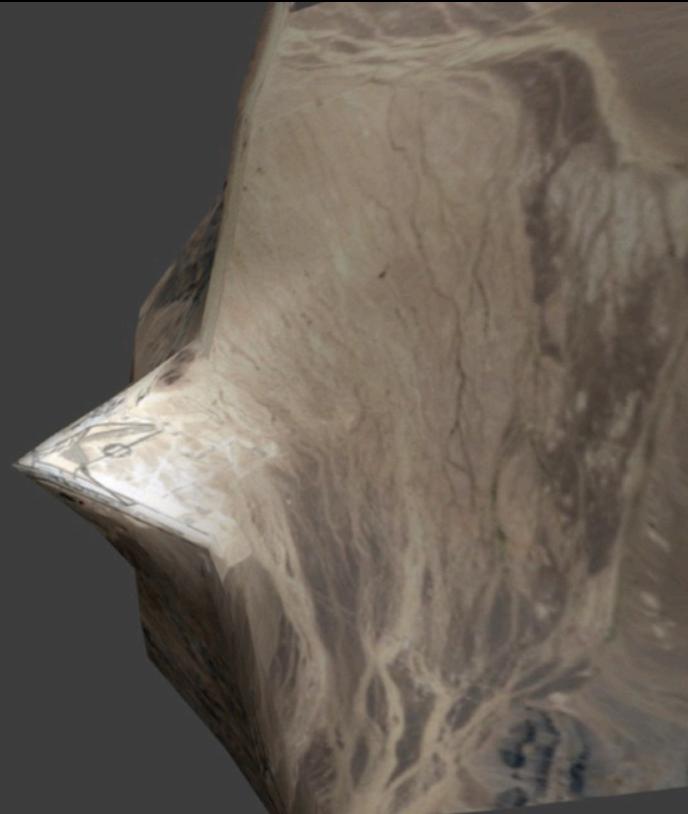
Each map shows an individual's experience or perspective of the Syrian border. The line is symbolized in relationship to the depth of the experience (thick and thin) and porosity (solid or dashed) of the border.

# The Places We've BEEN!





Wana, Waziristan, Pakistan



Creech Air Force Base, Nevada

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## Collectively Mapping Borders

Meghan Kelly

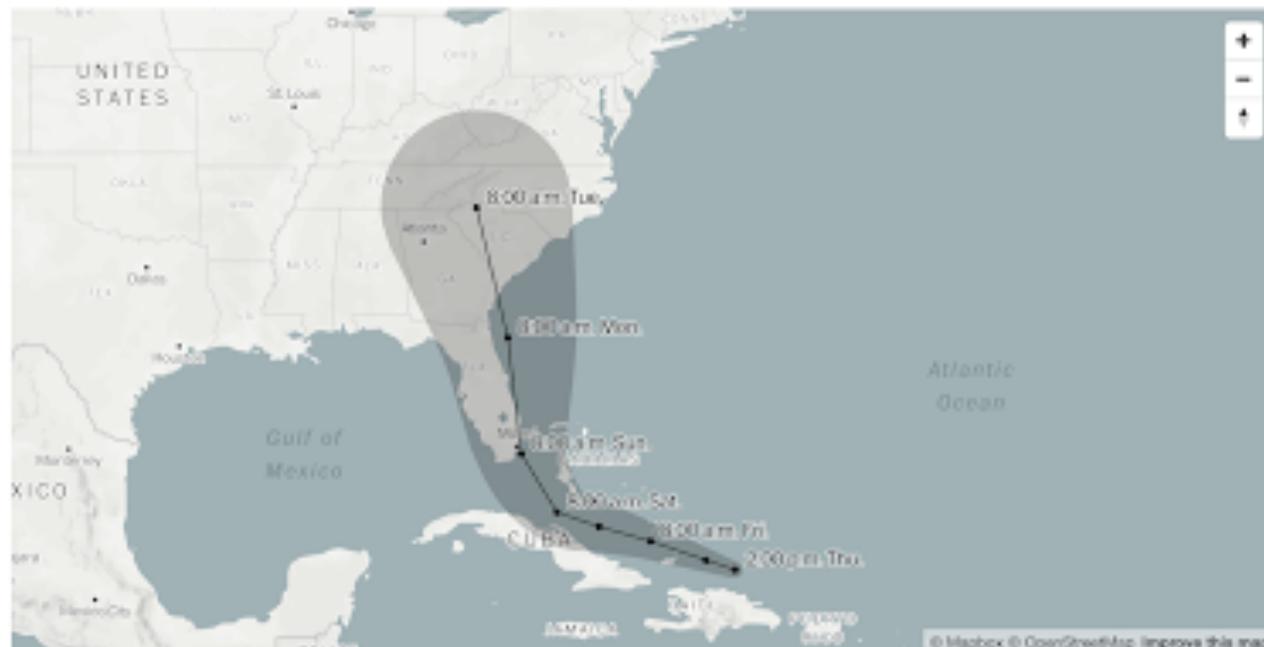


# What's in the path of Hurricane Irma

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

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

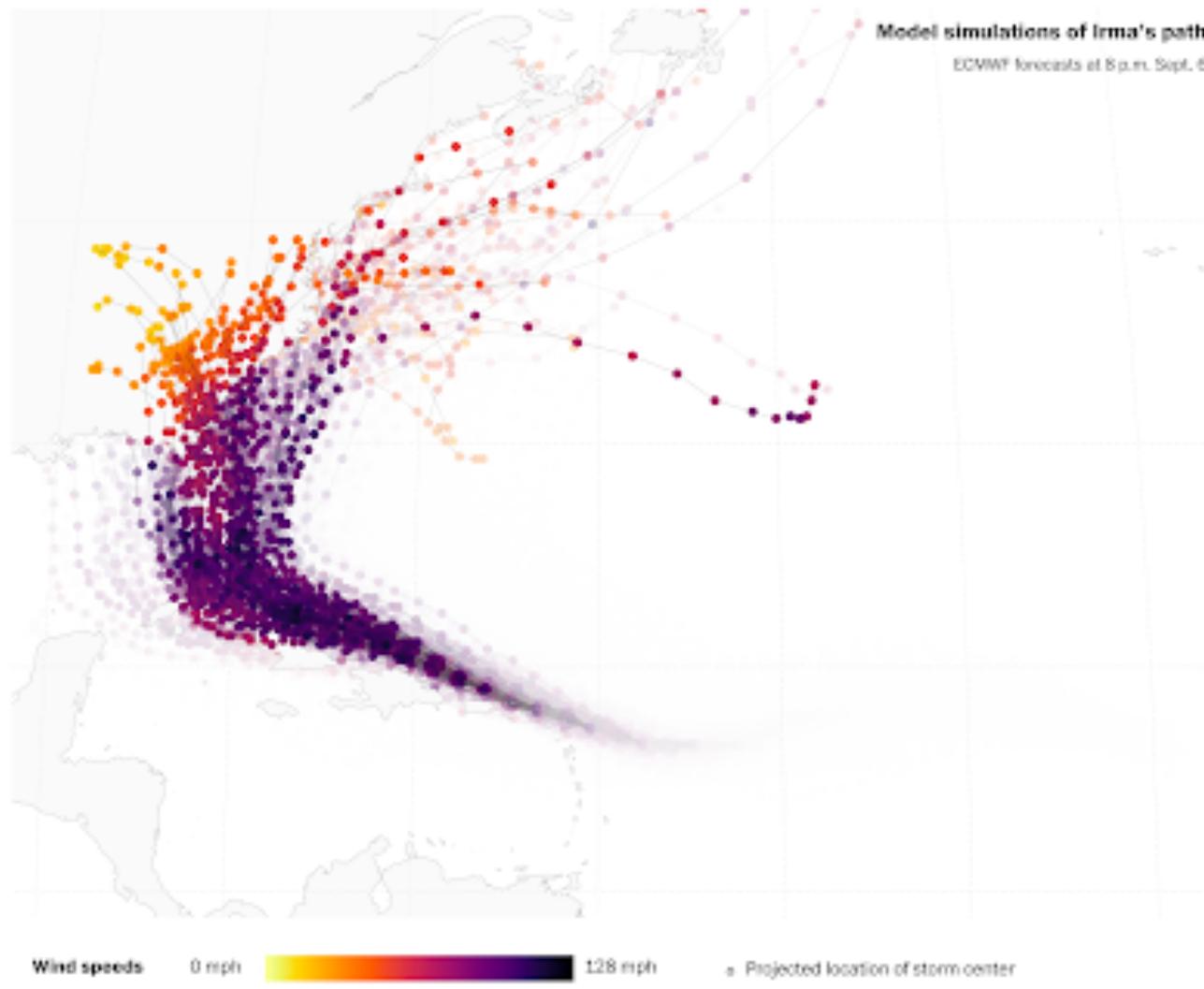
Updated Sept. 7 3:35 p.m.



The future path of the center of Hurricane Irma could be anywhere within this cone.

**Model simulations of Irma's path**

ECMWF forecasts at 8 p.m. Sept. 6



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# Embodiment

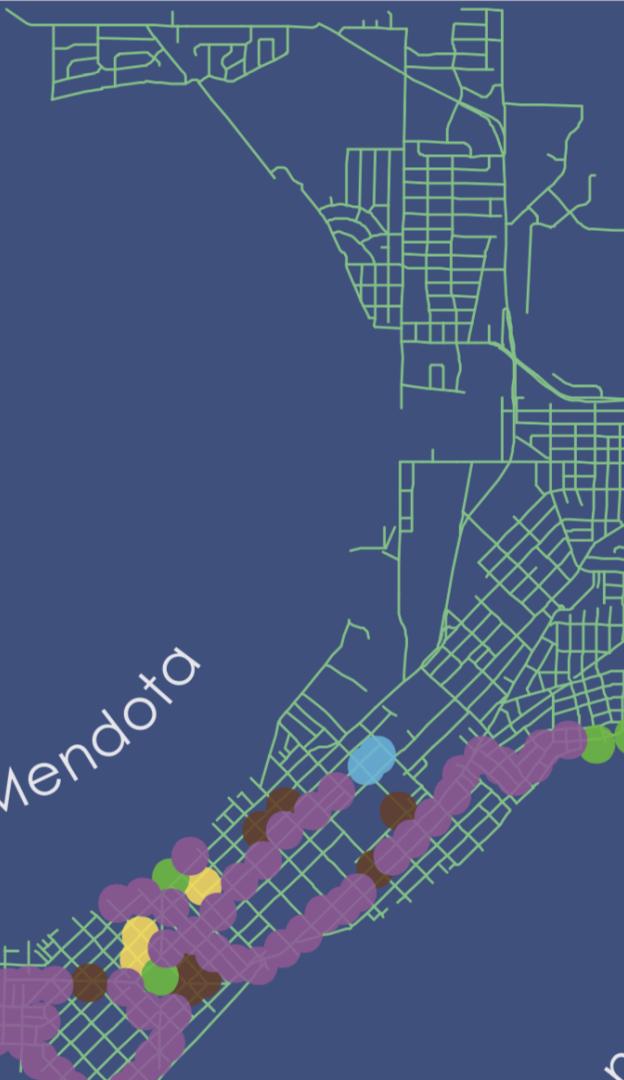
## Emotion map of Madison

2 Miles



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

Lake Mendota



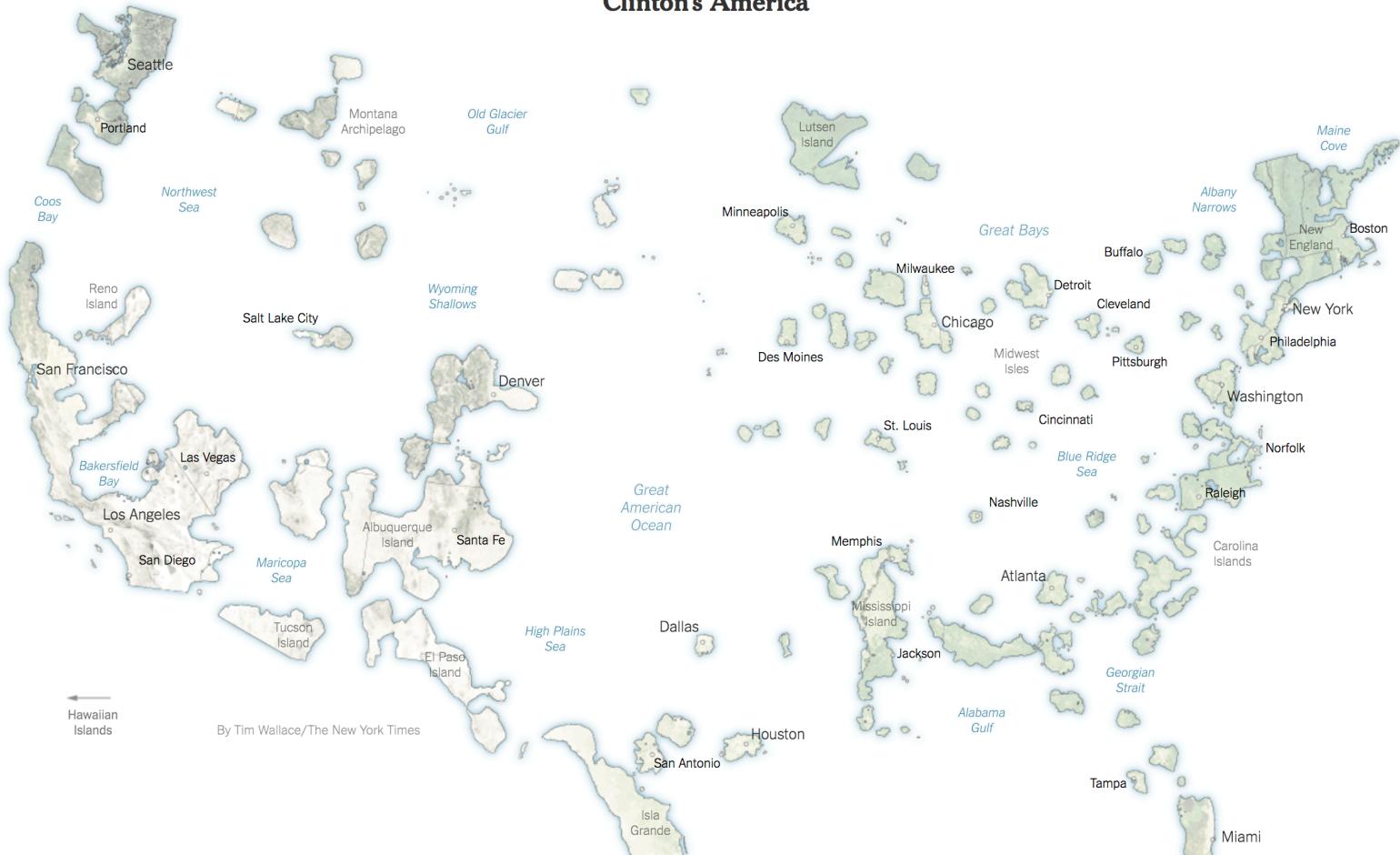


Trump's America





## Clinton's America



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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, 55.76499, 60.22801, 51.30137, 13.18:21 18 Nov  
253 Donald Trump, All polls, 11/18/2017, 38.19148, 42.61405, 33.76891, 55.45759, 59.77378, 51.1414, 13.18:15 18 Nov  
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, 39.28837, 43.77735, 34.7994, 55.46194, 59.46125, 51.46262, 14:27:25 17 Nov 2  
256 Donald Trump, All polls, 11/17/2017, 38.87958, 42.49039, 33.66876, 55.4835, 59.79652, 51.17048, 14:27:15 17 Nov 2  
257 Donald Trump, Voters, 11/16/2017, 39.17174, 43.72211, 34.62126, 55.44165, 59.49014, 51.39315, 22:26:26 16 Nov  
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276 Donald Trump, Adults, 11/10/2017, 37.11195, 40.57419, 33.6497, 56.54761, 61.41397, 51.68124, 17:38:22 10 Nov 2  
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](http://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

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**Are Democrats Or Republicans Winning The Race For**

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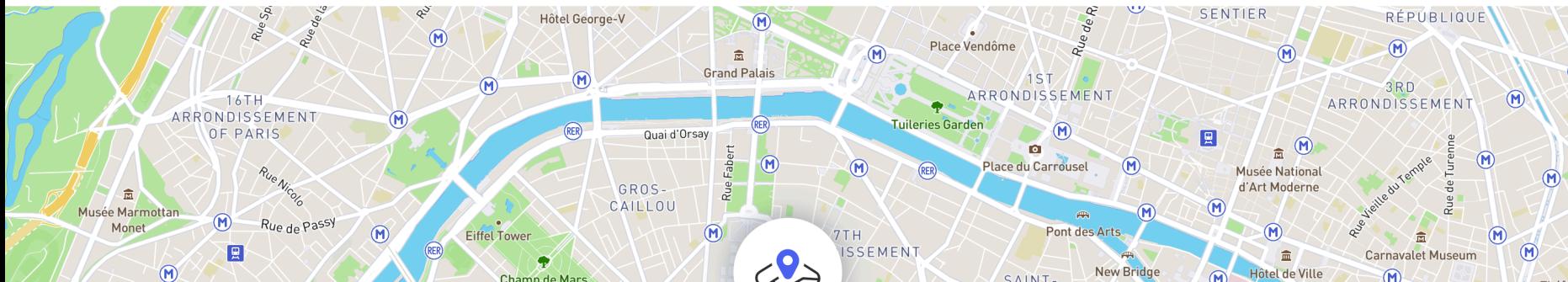
A map may be feminist in  
**content, form, and/or process.**

*Defining Feminist Cartographies*

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

*Defining Feminist Cartographies*



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# Maps

Maps reveal the world around us — from where your friends are, to who's winning the local elections to where your business is making traction. Mapbox provides you with the map design tools and mapping libraries needed to make dynamic, performant, and customized maps that suit your needs.

[Get started](#)[Contact sales](#)

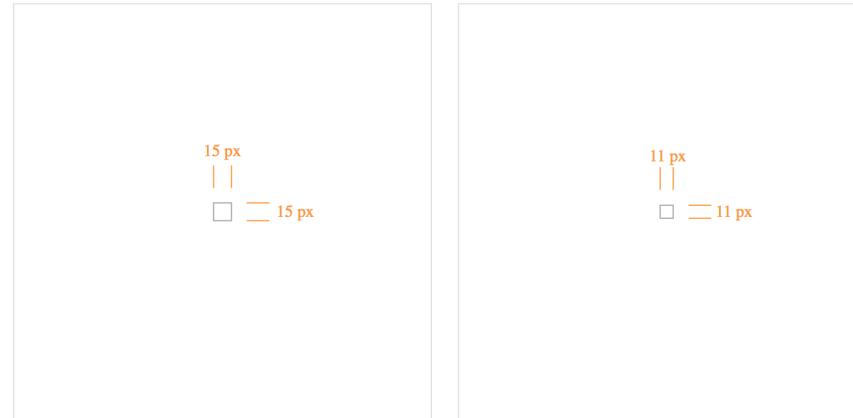
# MAKI

Maki is an icon set made for map designers. Maki includes icons for common points of interest like parks, museums, and places of worship. Each icon is available as an SVG in two sizes: 11px by 11px and 15px by 15px. Maki is open source and [CC0 licensed](#).

[!\[\]\(ad85e0cfbe0a2aa8295ac05c02ee1d63\_img.jpg\) Download Maki](#)

## Maki icons use the pixel grid

Maki icons come in two different sizes: 11px by 11px and 15px by 15px. The icon will appear blurry and indistinct if drawn once and then scaled, so both sizes require separate drawings. The two sizes should look as similar as possible.



15px by 15px grid at 100%.

11px by 11px grid at 100%.

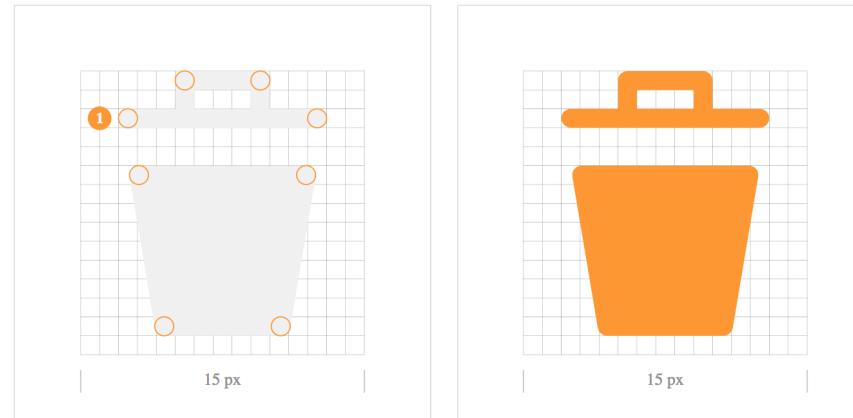


[Getting started](#)[Sizing & layout](#)[Geometry](#)[File specs](#)[Workflow](#)[Contribute](#)

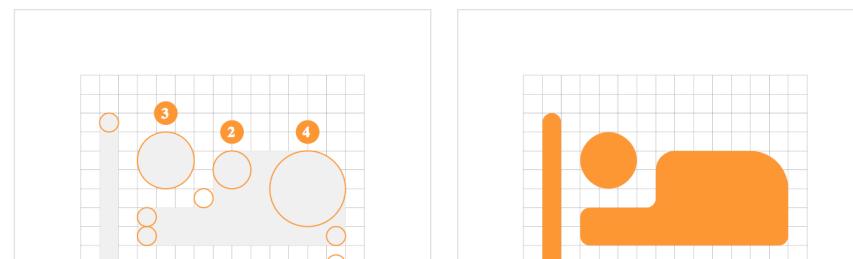
## Maki icons have straight edges but rounded corners

Due to the small scale of Maki, icons should be constructed with straight, obvious vertical and horizontal lines according to the pixel grid. Large, gradual curves will look blurry and indistinct at actual size.

To make Maki feel friendly and inviting, round all corners consistently based on circle radii, in half pixel increments.



The wastebasket is constructed with straight lines, and all corners are consistently rounded.





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

*Designing Feminist Icons*

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

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swimming

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swimming

Rethinking binaries

Embracing pluralism

Examine power and aspire to empower

Consider context and subjectivity

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Legitimize embodiment and affect

Make labor visible



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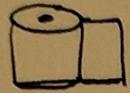
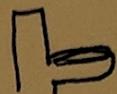
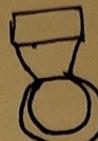
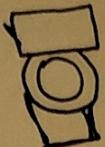


toilet

- limited by two gender binaries
- can be improved by not using people



or



- toilet paper

May be a more  
accurate reflection  
that everyone will  
know, plus it removes  
the gender binary icon

- ★ toilet: also more accurate,  
removes gender while maintaining  
idea of bathrooms

- probably the most inclusive

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**Step 4:** Discuss your designs within your group and prepare to share your process and designs with the broader group!

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swimming



# Thank you!

Meghan Kelly | @meghankellymaps