

The #DuboisChallenge2023

Anthony Starks

# In 1900, it began with them...

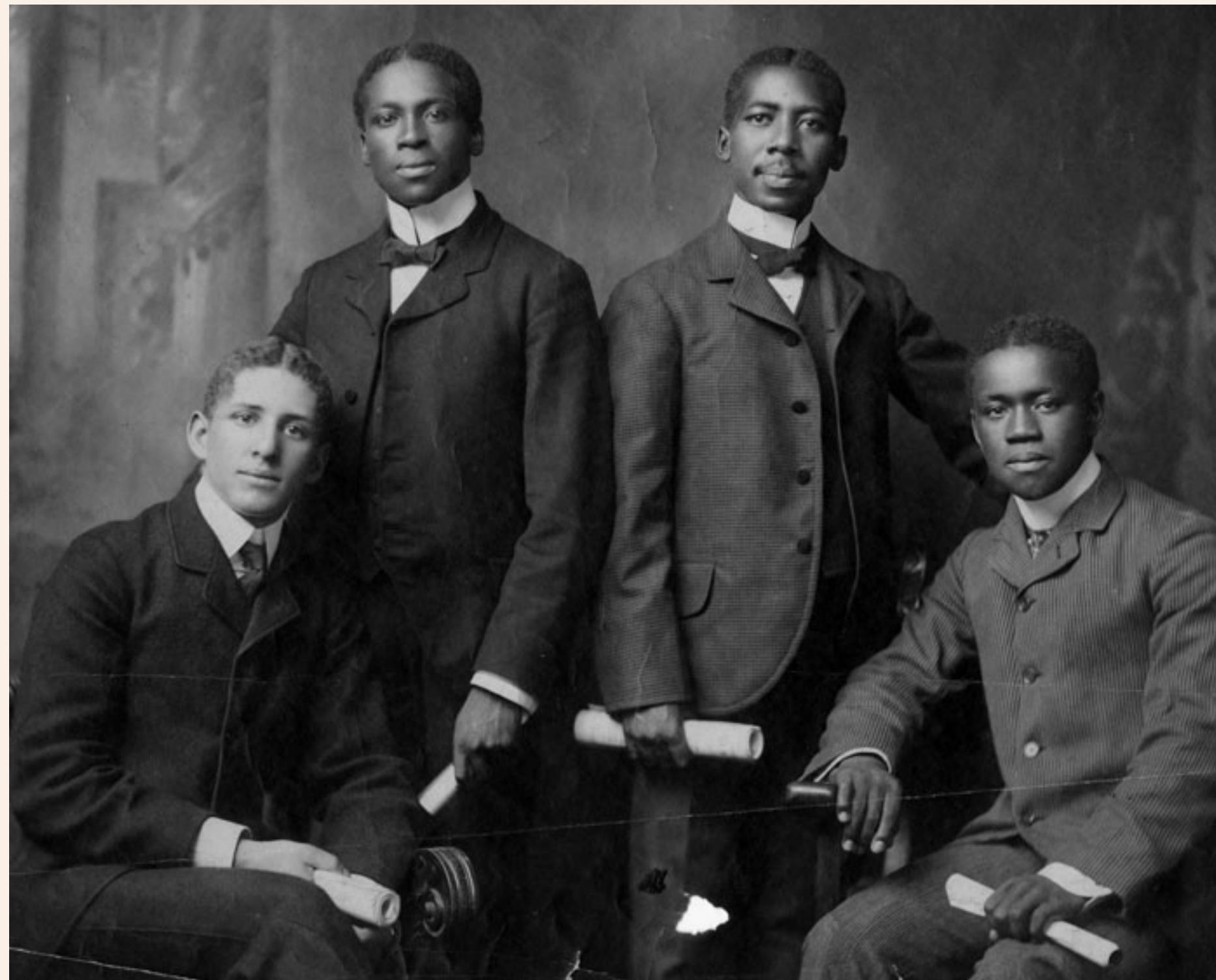


*Thomas J. Calloway*



*Du Bois in Paris*

# ...and Atlanta University



*Atlanta University Debating Team, c. 1900*

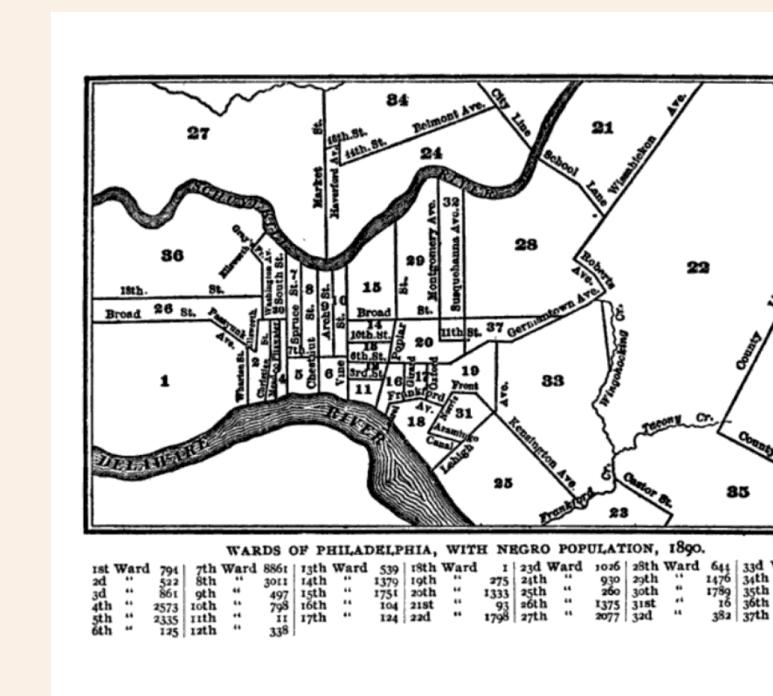


*Women seated on steps at Atlanta University c. 1900*

# Paris 1900



# Historical Context



"Black America" Fair

1895

Plessy v. Ferguson

1896

Phila. Negro begins

1897

Wilmington Overthrow

1898

Lynchings Peak

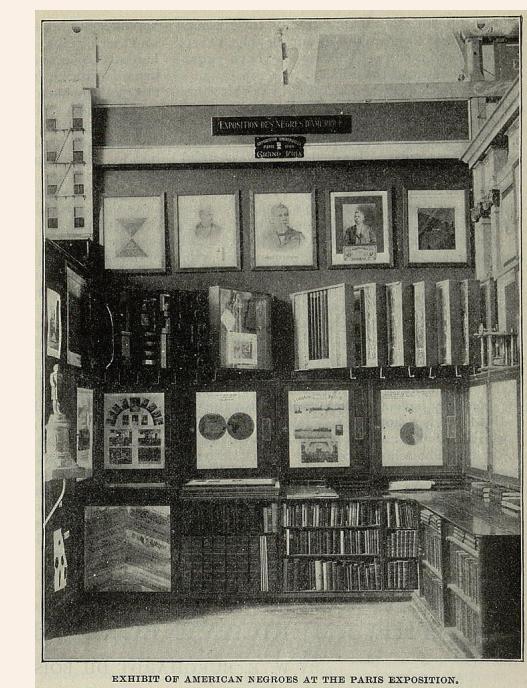
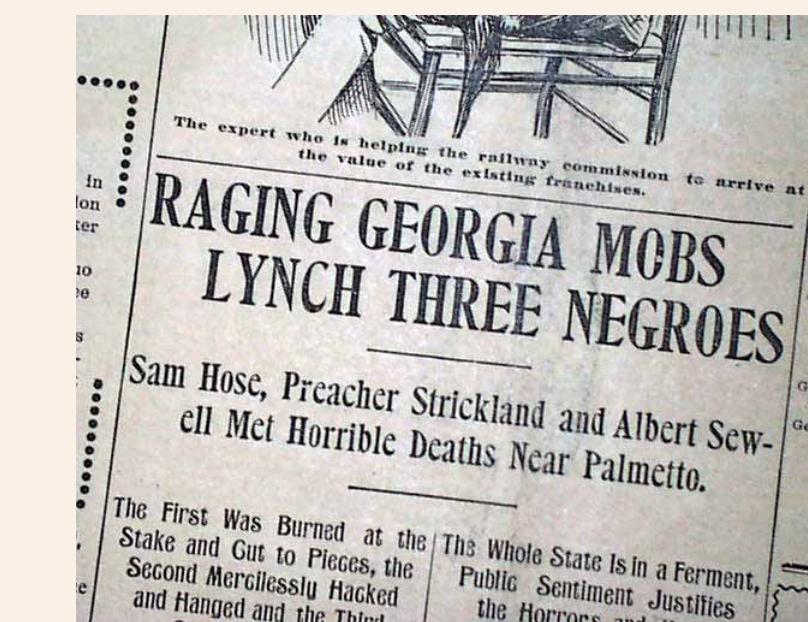
1899

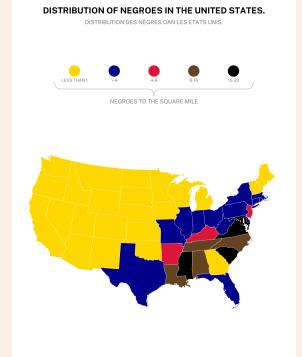
Paris Exposition

1900

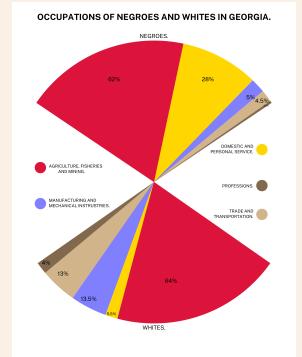
A WHITE MAN'S DAY.  
Eight to Ten Thousand People Out.  
TILLMAN MAKES A GREAT SPEECH FOR  
DEMOCRACY

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.

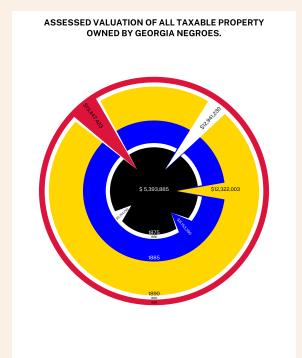




# We are here



# This is who we are



# This is how far we have come

# In 2021, it began with them



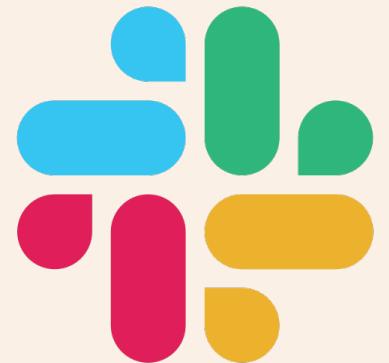
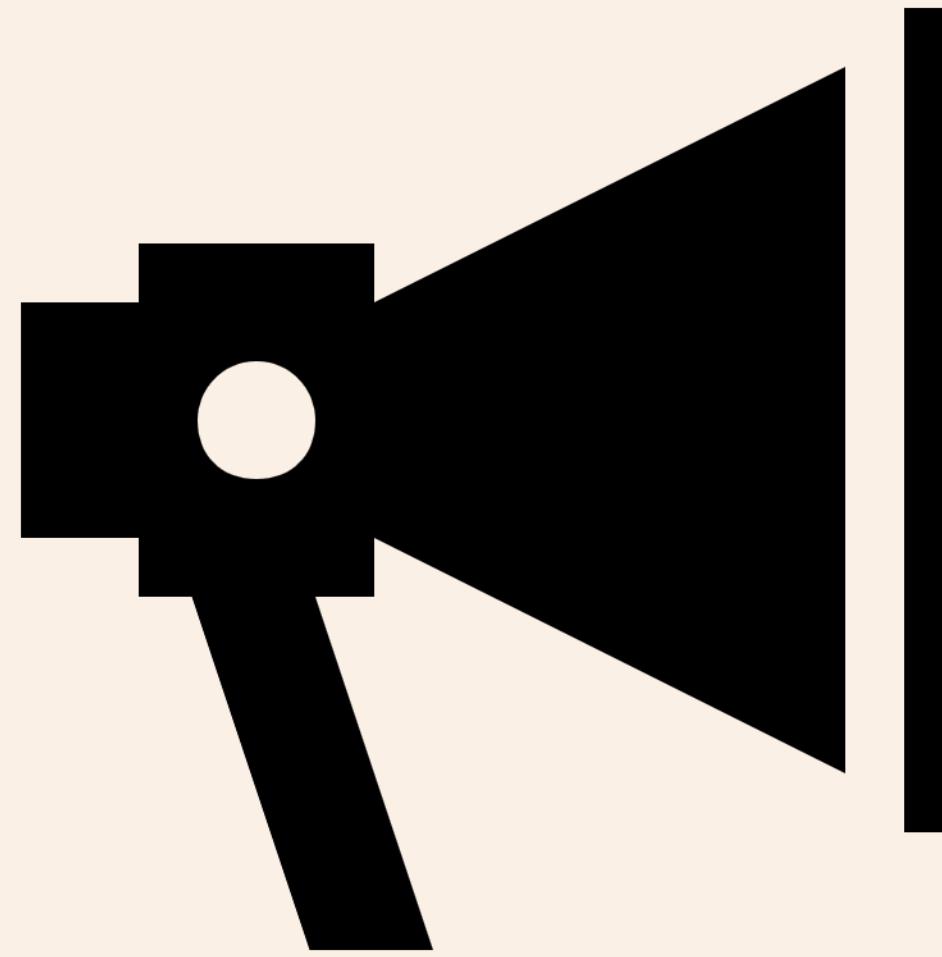
*Allen Hillery (@AlDataVizGuy)*



*Sekou Tyler (@sqlsekou)*

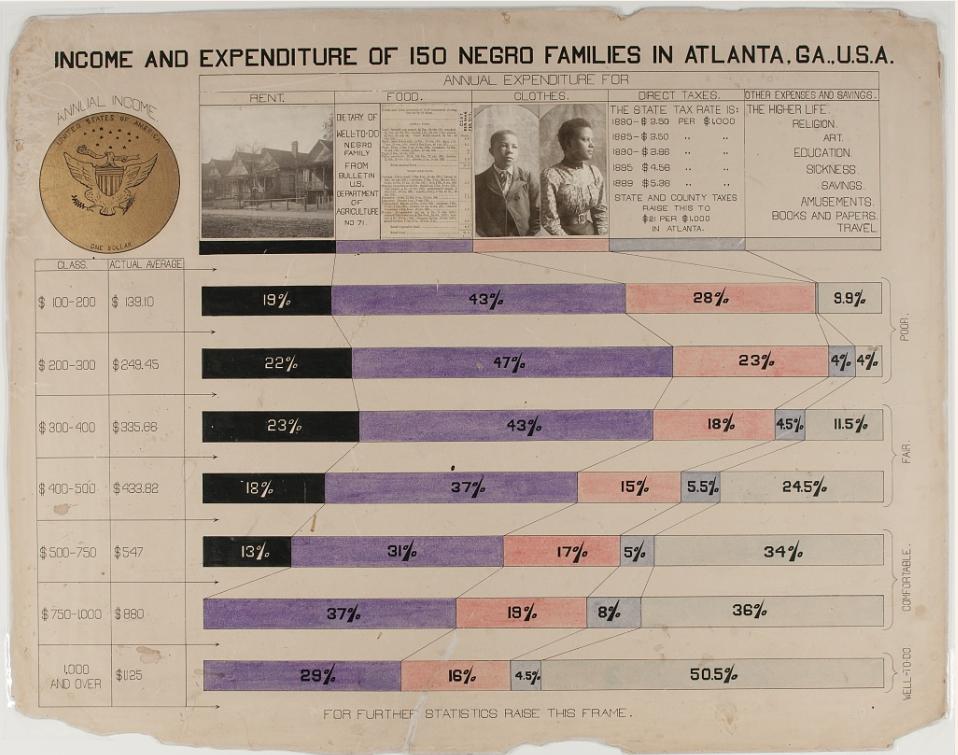
# Now: Modern Megaphone

Your Message

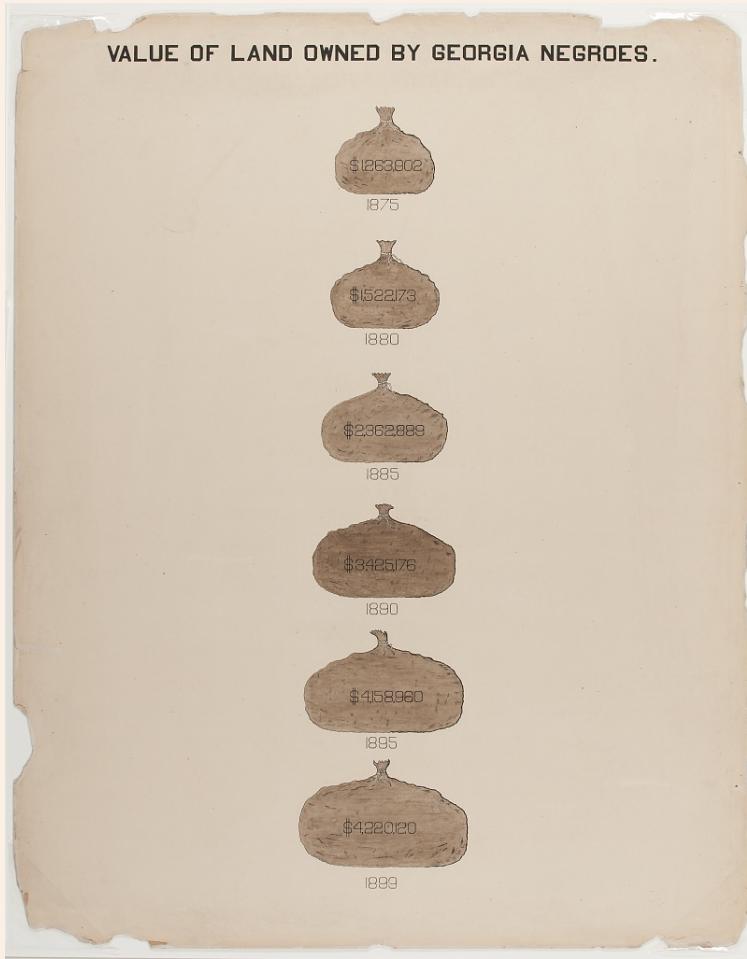


# #DuboisChallenge 2023 Entries

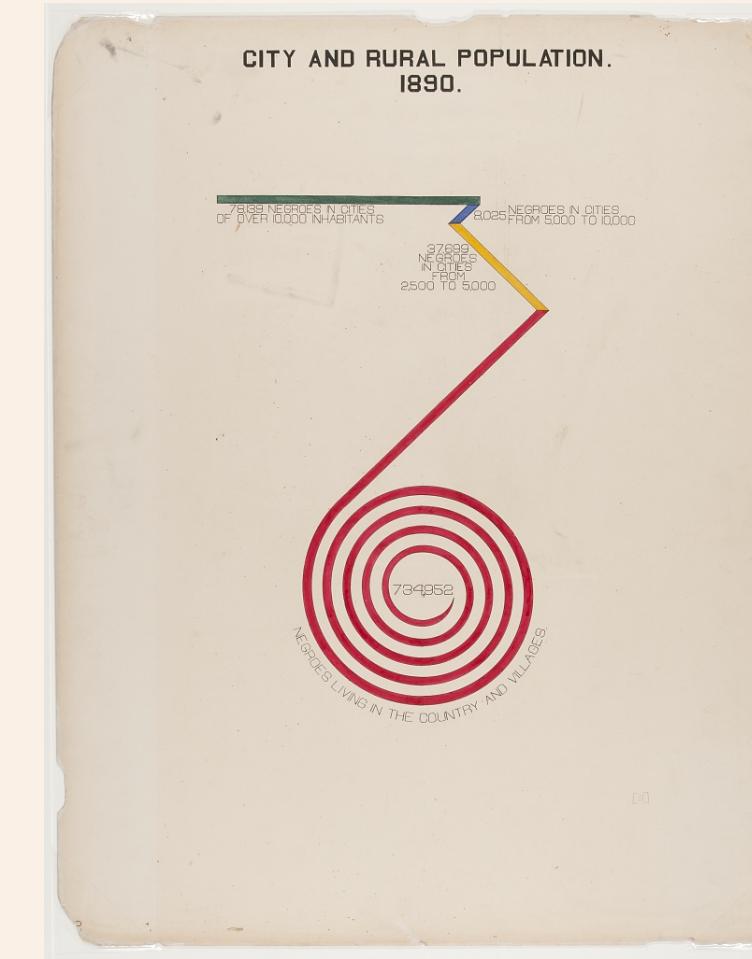
01



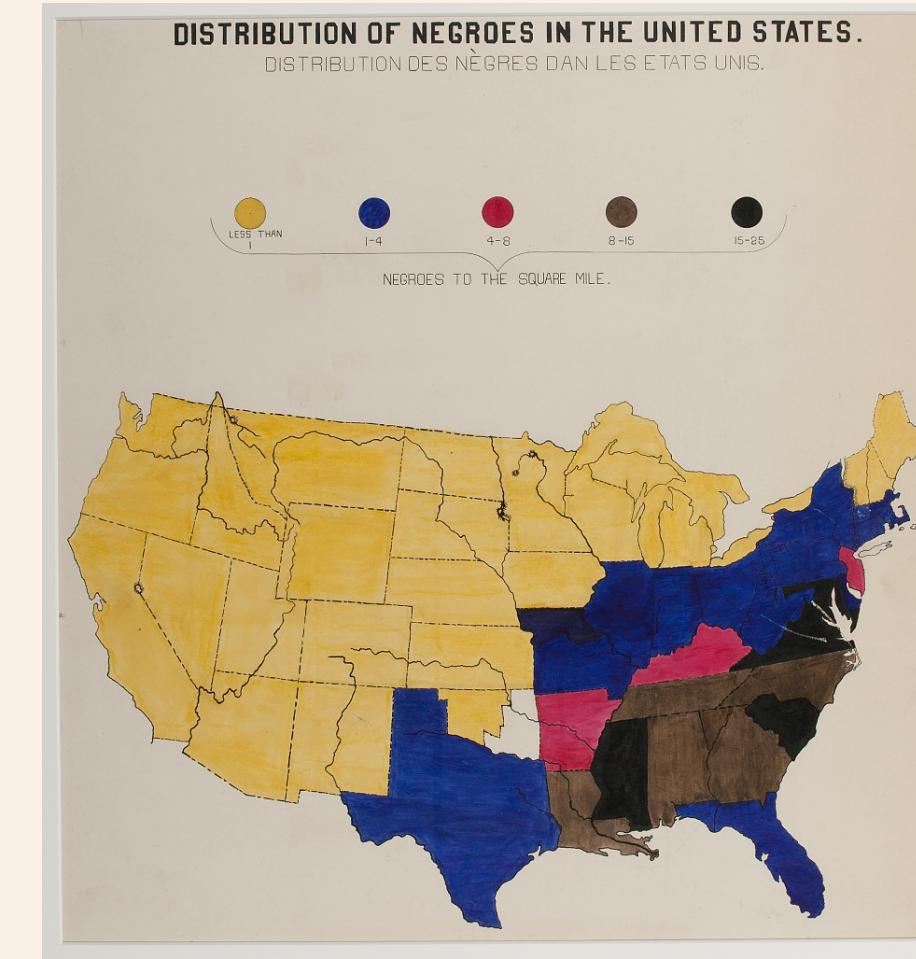
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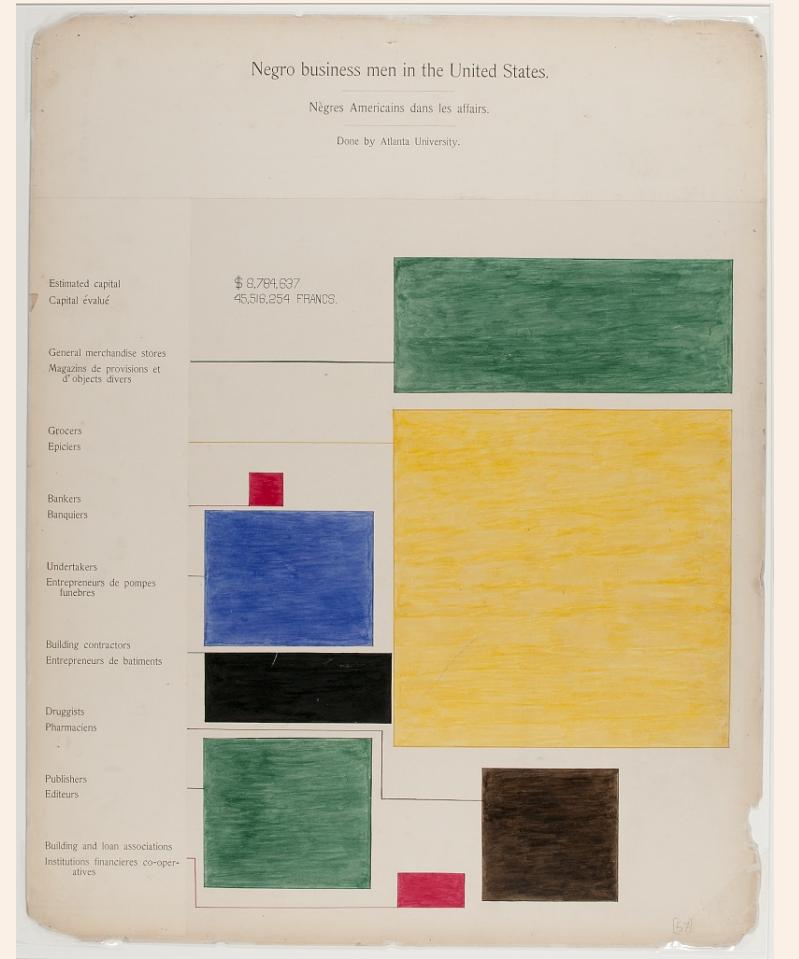
03



04



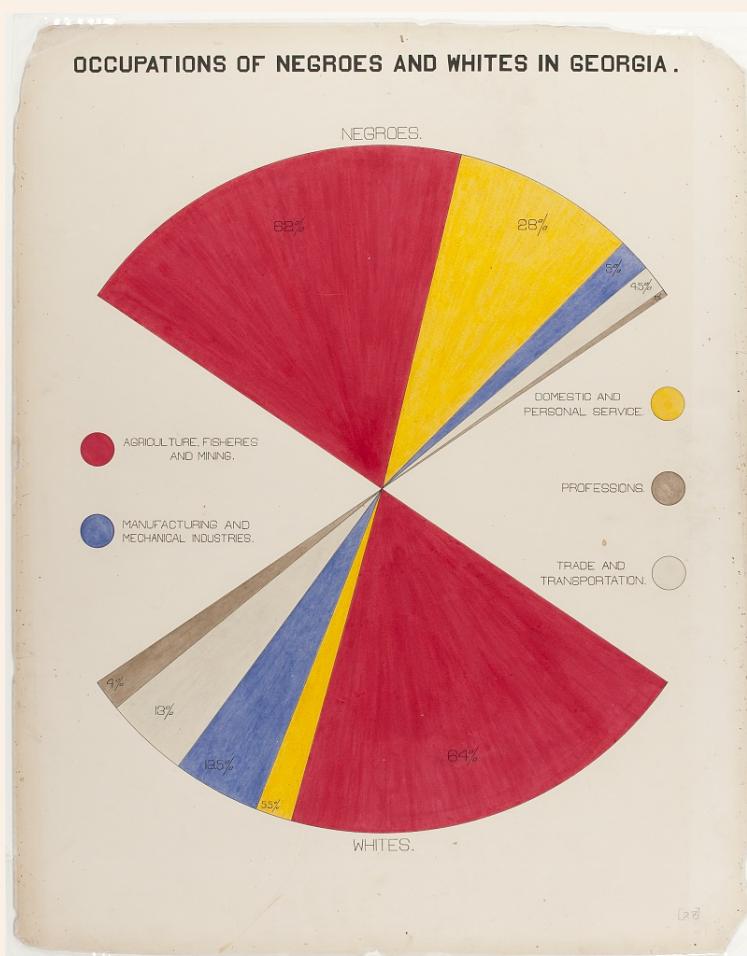
05



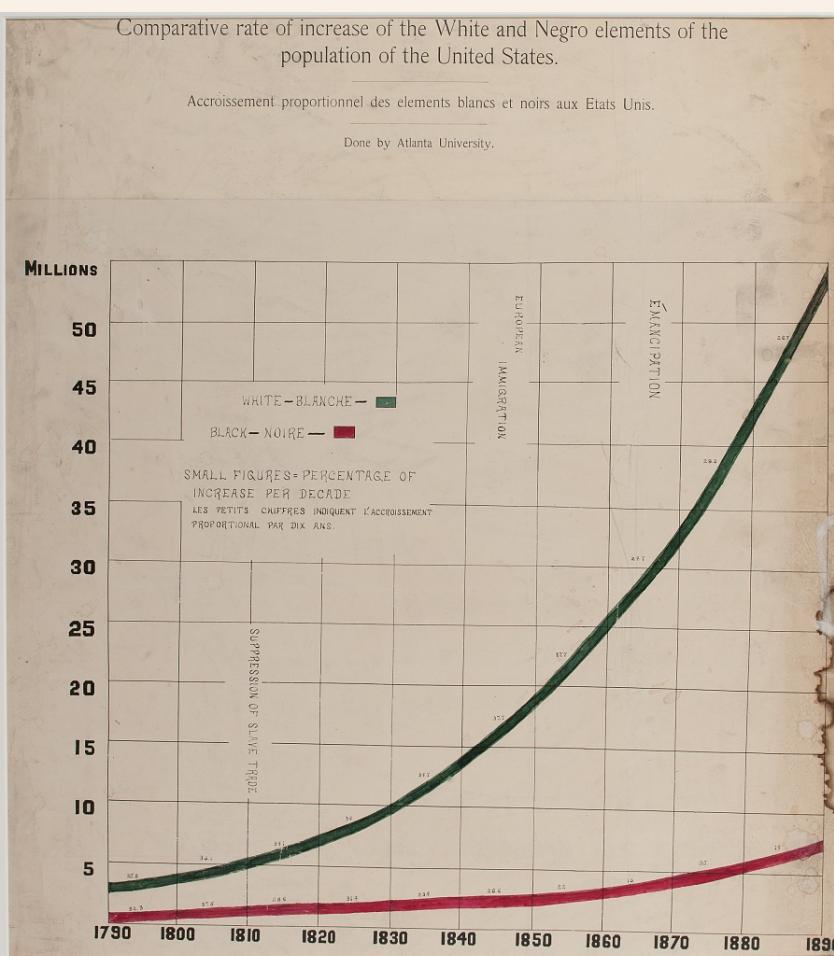
06



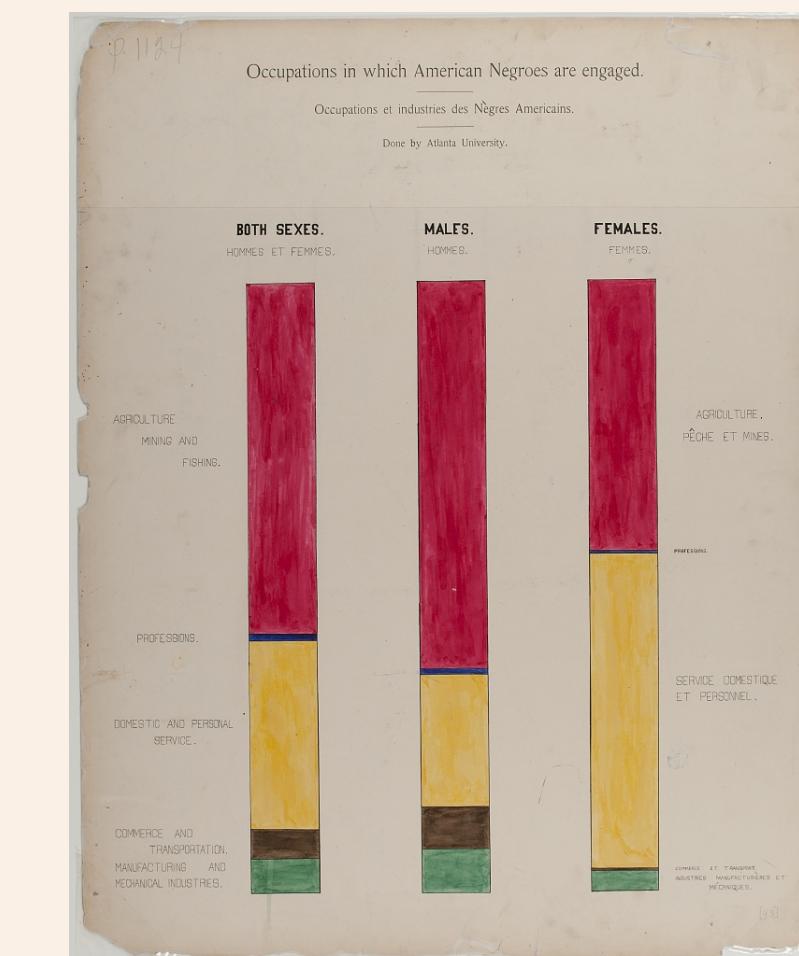
07



08



09



10



# Using github

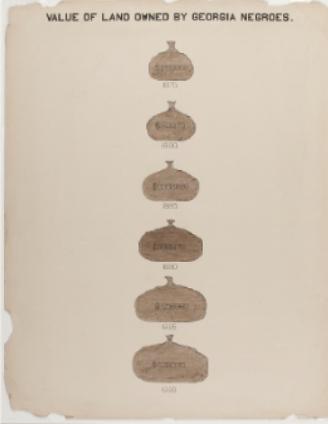
## Du Bois Visualization Challenge: 2023

#DuBoisChallenge2023

01



02



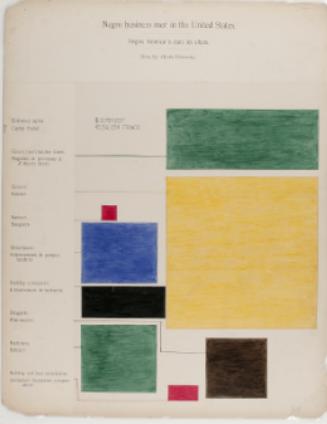
03



04



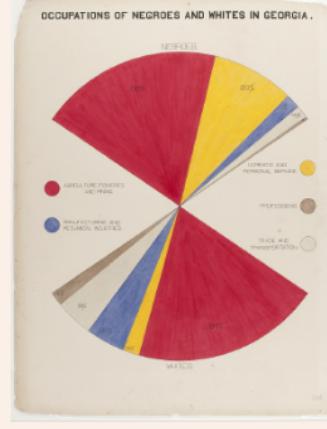
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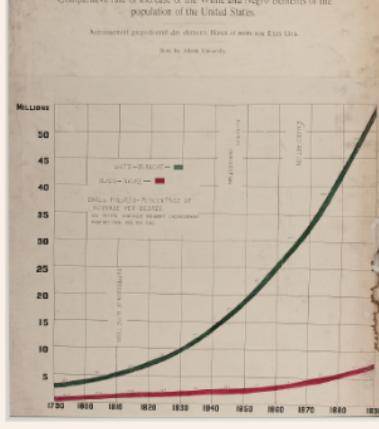
06



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 Mastodon 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

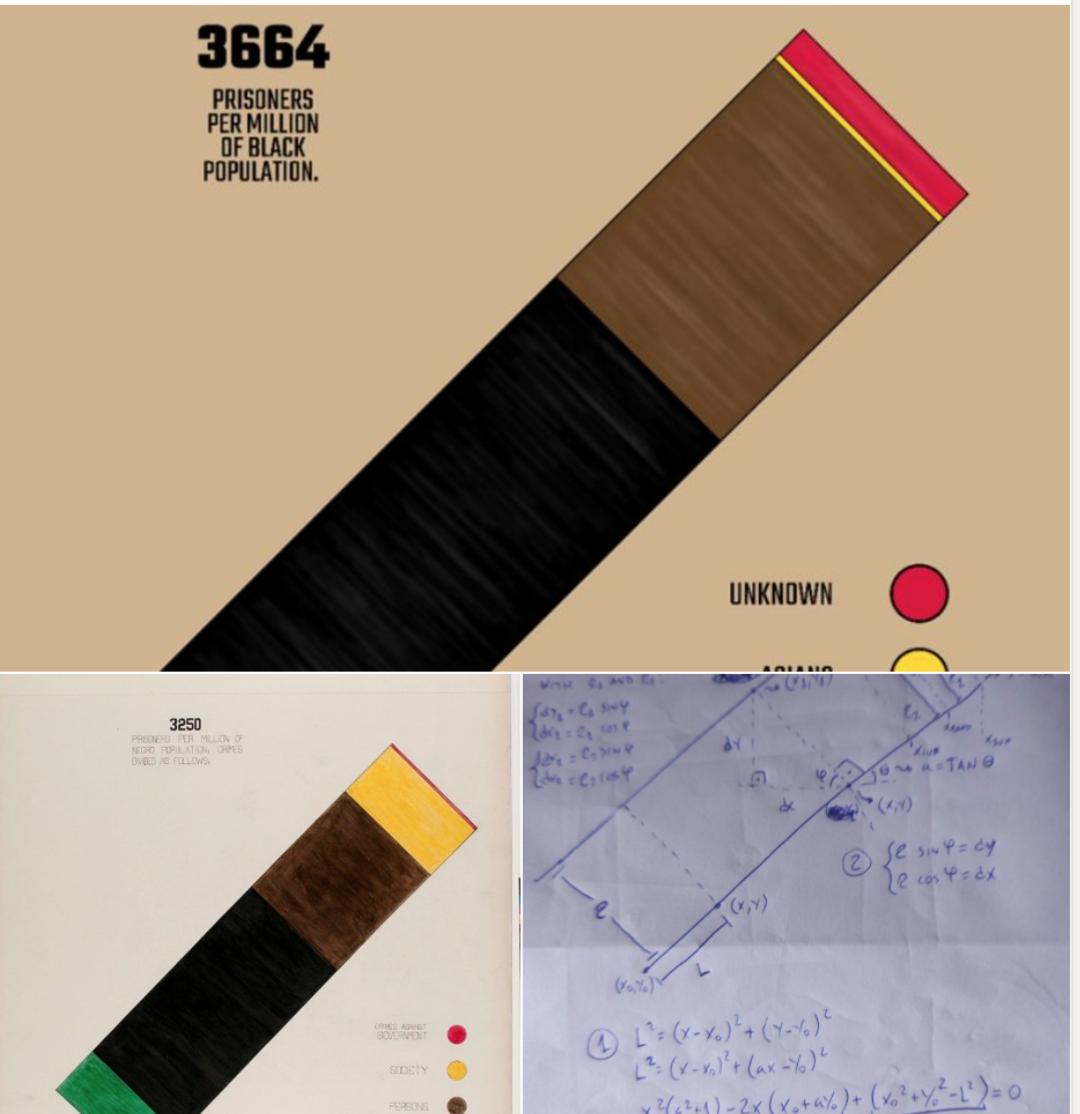


Anthony Starks likes this

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

DVS Slack



Tuesday, February 21st

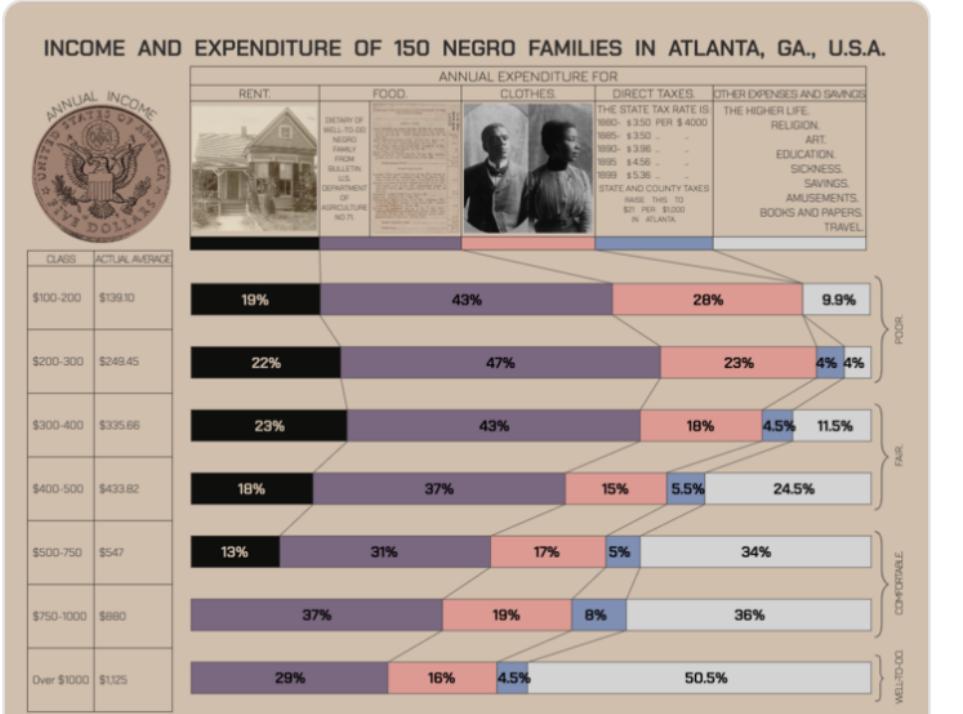
potatodax 🍟 4:03 PM

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)



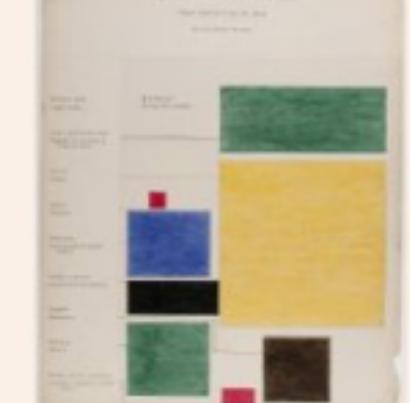
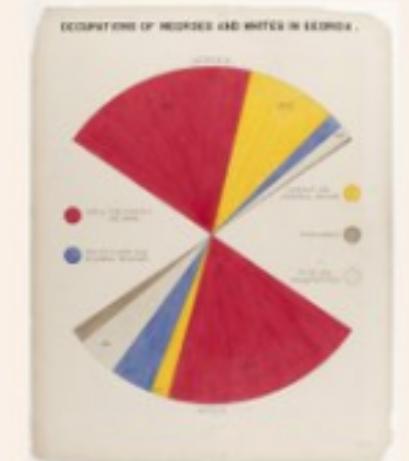
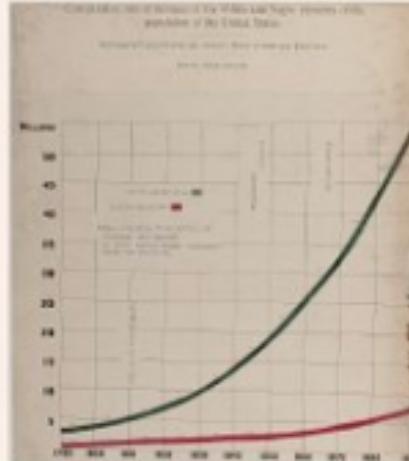
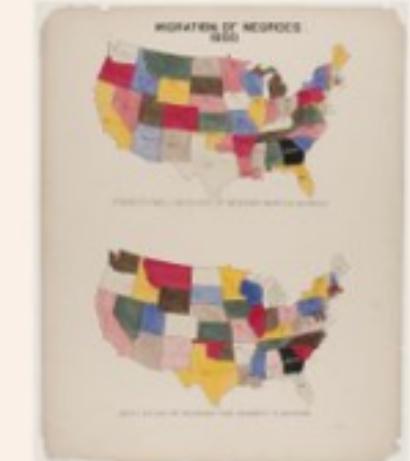
1 2 1 1 reply 1 month ago

# The Announcement

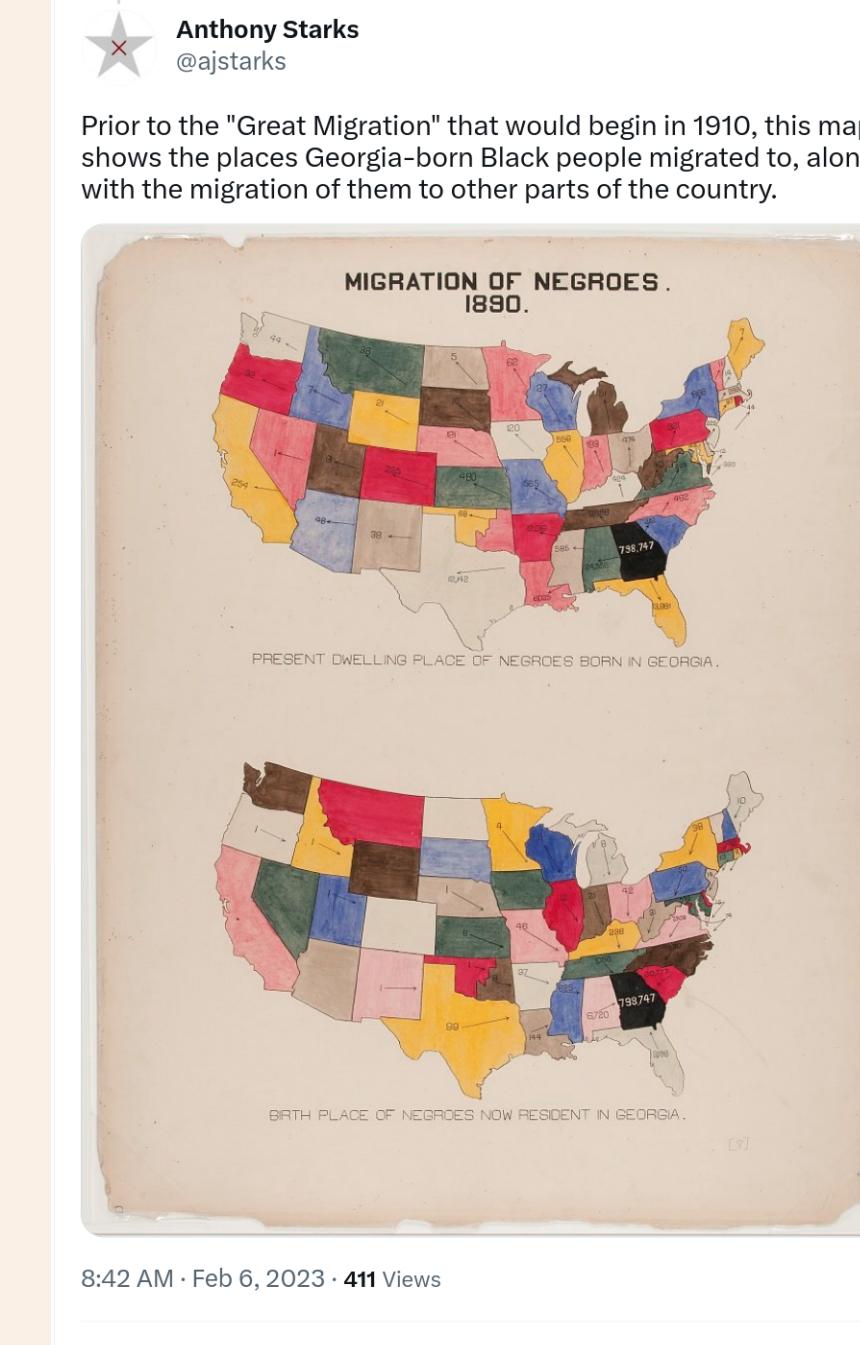
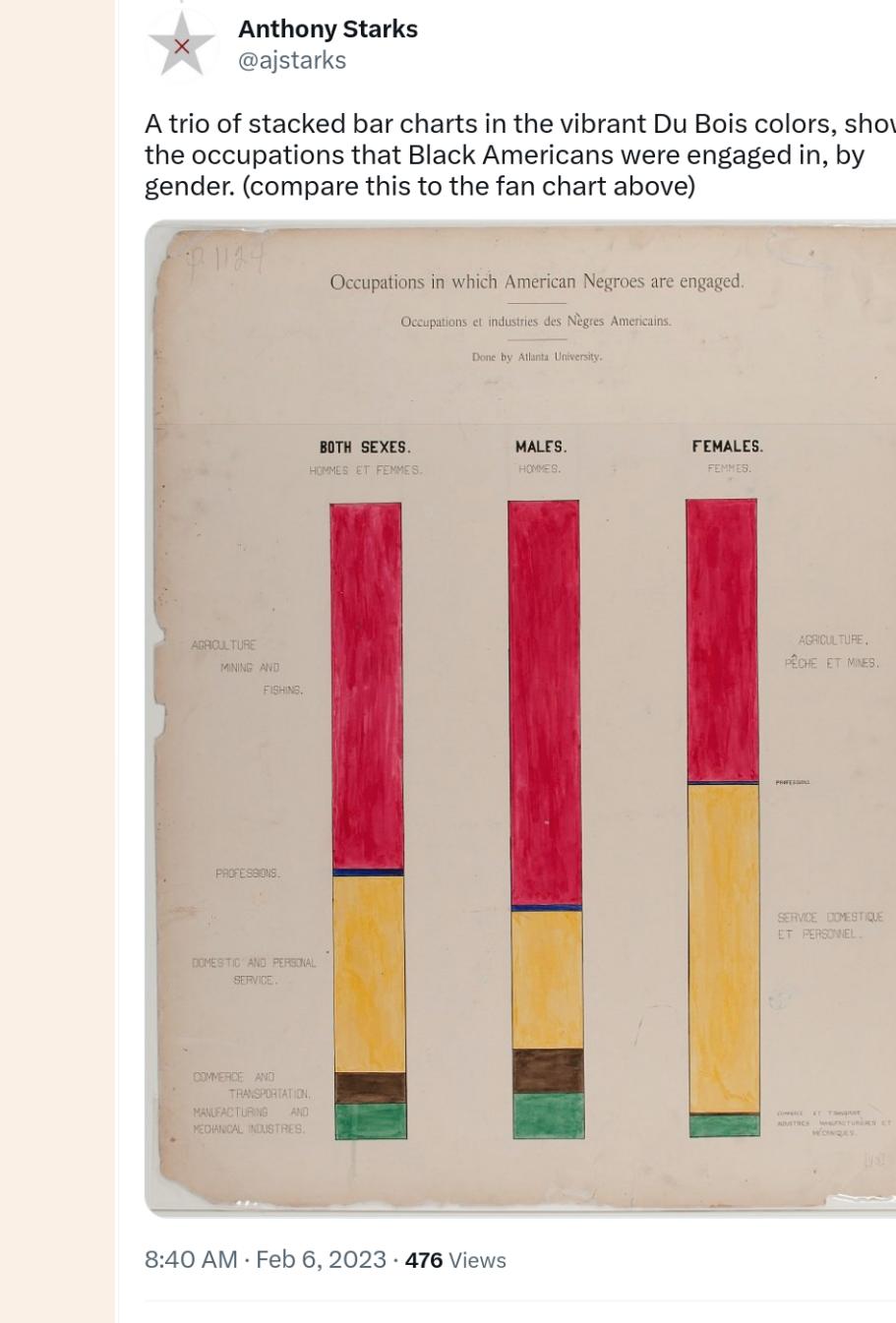
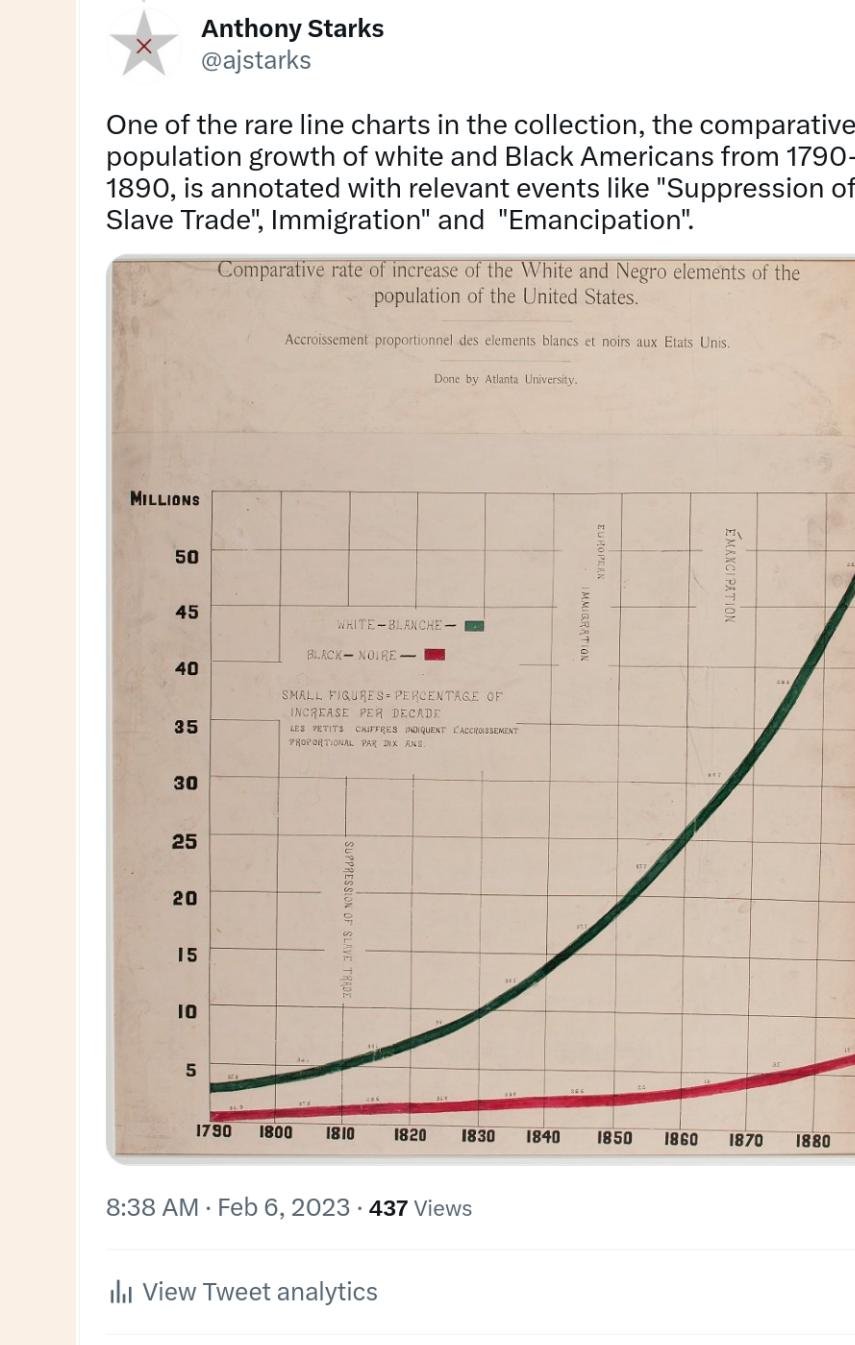
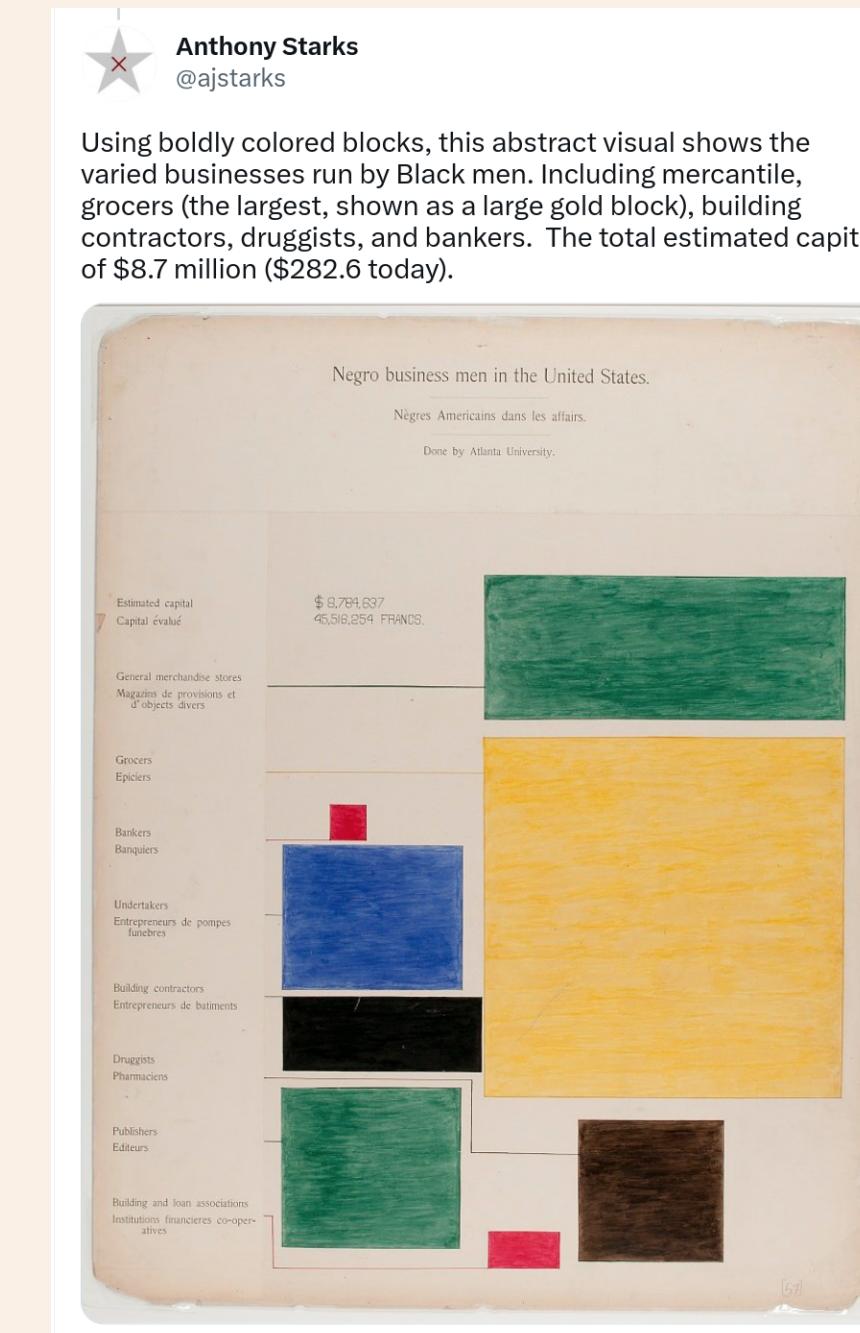
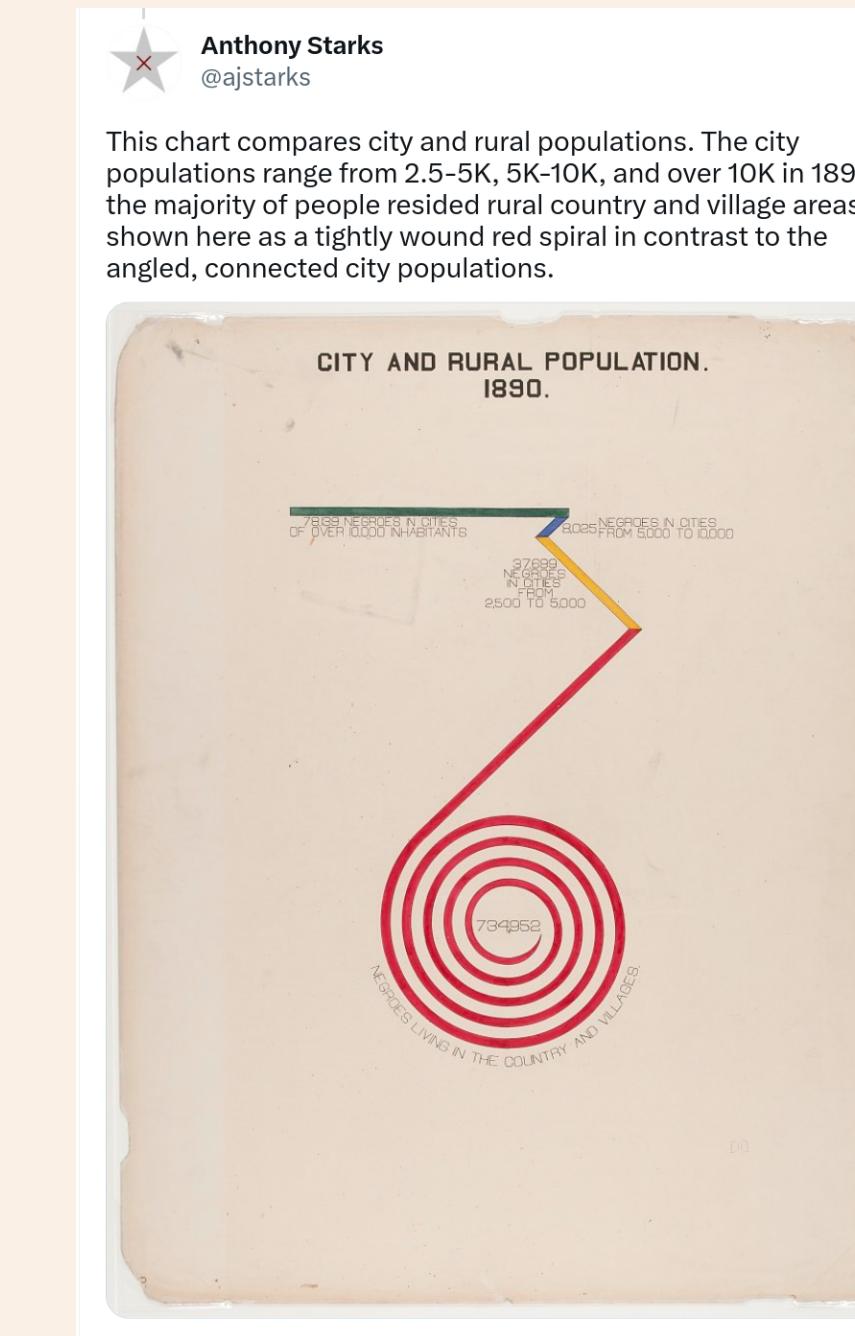
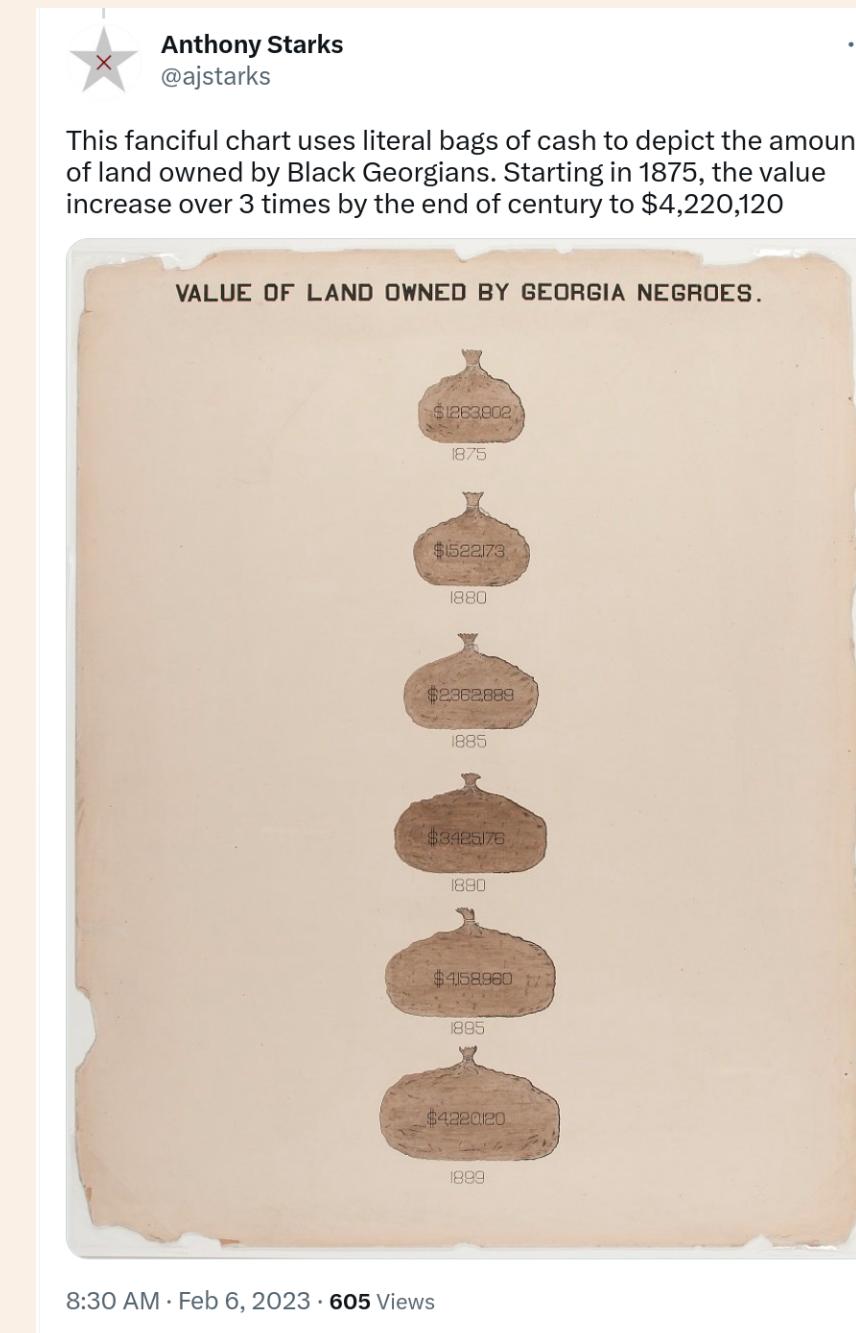
 Anthony Starks  
@ajstarks ...

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...](https://github.com/ajstarks/duboi...)

#DuBoisChallenge2023

|   |   |   |   |   |
|---|---|---|---|---|
| 01  | 02  | 03  | 04  | 05  |
|                |  |  |  |  |
| 06  | 07  | 08  | 09  | 10  |
| <br><b>ALT</b> |  |  |  |  |

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.**

| ANNUAL EXPENDITURE FOR | Tax        | Rent | Other | Food | Clothes |
|------------------------|------------|------|-------|------|---------|
| \$100-200              | \$139.10   | 19%  | 43%   | 28%  | 10%     |
| \$200-300              | \$249.45   | 22%  | 47%   | 23%  | 5%      |
| \$300-400              | \$335.66   | 23%  | 43%   | 18%  | 12%     |
| \$400-500              | \$433.82   | 18%  | 37%   | 15%  | 6%      |
| \$500-750              | \$547.00   | 13%  | 31%   | 17%  | 5%      |
| \$750-1000             | \$880.00   | 37%  | 19%   | 8%   | 36%     |
| Over \$1000            | \$1,125.00 | 29%  | 16%   | 5%   | 51%     |

**VALUE OF LAND OWNED BY BLACK PEOPLE IN GEORGIA.**

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).**

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  
@IcaroBSC | @IcaroBernardes | @icarobsc

**3664** PRISONERS PER MILLION OF BLACK POPULATION.

DATA: 2011 ROMANIAN CENSUS (AGE: 10+) #DUBOISCHALLENGE2023 - @ARNOLD\_PLATON

Applied Data Science at UST @UST\_MSDS · Mar 5

**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**

DATA: 2011 ROMANIAN CENSUS (AGE: 10+) #DUBOISCHALLENGE2023 - @ARNOLD\_PLATON

**becca b.** [@geeky\\_bb](#)

#DuBoisChallenge2023 @tableaupublic

Link: [tinyurl.com/4nme5ny9](https://tinyurl.com/4nme5ny9)

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

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

**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**

Occupation et industrie des Noirs Américains

Done by Atlanta University

BOTH SEXES HOMMES FEMMES MALES HOMMES FEMMES FEMMES

AGRICULTURE MINING AND FISHING DOMESTIC AND PERSONAL SERVICE COMMERCE AND TRANSPORTATION MANUFACTURING AND MECHANICAL INDUSTRIES SERVICE DOMESTIQUE ET PERSONNEL

Data : DuBoisChallenge2023 | Viz : @stepminer2

6:17 PM · Mar 11, 2023 · 998 Views

3 Retweets 9 Likes

**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.**

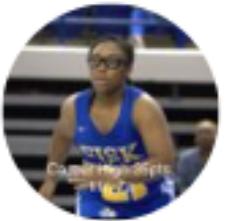
PRESENT DWELLING PLACE OF NEGROES BORN IN GEORGIA

BIRTHPLACE OF NEGROES NOW RESIDENT IN GEORGIA

12:34 AM · Mar 10, 2023 · 933 Views

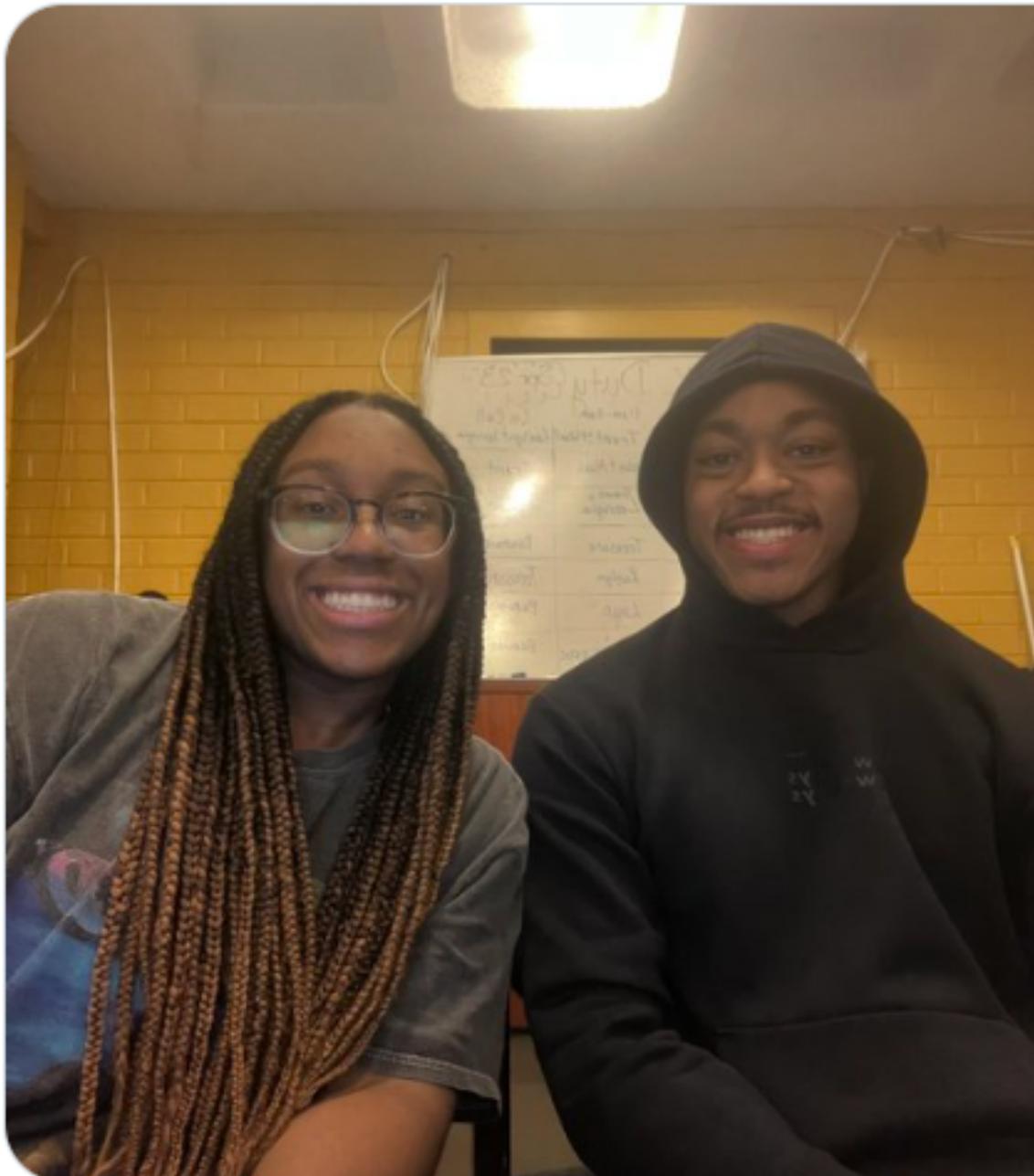
3 Retweets 11 Likes

# Fisk Students



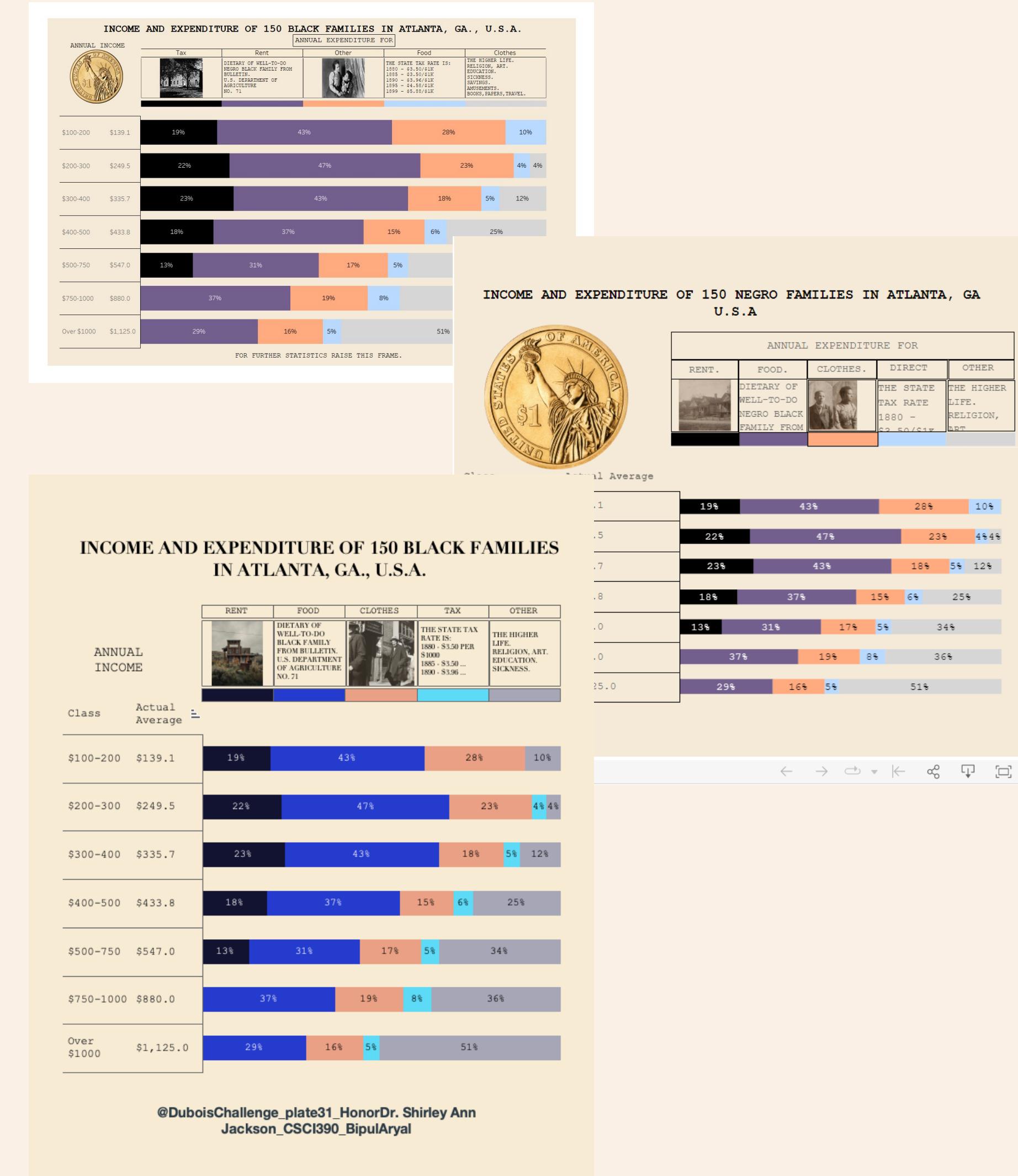
Laila Eliotti  
@only1\_laila

Trent and I just finished challenge 1 of the  
[#DuboisChallenge2023!](#) @lena\_is\_light



11:10 PM · Feb 15, 2023 · 1,905 Views

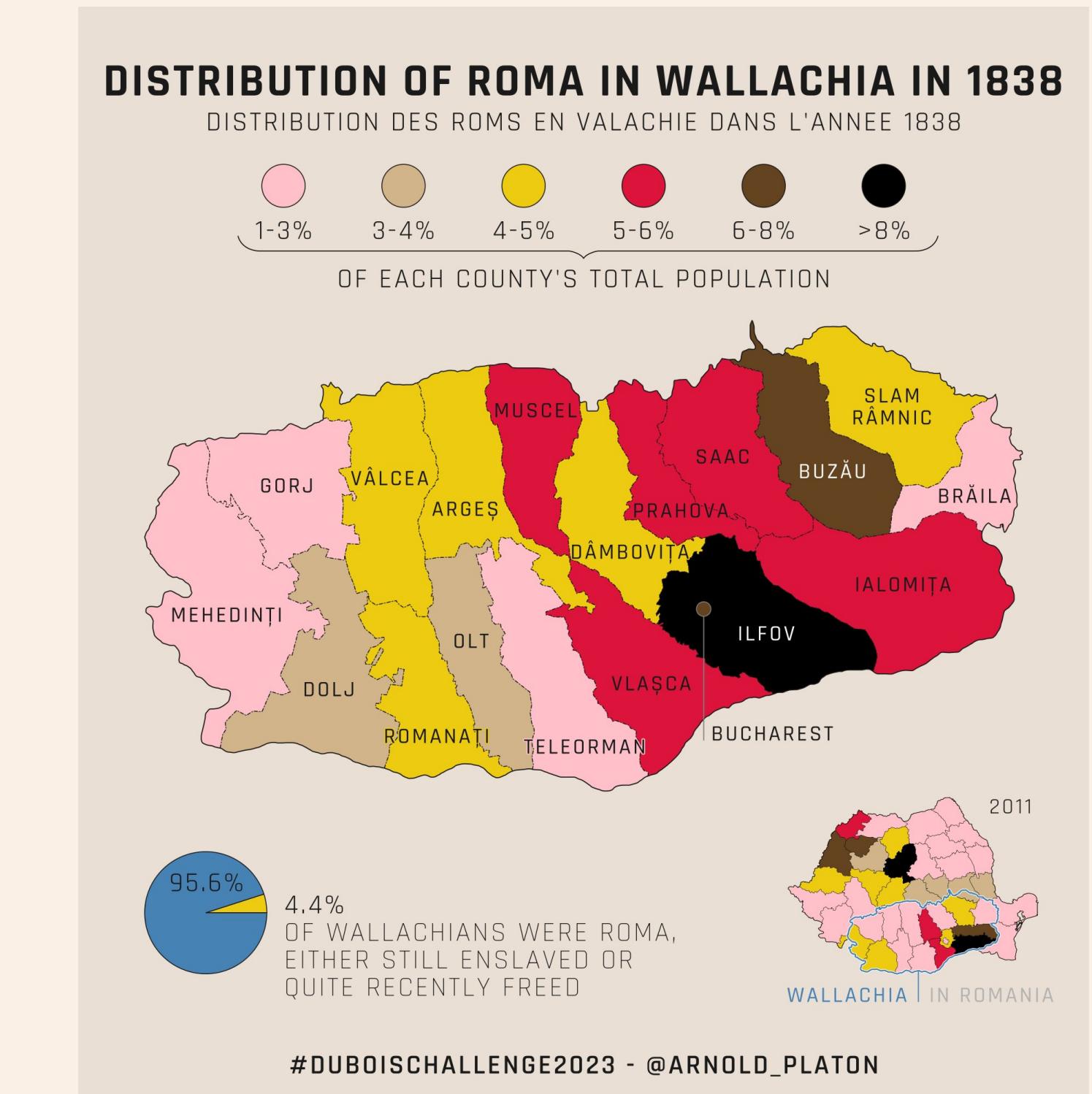
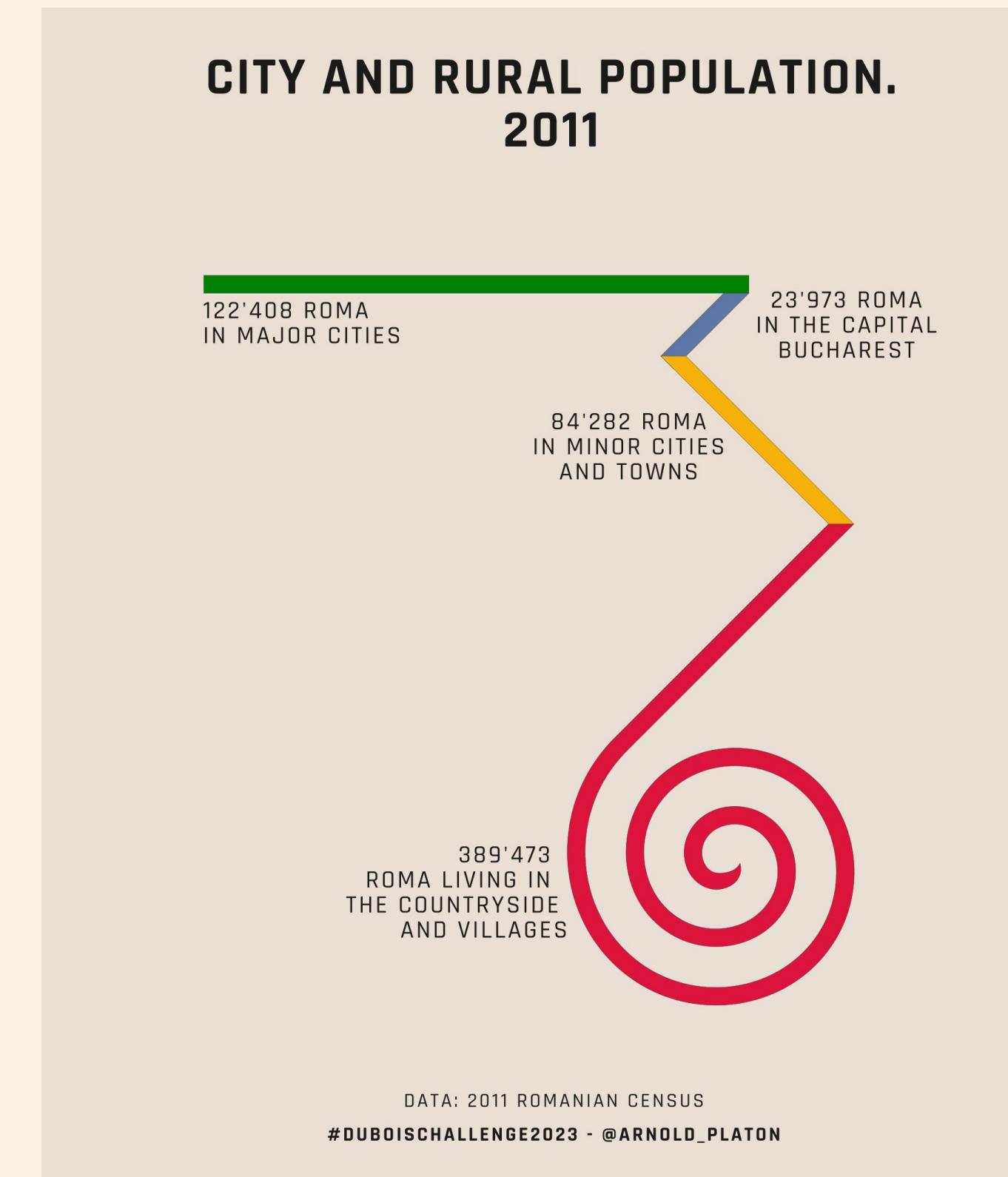
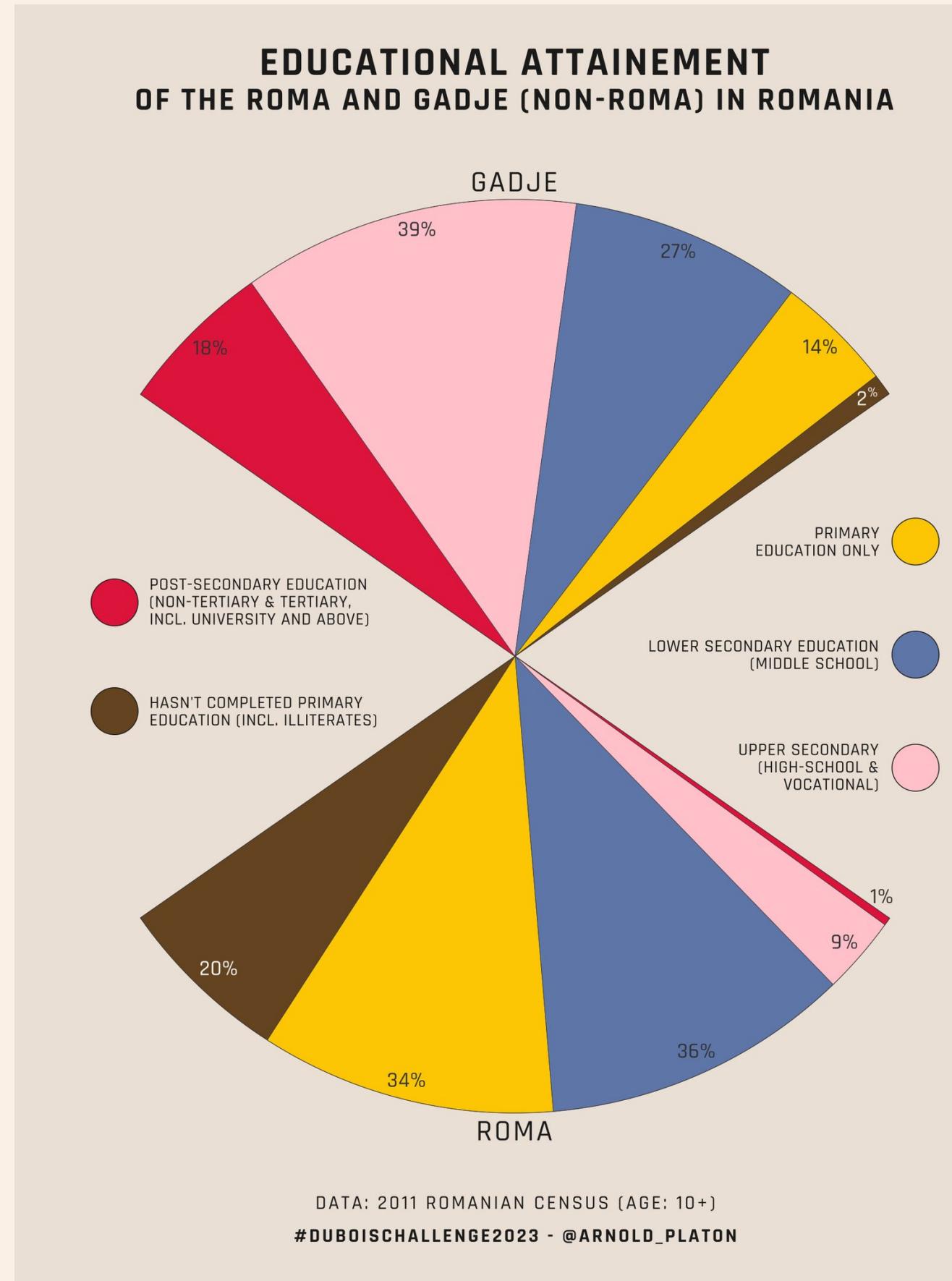
5 Retweets 1 Quote 16 Likes



@DuboisChallenge\_plate31\_HonorDr. Shirley Ann Jackson\_CSCI390\_BipulAryal

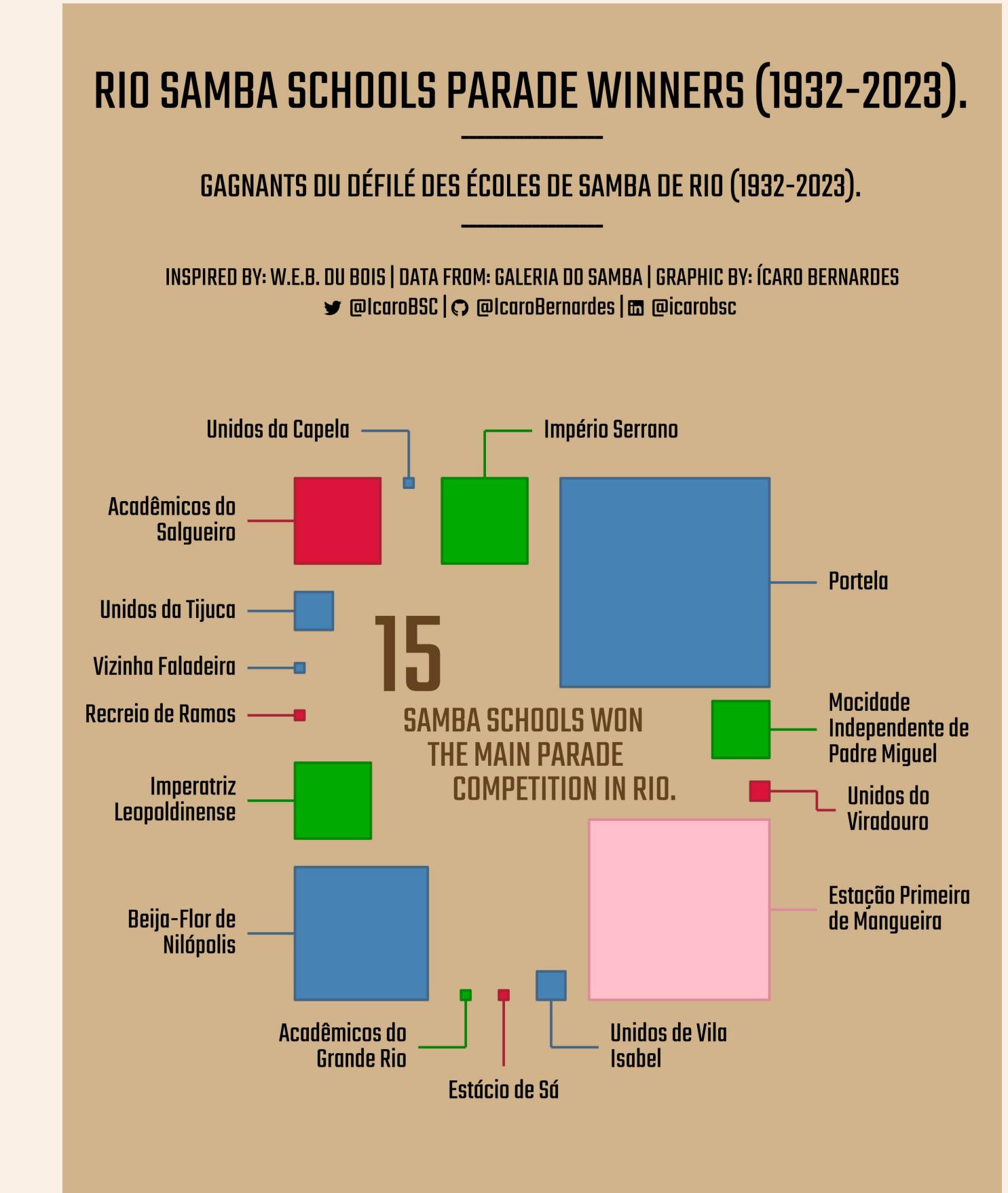
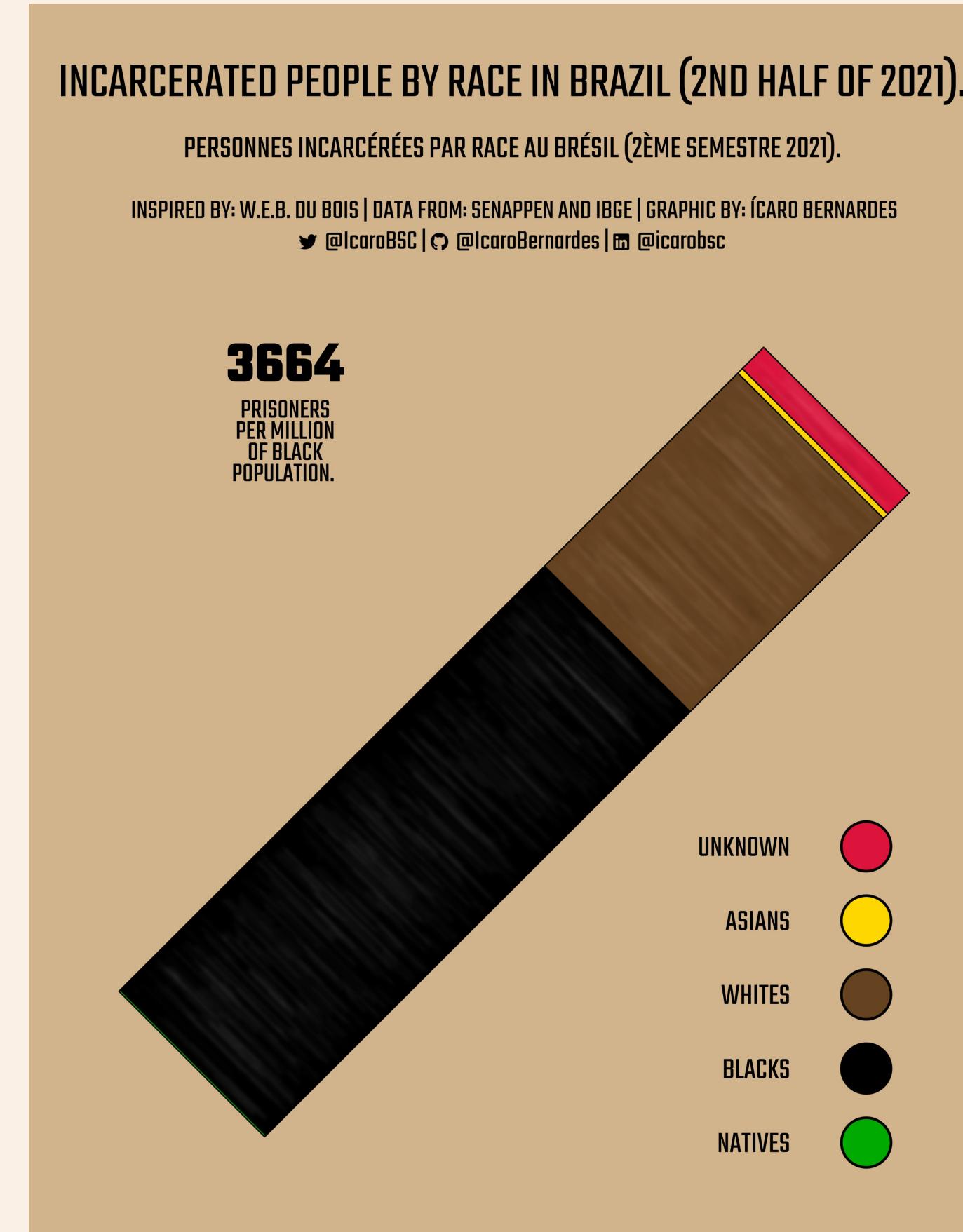
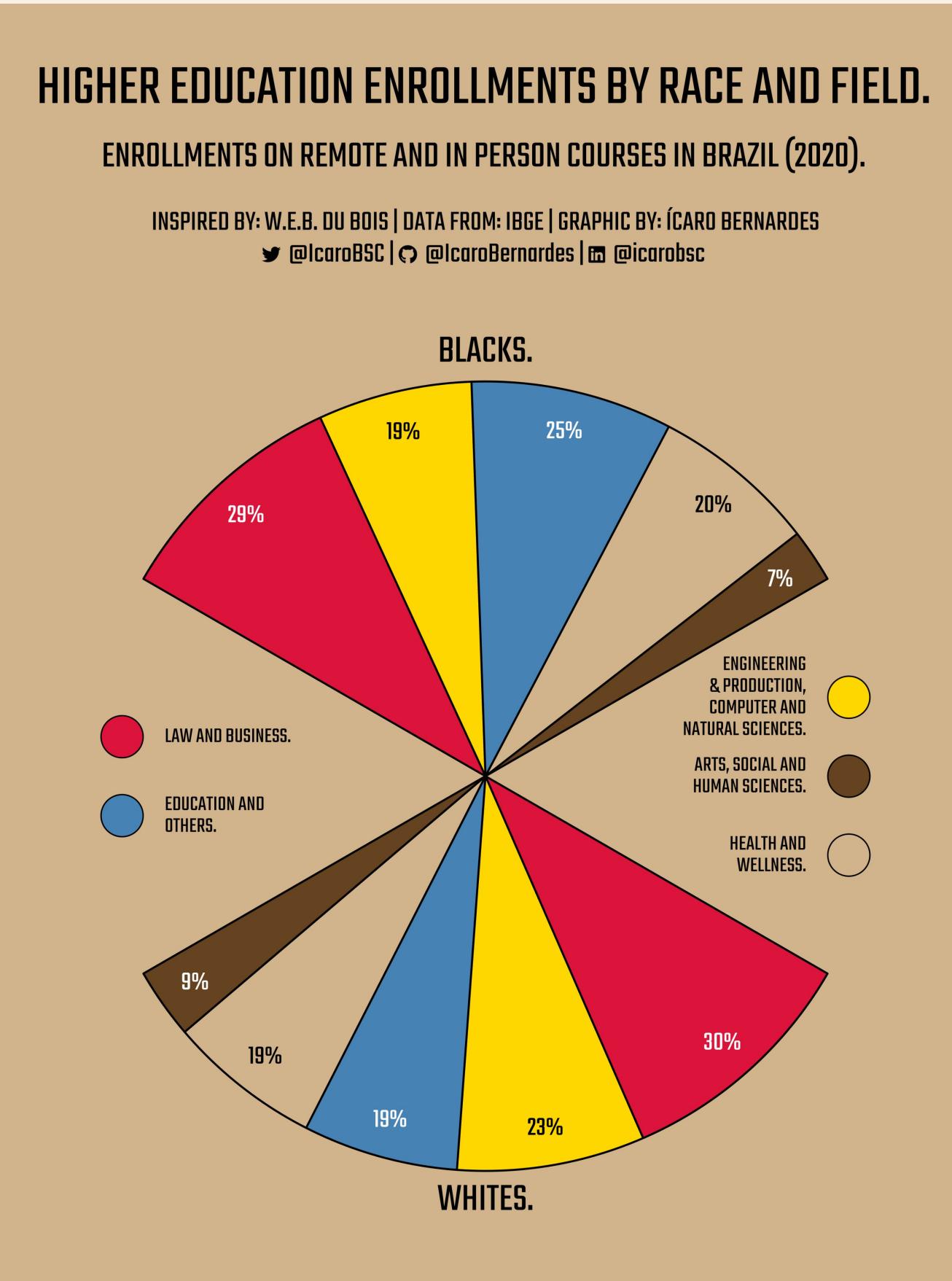


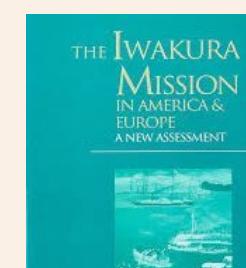
# Arnold Platon (@Arnold\_Platon)



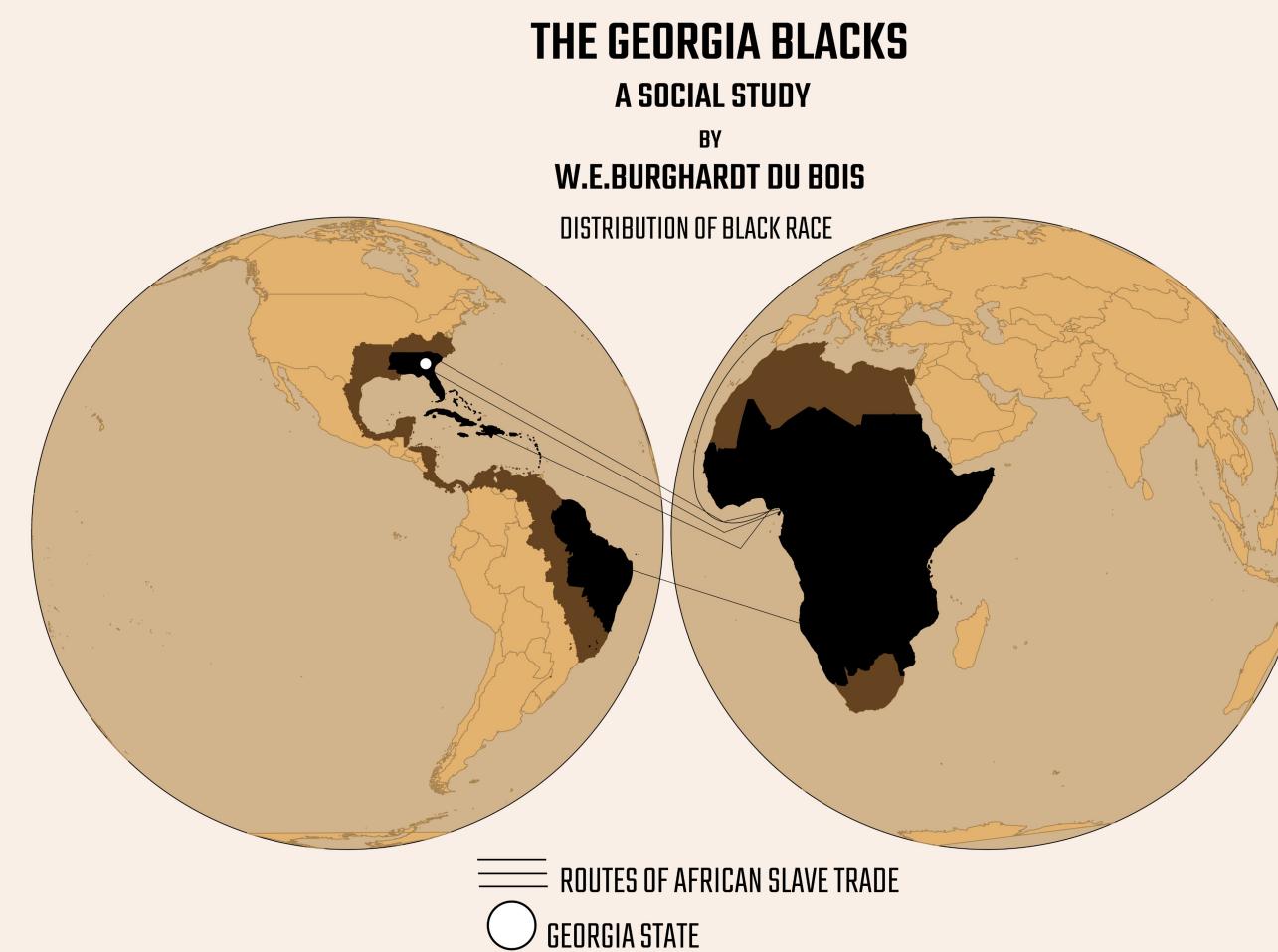


# Ícaro Bernardes (@IcaroBSC)





# Hemeed (@725Hemeed)

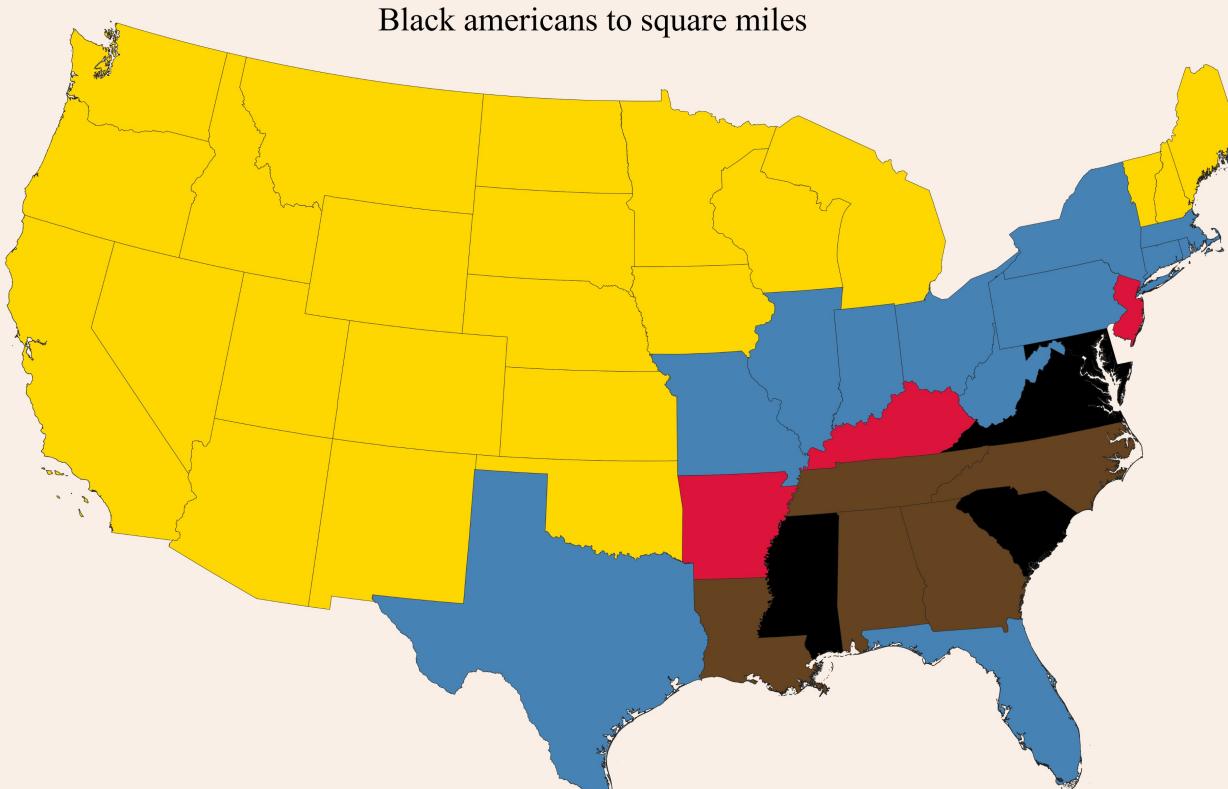
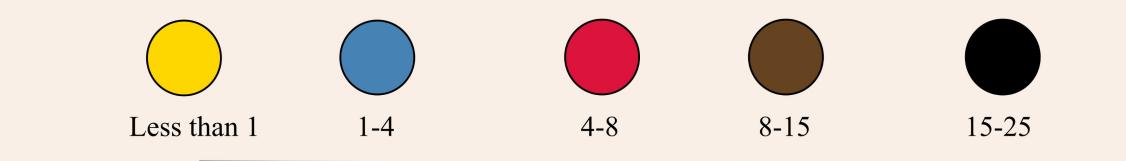


THIS CASE IS DEVOTED TO A SERIES OF CHARTS, MAPS AND OTHER DEVICES DESIGNED TO ILLUSTRATE DEVELOPMENT OF BLACK AMERICAN IN A SINGLE TYPICAL STATE OF UNITED STATES.

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

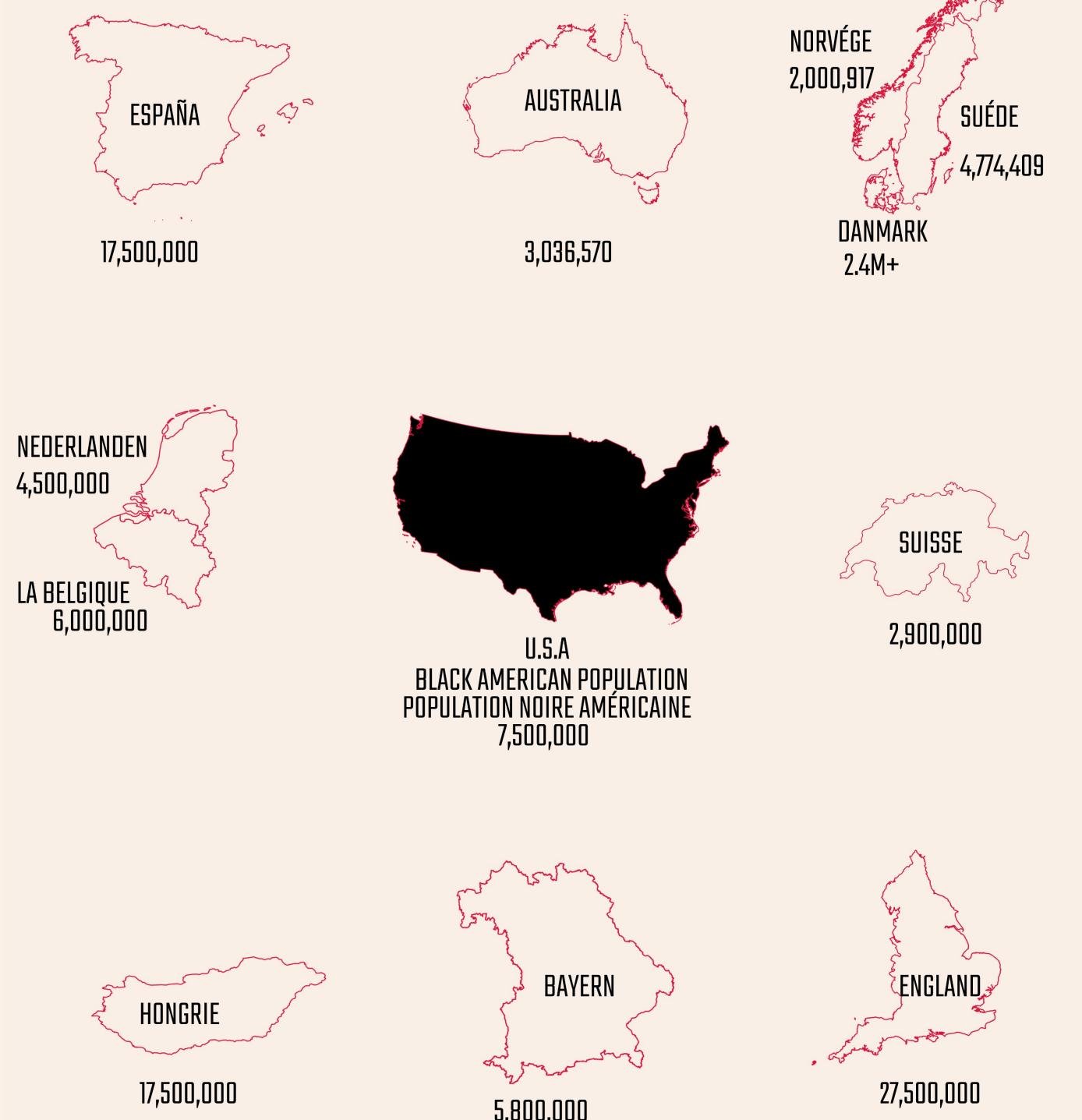
Created by Hemed Lungo | #DuBoisChallenge2023

## 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

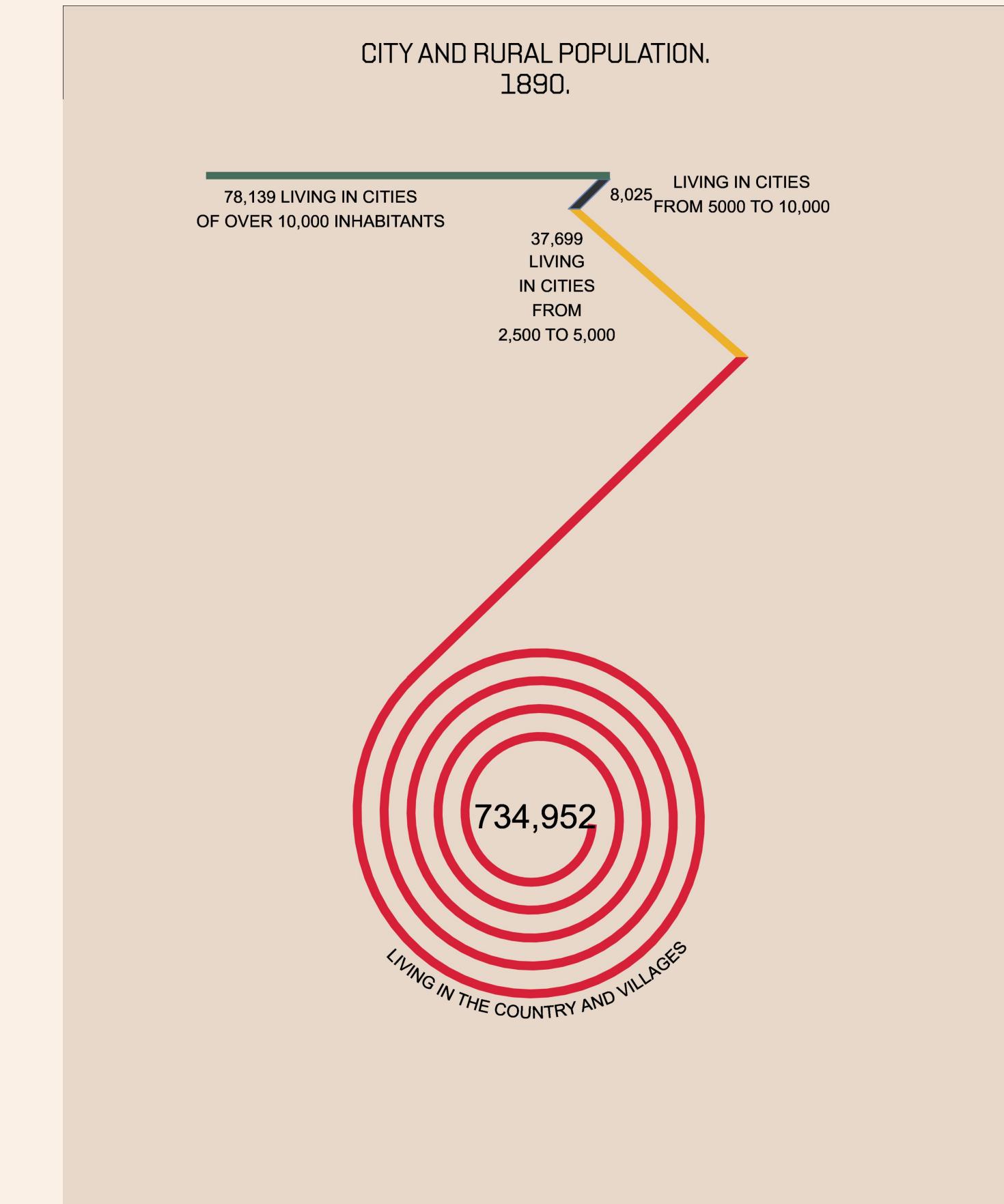
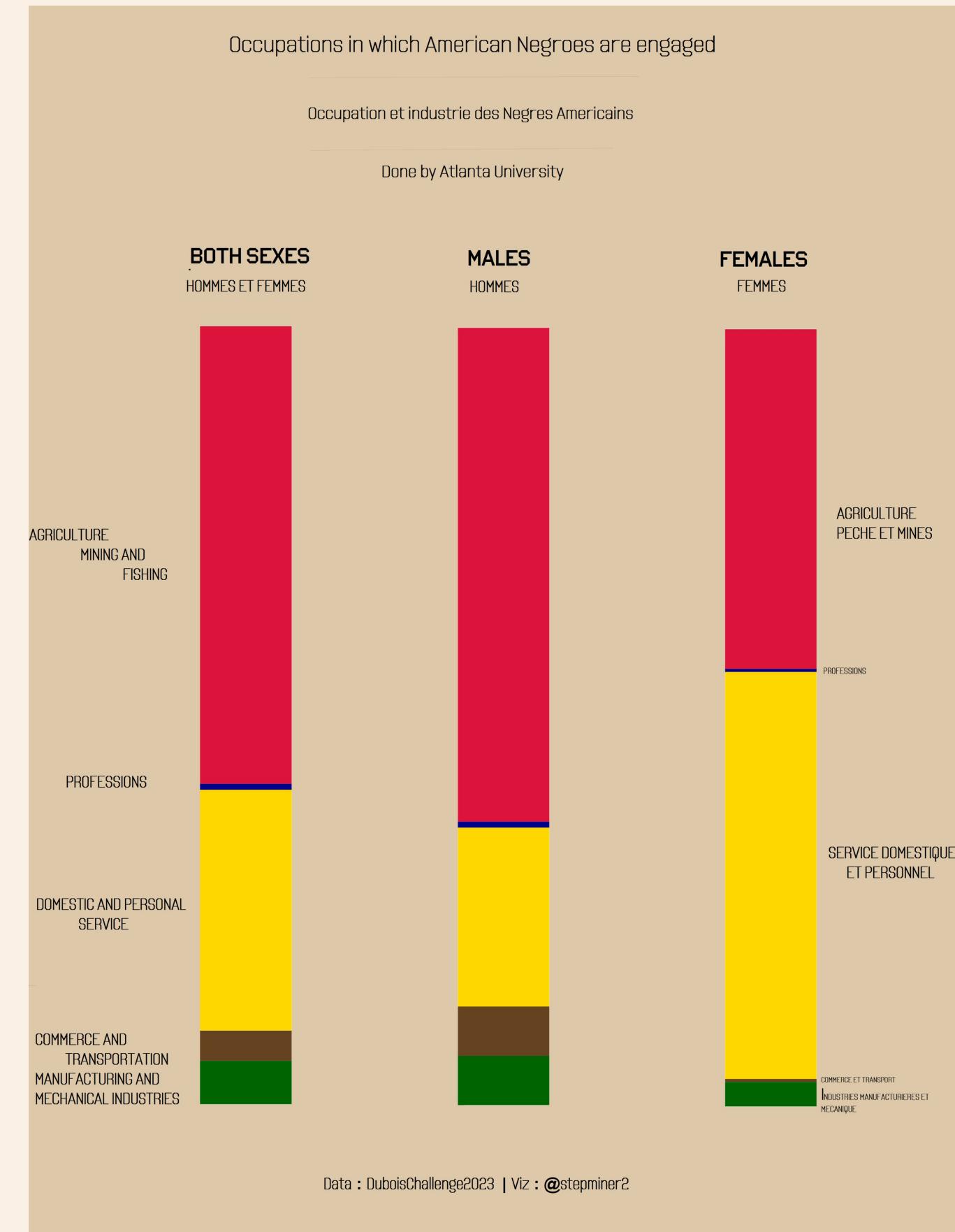
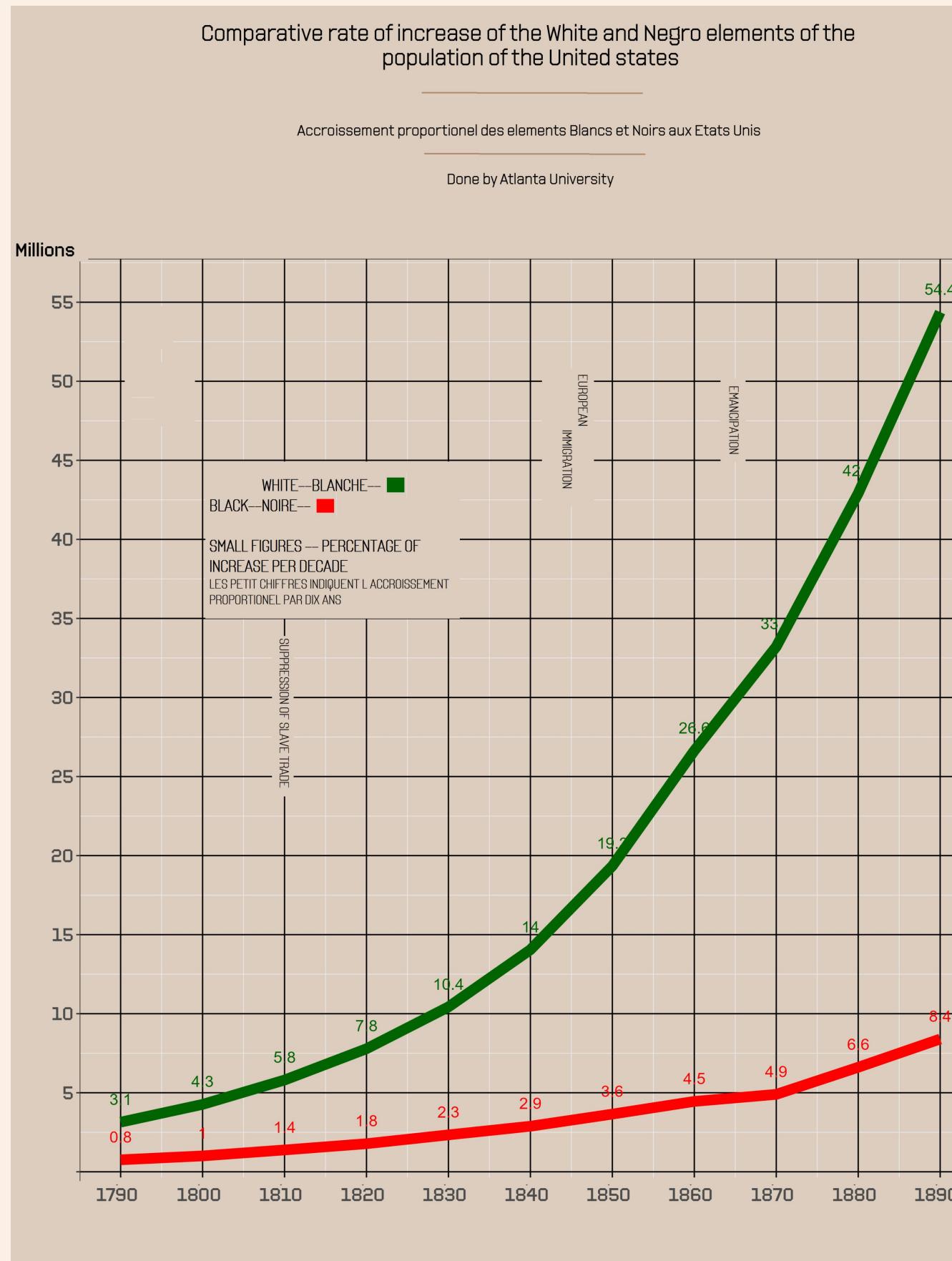
DONE BY ATLANTA UNIVERSITY



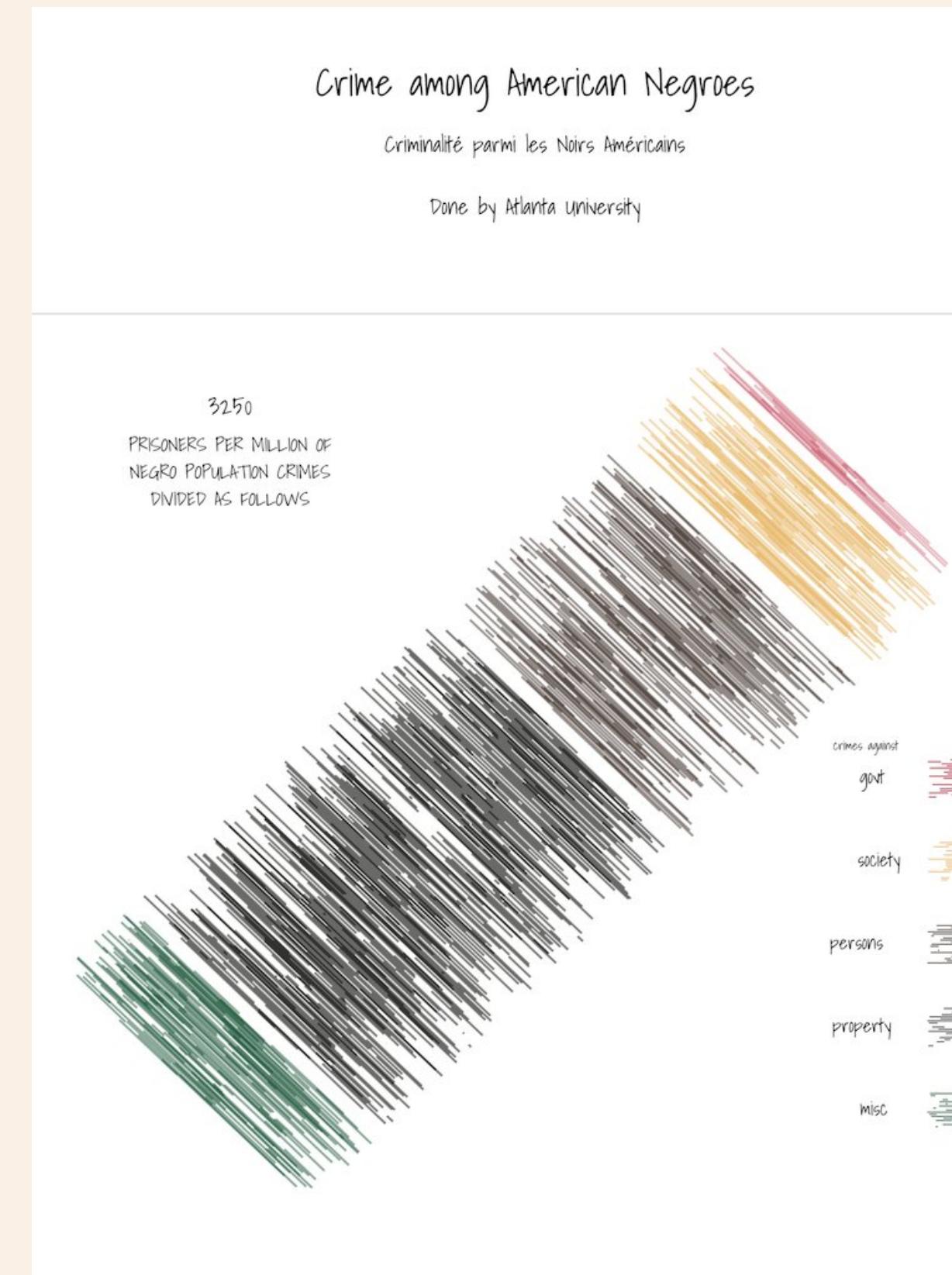
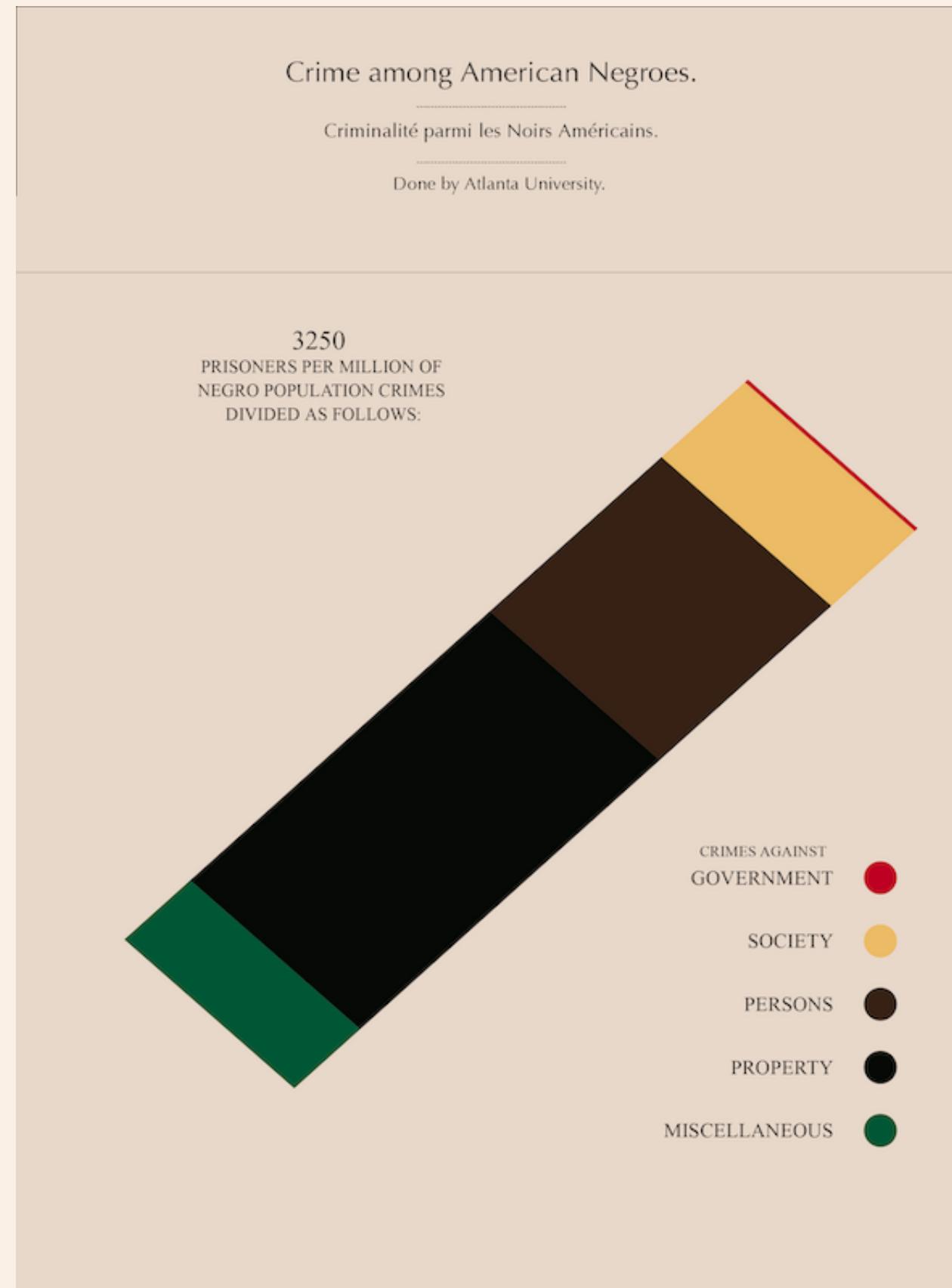
#DuBoisChallenge | Created by Hemed Lungo



# Patrick Stephenson (@stepminer2)



# Applied Data Science at UST (@UST\_NSDS)



Digital “Brush” Strokes

# Galleries



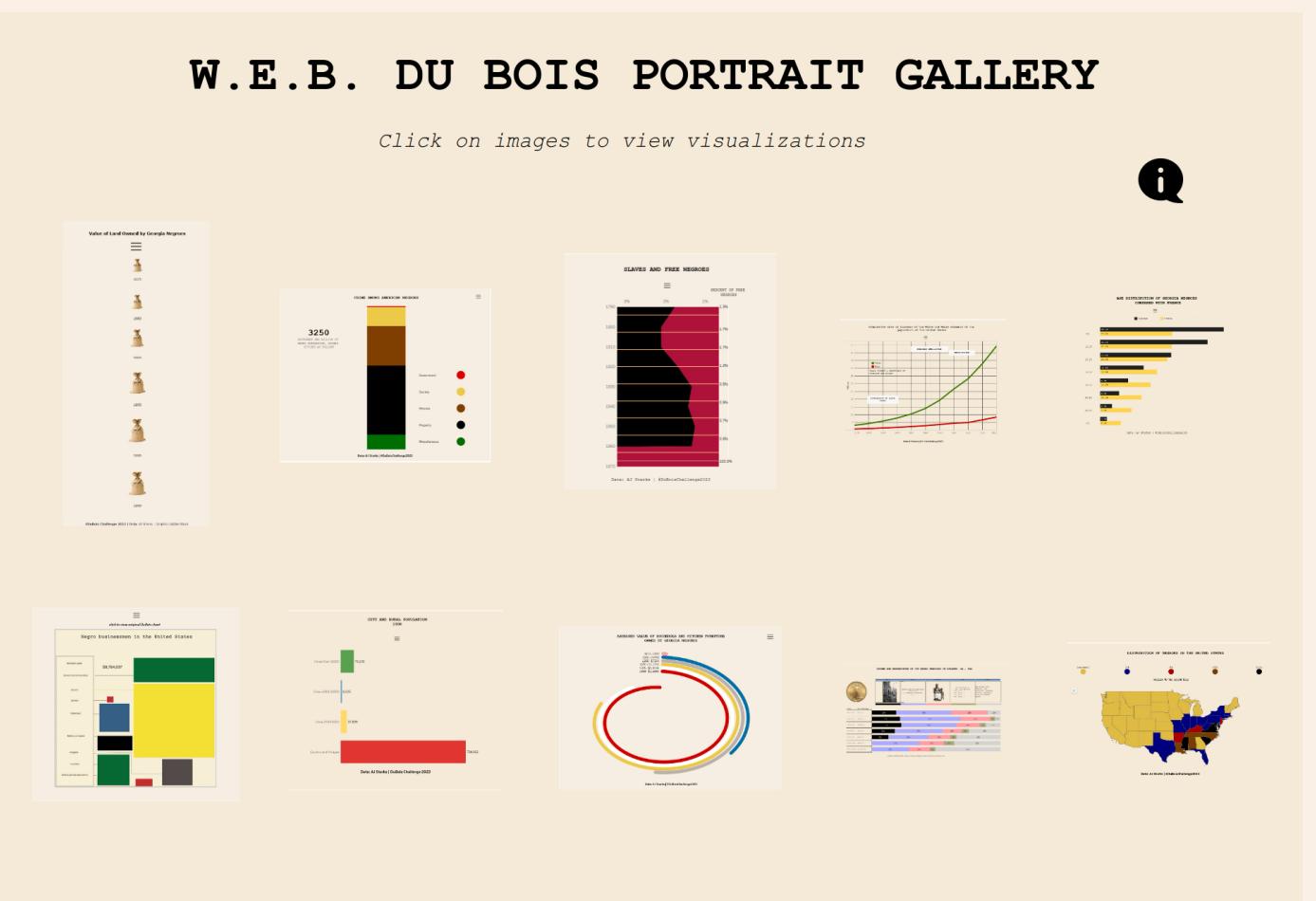
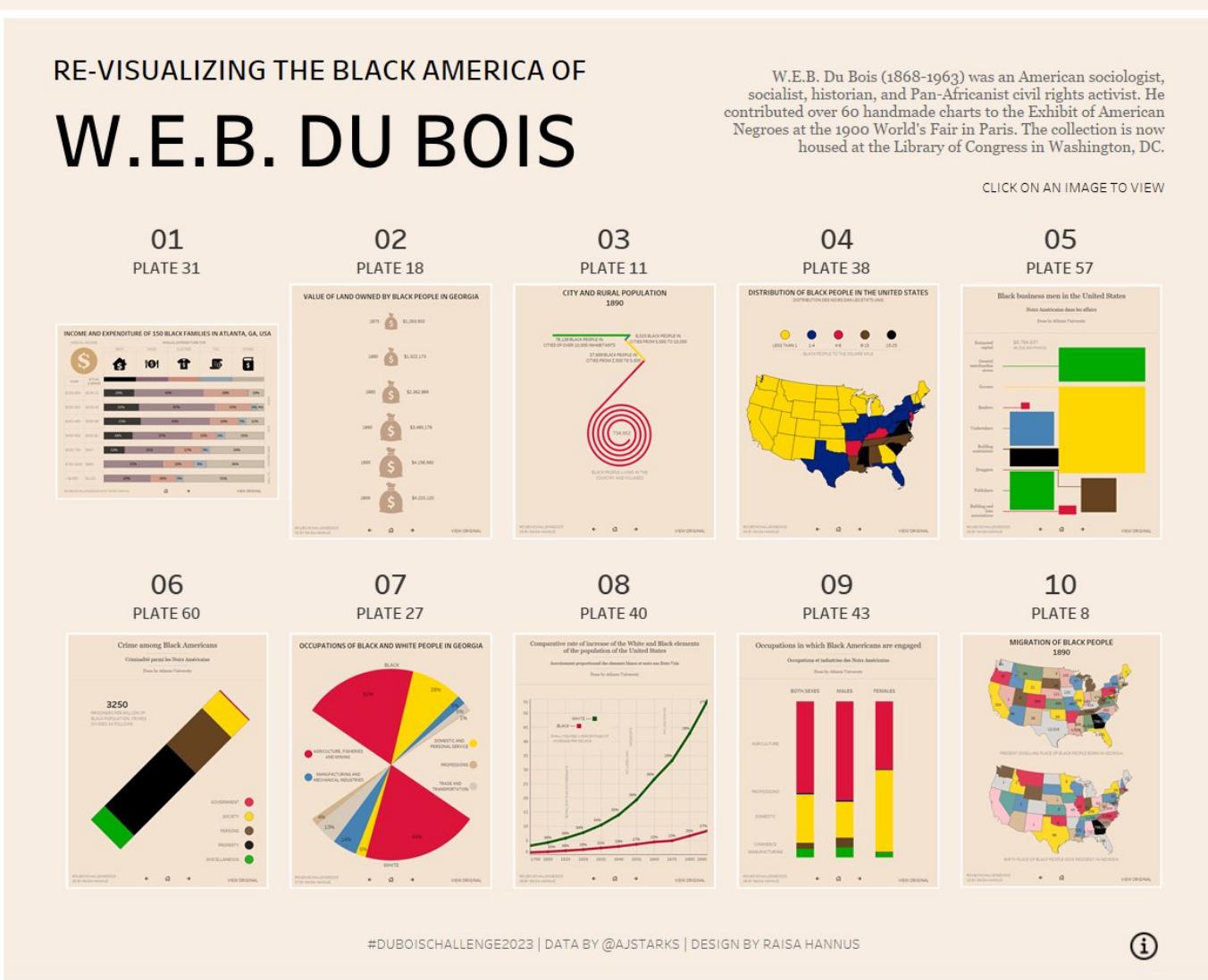
@blu7ip



@NYCapricorn



@ItsElisaDavis



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

Reinterpreted by Elisa Davis.

#DuBoisChallenge2023

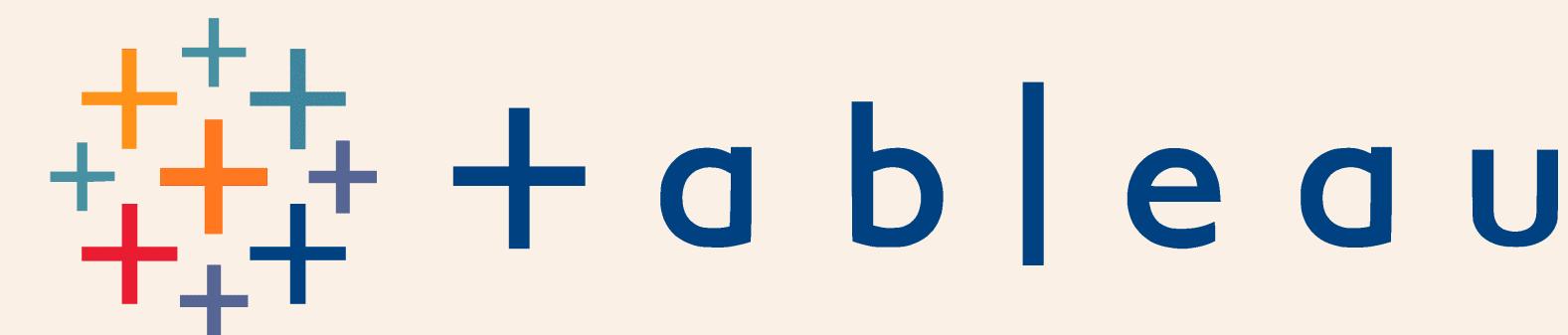
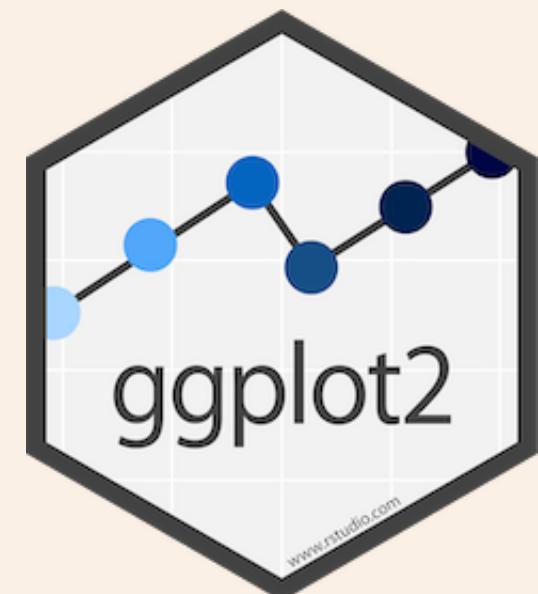
The goal of the challenge is to celebrate the data visualization legacy of W.E.B. DuBois by recreating the visualizations from the 1900 Paris Exposition using modern tools.

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

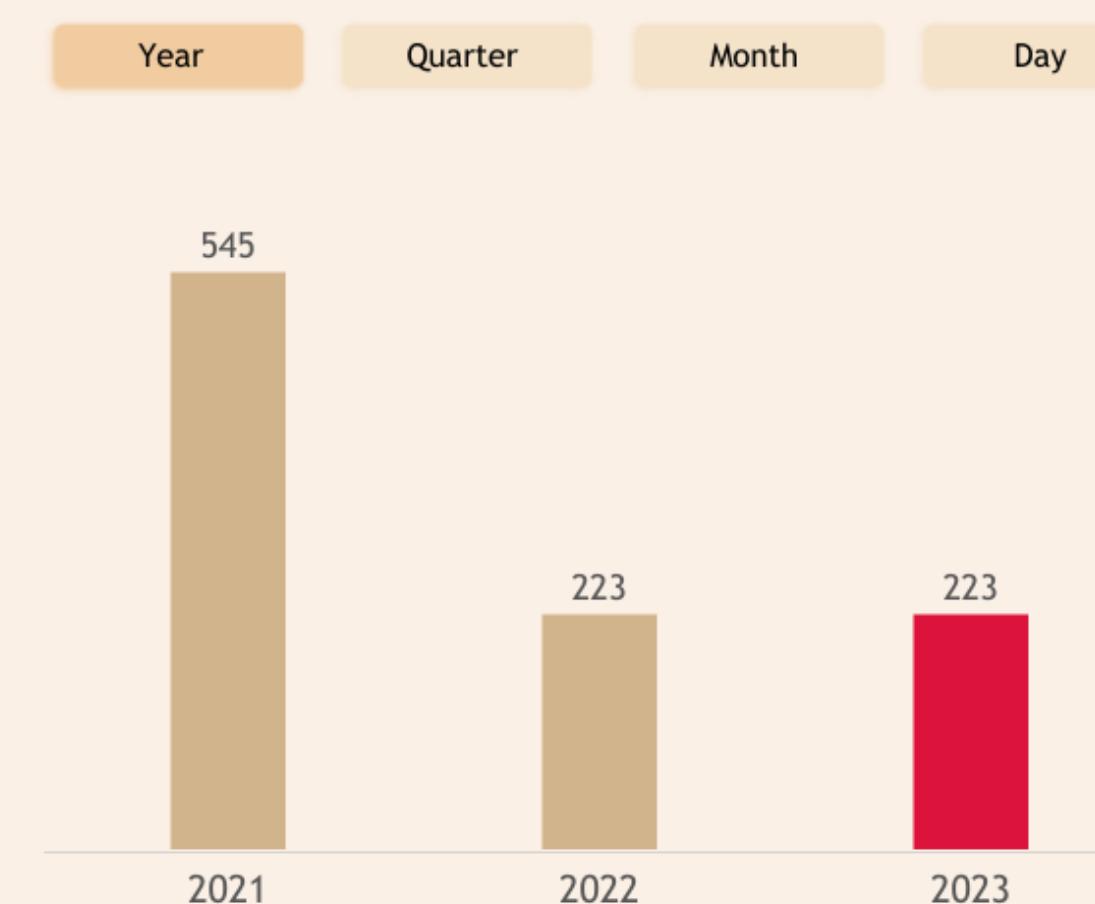
The goal of the #DuBoisChallenge is to celebrate the data visualization legacy of W.E.B DuBois by recreating the visualizations from the 1900 Paris Exposition using modern tools. This dashboard explores the Twitter activity during the challenge.

## Tweet Summary



## Tweets Over Time

Select a date granularity to filter the view  
Hover for details



[2023 Activity](#) | [Other Years](#)

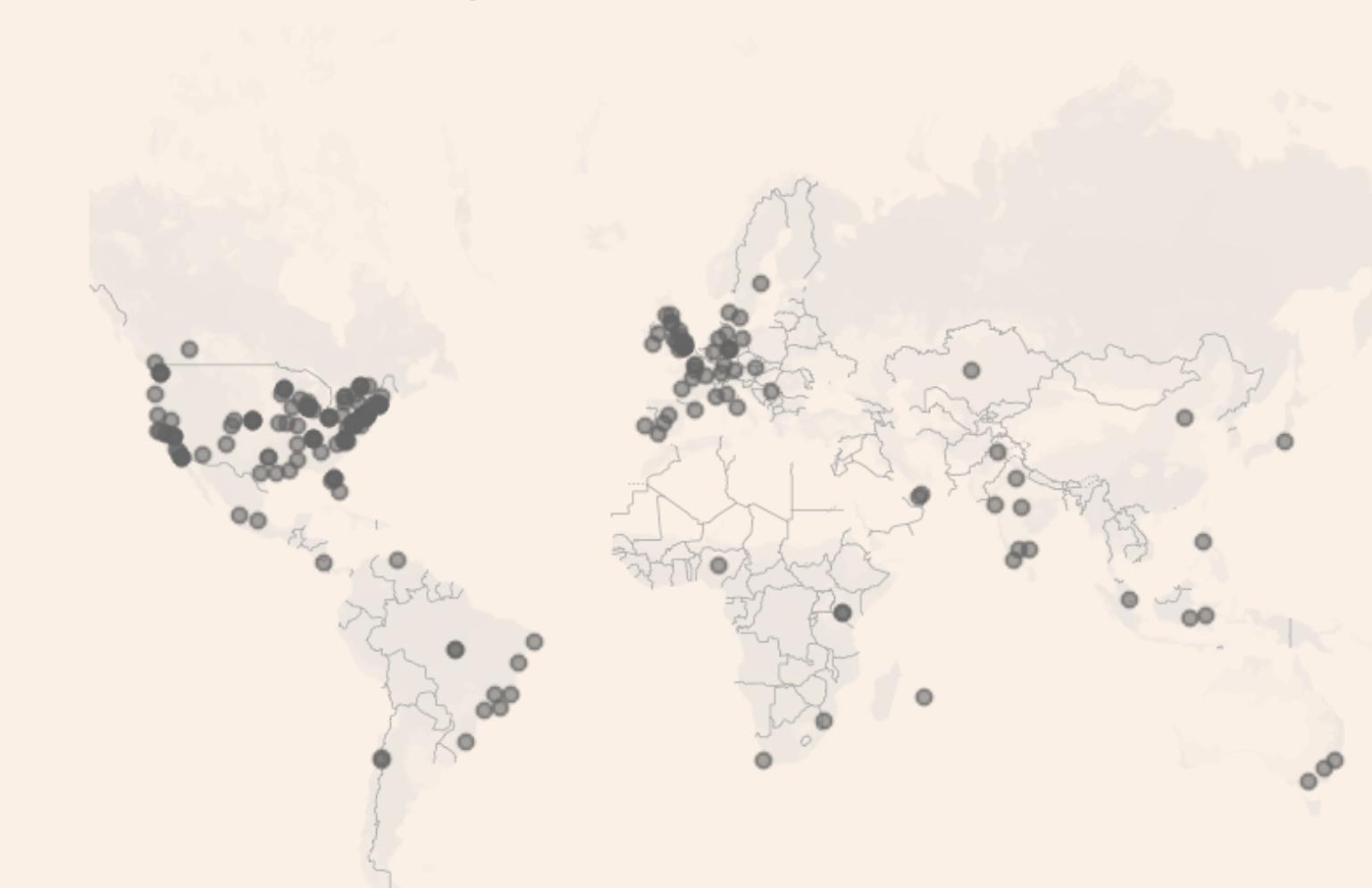
- Verified User



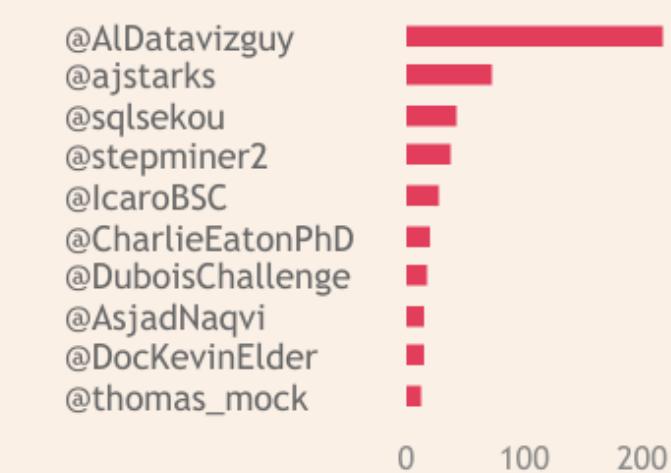
Change Theme



**Location of Participants** | Hover to view participant



## Top 10 Users by Tweets



## Top 10 Users by Followers



#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 visualizaÃ§Ã£o 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](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

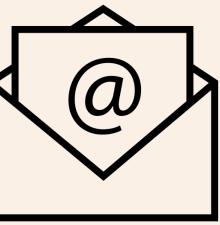
<https://speakerdeck.com/ajstarks/du-bois-visualizations-originals>

Style Guide

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

# Anthony J. Starks

## Art + Code



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



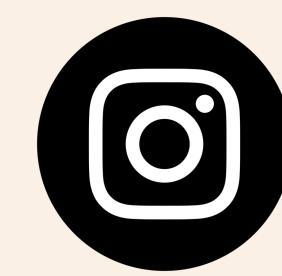
[github.com/ajstarks](https://github.com/ajstarks)



[speakerdeck.com/ajstarks](https://speakerdeck.com/ajstarks)



[linkedin.com/in/ajstarks](https://linkedin.com/in/ajstarks)



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