ERIN WALDRON FROM DATA DOZEN ◍ AUGUST 5, 2019 AT STANFORD UNIVERSITY

DATA VISUALIZATION WORKSHOP

VISUALIZING UNIVERSITY DATA WITH TABLEAU

>>> START HERE

www.datadozen.com/stanford-2019

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WHAT WE'LL DO TODAY

1 **Primer Visualizations**

2

3

WHAT WE'LL DO TODAY

1 Primer Visualizations

2 Warm Up Charts in Tableau

3

WHAT WE'LL DO TODAY

1 Primer Visualizations

2 Warm Up Charts in Tableau

3 **Build Three (maybe four) Interactive Dashboards**

WHAT WE'LL DO TODAY

1 Primer Visualizations

2 Warm Up Charts in Tableau

3 Build Three (maybe four) Interactive Dashboards

>>> BIG PICTURE GOAL: PLAY, A LOT

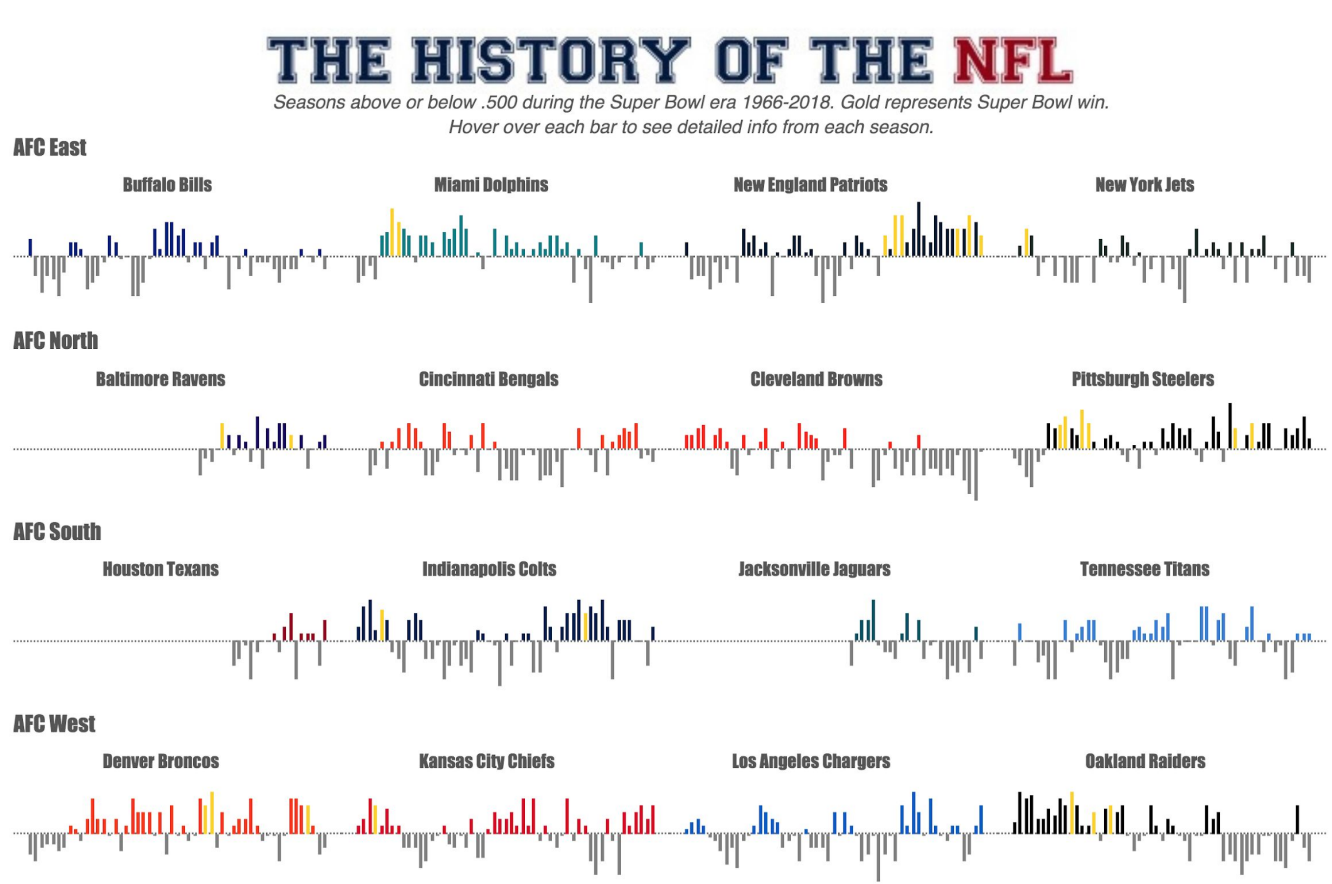
DATA VISUALIZATION IS SIMPLE

We encode our data in:

- Points
- Lines
- Area

And we tell multiple marks apart by their:

- Position
- Size
- Color
- Shape



SMALL MULTIPLES

THE HISTORY OF THE NFL

MATT CHAMBERS

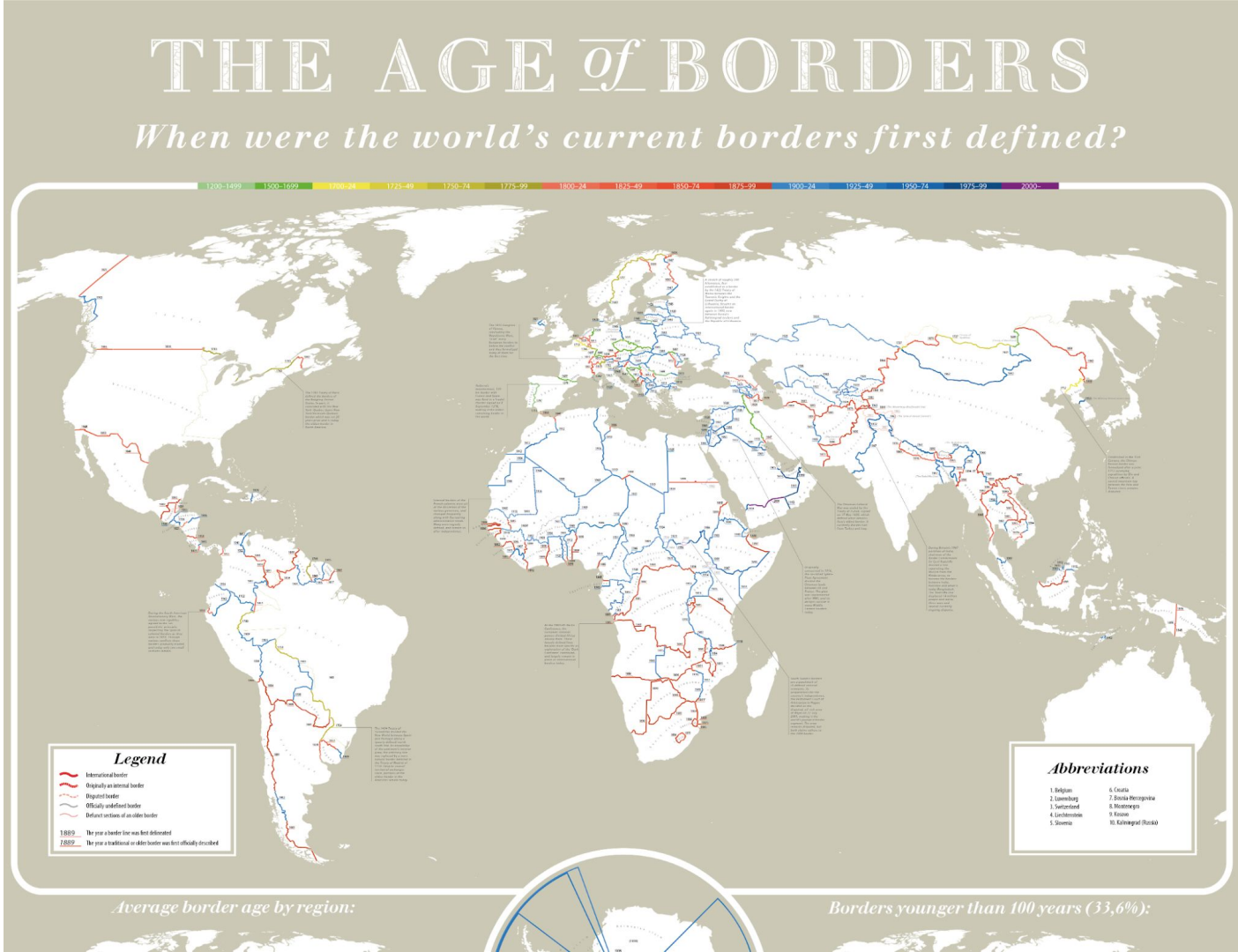
2018

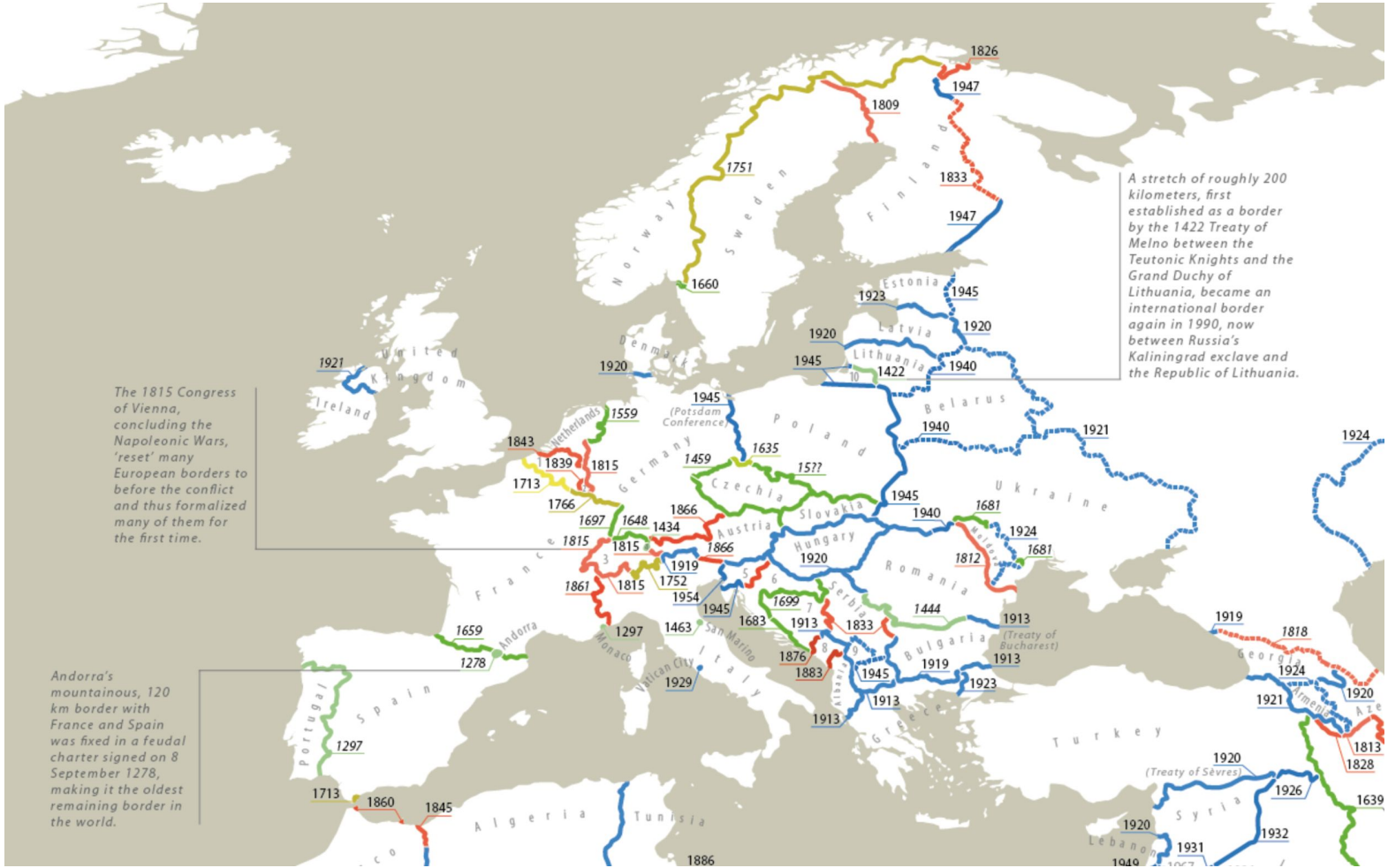
MAP

THE AGE OF BORDERS

PISSEGURI82

2018




A stretch of roughly 200 kilometers, first established as a border by the 1422 Treaty of Melno between the Teutonic Knights and the Grand Duchy of Lithuania, became an international border again in 1990, now between Russia's Kaliningrad exclave and the Republic of Lithuania.
The 1815 Congress of Vienna, concluding the Napoleonic Wars, 'reset' many European borders to before the conflict and thus formalized many of them for the first time.
Andorra's mountainous, 120 km border with France and Spain was fixed in a feudal charter signed on 8 September 1278, making it the oldest remaining border in the world.
Norway
Sweden
Finland
Estonia
Latvia
Lithuania
Belarus
Ukraine
Russia
United Kingdom
Ireland
Denmark
Netherlands
Germany
Poland
Czechia
Slovakia
Austria
Hungary
Romania
Moldova
Serbia
Bulgaria
Greece
Albania
France
Andorra
Monaco
Vatican City
San Marino
Italy
Spain
Portugal
Algeria
Tunisia
Turkey
Georgia
Armenia
Azerbaijan
Syria
Lebanon
(Potsdam Conference)
(Treaty of Bucharest)
(Treaty of Sèvres)

EUROPE

SHARE

The Scale of the Migrant Crisis, From 160 to Millions

By GREGOR AISCH, SARAH ALMUKHTAR, JOSH KELLER and WILSON ANDREWS UPDATED SEPT. 22, 2015

4
ARTICLES REMAINING

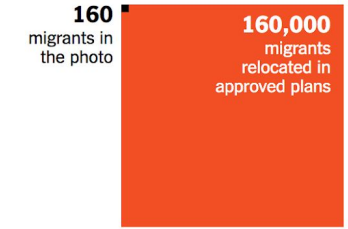
AREA CHART

THE SCALE OF THE MIGRANT CRISIS

NEW YORK TIMES

2015

This photo shows about **160** migrants in southern Hungary waiting to board a bus to a registration center on Sept. 9. They will be excluded from the only two relocation plans approved by European leaders so far. The plans will relocate a total of **160,000** people in Greece and Italy to other countries in Europe.



The plans add up to the largest agreement ever to distribute asylum seekers among member states. But they address only a small fraction of the expected total.

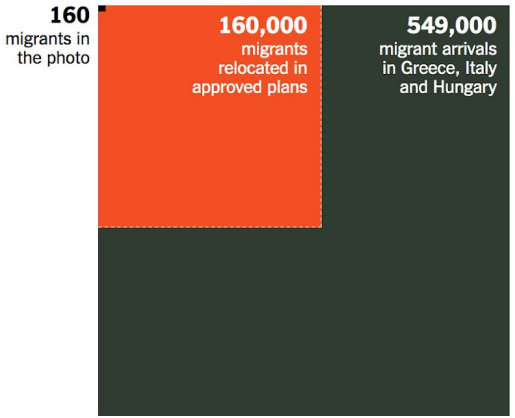
AREA CHART

THE SCALE OF THE MIGRANT CRISIS

NEW YORK TIMES

2015

Almost **549,000** migrants have arrived in Greece, Italy and Hungary alone this year, often by boat. Many want to move on to Germany or Sweden, which have stronger job markets and more benefits for refugees.



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THE SCALE OF THE MIGRANT CRISIS

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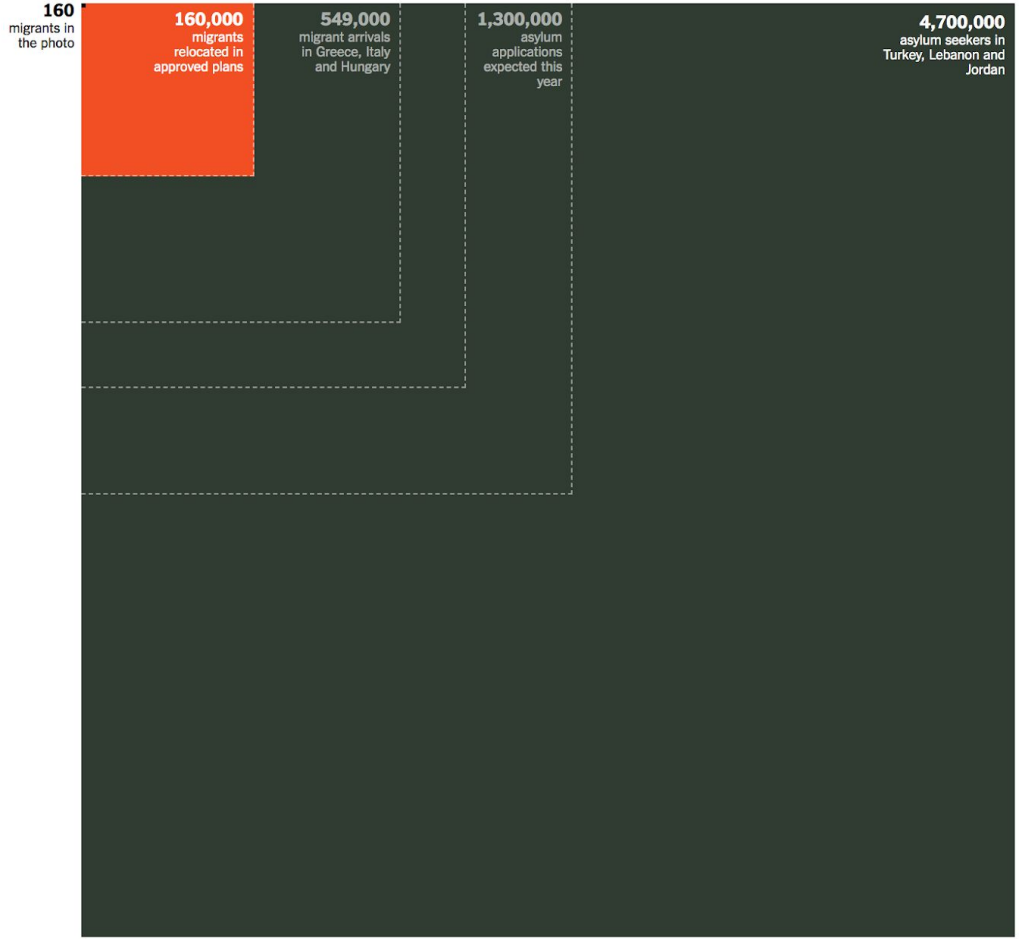


AREA CHART

THE SCALE OF THE MIGRANT CRISIS

NEW YORK TIMES

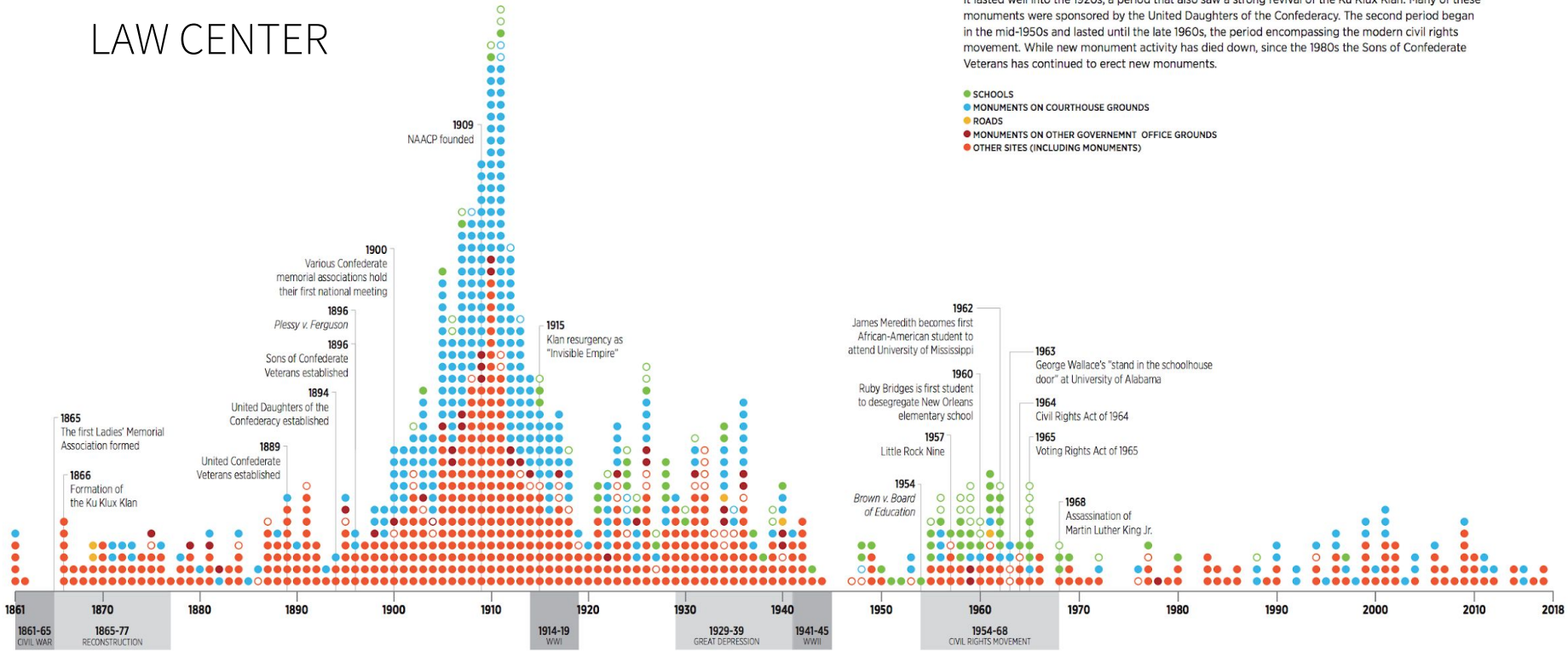
2015

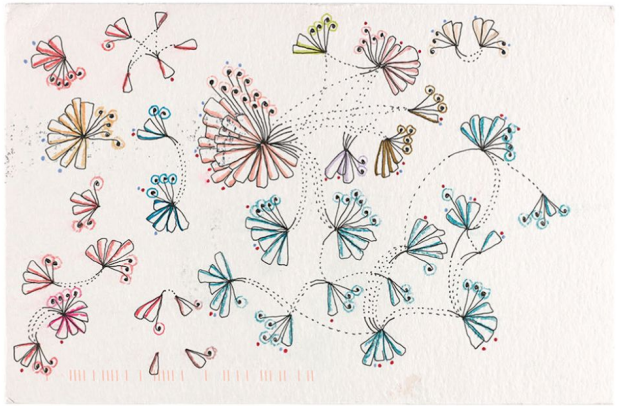
FREQUENCY CHART

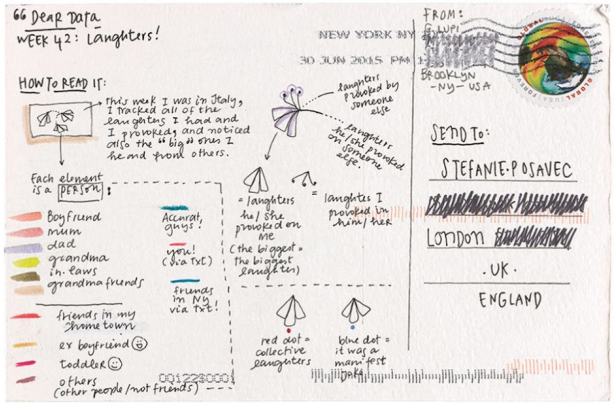
WHOSE HERITAGE

SOUTHERN POVERTY LAW CENTER

The dedication of Confederate monuments and the use of Confederate names and other iconography began shortly after the Civil War ended in 1865. But two distinct periods saw significant spikes. The first began around 1900 as Southern states were enacting Jim Crow laws to disenfranchise African Americans and re-segregate society after several decades of integration that followed Reconstruction. It lasted well into the 1920s, a period that also saw a strong revival of the Ku Klux Klan. Many of these monuments were sponsored by the United Daughters of the Confederacy. The second period began in the mid-1950s and lasted until the late 1960s, the period encompassing the modern civil rights movement. While new monument activity has died down, since the 1980s the Sons of Confederate Veterans has continued to erect new monuments.







When data-gathering gets in the way: Giorgia laughs and then has to report it. So, is she fully enjoying her cheerful moments as they pop up?

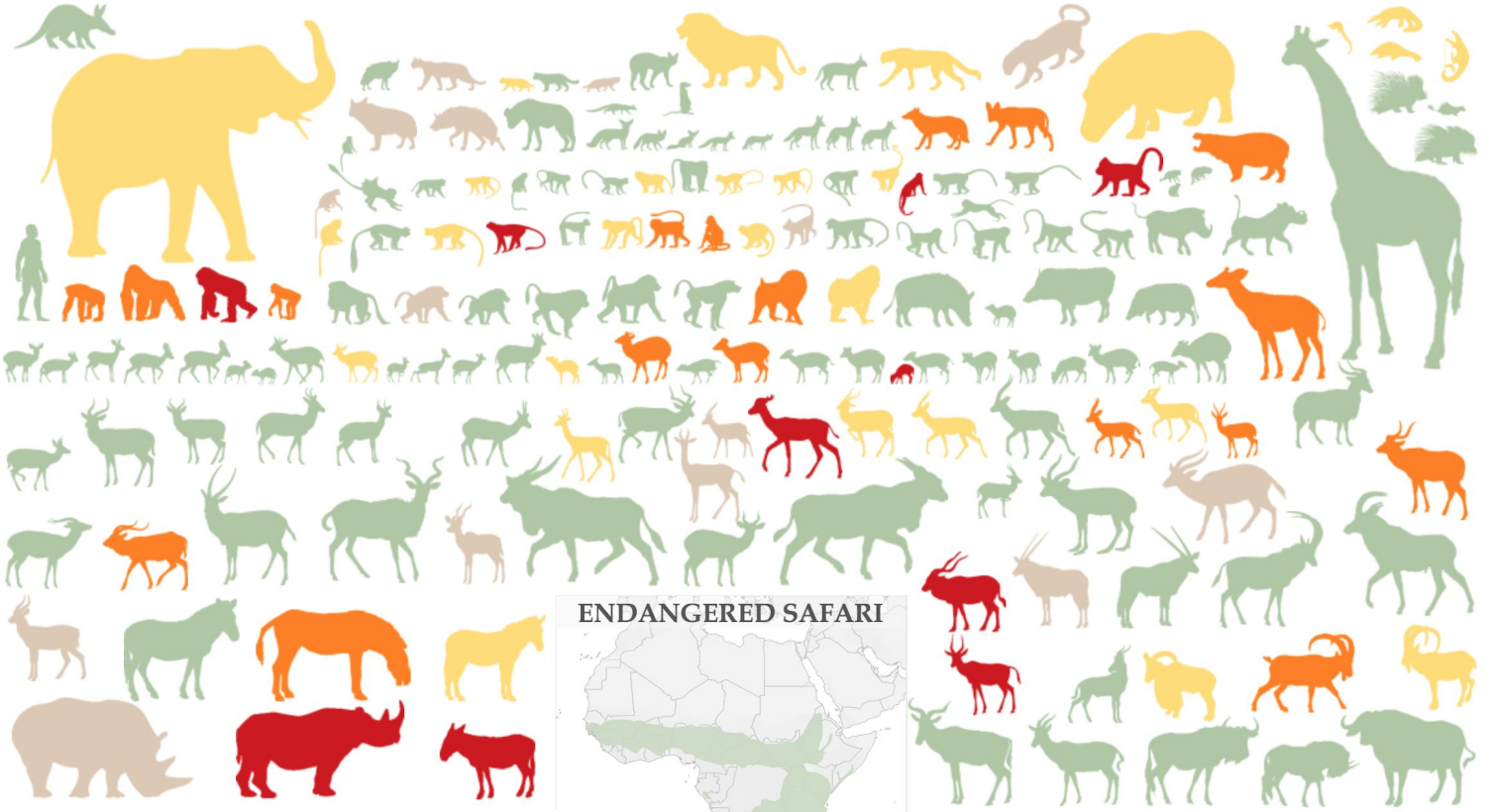
Stefanie was banned by her husband from gathering data at her birthday dinner in a posh restaurant (for obvious reasons). Hence the "data void".

QUANTIFIED SELF

A WEEK OF LAUGHS

GIORGIA LUPI & STEFANIE POSAVEC

2015



data from v2014.3
The IUCN Red List of Threatened Species
www.iucnredlist.org

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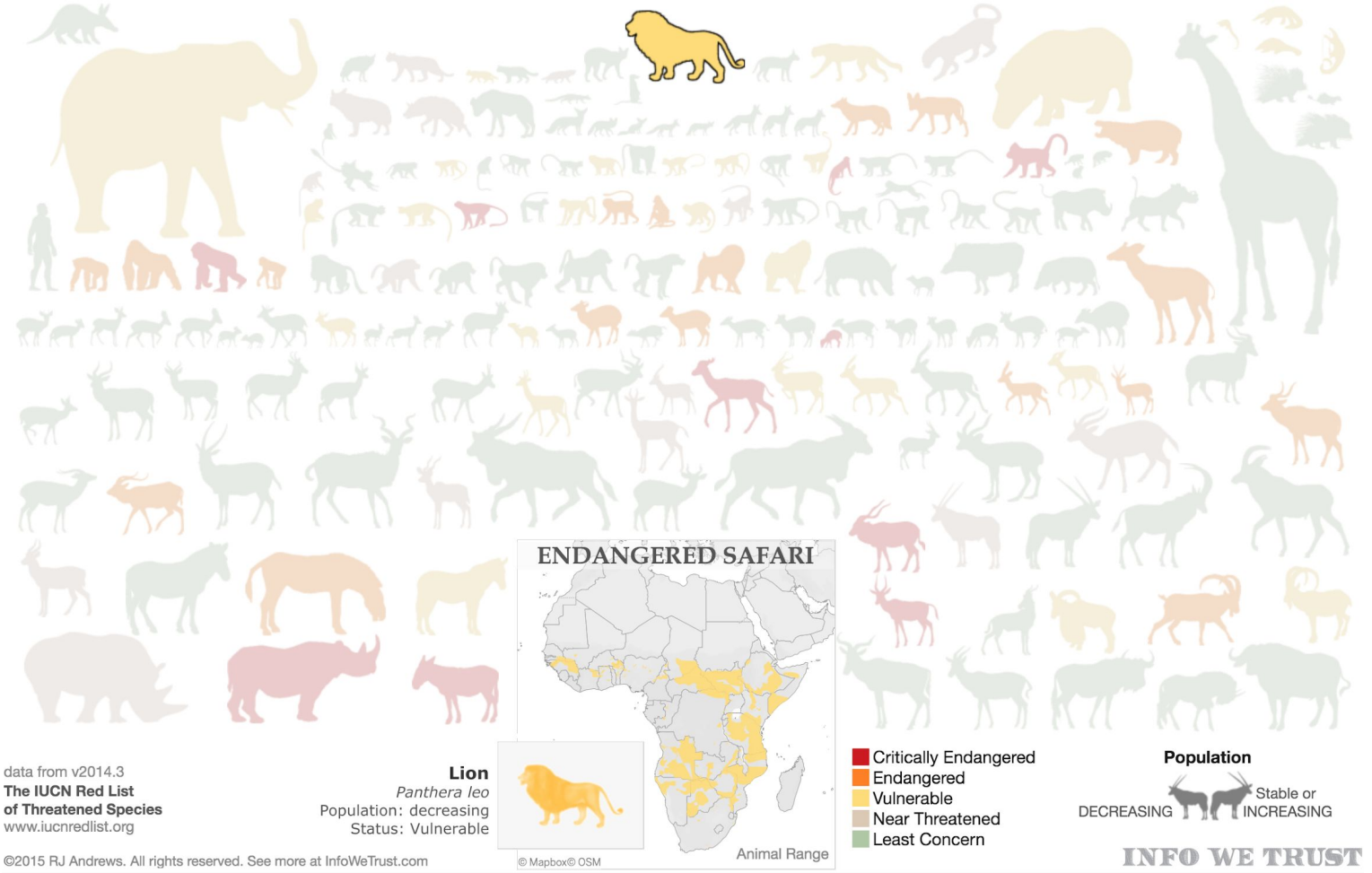
INFO WE TRUST



data from v2014.3
The IUCN Red List of Threatened Species
www.iucnredlist.org

Lion
Panthera leo
Population: decreasing
Status: Vulnerable

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ENDANGERED SAFARI

African Wild Ass
Equus africanus
Population: decreasing
Status: Critically Endangered

- Critically Endangered
- Endangered
- Vulnerable
- Near Threatened
- Least Concern

Population

DECREASING — Stable or INCREASING

data from v2014.3
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INFO WE TRUST

ENDANGERED SAFARI

Black Rhinoceros
Diceros bicornis
Population: increasing
Status: Critically Endangered

- Critically Endangered
- Endangered
- Vulnerable
- Near Threatened
- Least Concern

Population

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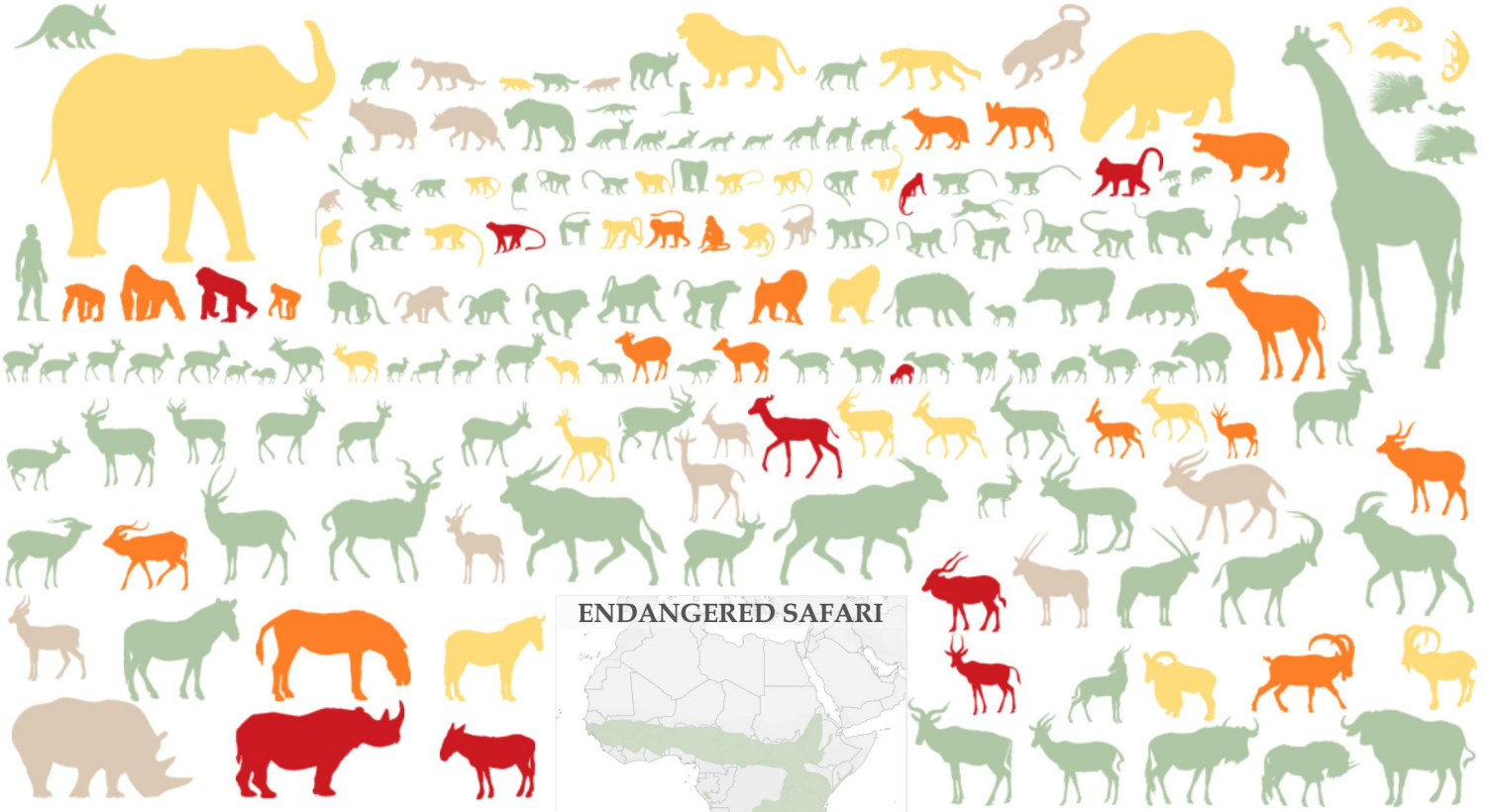

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INFO WE TRUST

COMMON CHART TYPES

- Bar Charts
- Line Graphs
- Area Charts
- Pie Chart
- Box and Whisker
- Dot Map
- Gantt Chart
- Timelines
- Bullet Graph
- Bump Chart
- Diverging Bars
- Choropleth Map
- Histograms
- Donut Chart
- Treemap
- Heatmap
- Scatterplots
- Small Multiples

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TODAY'S DATA SET

- IPEDS (Integrated Postsecondary Education Data System)
- Federal Student Financial Aid Programs
- Admissions Data from 2008-2017
- Public or Non-Profit
- 4 Year or Above
- Degree-Granting Primarily Baccalaureate or Above
- 1883 Institutions in 2017

Let's ***build*** .

ERIN WALDRON
www.datadozen.com

https://www.wingate.edu

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STAY IN TOUCH!

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SURVEY

5 QUESTIONS

Help Us Improve

TESTIMONIAL

HELP DATA DOZEN GROW

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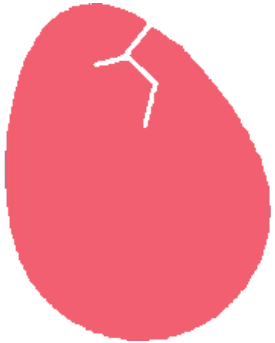

DATA DOZEN

DATA VISUALIZATION EDUCATION

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