

The #DuboisChallenge2023

Anthony Starks

In 1900, it began with them...

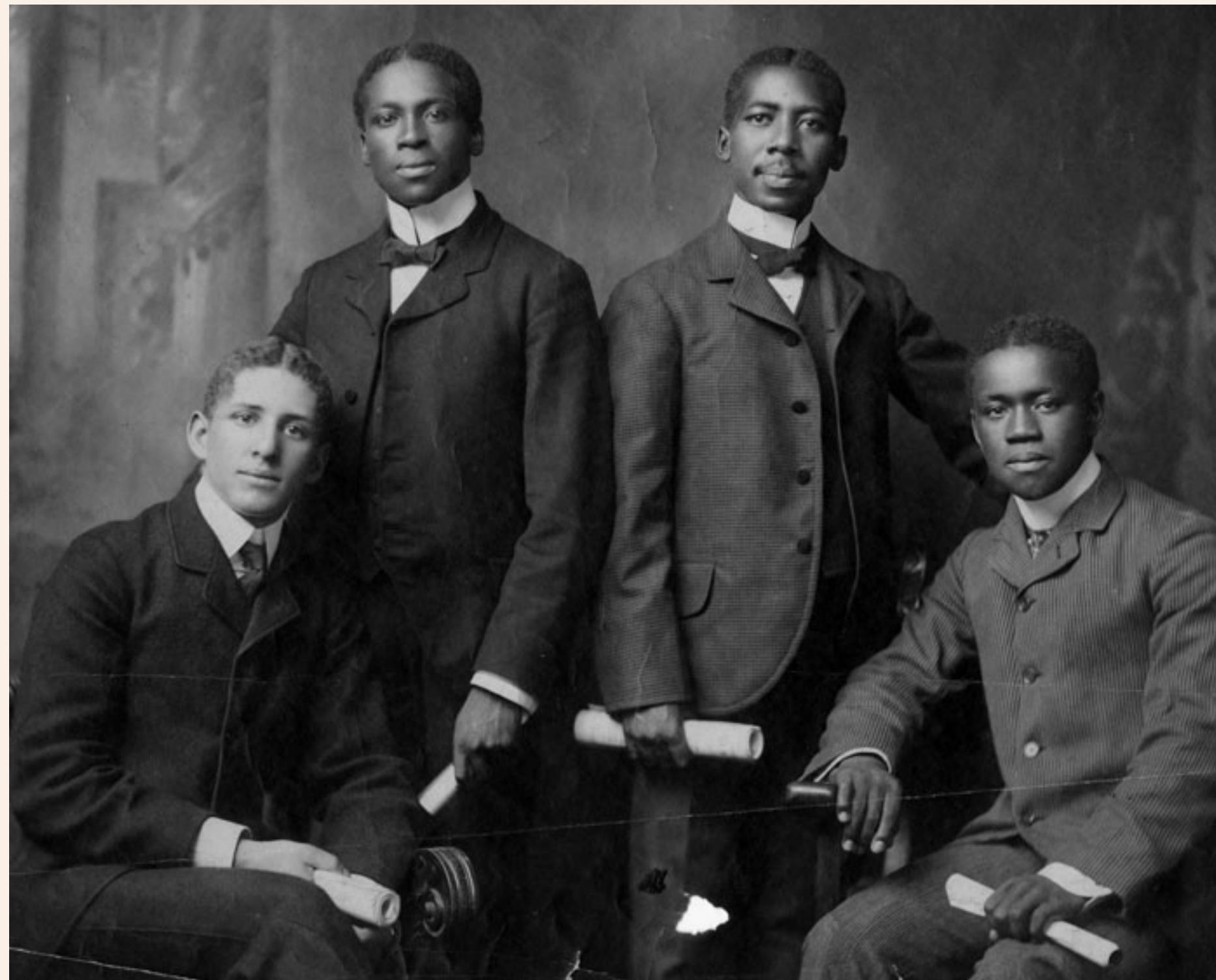


Thomas J. Calloway



Du Bois in Paris

...and Atlanta University



Atlanta University Debating Team, c. 1900



Women seated on steps at Atlanta University c. 1900

Paris 1900



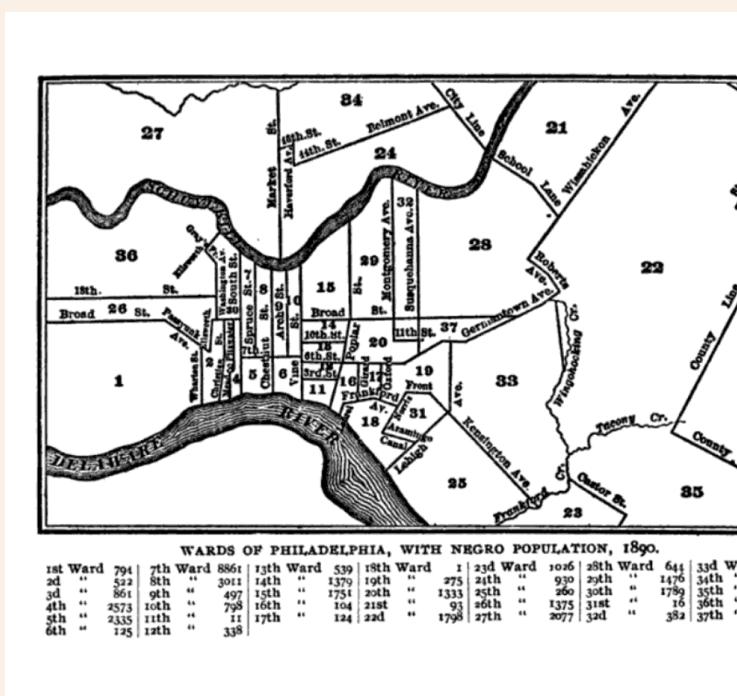
Historical Context



“Black America” Fair



Plessy v. Ferguson



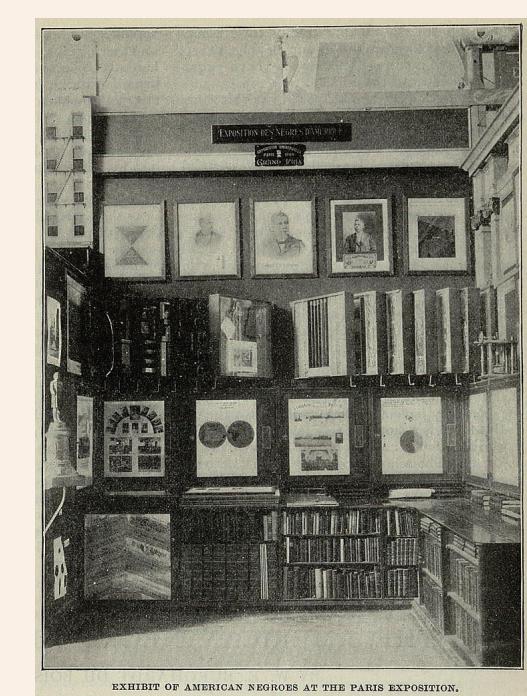
Phila. Negro begins

A WHITE MAN'S DAY.
Eight to Ten Thousand People Out.
TILLMAN MAKES A GREAT SPEECH FOR
DEMOCRACY
Yesterday was a great day for Fayetteville and all this Cape Fear country. It was the occasion of the speaking in behalf of the restoration of white rule in North Carolina by Senator Ben R. Tillman, the Liberator of South Carolina.



Wilmington Overthrow

Lynchings Peak



Paris Exposition

1895

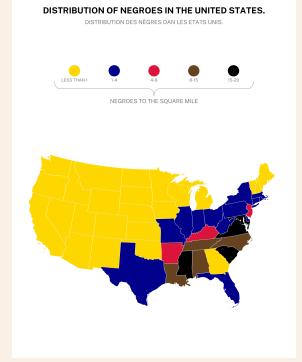
1896

1897

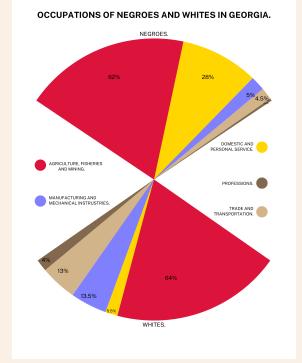
1898

1899

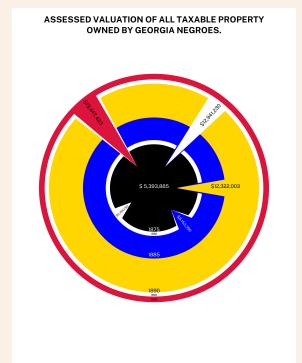
1900



We are here



This is who we are



This is how far we have come

In 2021, it began with them



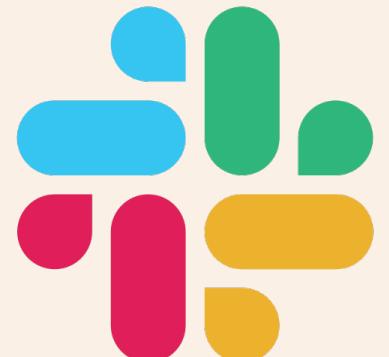
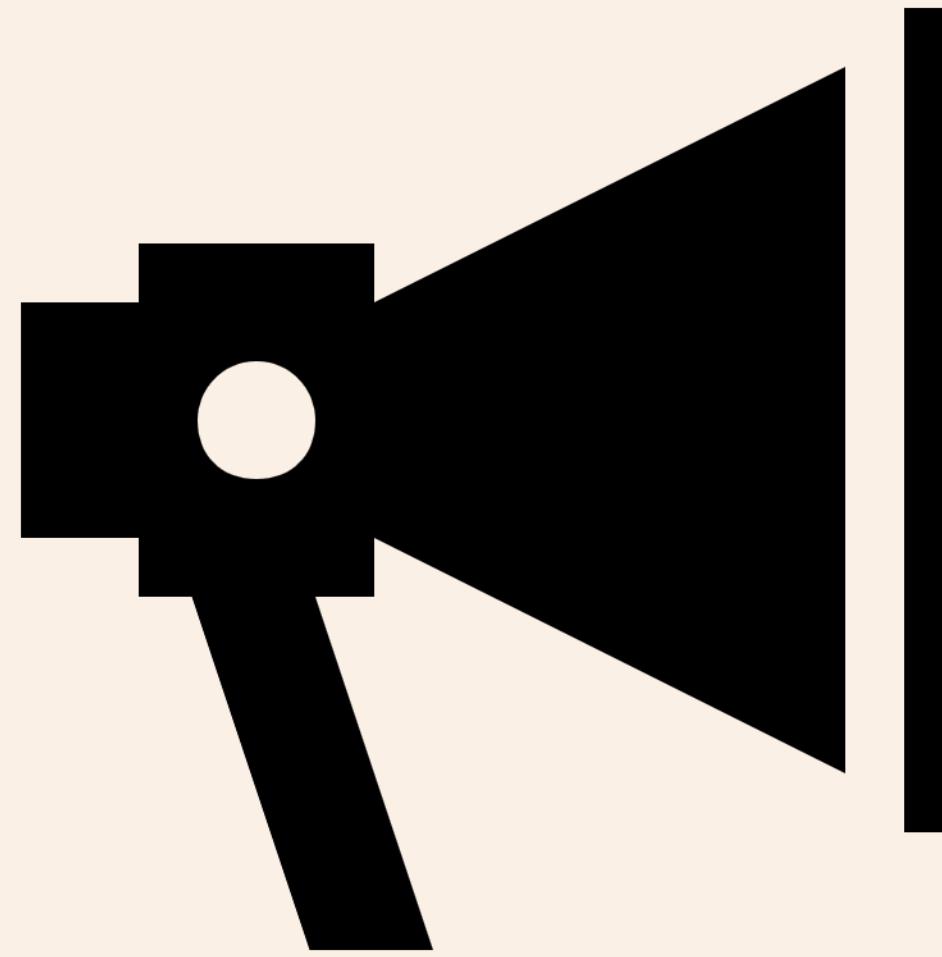
Allen Hillery (@AlDataVizGuy)



Sekou Tyler (@sqlsekou)

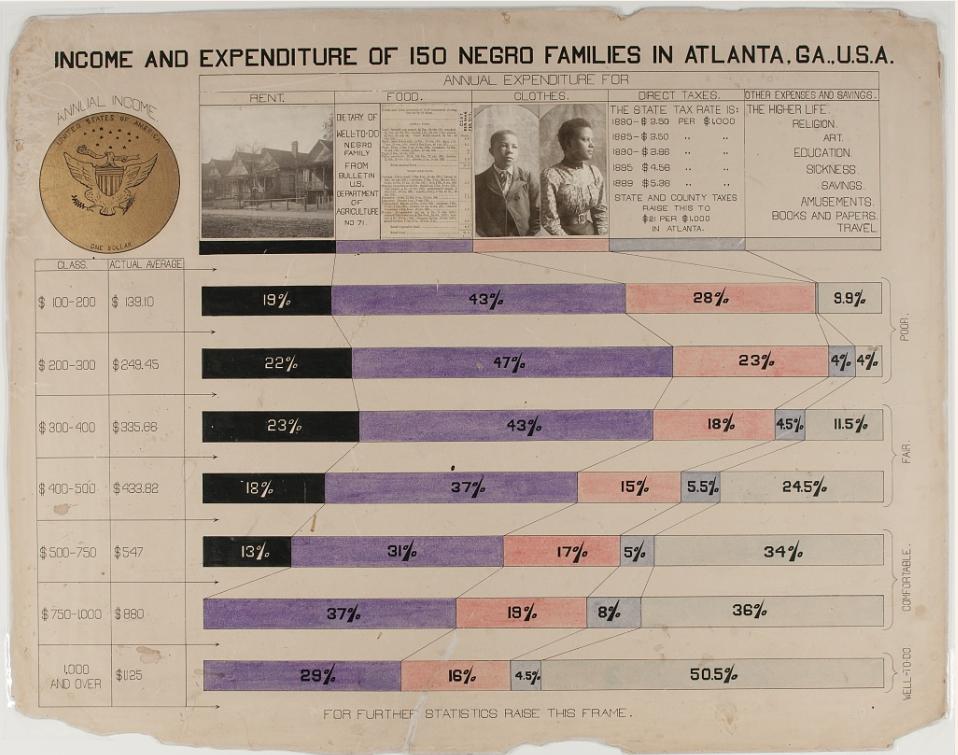
Now: Modern Megaphone

Your Message

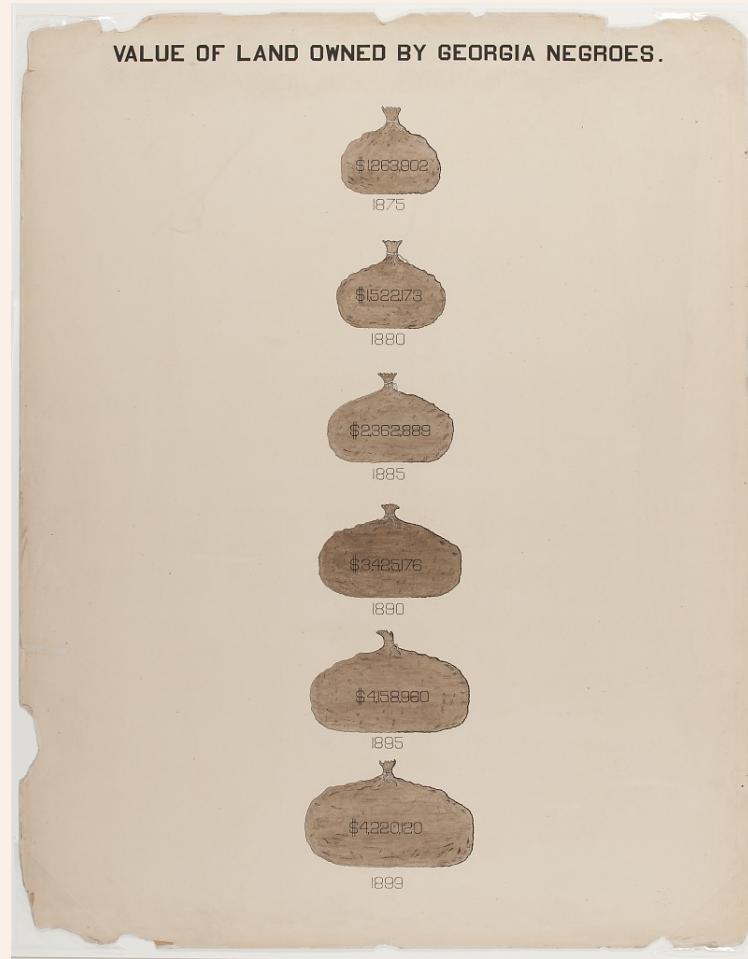


#DuboisChallenge 2023 Entries

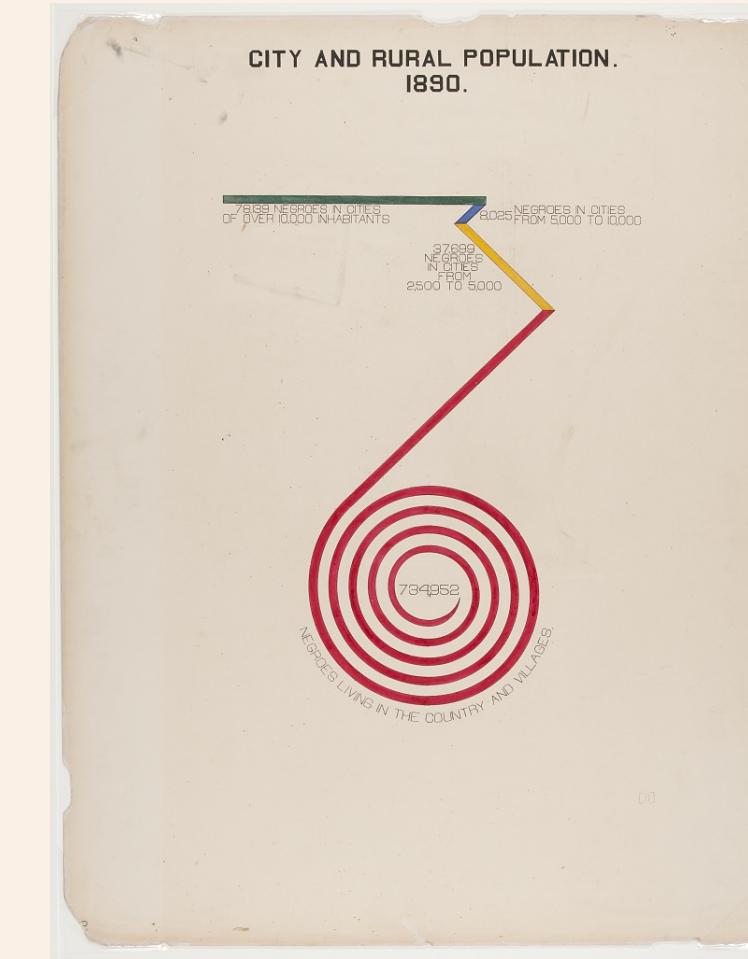
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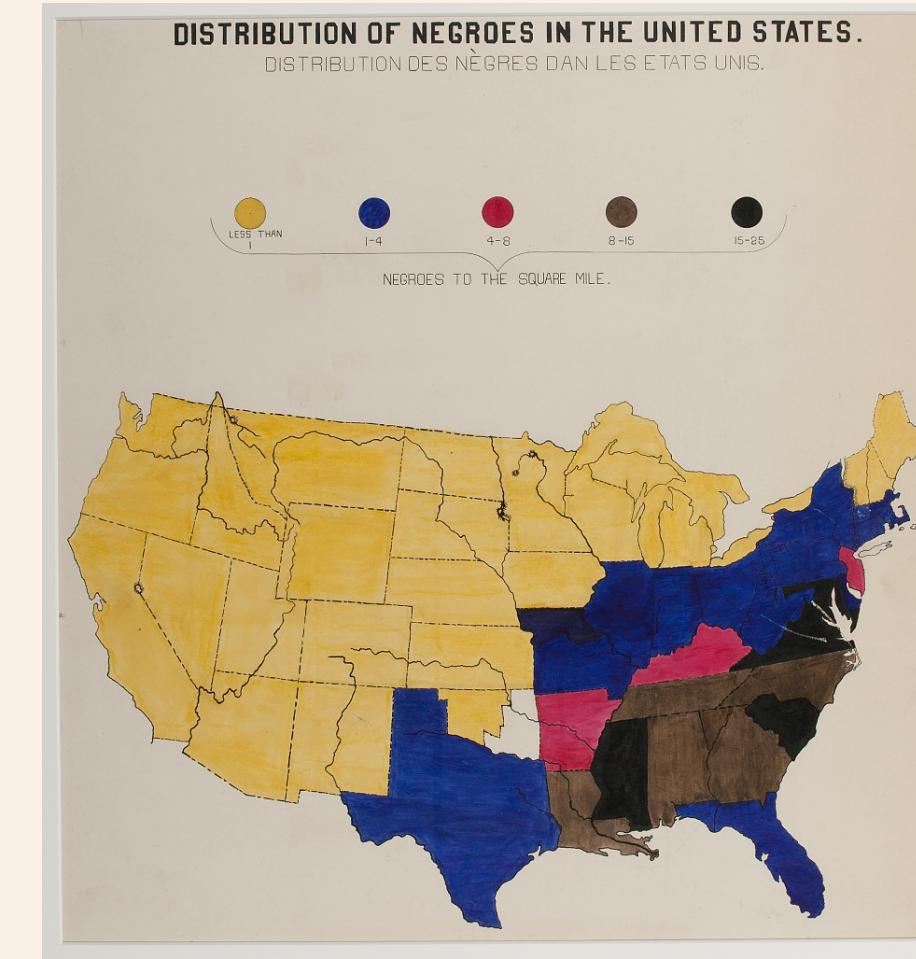
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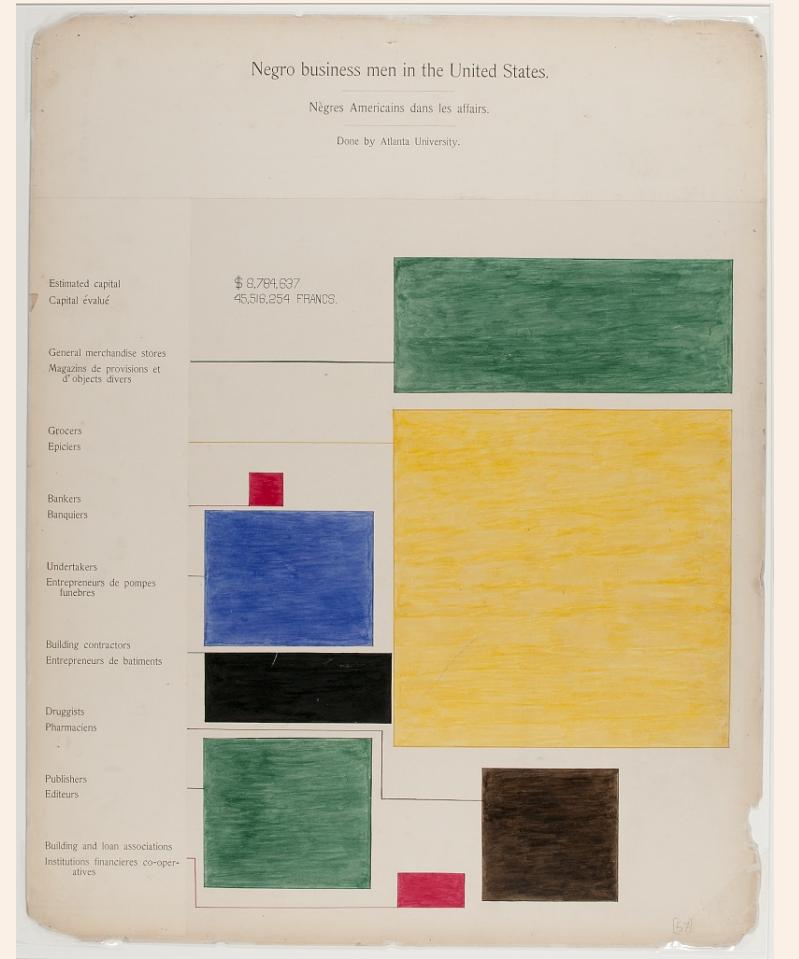
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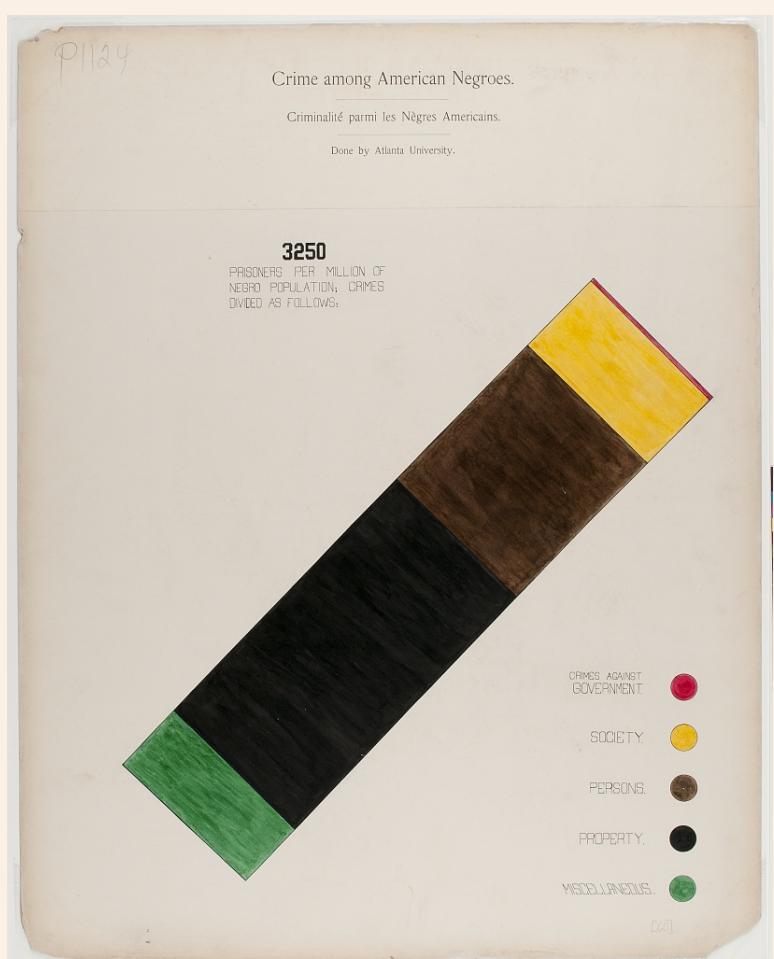
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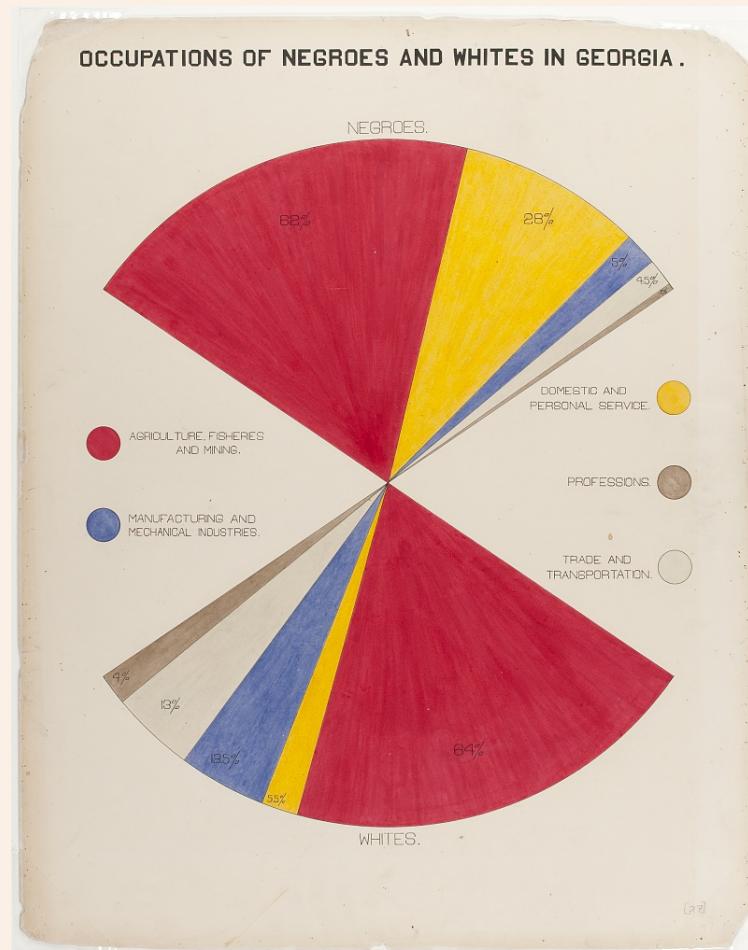
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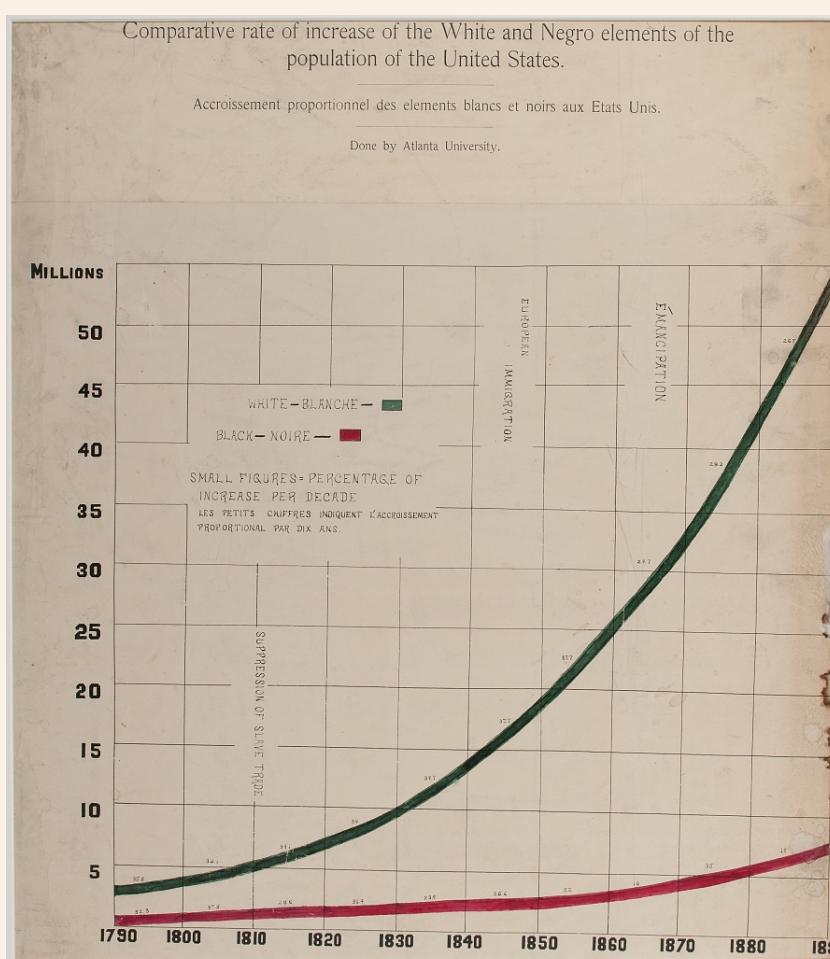
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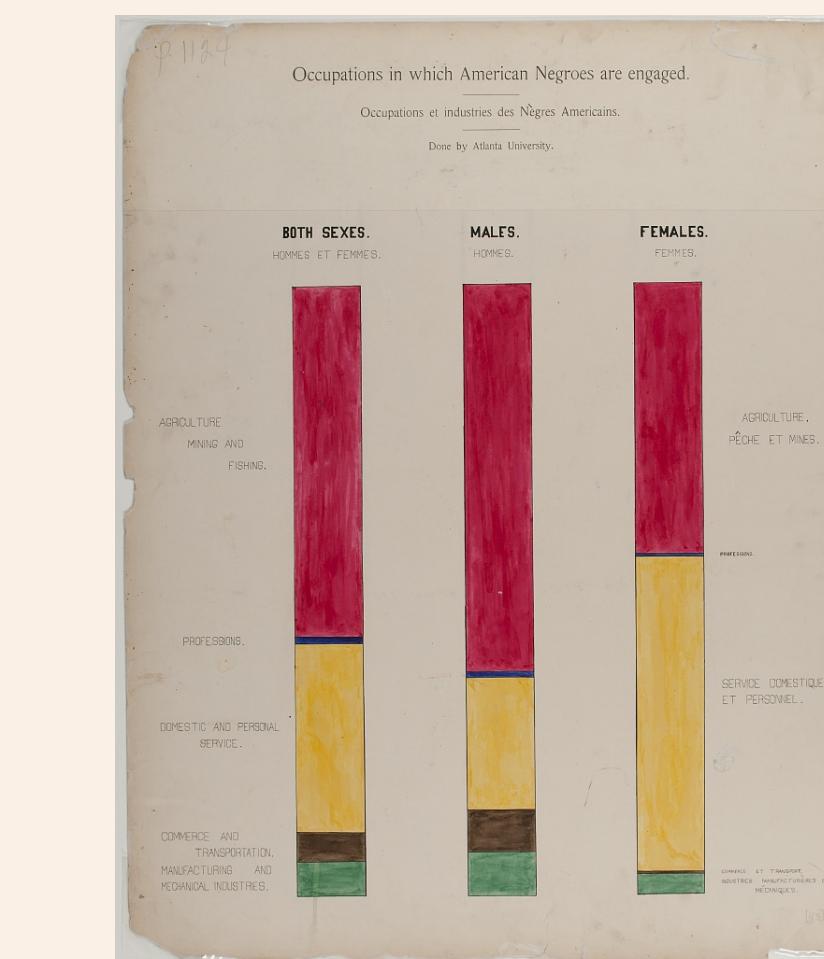
07



08



09



10



Using github

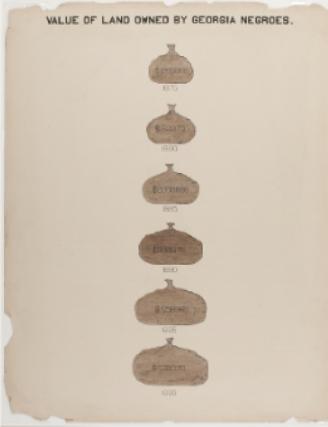
Du Bois Visualization Challenge: 2023

#DuBoisChallenge2023

01



02



03



04



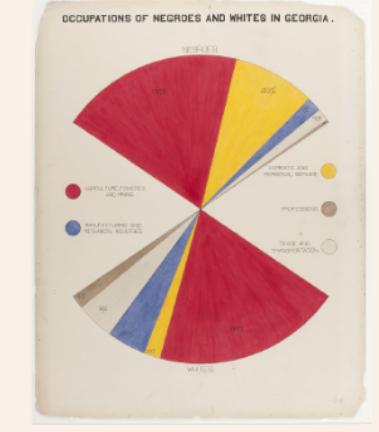
05



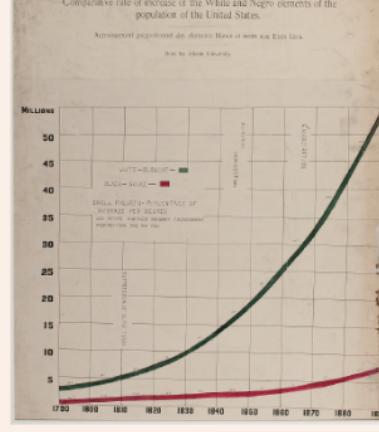
06



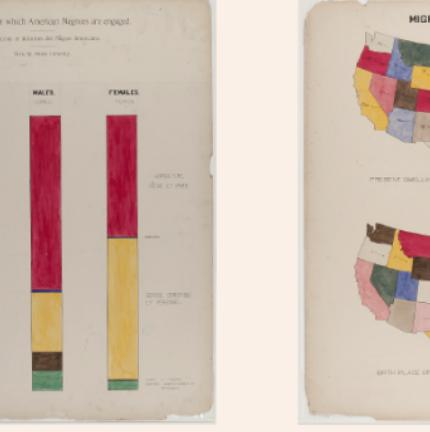
07



08



09



10



The goal of the challenge is to celebrate the data visualization legacy of W.E.B Du Bois by recreating the visualizations from the 1900 Paris Exposition using modern tools.

This directory contains the data and original plates from the exposition; your goal is to re-create the visualizations using modern tools of your choice (Tableau, R, ggplot, Stata, PowerBI, decksh, etc)

There is a folder for each challenge, which includes the images of the 1900 original plates along with the corresponding data. You may submit your re-creations to twitter using the hash tag #DuBoisChallenge2023 .

Note that for 2023, we will expanding the challenge to the Data Visualization Society Slack, as well as Mastadon on vis.social

[dubois-data-portraits / challenge / 2023 / challenge01 / data.csv](#)



ajstarks fix data.csv for challenge01

last month



8 lines (8 loc) • 275 Bytes

Preview

Raw

Search this file

1	Class	Actual Average	Rent	Food	Clothes	Tax	Other
2	\$100-200	139.10	19	43	28	0.1	9.9
3	\$200-300	249.45	22	47	23	4	4
4	\$300-400	335.66	23	43	18	4.5	11.5
5	\$400-500	433.82	18	37	15	5.5	24.5
6	\$500-750	547.00	13	31	17	5	34
7	\$750-1000	880.00	0	37	19	8	36
8	Over \$1000	1125.00	0	29	16	4.5	50.5

The Venues

Twitter



Ícaro Bernardes
@IcaroBSC

This week's #DuBoisChallenge2023 #dataviz shows the number of incarcerated people in Brazil by race (2nd half of 2021). The length of each section is proportional to this number.

I used the #RStats code made by @UST_MSDS to add simulated brushstrokes.

INCARCERATED PEOPLE BY RACE IN BRAZIL (2ND HALF OF 2021).

PERSONNES INCARCÉRÉES PAR RACE AU BRÉSIL (2ÈME SEMESTRE 2021).

INSPIRED BY: W.E.B. DU BOIS | DATA FROM: SENAPPEN AND IBGE | GRAPHIC BY: ÍCARO BERNARDES
Twitter: @IcaroBSC | GitHub: @IcaroBernardes | LinkedIn: @icarobsc



Applied Data Science at IIST @IIST_MSDS - May 5

LinkedIn



Anthony Starks likes this

Ícaro Bernardes • 1st
Data Scientist and co-founder of BIT::Analytics
1w • 5

Continuando a #DuBoisChallenge, essa #dataviz feita em #rstats apresenta o número de pessoas no sistema prisional por raça no Brasil 1º semestre de 2021.
...see more

[See translation](#)



You and 22 others

6 comments

DVS Slack



Tuesday, February 21st

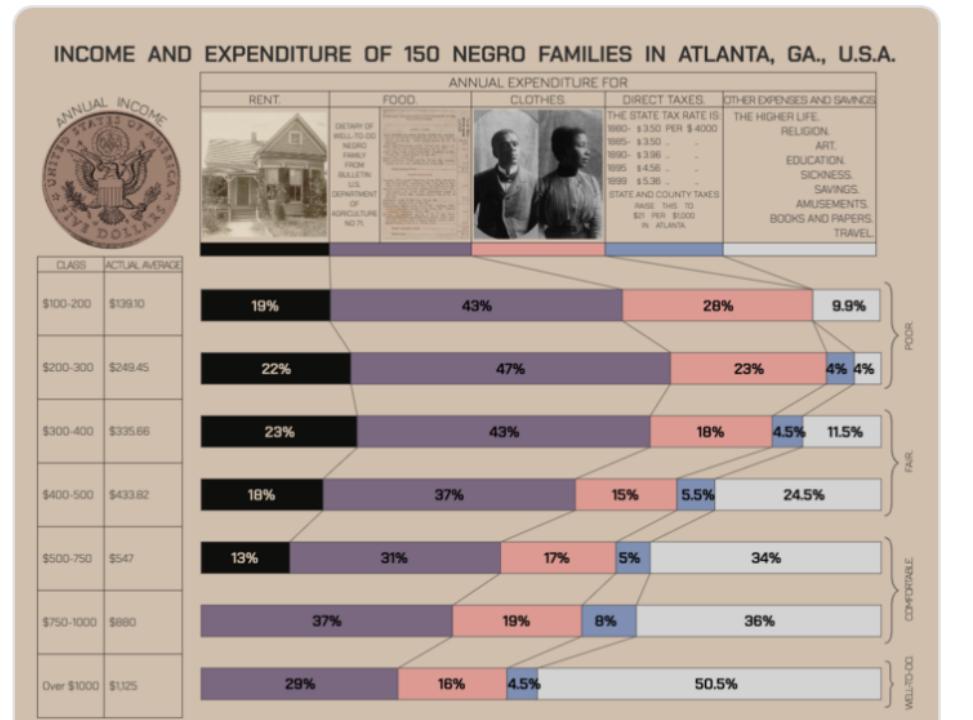
potatodax 🍟 4:03 PM

Took me a minute because I wanted to learn D3 first 😊, but here is my visualization for Challenge 1.

My favorite part of this challenge so far is that it's growing my appreciation for DuBois' Data Portraits (there are so many meticulous details that start to emerge along the way). As for this chart in particular, I love how its legend adds more context beyond just labels for each color.

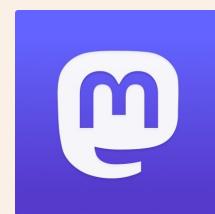
Made with: D3, JavaScript, HTML, CSS, Figma, Google Fonts (edited)

Screenshot 2023-02-21 at 2.43.29 PM.png ▾



7 3 1 1 reply 1 month ago

Mastodon



Anthony Starks
@ajstarks

Feb 7

For the first week of #DuboisChallenge2023 "Income and Expenditure of 150 Negro Families in Atlanta, Ga., USA. The chart shows how economic groups divide their incomes among rent, food, clothes, taxes, and other)



1

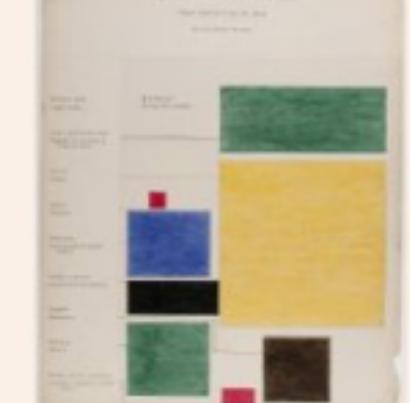
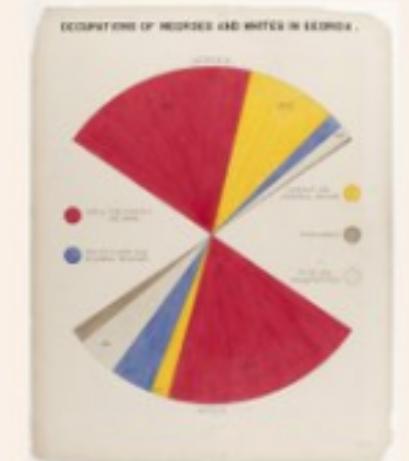
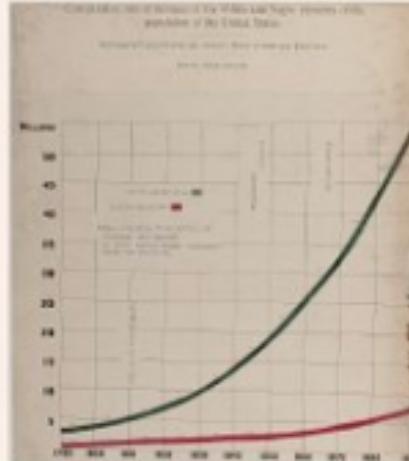
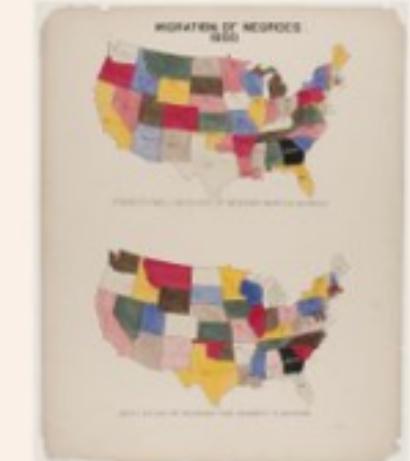


The Announcement

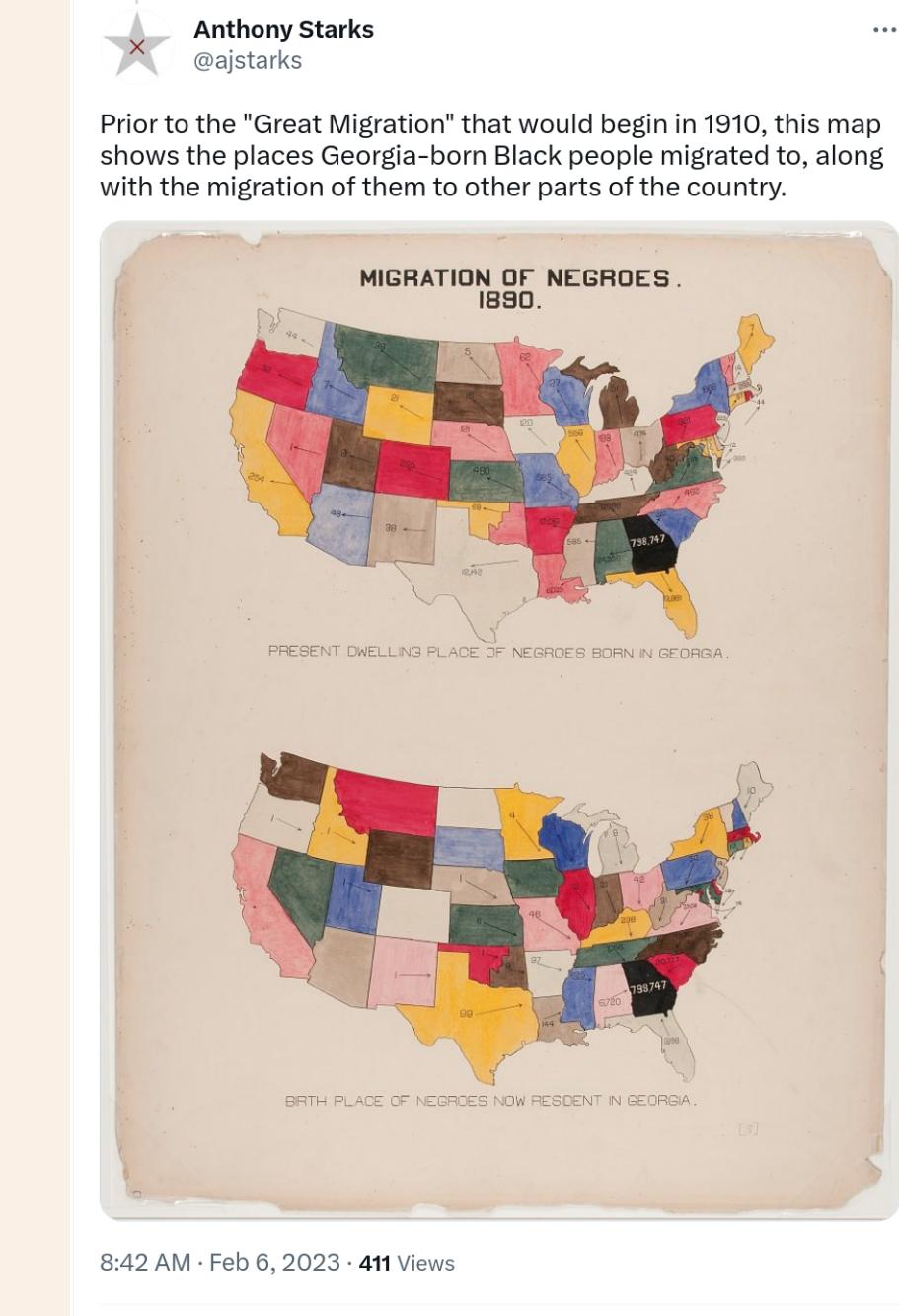
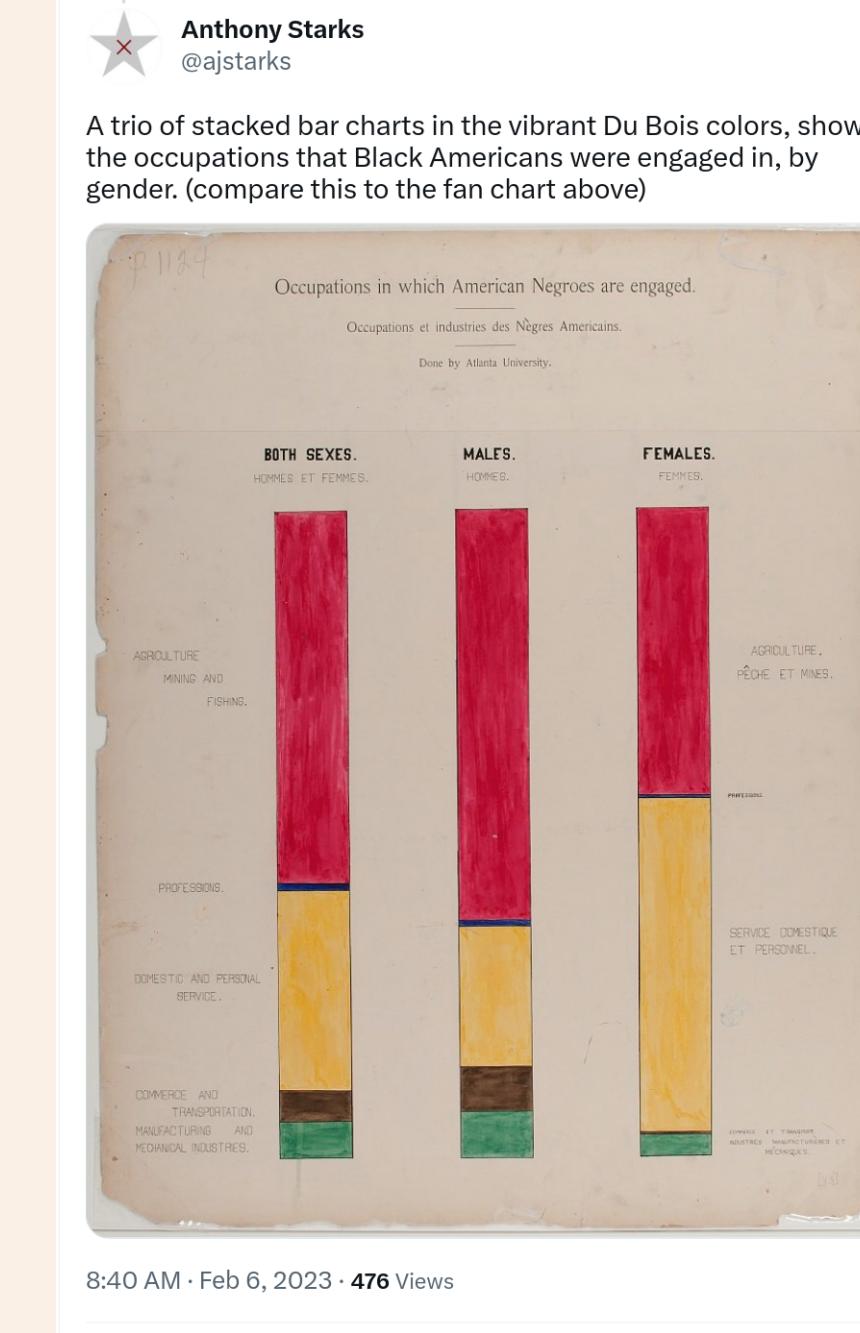
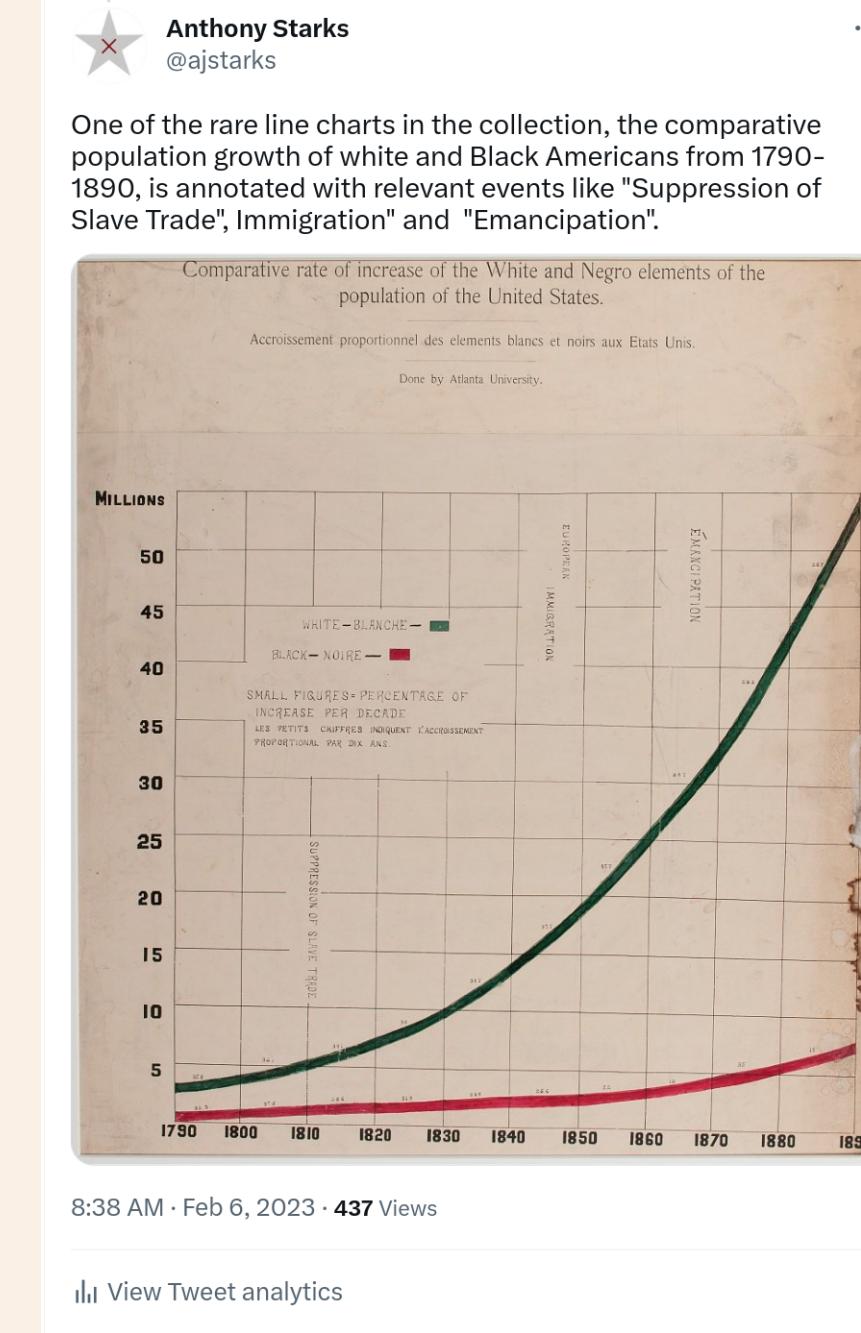
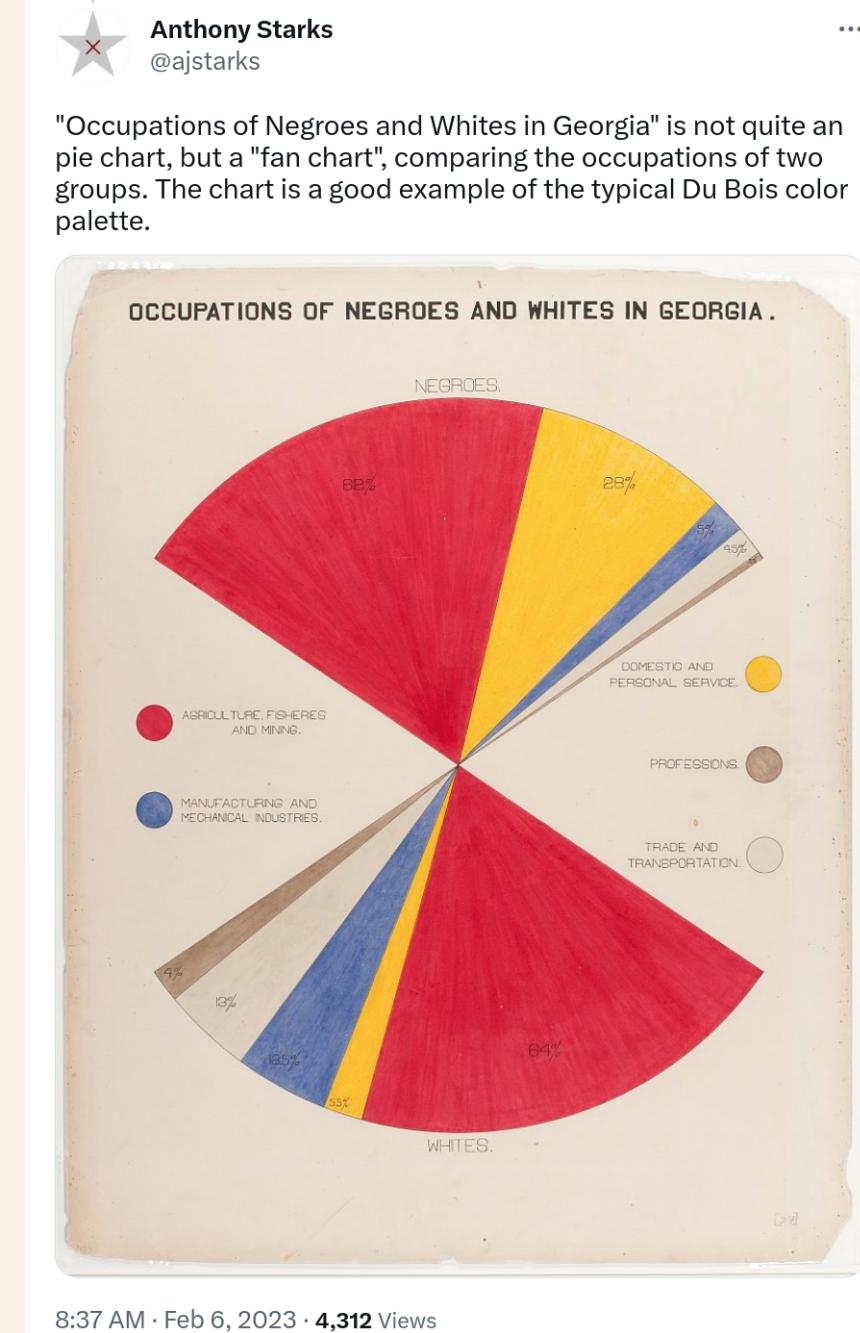
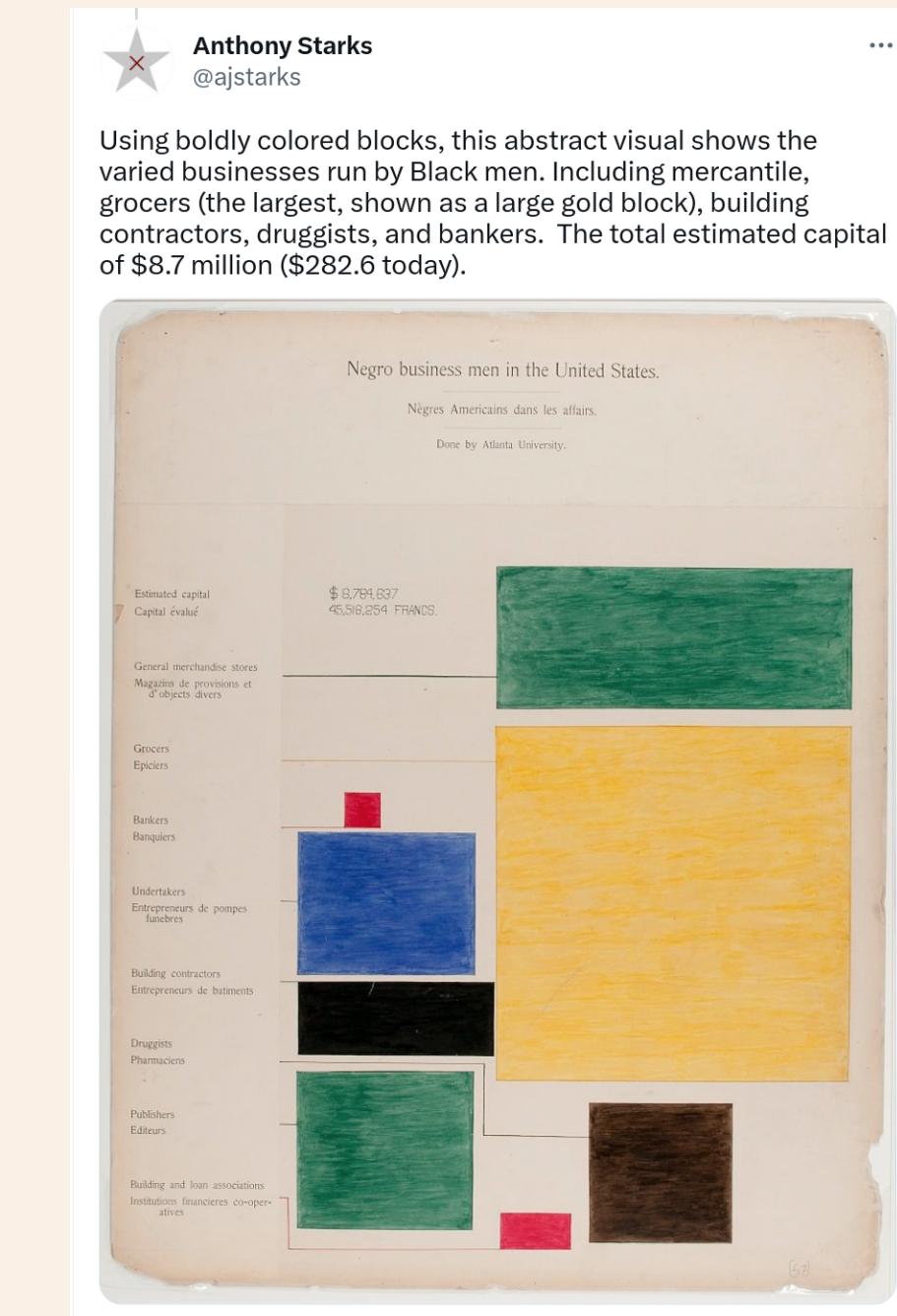
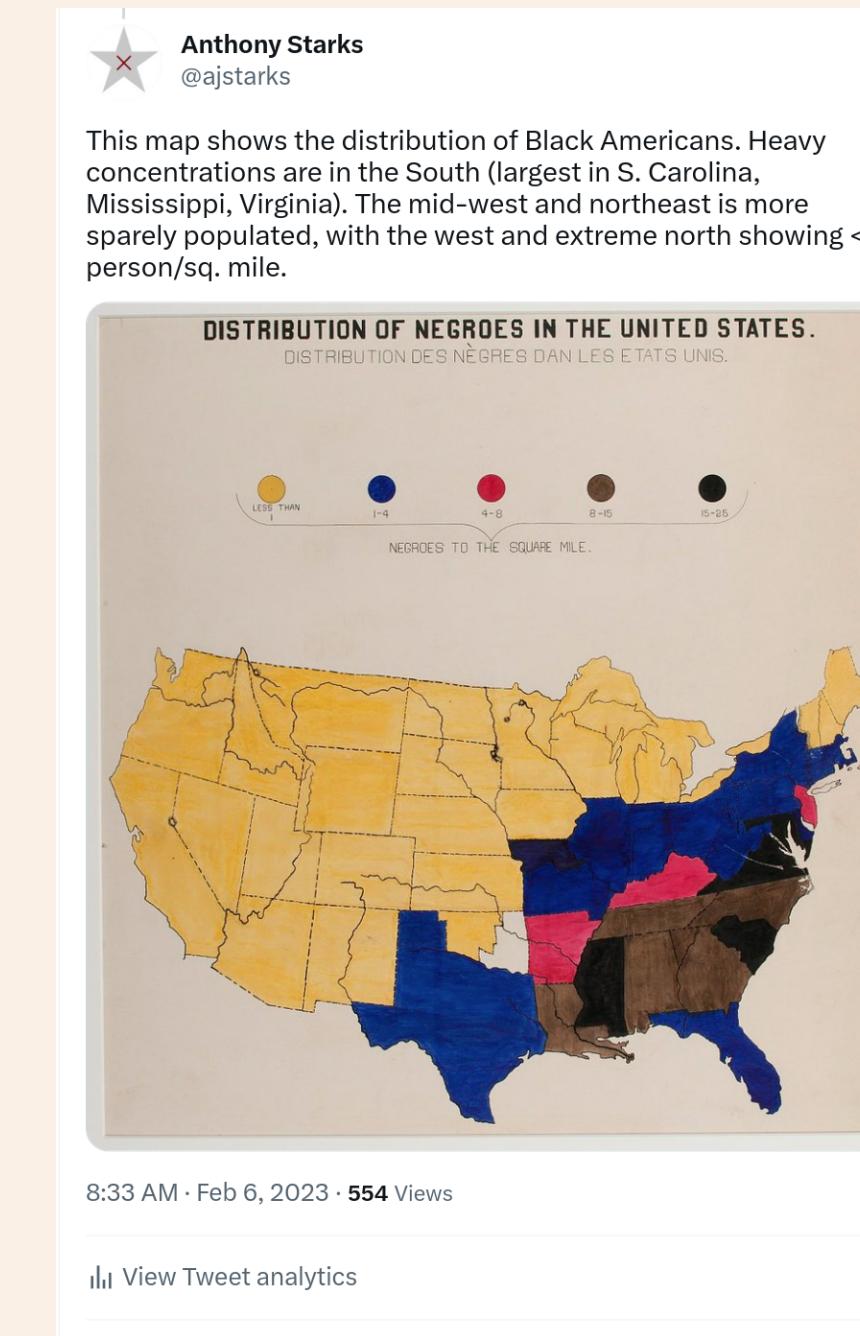
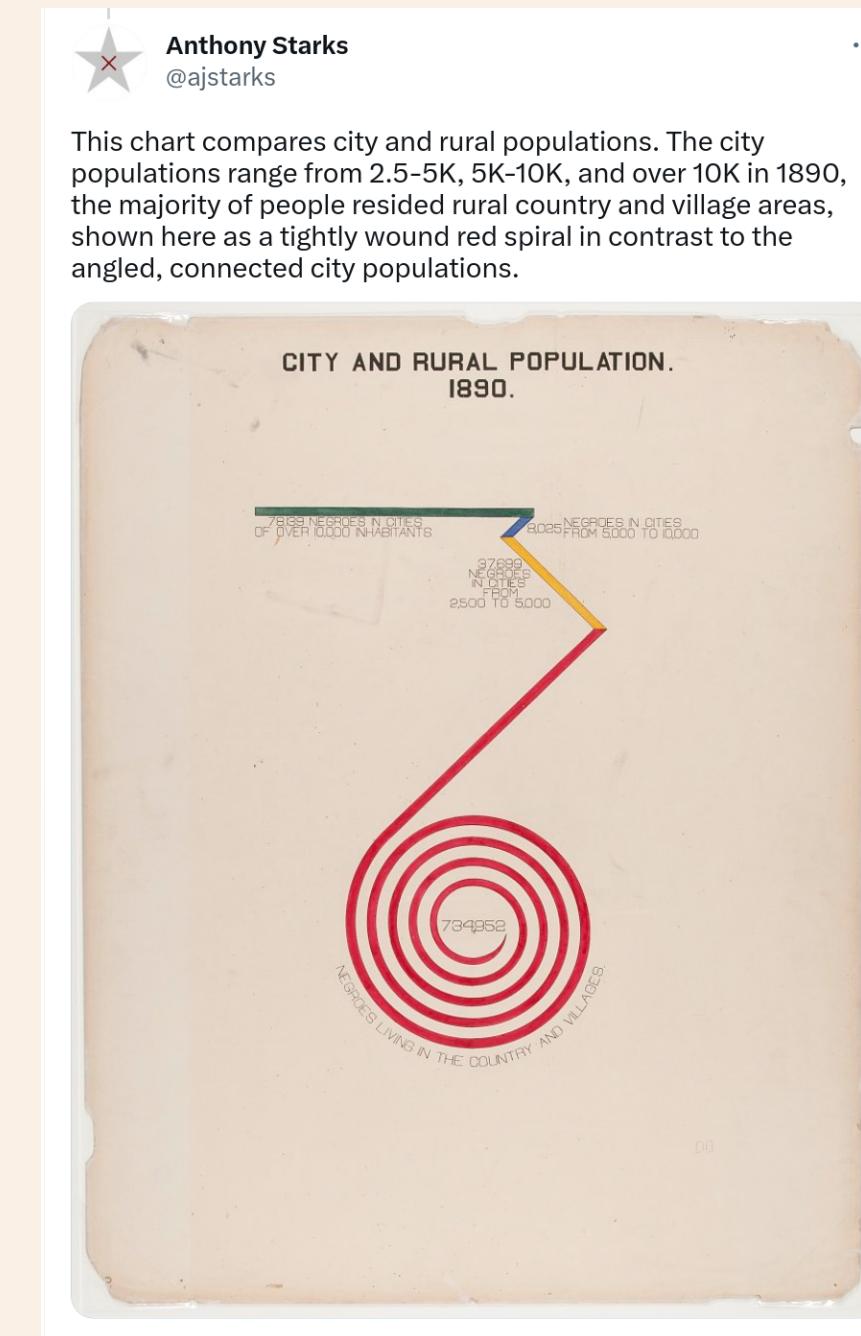
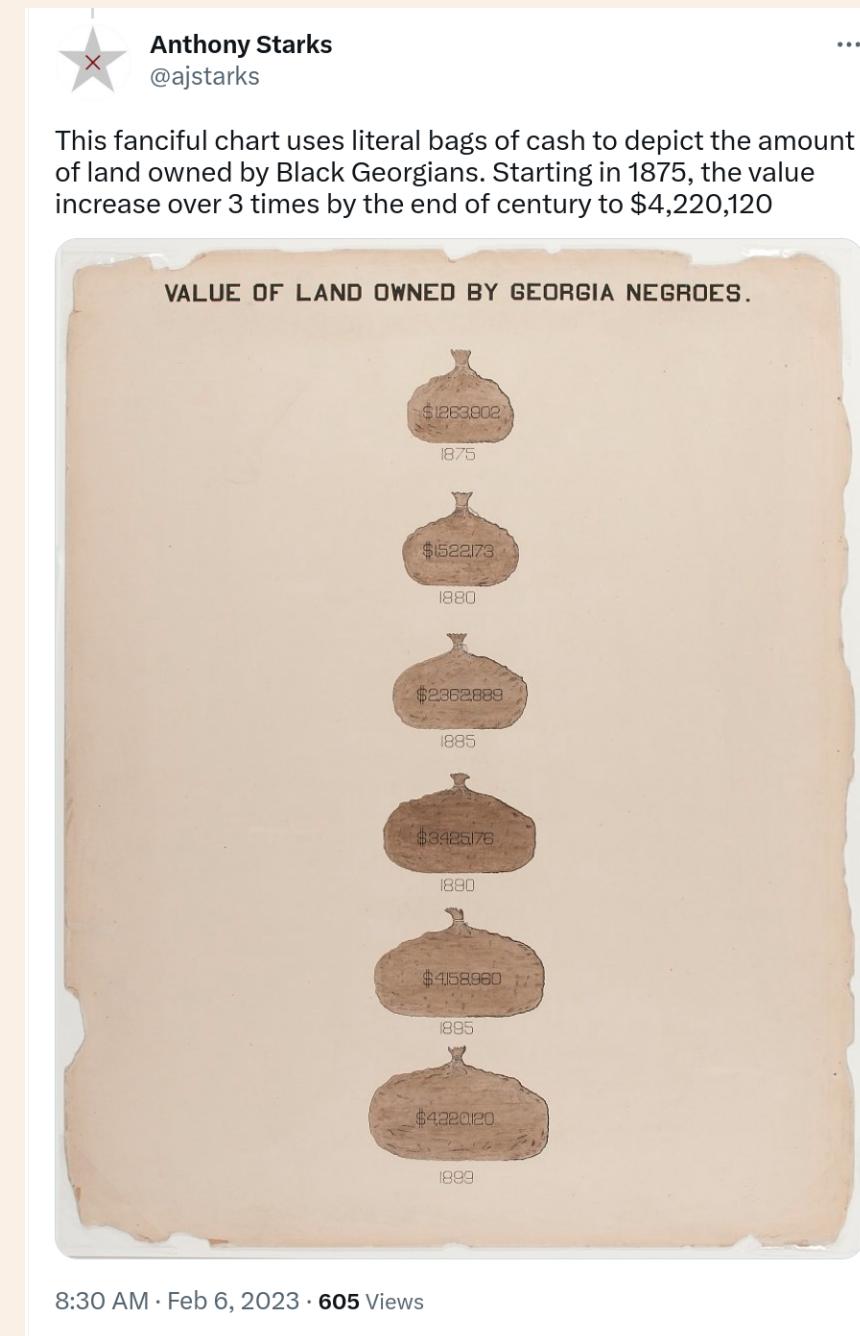
 Anthony Starks
@ajstarks ...

Welcome to the [#DuboisChallenge2023](#), where we ask the community over 10 weeks to recreate the visuals of W.E.B Du Bois from the Paris Expo of 1900. In this thread, I'll describe each visual.
see: github.com/ajstarks/duboi...

#DuBoisChallenge2023

01	02	03	04	05
				
06	07	08	09	10
 ALT				

8:28 AM · Feb 6, 2023 · 35.7K Views



Toochukwu Ifezie [@TIfizeie37321](#)

Hi everyone! My name is Toochukwu Ifezie, and I am participating in the #DuBoisChallenge2023 as part of my Data Science for Social Justice class at Fisk University. My data shows the income and expenditure of 150 black families in Atlanta GA.

INCOME AND EXPENDITURE OF 150 BLACK FAMILIES IN ATLANTA, GA., U.S.A.

8:20 PM · Mar 14, 2023 · 840 Views

2 Retweets 2 Quotes 13 Likes 1 Bookmark

ícaro Bernardes [@IcaroBSC](#)

This week's #DuBoisChallenge2023 #dataviz shows the number of incarcerated people in Brazil by race (2nd half of 2021). The length of each section is proportional to this number. I used the #RStats code made by @UST_MSDS to add simulated brushstrokes.

INCARCERATED PEOPLE BY RACE IN BRAZIL (2ND HALF OF 2021).

3664 PRISONERS PER MILLION OF BLACK POPULATION.

INSPIRED BY: W.E.B. DU BOIS | DATA FROM: SENAPPEN AND IBGE | GRAPHIC BY: ÍCARO BERNARDES
@IcaroBSC | @IcaroBernardes | @icarobsc

DATA: 2011 ROMANIAN CENSUS (AGE: 10+)
#DUBOISCHALLENGE2023 - @ARNOLD_PLATON

Applied Data Science at UST @UST_MSDS · Mar 5

Klaus Schulte [@ProfDrKSchulte](#)

My take on Challenge 2 of the #DuBoisChallenge2023. I twisted the original a little bit and leveraged @ladataviz's Beeswarm Generator, created a custom shape, and transformed everything to a unit chart. Viz on @tableaupublic : [@ajstarks](https://tableaupublic.com/eXg-ekuY)

VALUE OF LAND OWNED BY BLACK PEOPLE IN GEORGIA.

8:12 AM · Feb 11, 2023 · 2,681 Views

2 Retweets 35 Likes 1 Bookmark

Arnold Platon [@Arnold_Platon](#)

Third #DuBoisChallenge2023 chart, this time looking at the differences in educational attainment between the Roma minority and wider 🇷🇴 Romanian society. A shocking difference. 🤯

EDUCATIONAL ATTAINMENT OF THE ROMA AND GADJE (NON-ROMA) IN ROMANIA

3664 PRISONERS PER MILLION OF BLACK POPULATION.

INSPIRED BY: W.E.B. DU BOIS | DATA FROM: SENAPPEN AND IBGE | GRAPHIC BY: ÍCARO BERNARDES
@IcaroBSC | @IcaroBernardes | @icarobsc

DATA: 2011 ROMANIAN CENSUS (AGE: 10+)
#DUBOISCHALLENGE2023 - @ARNOLD_PLATON

ícaro Bernardes [@IcaroBSC](#)

Another #dataviz work made in #RStats for the #DuBoisChallenge2023. It shows the tragic number of homicide victims in Brazil by sex and race (2020). Black men alone are the target of more than 70 percent of these crimes. More than half of them have ages between 15-29.

HOMICIDE VICTIMS BY RACE AND SEX.

DEATHS IN BRAZIL IN 2020.

INSPIRED BY: W.E.B. DU BOIS | DATA FROM: IBGE | GRAPHIC BY: ÍCARO BERNARDES
@IcaroBSC | @IcaroBernardes | @icarobsc

2,570 BLACK WOMEN WERE VICTIMS OF HOMICIDE
1125 WHITE WOMEN WERE VICTIMS OF HOMICIDE
9,165 WHITE MEN WERE VICTIMS OF HOMICIDE
35,242 BLACK MEN WERE VICTIMS OF HOMICIDE

9:47 AM · Feb 24, 2023 · 7,144 Views

16 Retweets 2 Quotes 65 Likes 5 Bookmarks

becca b. [@geeky_bb](#)

#DuBoisChallenge2023 @tableaupublic

Link: tinyurl.com/4nme5ny9

Comparative population growth of white and Black Americans between 1790-1890.

MILLIONS

SMALL FIGURES = PERCENTAGE OF INCREASE PER DECADE

1790 1800 1810 1820 1830 1840 1850 1860 1870 1880 1890

Original data visualization: W.E.B. Du Bois
Modern recreation: Becca Basin
#DuBoisChallenge2023

9:42 PM · Feb 16, 2023 · 1,130 Views

2 Retweets 1 Quote 11 Likes

Hemed [@725Hemed](#)

My Adaptation entry for #DuBoisChallenge2023 by @DataVizSociety A Map showing Distribution Of Black Americans created in #QGIS. #dataviz #DataVisualization #gischat #geospatial @DuBoisChallenge

DISTRIBUTION OF BLACK AMERICANS IN UNITED STATES

RÉPARTITION DES NOIR-AMÉRICAINS AUX ÉTATS-UNIS

Black americans to square miles

ALT

11:29 AM · Feb 10, 2023 · 2,577 Views

8 Retweets 30 Likes

Patrick Stephenson [@stepminer2](#)

Another entry, this time for week 9 of #DuBoisChallenge2023. It is a reproduction of DuBois' Occupation of Blacks in the United States. #Rstats #blackhistorymonth2023.

Occupations in which American Negroes are engaged

BOTH SEXES HOMMES ET FEMMES MALES HOMMES FEMALES FEMMES

Agriculture, Mining and Fishing
Professions
Domestic and Personal Service
Commerce and Transportation
Mechanical Industries
Service Domestique et Personnel

Done by Atlanta University

Data : DuBoisChallenge2023 | Viz : @stepminer2

6:17 PM · Mar 11, 2023 · 998 Views

3 Retweets 9 Likes

Applied Data Science at UST [@UST_MSDS](#)

#DuBoisChallenge2023 week 5 using ggplot. Code available at github.com/follisj/DuBois..

Negro business men in the United States.
Nègres Américains dans les affaires.

Done by Atlanta University

Estimated capital Capital évalué
General merchandise stores Magasins de marchandise d'objets divers
Groceries Epicerie
Bankers Banquiers
Undertakers Entrepreneurs de pompes funèbres
Building contractors Entrepreneurs de bâtiments
Druggists Pharmaciens
Publishers Editeurs
Building and loan associations Institutions financières co-opératives

1:19 PM · Mar 5, 2023 · 3,645 Views

3 Retweets 1 Quote 14 Likes 3 Bookmarks

Patrick Stephenson [@stepminer2](#)

I finally found time to complete part 2 of #DuBoisChallenge2023 Challenge 10. The arrow angles are approximate, I gave up calculating precise angles, and my coding and math skills are limited. #Rstats #patchwork #blackhistorymonth2023.

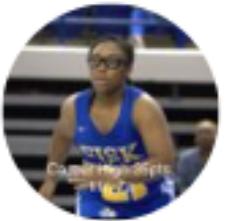
MIGRATION OF NEGROES. 1890.

PRESENT DWELLING PLACE OF NEGROES BORN IN GEORGIA
BIRTHPLACE OF NEGROES NOW RESIDENT IN GEORGIA

12:34 AM · Mar 10, 2023 · 933 Views

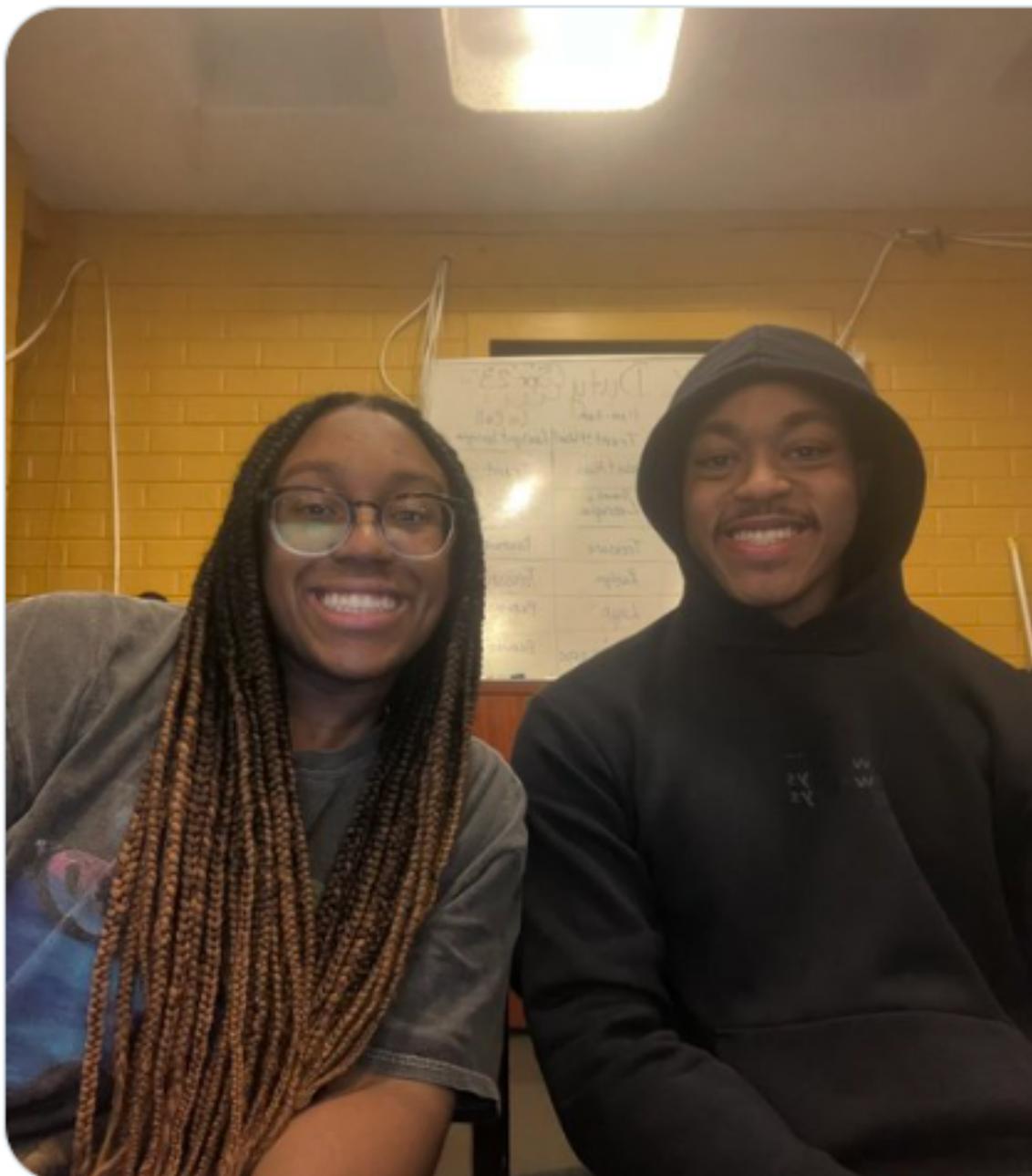
3 Retweets 11 Likes

Fisk Students



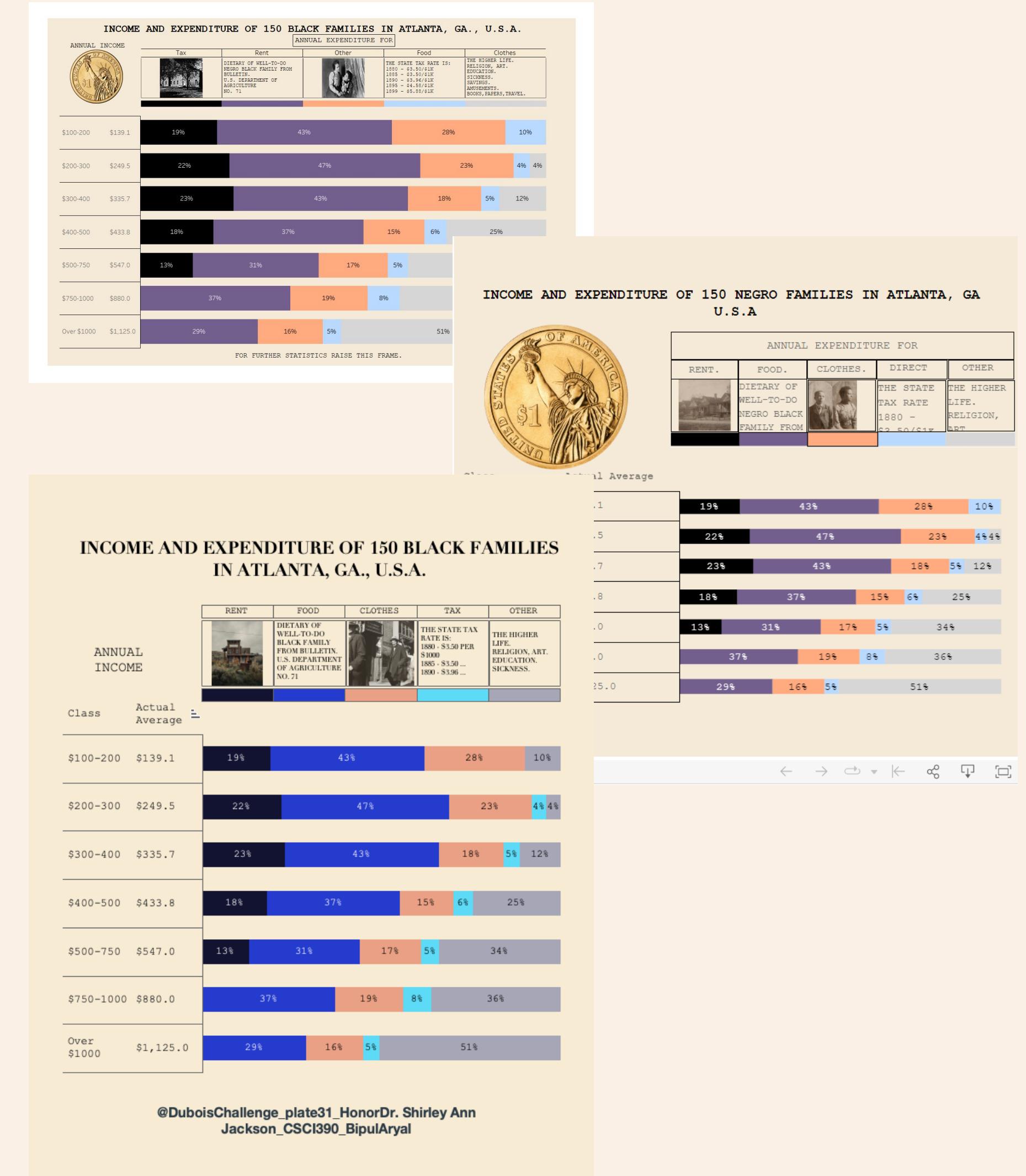
Laila Eliotti
@only1_laila

Trent and I just finished challenge 1 of the
[#DuboisChallenge2023!](#) @lena_is_light



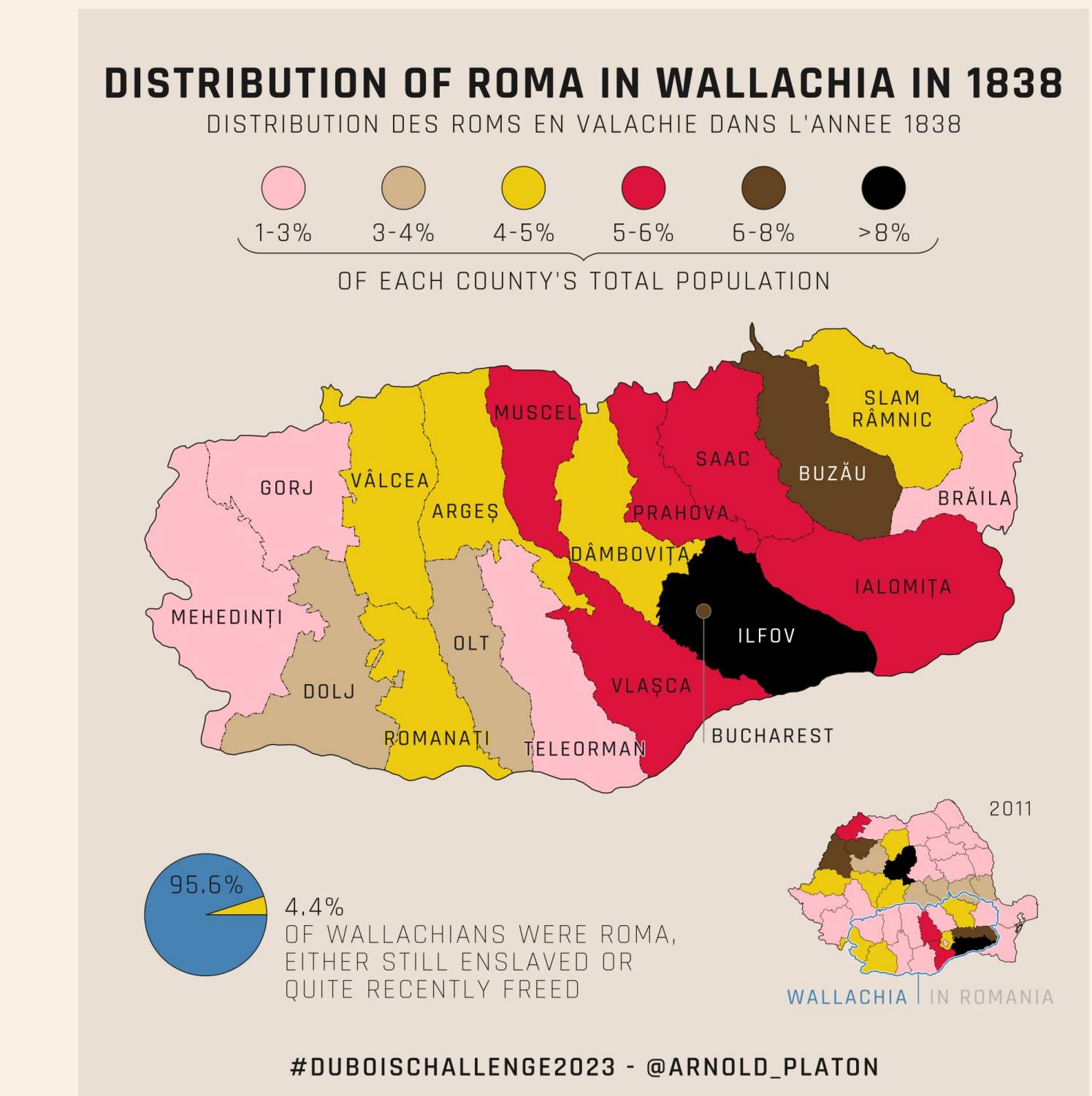
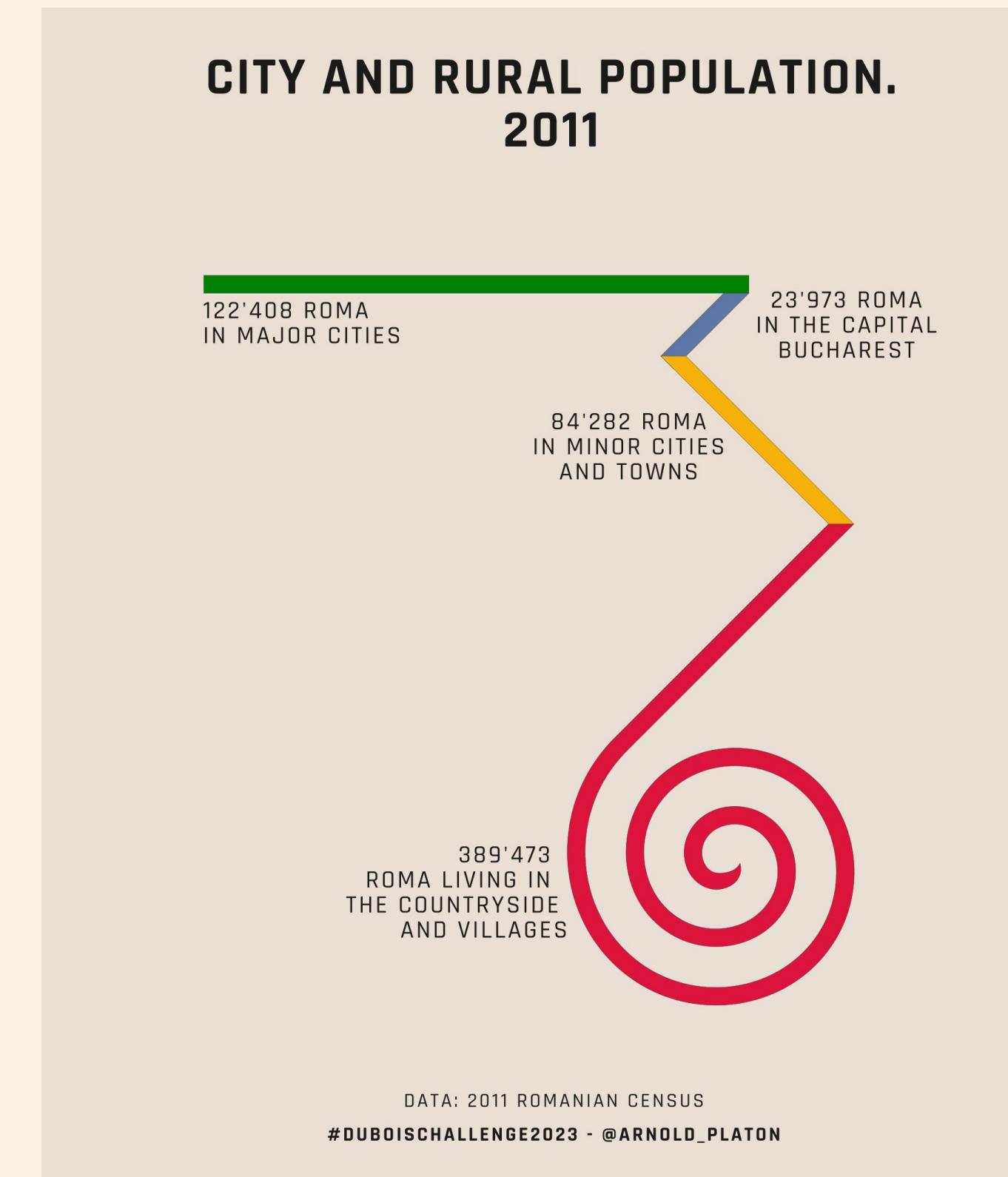
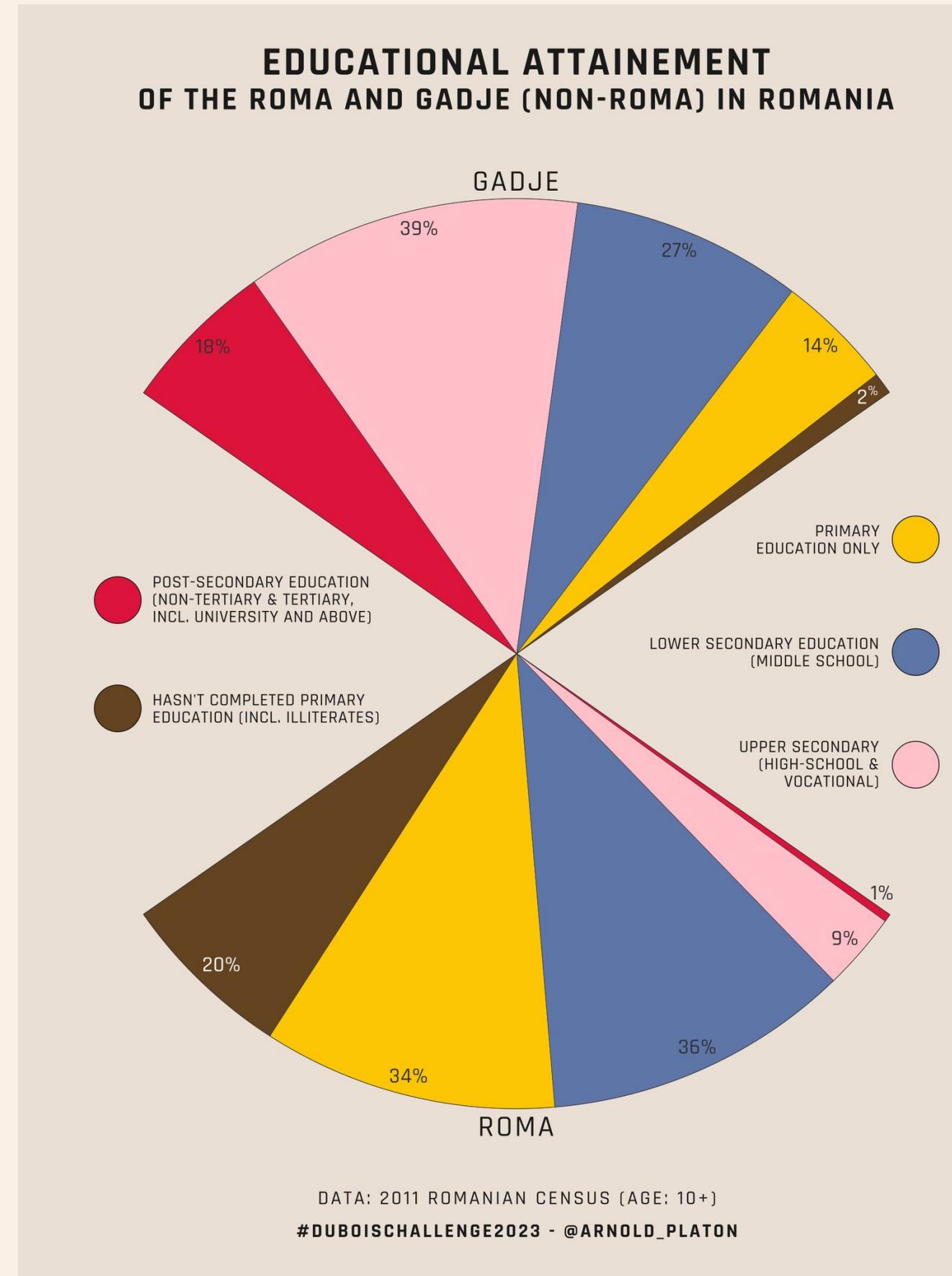
11:10 PM · Feb 15, 2023 · 1,905 Views

5 Retweets 1 Quote 16 Likes



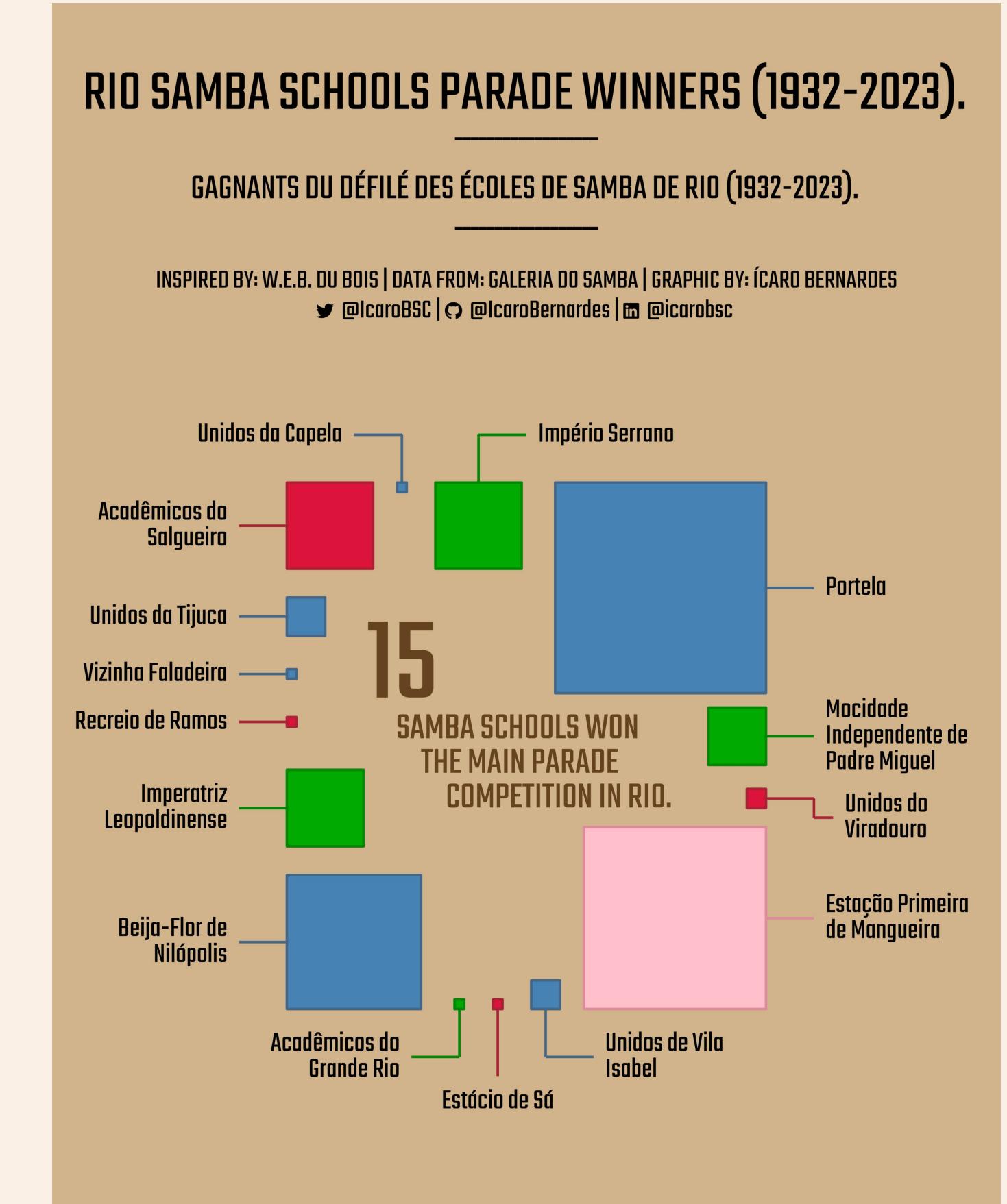
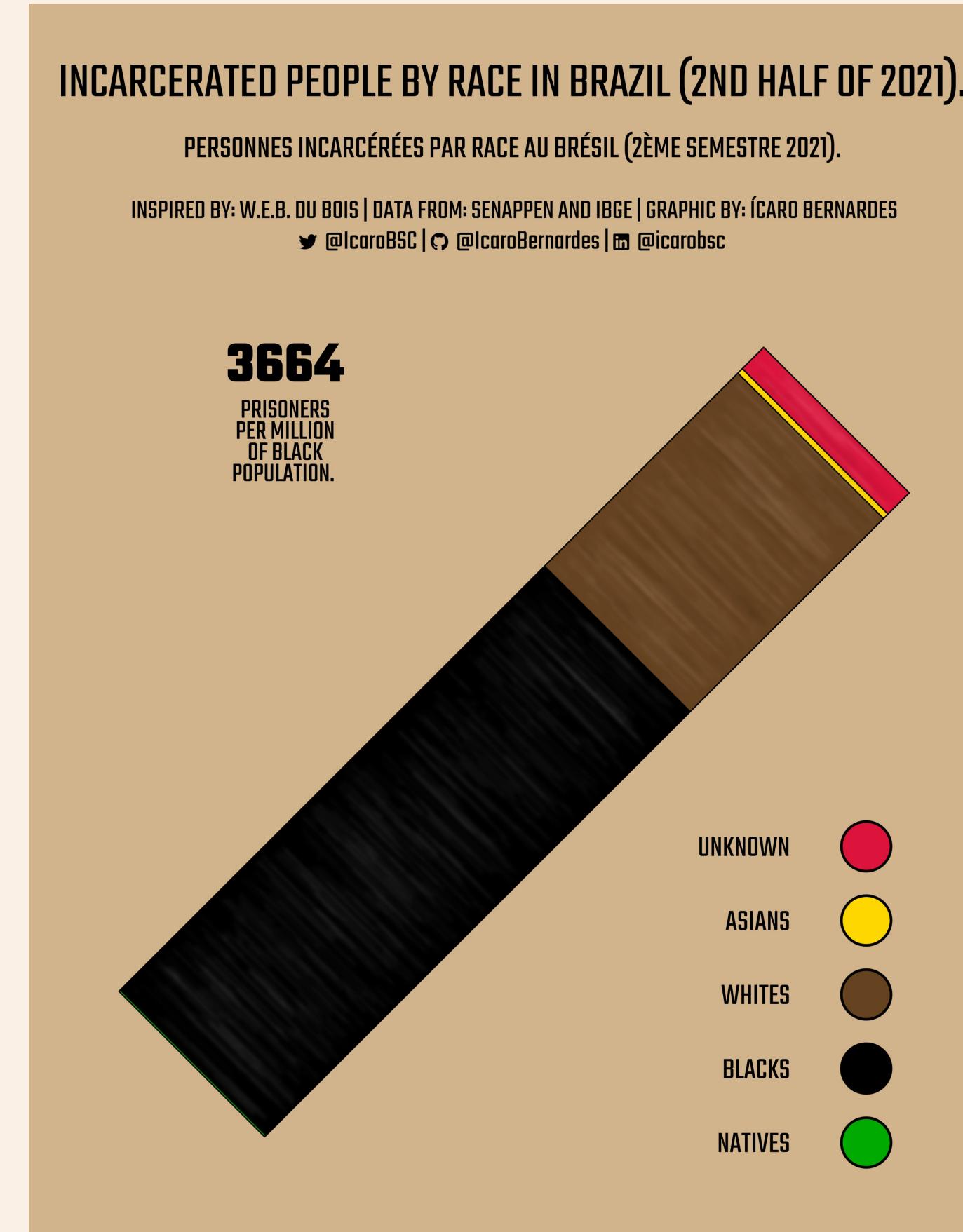
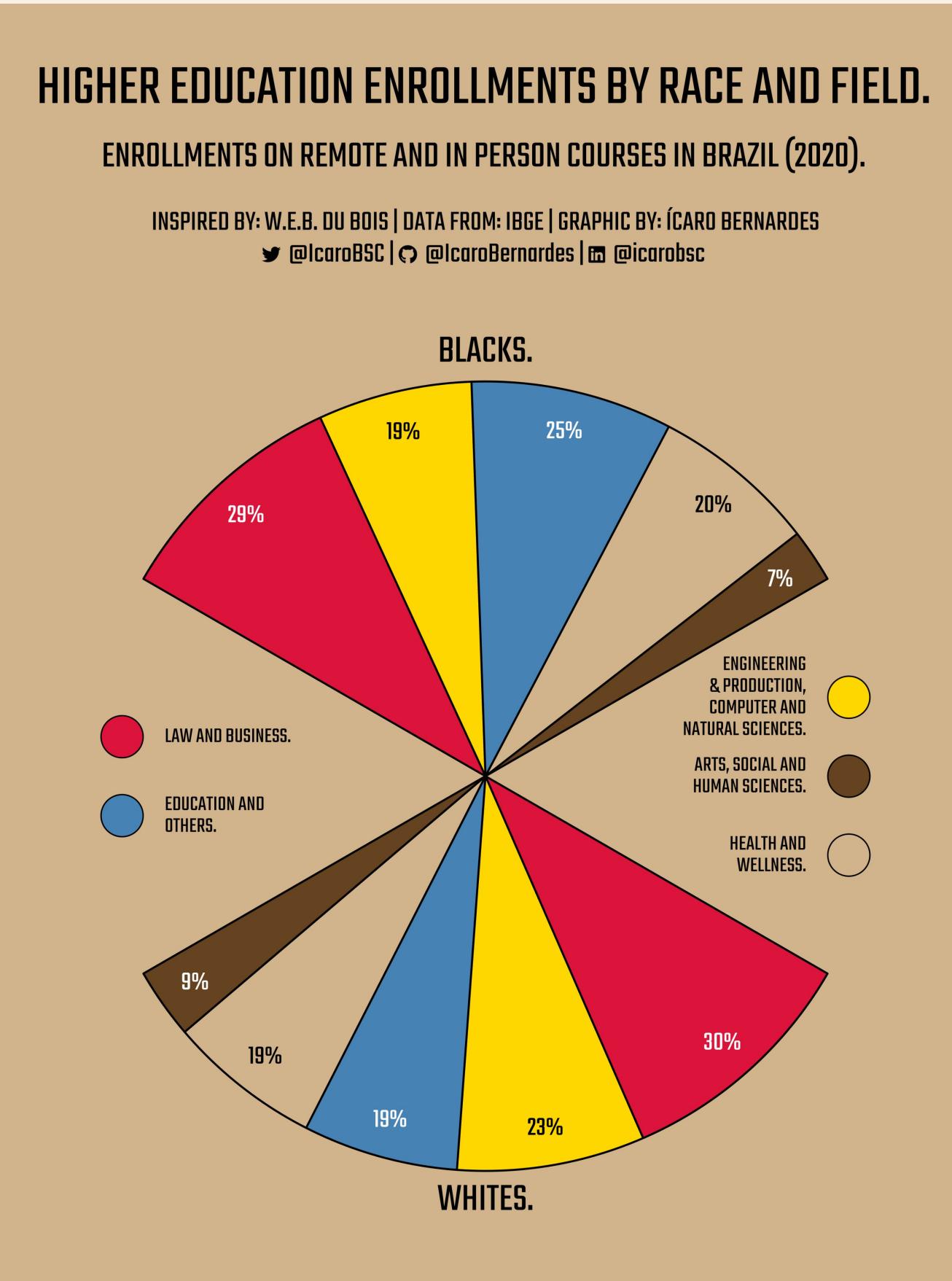


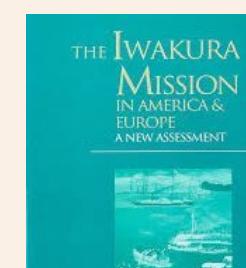
Arnold Platon (@Arnold_Platon)



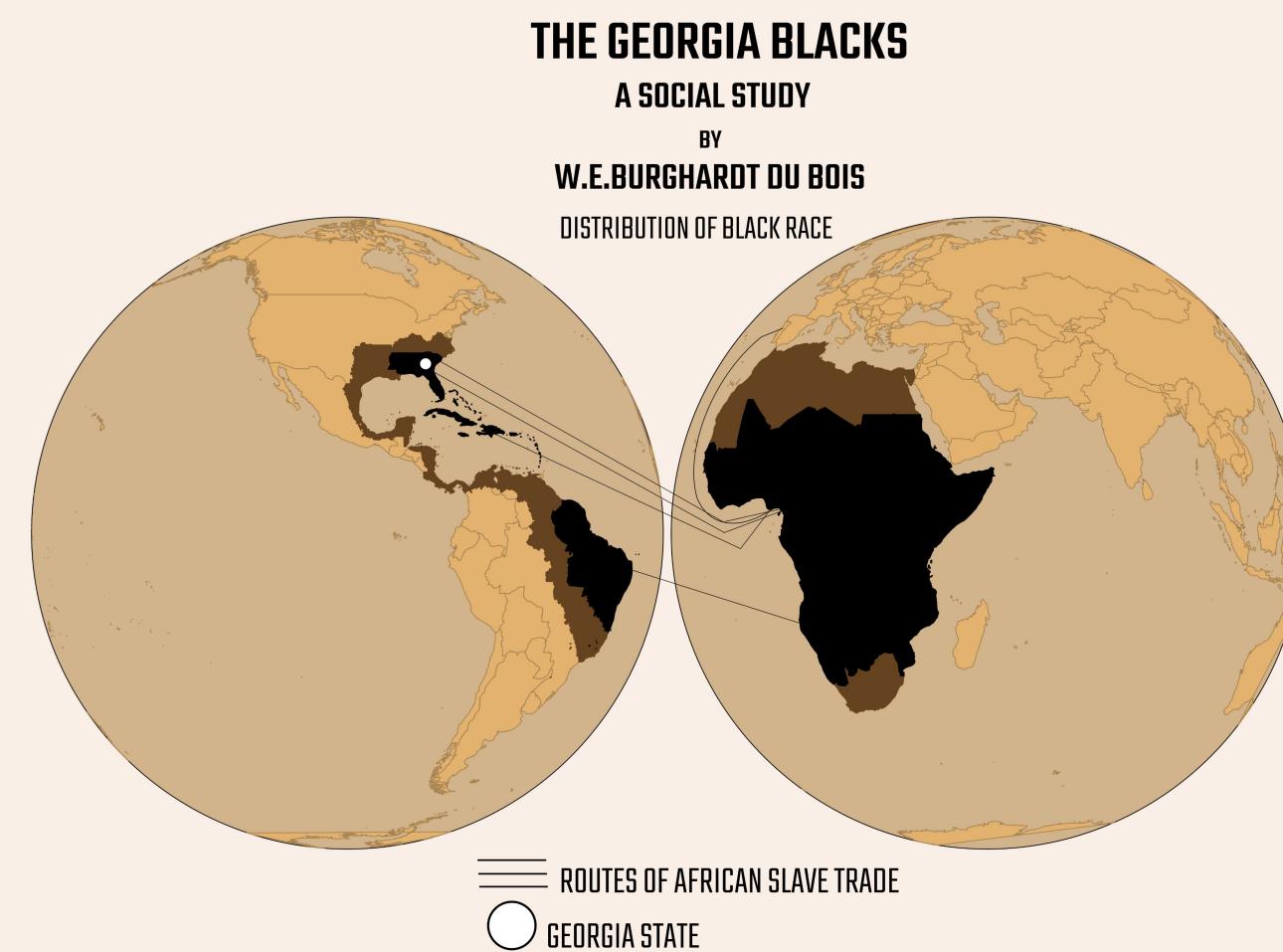


Ícaro Bernardes (@IcaroBSC)





Hemeed (@725Hemeed)

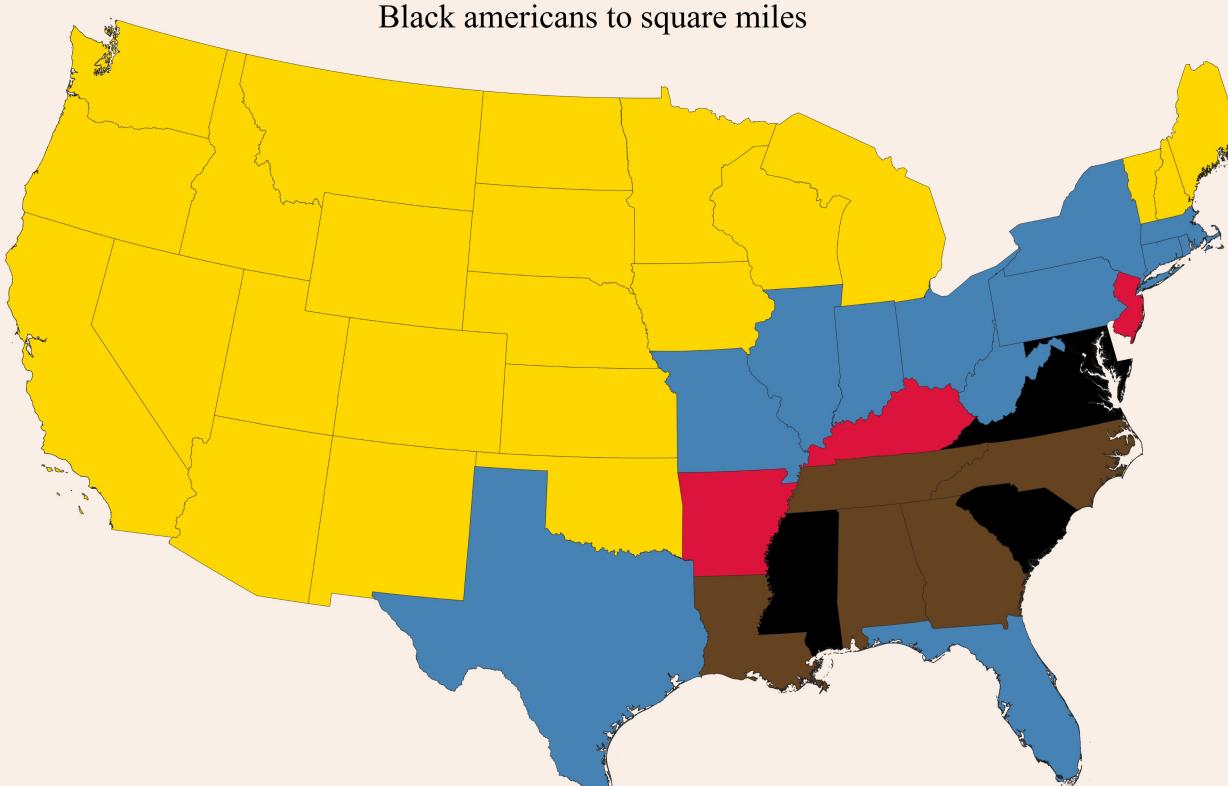


THIS CASE IS DEVOTED TO A SERIES OF CHARTS, MAPS AND OTHER DEVICES DESIGNED TO ILLUSTRATE DEVELOPMENT OF BLACK AMERICAN IN A SINGLE TYPICAL STATE OF UNITED STATES.

"THE PROBLEM OF 20th CENTURY IS THE PROBLEM OF COLOR-LINE"

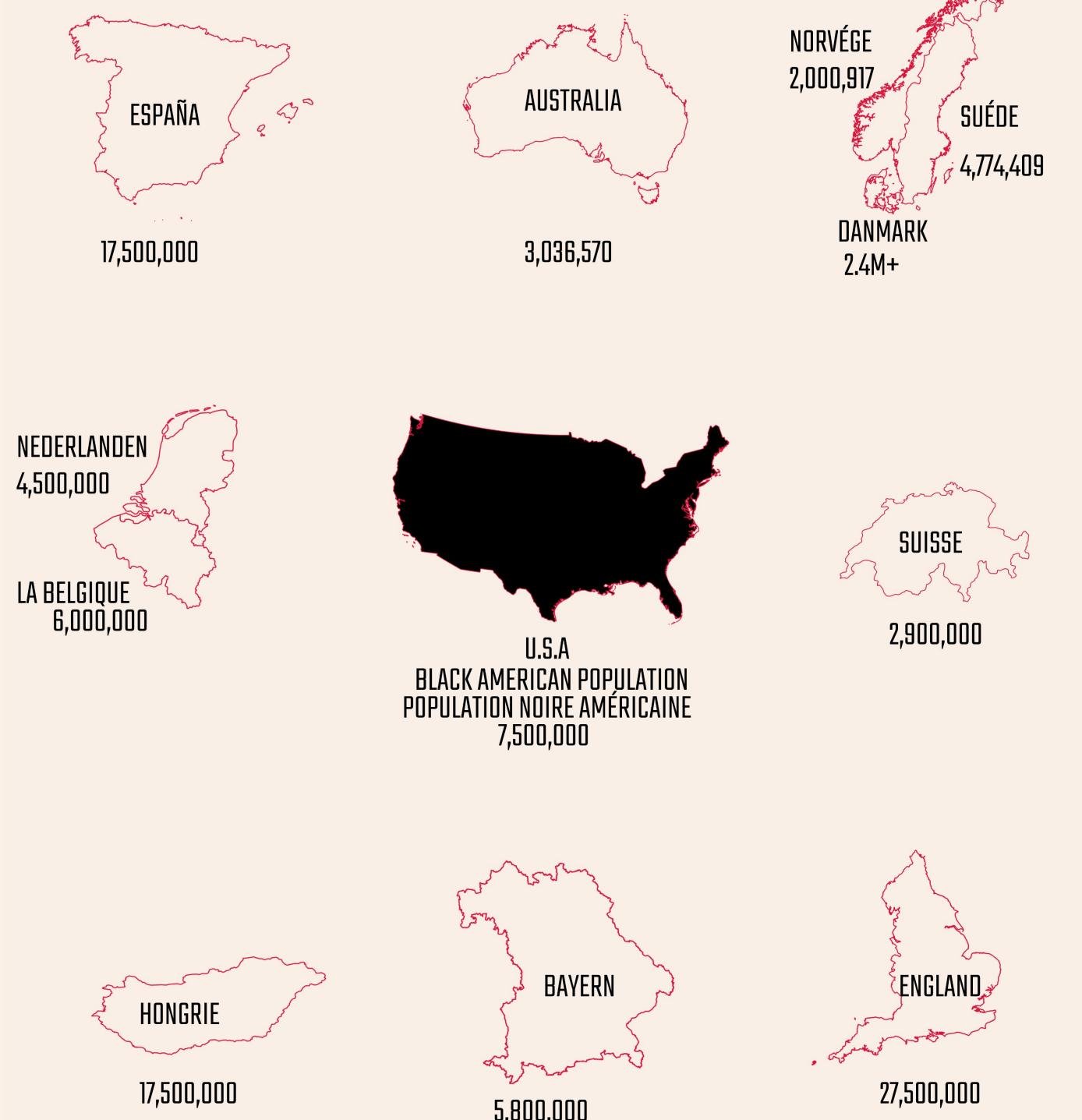
Created by Hemed Lungo | #DuBoisChallenge2023

DISTRIBUTION OF BLACK AMERICANS IN UNITED STATES RÉPARTITION DES NOIR-AMÉRICAINS AUX ÉTATS-UNIS



BLACK POPULATION OF UNITED STATES COMPARE TO TOTAL POPULATION OF OTHER COUNTRIES
LA POPULATION NOIRE DES ÉTATS-UNIS COMPARE À LA POPULATION TOTALE DES AUTRES PAYS

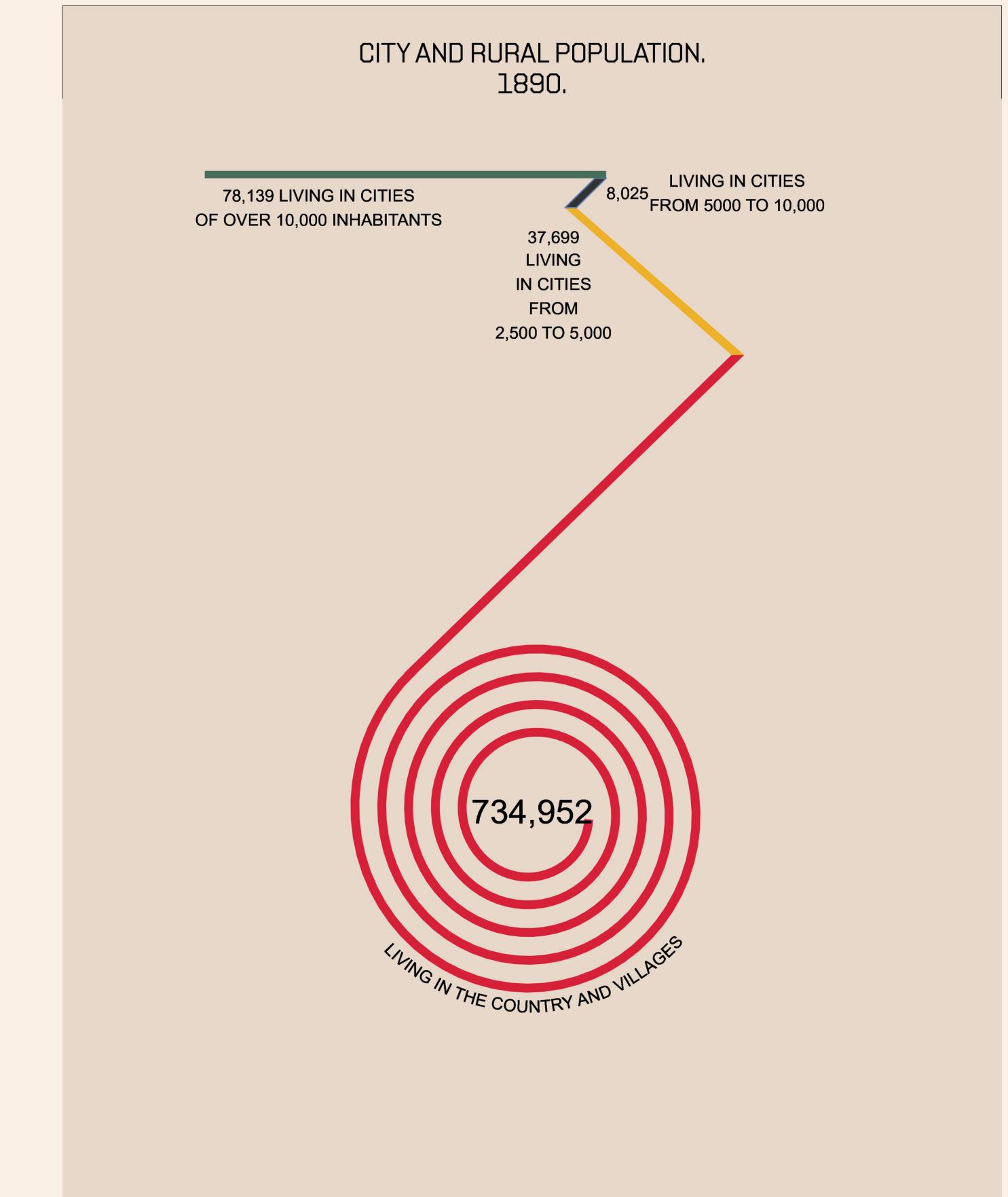
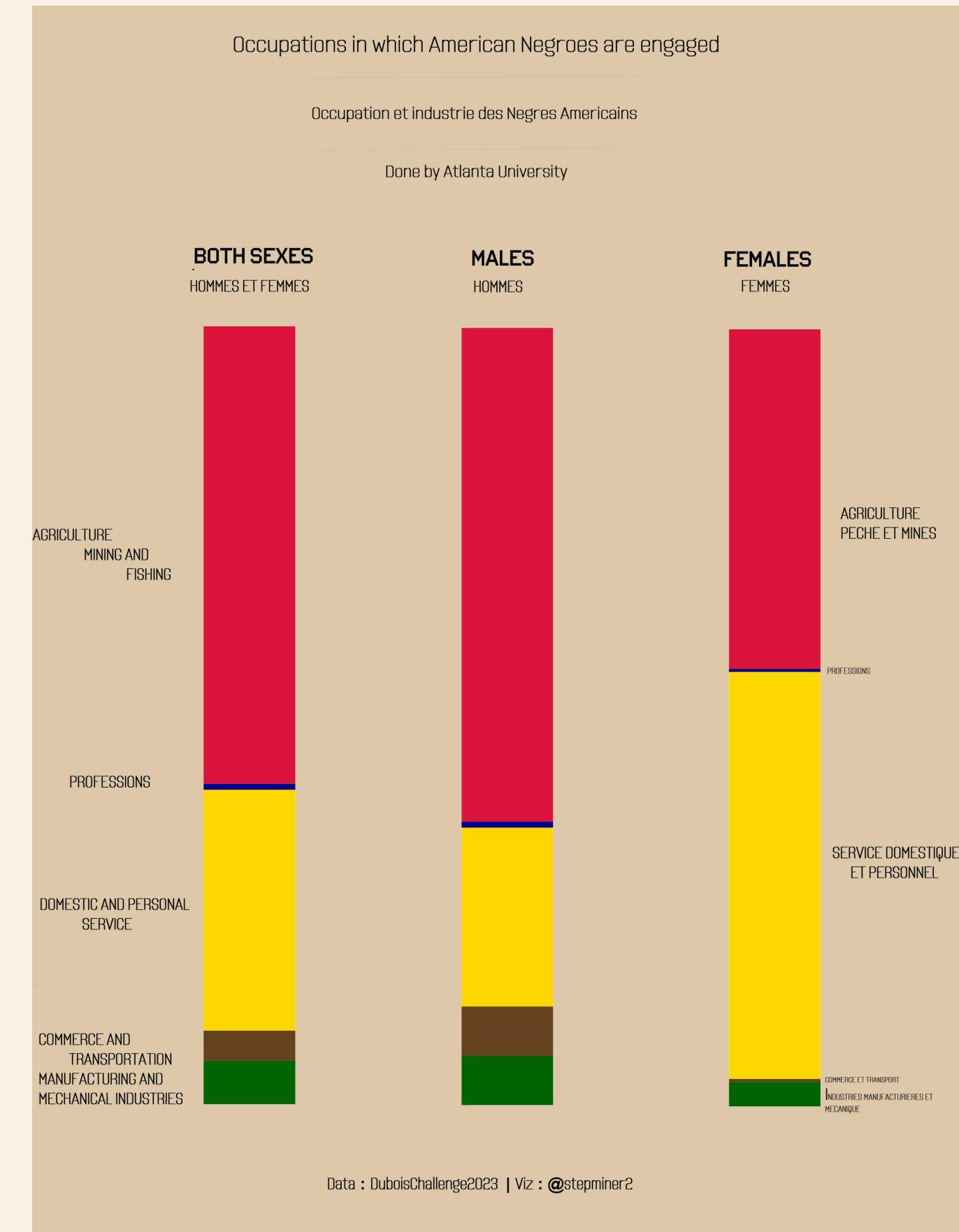
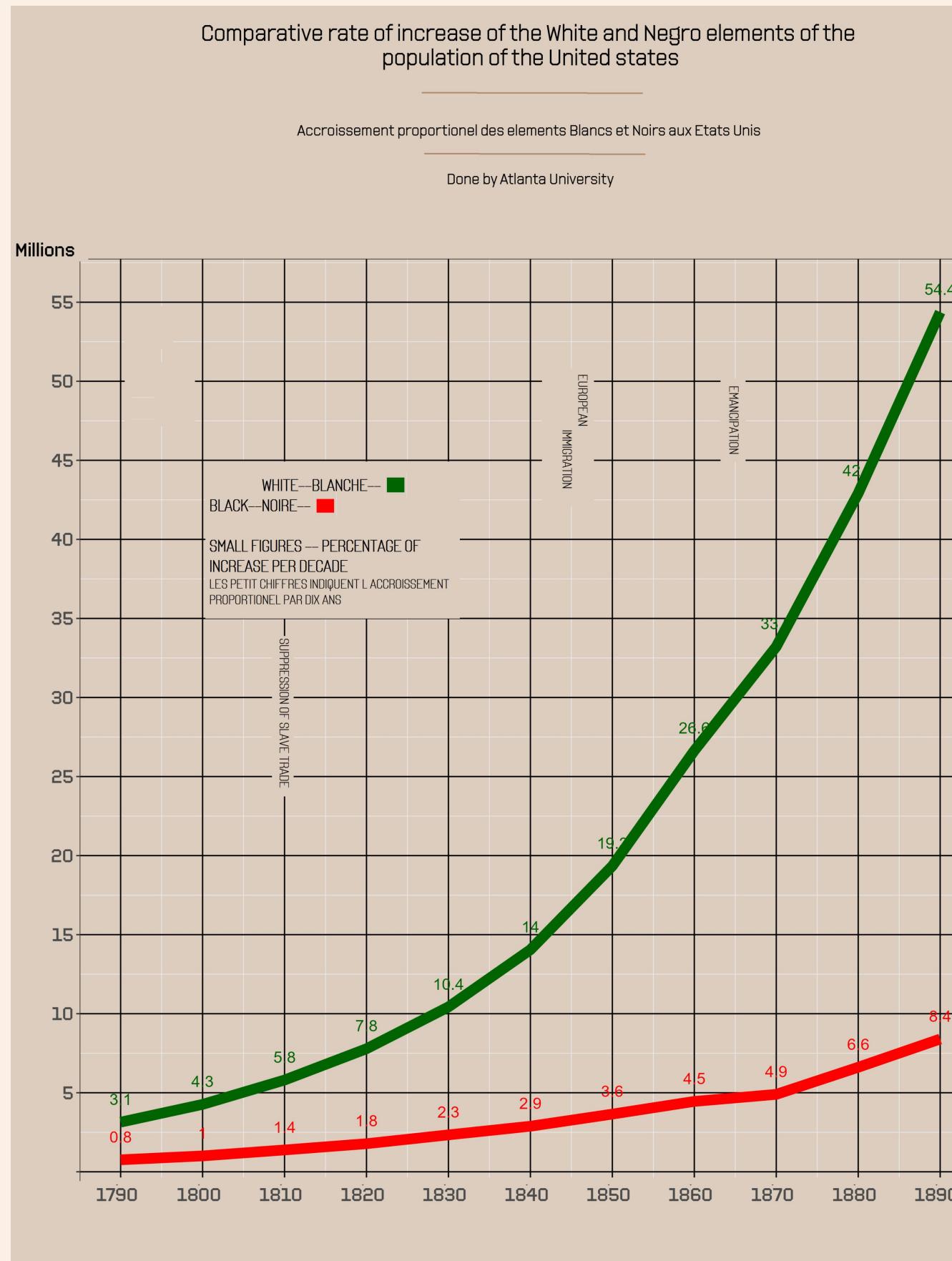
DONE BY ATLANTA UNIVERSITY



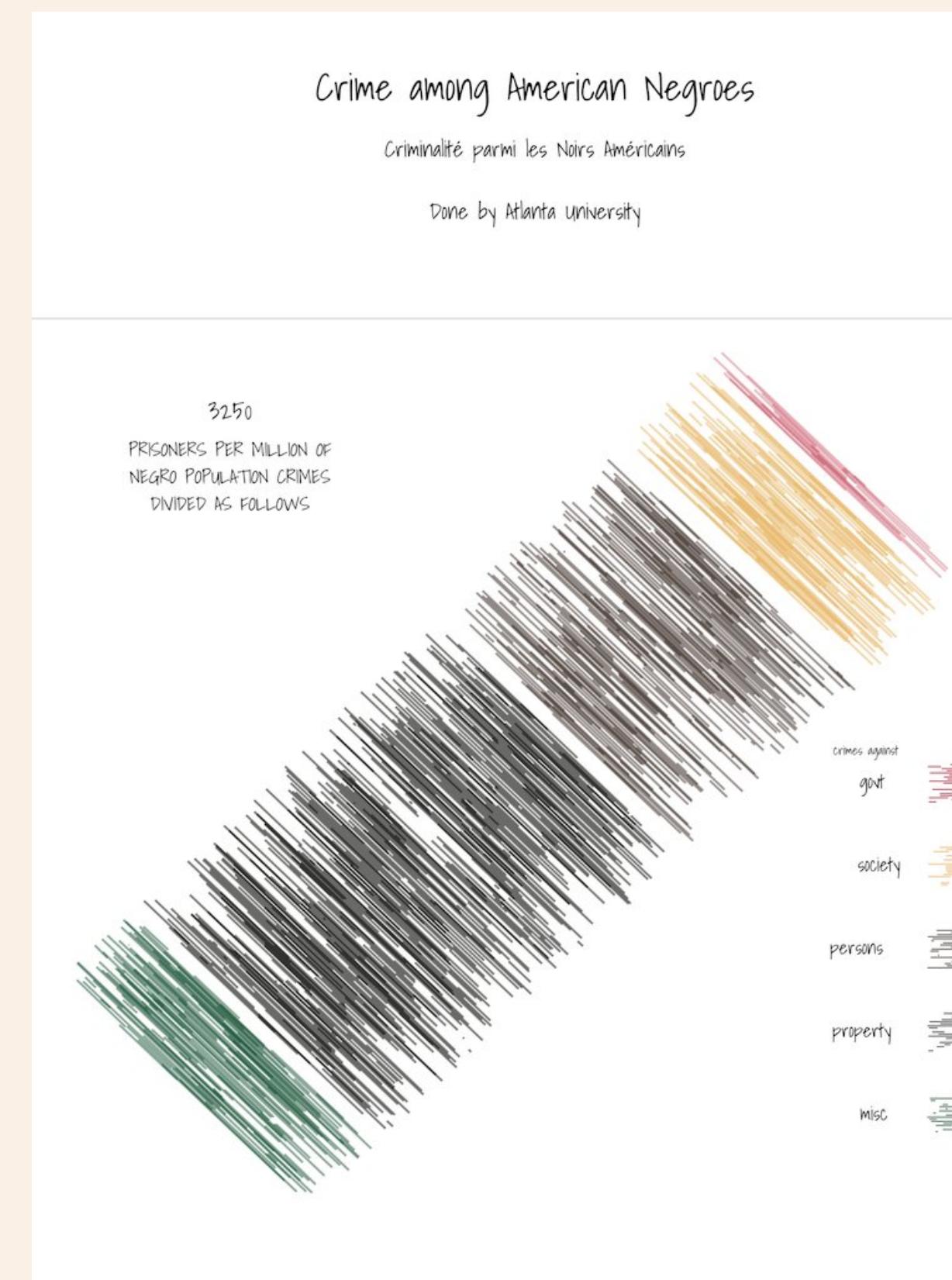
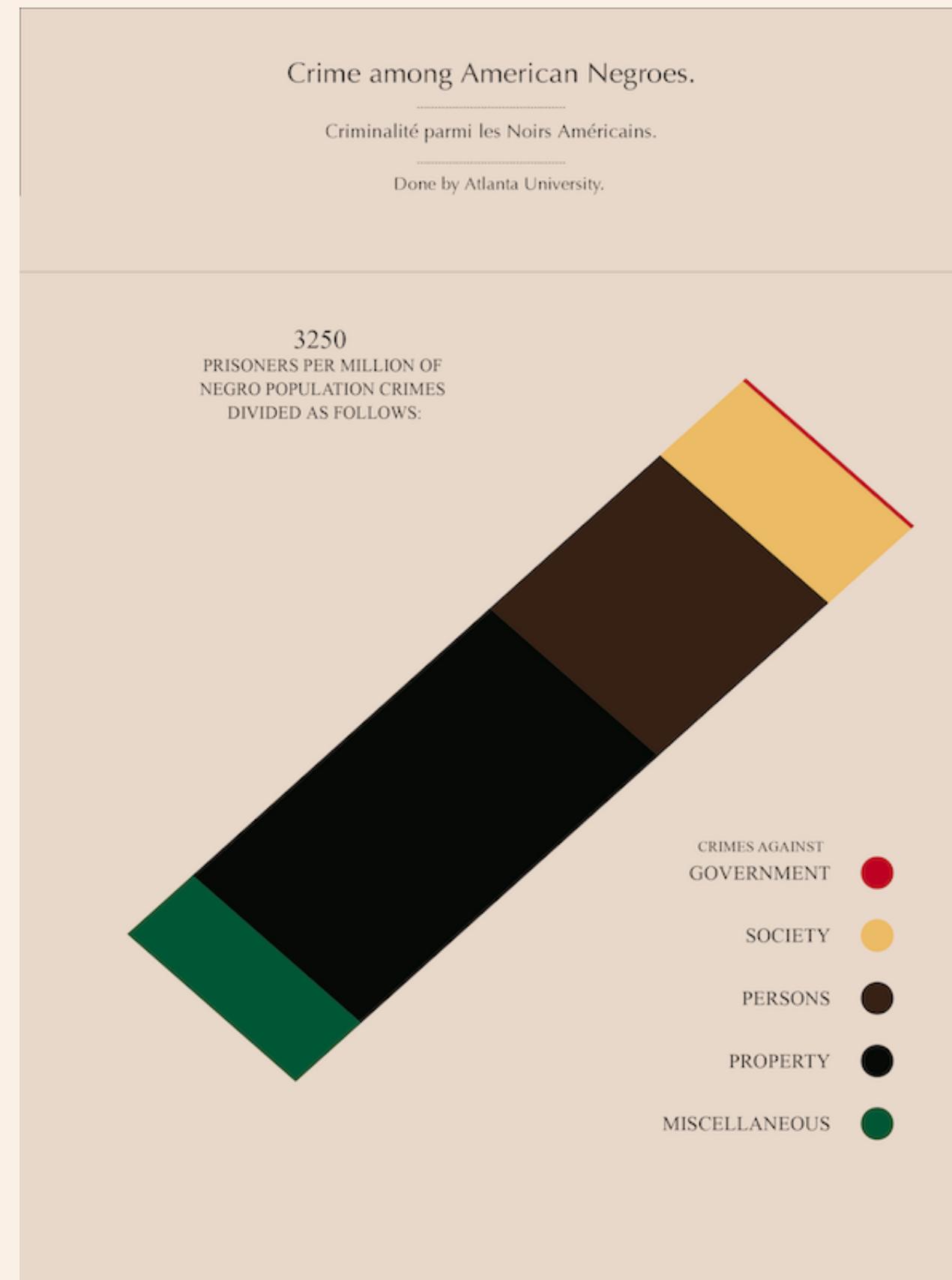
#DuBoisChallenge | Created by Hemed Lungo



Patrick Stephenson (@stepminer2)



Applied Data Science at UST (@UST_NSDS)



Digital “Brush” Strokes

Galleries



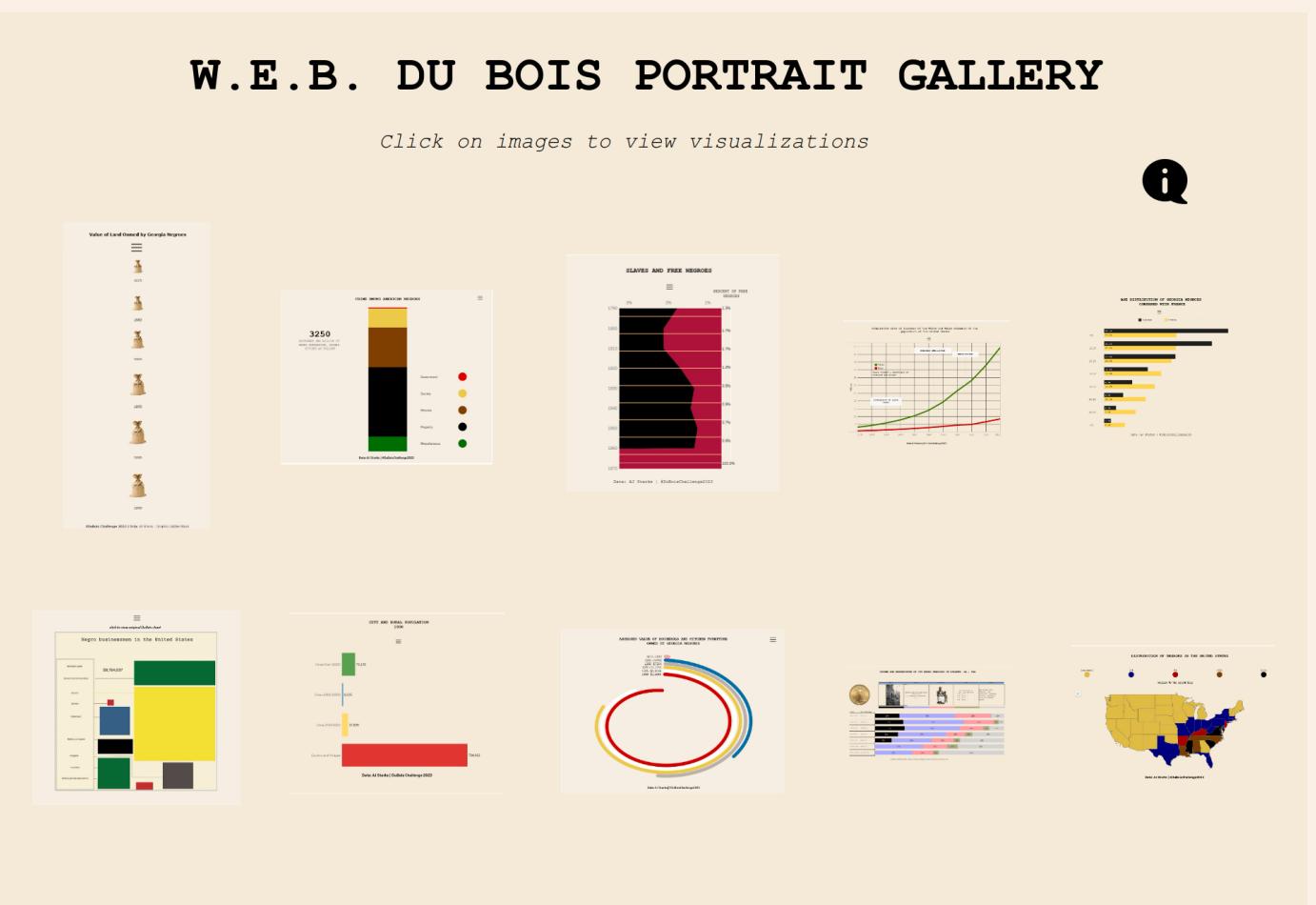
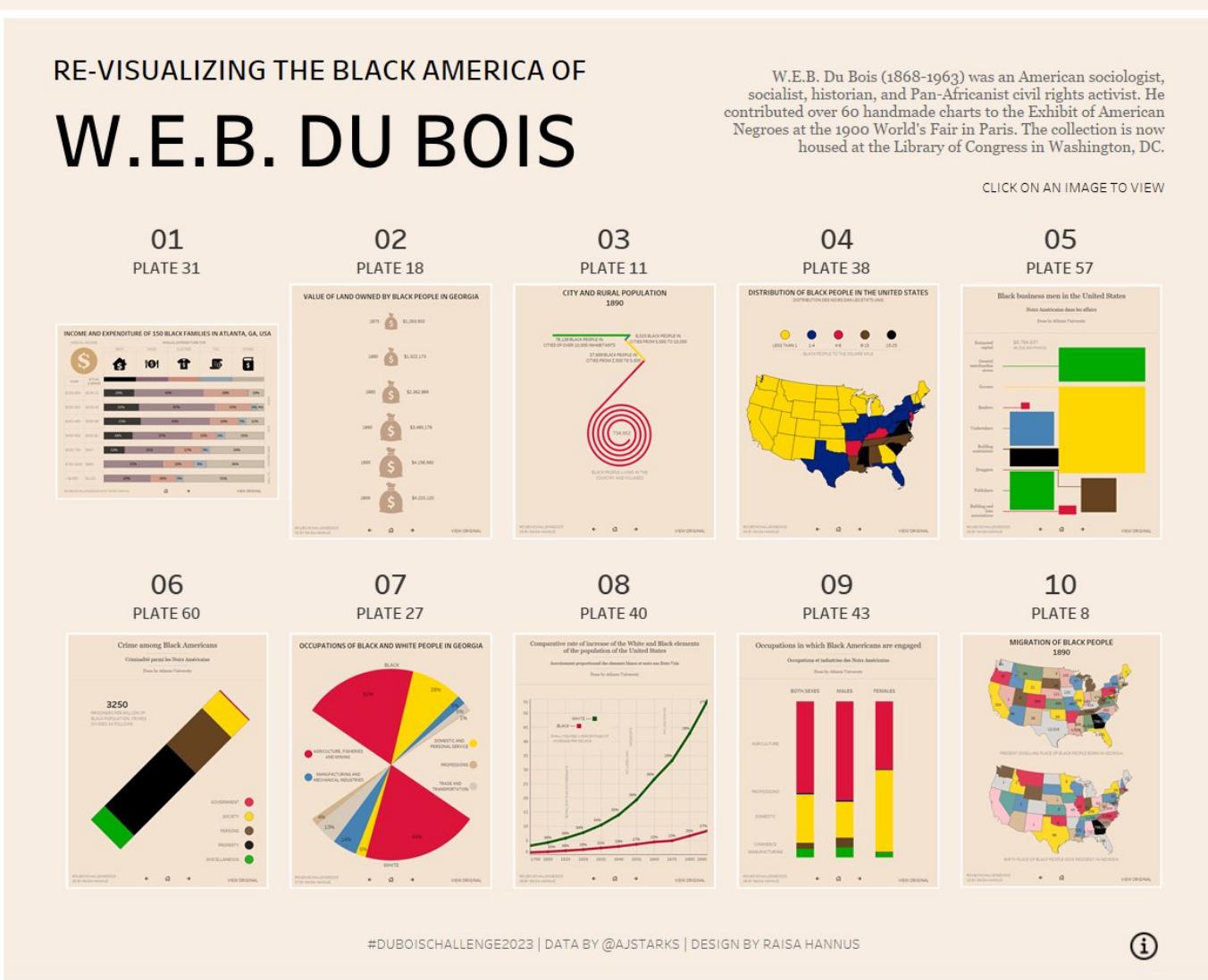
@blu7ip



@NYCapricorn



@ItsElisaDavis



Original Plates by W.E.B. Du Bois for the 1900 Paris Exposition.

Reinterpreted by Elisa Davis.

#DuBoisChallenge2023

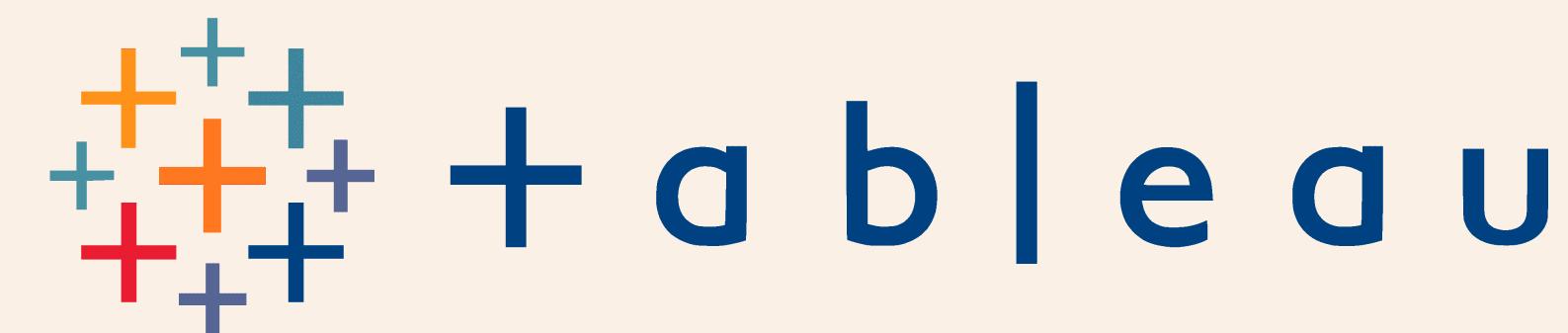
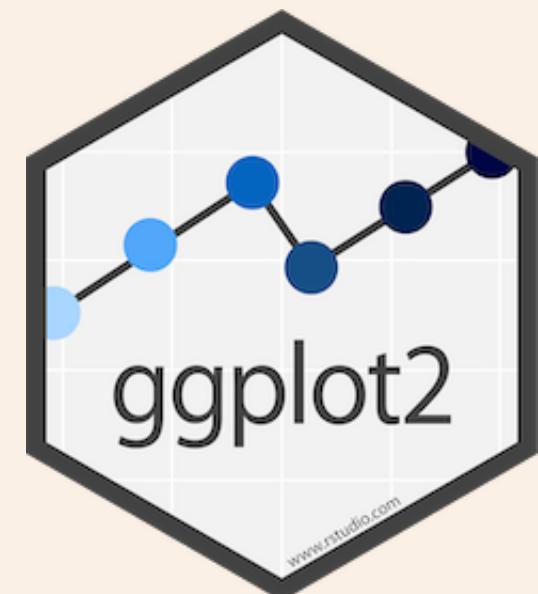
The goal of the challenge is to celebrate the data visualization legacy of W.E.B. DuBois by recreating the visualizations from the 1900 Paris Exposition using modern tools.

Note: titles are taken from the 1900 originals and use antiquated terms to refer to populations of color.

@IcaroBSC Web Gallery



Tools Used



Dashboard

#DuBoisChallenge Twitter Activity

The goal of the #DuBoisChallenge is to celebrate the data visualization legacy of W.E.B DuBois by recreating the visualizations from the 1900 Paris Exposition using modern tools. This dashboard explores the Twitter activity during the challenge.

Tweet Summary



Tweets Over Time

Select a date granularity to filter the view
Hover for details



2023 Activity | Other Years

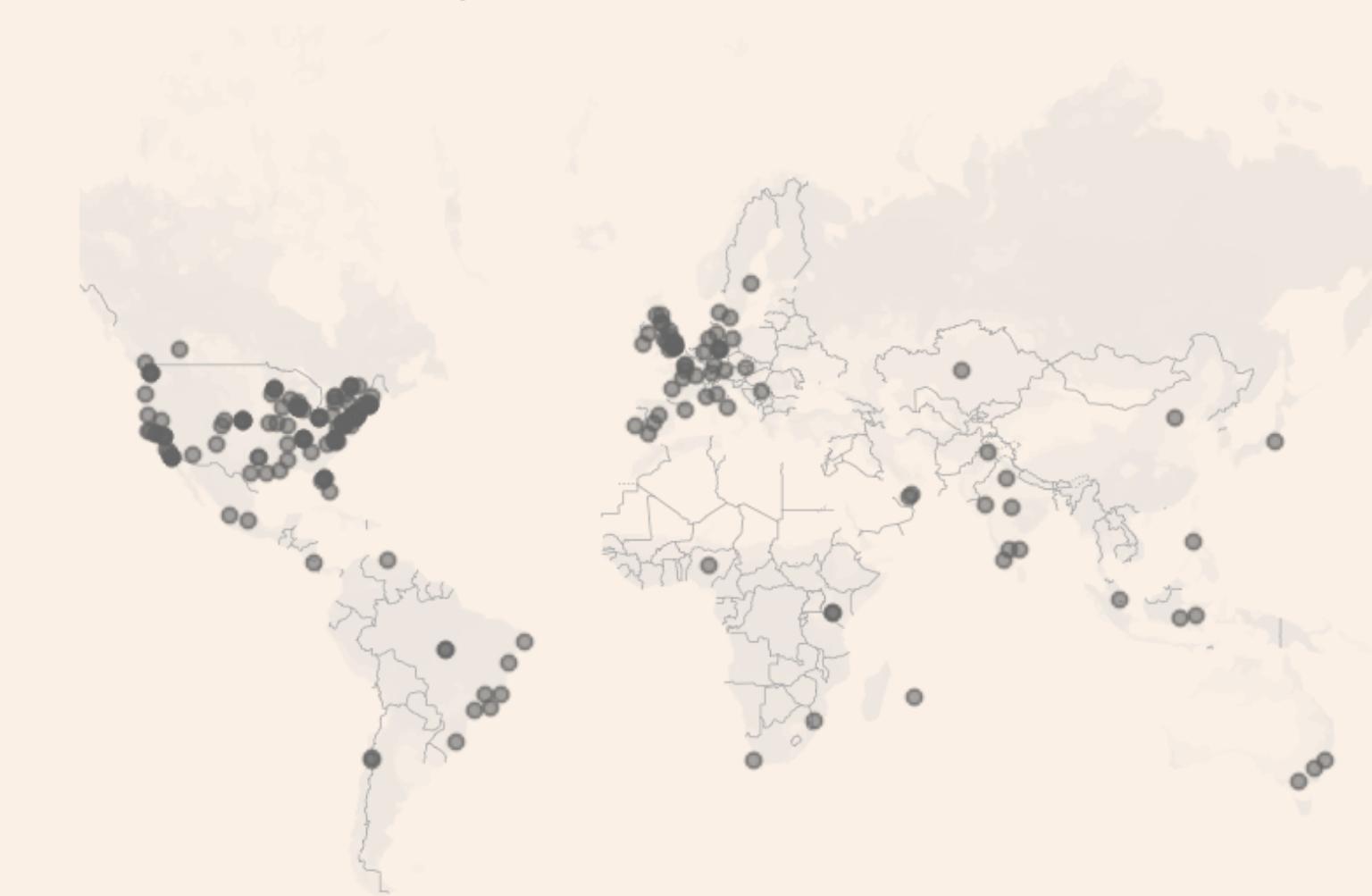
Verified Users



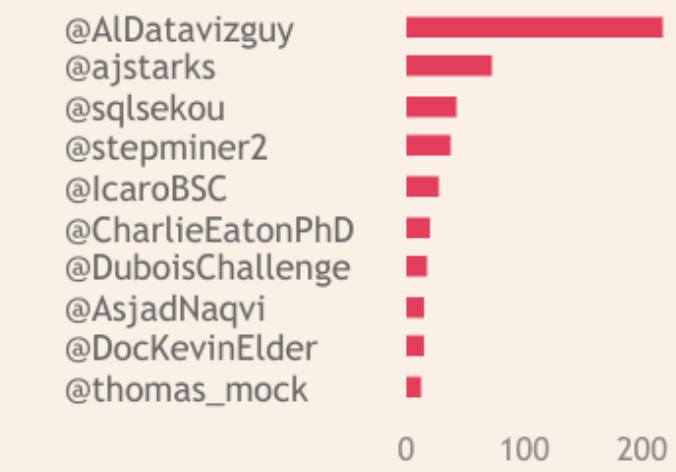
Change Theme



Location of Participants | Hover to view participants

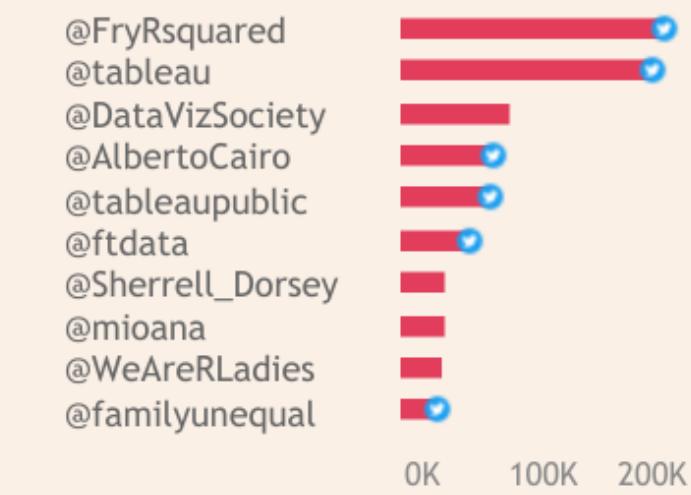


Top 10 Users by Tweets



0 100 200

Top 10 Users by Followers



0K 100K 200K

#DuBoisChallenge Tweets Since Inception

ID	Date	Handle	Content	Link	Likes	Retweets	Quotes
1	Apr 15 2023 1:49:34 AM	@ajstarks	Fans of the #DuBoisChallenge2023 should ch..	🔗	5	3	0
2	Apr 14 2023 11:41:11 AM	@UrbanDemog	“timo fio e visualização de dados do con..	🔗	17	1	0
3	Apr 14 2023 1:59:15 AM	@IcaroBSC	At last, I built the #RStats #dataviz of the #D..	🔗	77	13	2
4	Apr 10 2023 9:42:03 PM	@IcaroBSC	The #RStats #dataviz of #DuBoisChallenge20..	🔗	44	10	0
5	Apr 10 2023 3:46:18 PM	@AlDatavizguy	This is the official last week of the #DuBoisC..	🔗	9	1	0

Links and Resources

Challenge Repo

<https://github.com/ajstarks/dubois-data-portraits/tree/master/challenge/2023#readme>

Twitter Hashtag

https://twitter.com/search?q=%23DuBoisChallenge2023&src=typed_query&f=top

Nightingale Article

<https://nightingaledvs.com/the-dubois-challenge/>

Data Portraits Book

<https://www.amazon.com/W-Boiss-Data-Portraits-Visualizing/dp/1616897066>

LoC Collection

<https://www.loc.gov/collections/african-american-photographs-1900-paris-exposition>

Catalog

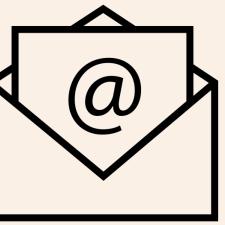
<https://speakerdeck.com/ajstarks/du-bois-visualizations-originals>

Style Guide

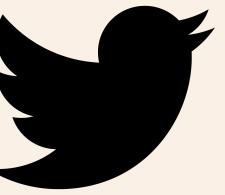
<https://speakerdeck.com/ajstarks/du-bois-visualization-style-guide>

Anthony J. Starks

Art + Code



info@ajstarks.org



[@ajstarks](https://twitter.com/ajstarks)



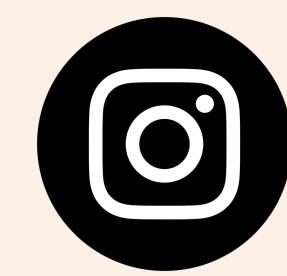
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[@duboisviz](https://instagram.com/duboisviz)