

Toochukwu Ifezie [@TIfiezie37321](#)

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%
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\$750-1000	\$880.00	37%	19%	8%	36%
Over \$1000	\$1,125.00	29%	16%	5%	51%

8:20 PM · Mar 14, 2023 · 840 Views

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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.

#DuBoisChallenge2023 Data: Anthony Starks | @ajstarks | Klaus Schulte | @profdrkschulte

6:12 AM · Feb 11, 2023 · 2,681 Views

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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

ALT

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Hemed [@725Hemeed](#)

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

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#DuboisChallenge2023 week 5 using ggplot. Code available at github.com/follisj/Dubois..

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@IcaroBSC | @icarobernardes | @icarobsc

3664 PRISONERS PER MILLION OF BLACK POPULATION.

UNKNOWN (red), ASIANS (yellow), WHITES (brown), BLACKS (black), NATIVES (green).

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

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

MILLIONS

ORIGINAL

SMALL FIGURES = PERCENTAGE OF INCREASE PER DECADE

1790 1800 1810 1820 1830 1840 1850 1860 1870 1880 1890

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

9:42 PM · Feb 16, 2023 · 1,130 Views

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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

BOTH SEXES HOMMES ET FEMMES MALES HOMMES FEMALES FEMMES

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

Data : DuboisChallenge2023 | V2 : @stepminer2

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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

Curating The #DuboisChallenge2023

Anthony Starks

In 1900, it began with them...

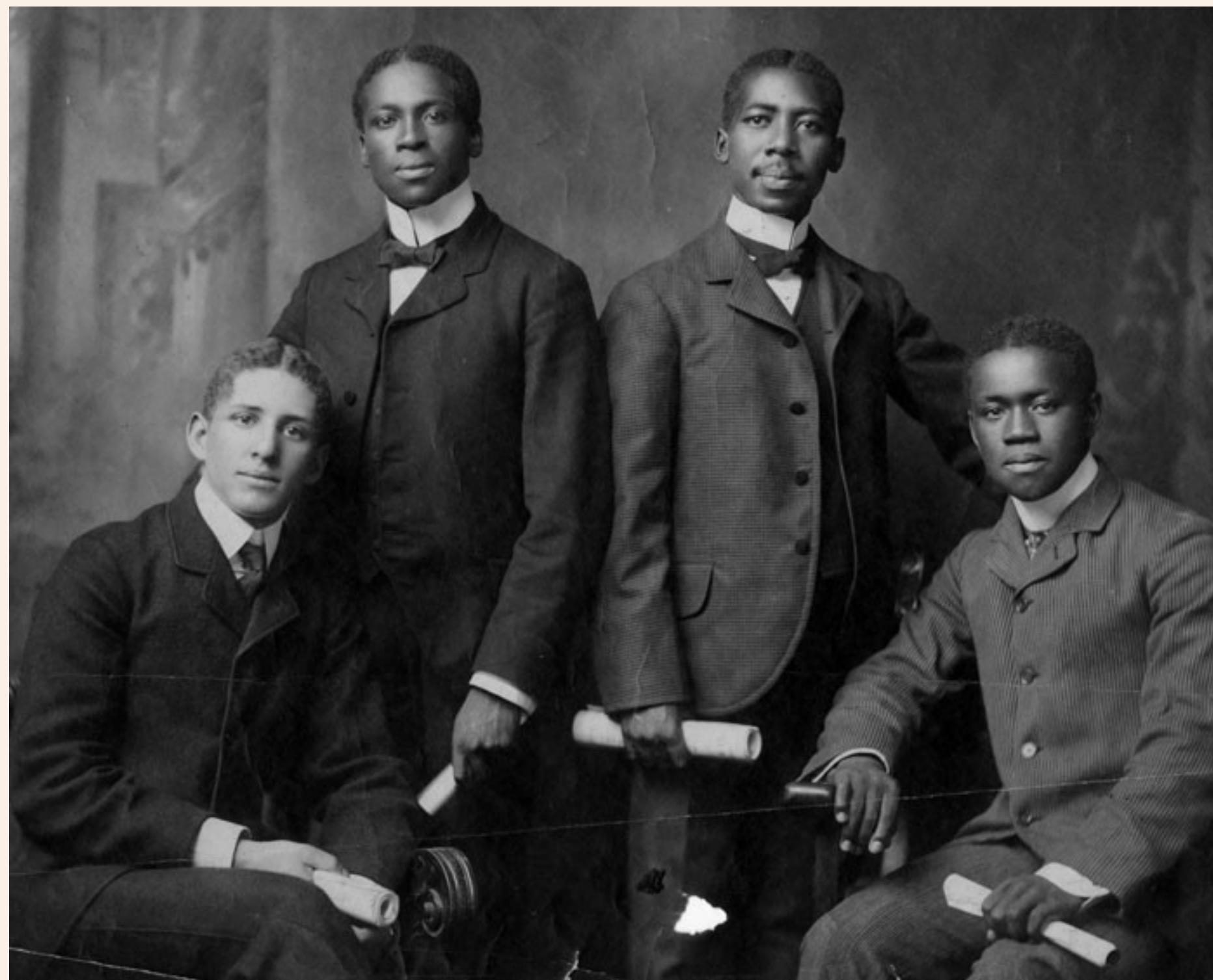


Thomas J. Calloway



Du Bois in Paris

...and Atlanta University



Atlanta University Debating Team, c. 1900



Women seated on steps at Atlanta University c. 1900

Paris 1900



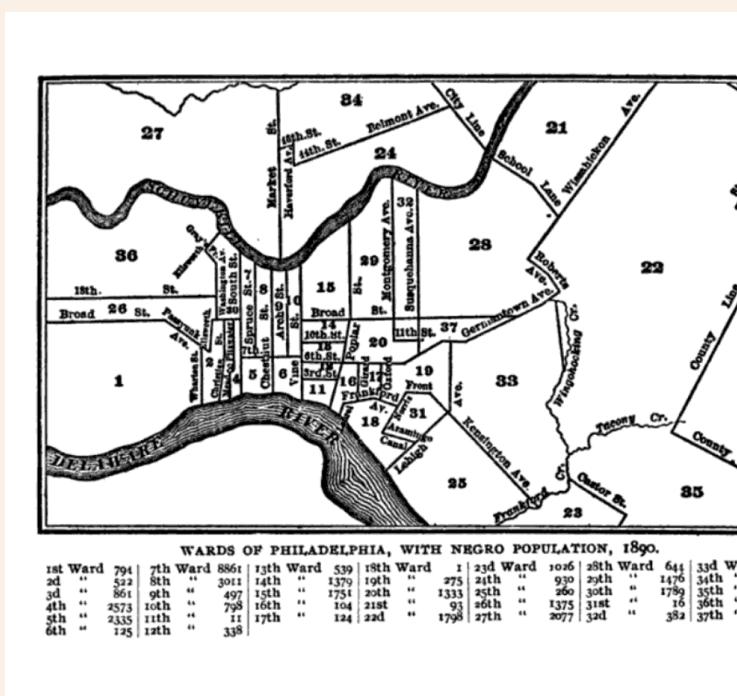
Historical Context



“Black America” Fair



Plessy v. Ferguson



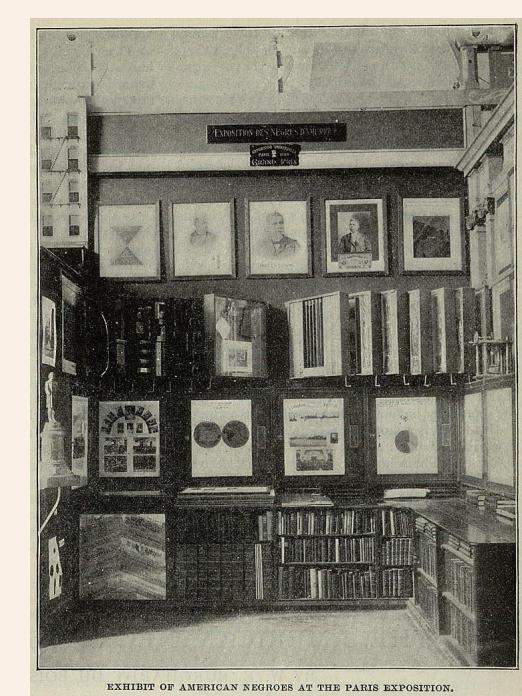
Phila. Negro begins

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

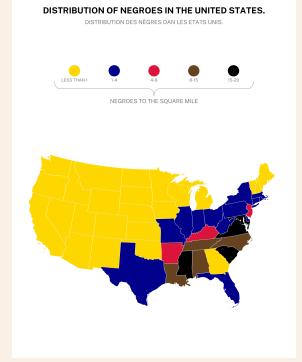
1896

1897

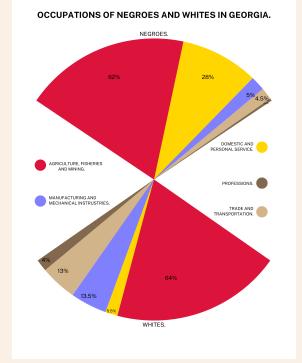
1898

1899

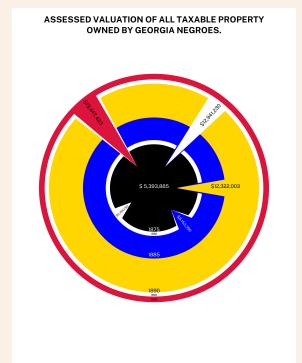
1900



We are here



This is who we are



This is how far we have come

In 2021, it began with them



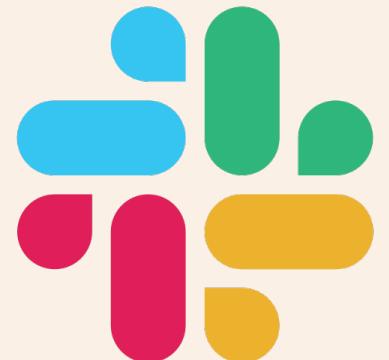
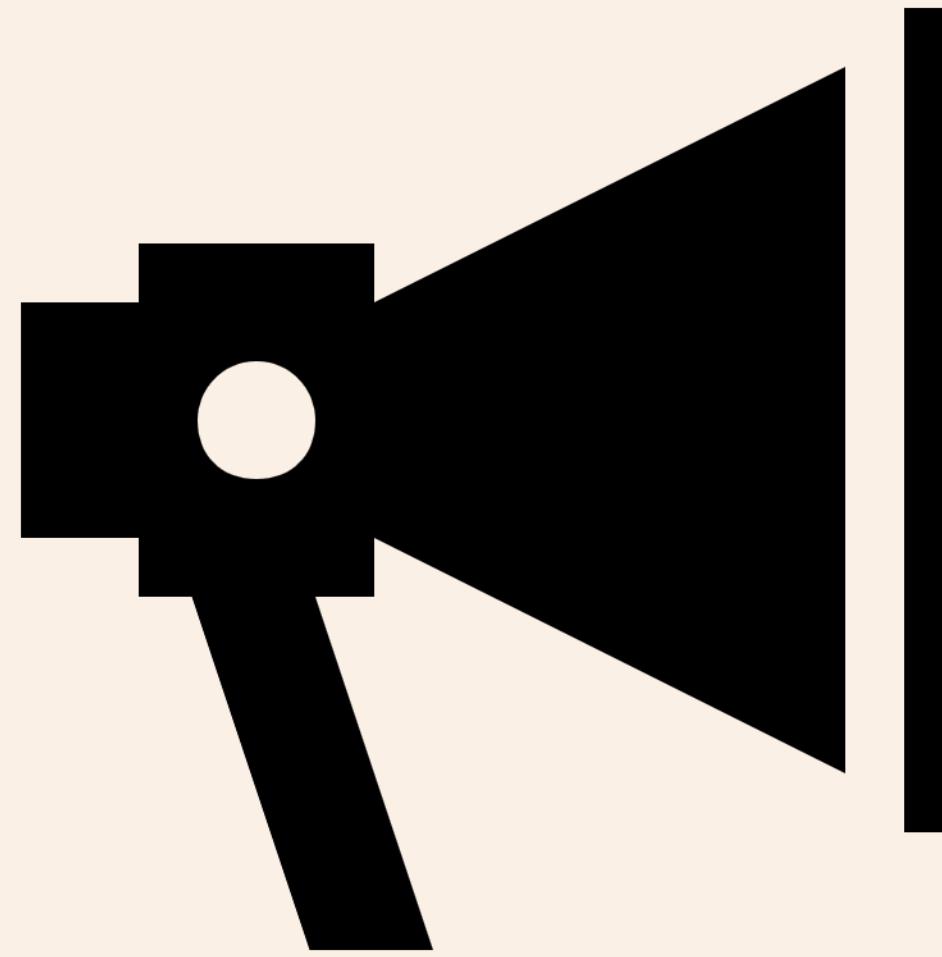
Allen Hillery (@AlDataVizGuy)



Sekou Tyler (@sqlsekou)

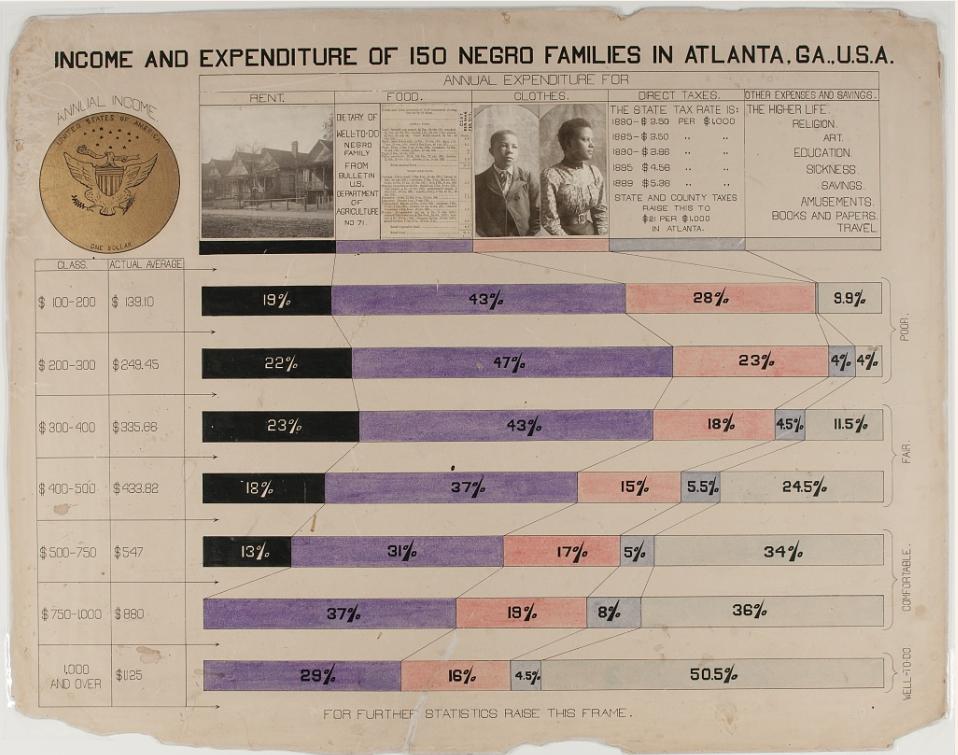
Now: Modern Megaphone

Your Message

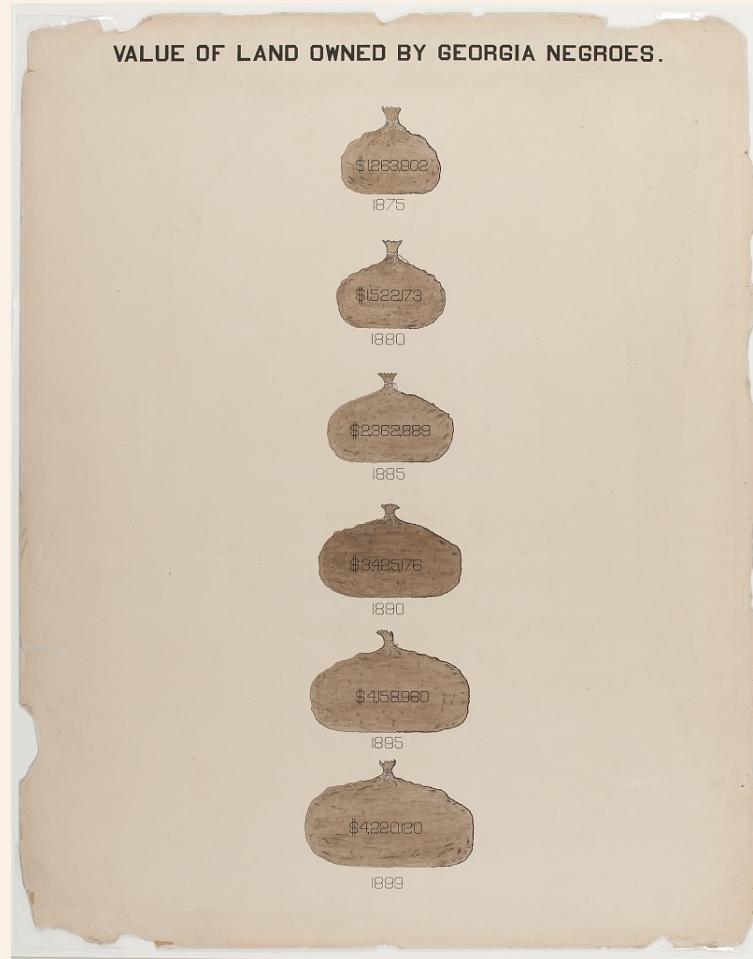


#DuboisChallenge 2023 Entries

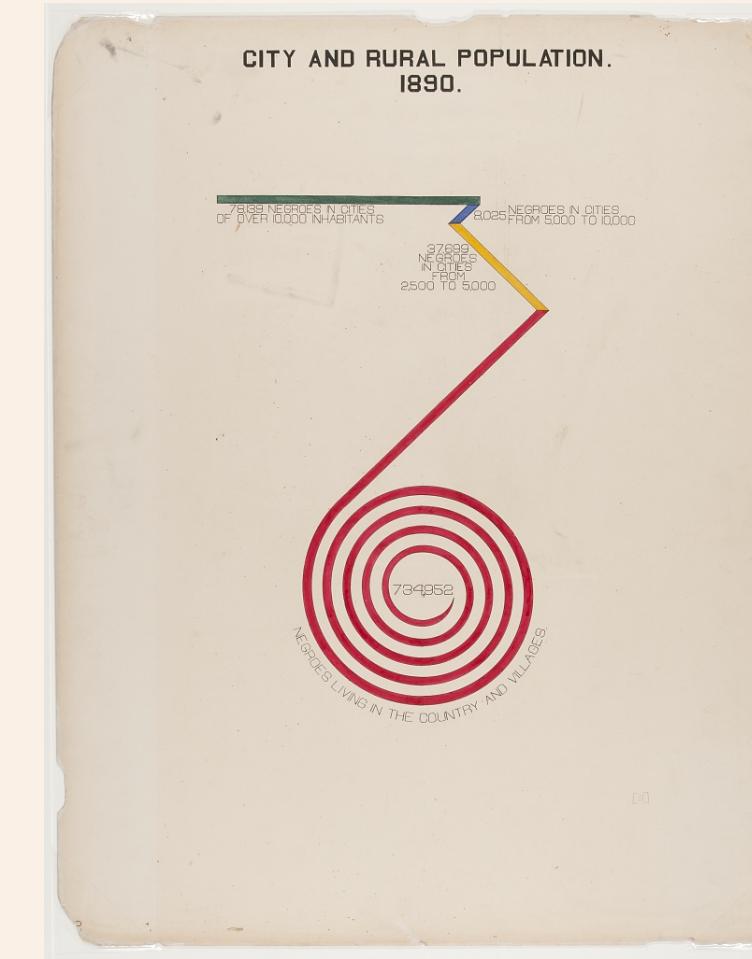
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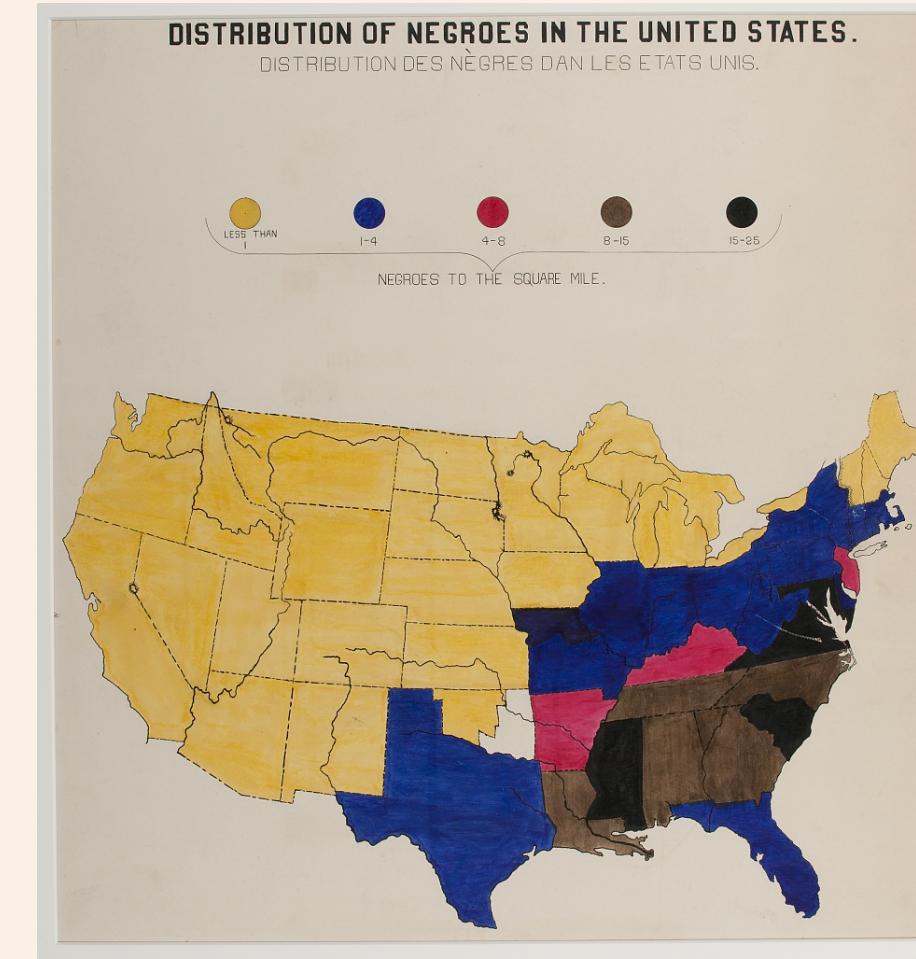
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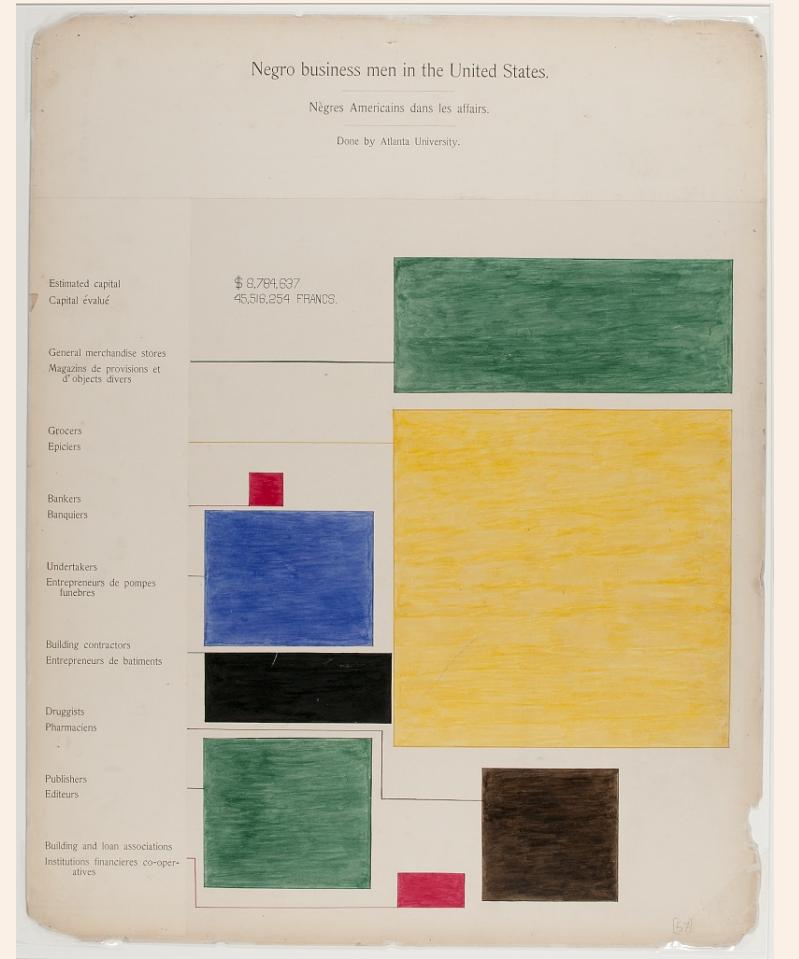
03



04



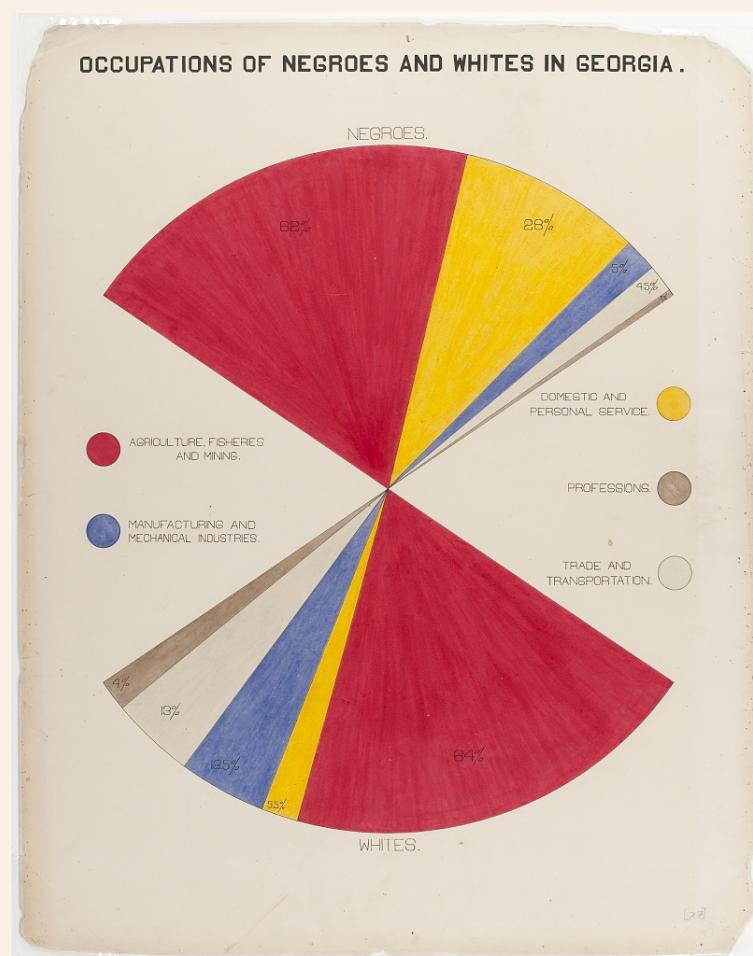
05



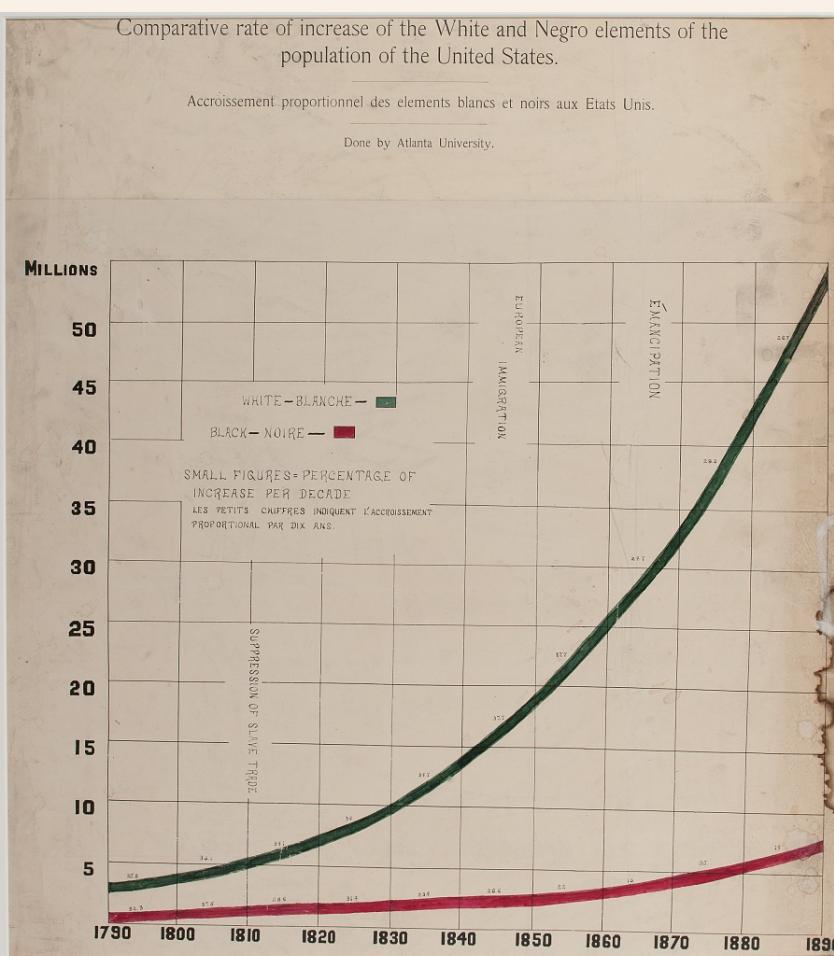
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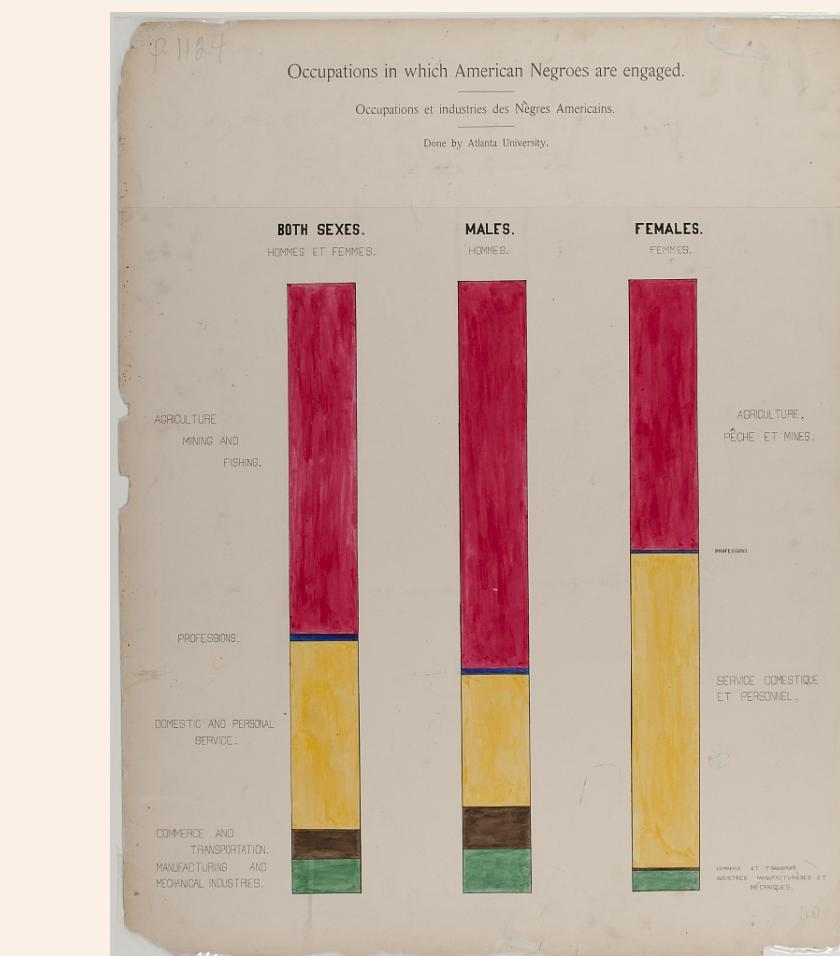
07



08



09



10



Using github

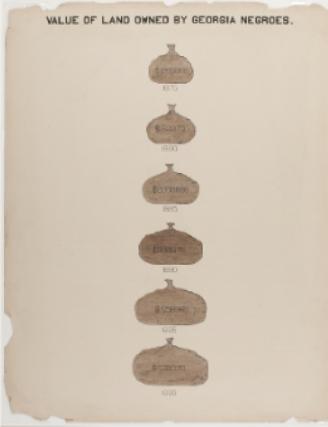
Du Bois Visualization Challenge: 2023

#DuBoisChallenge2023

01



02



03



04



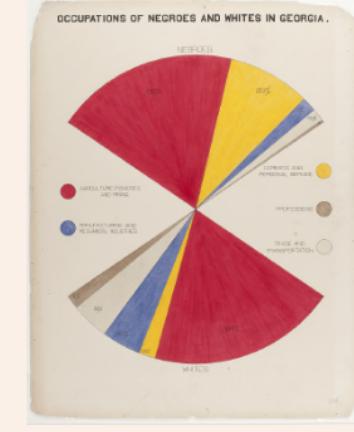
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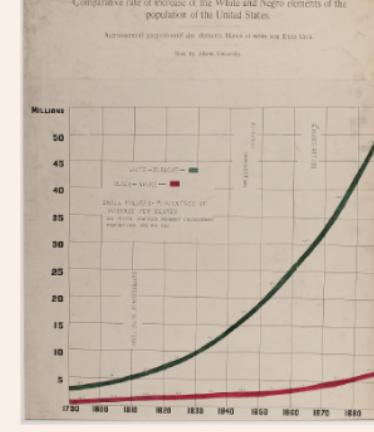
06



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 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

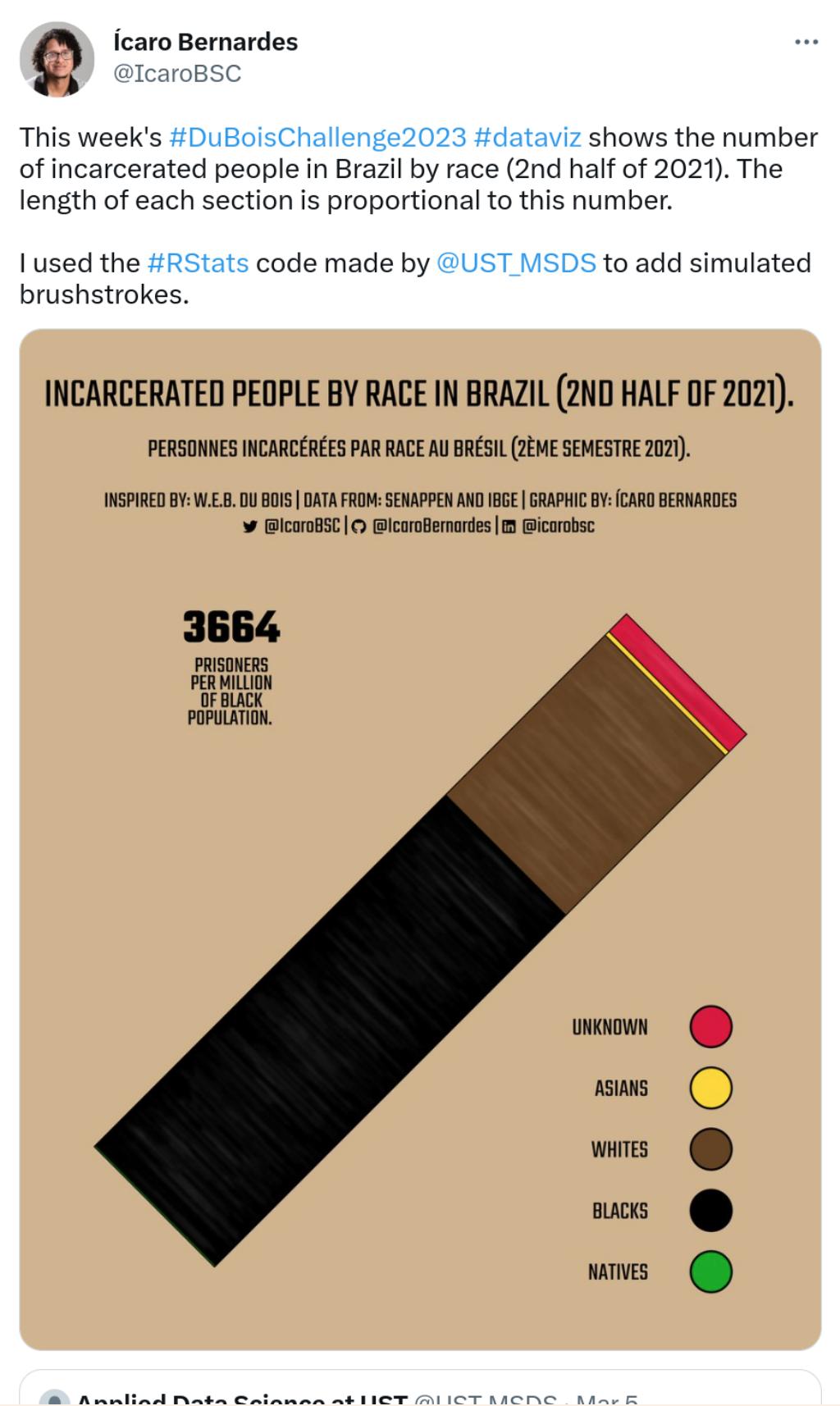
Raw

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

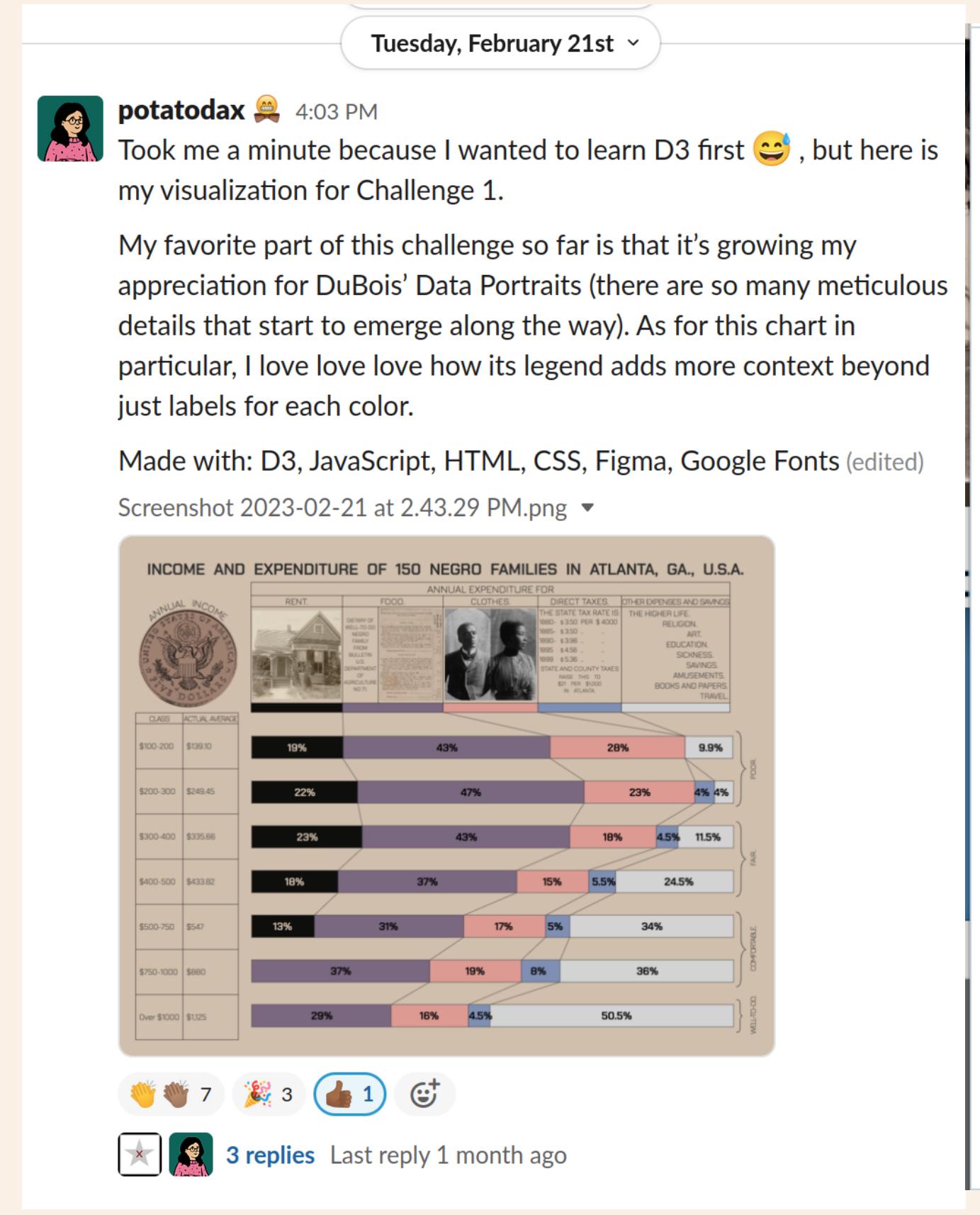
Twitter



LinkedIn



DVS Slack



7 3 1 1

3 replies Last reply 1 month ago

Mastodon

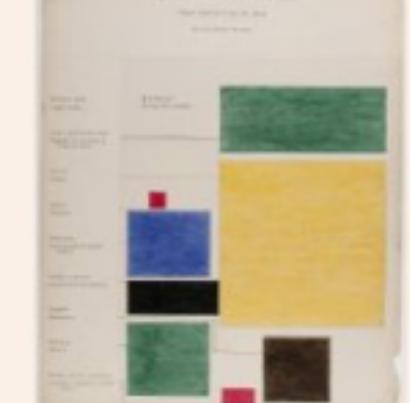
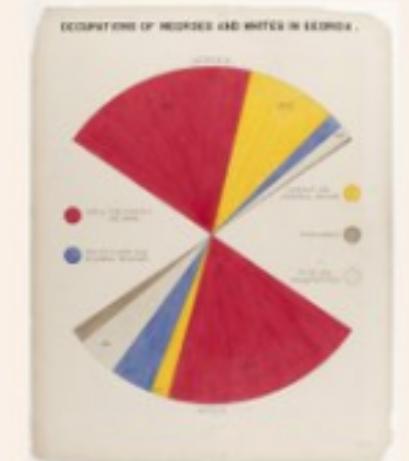
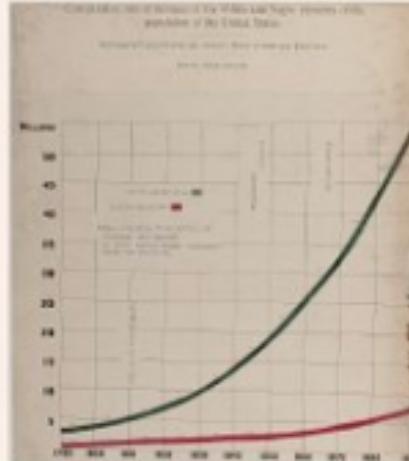
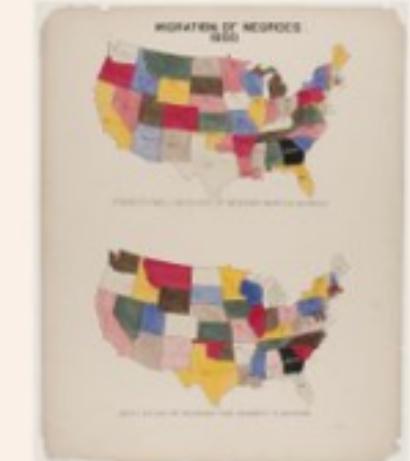


The Announcement

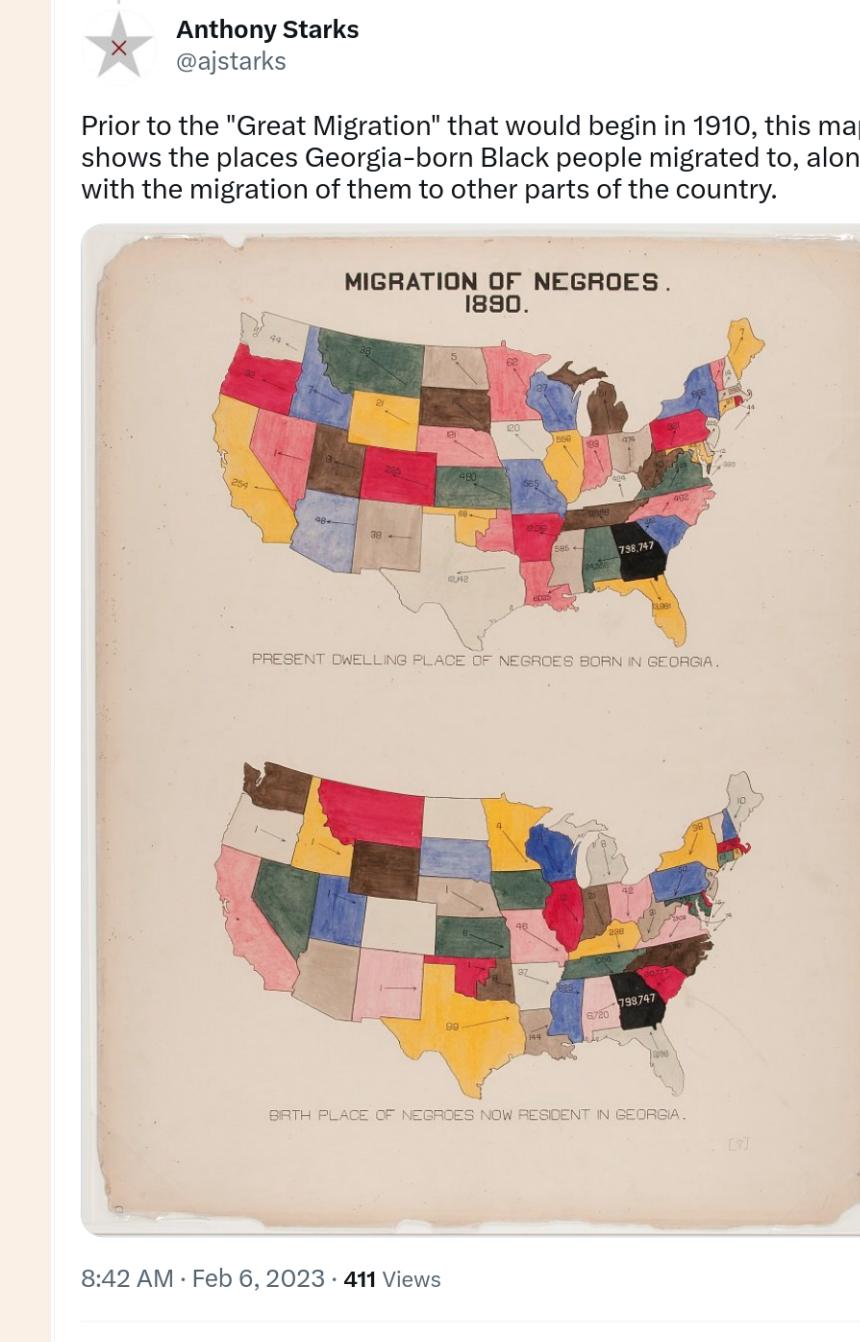
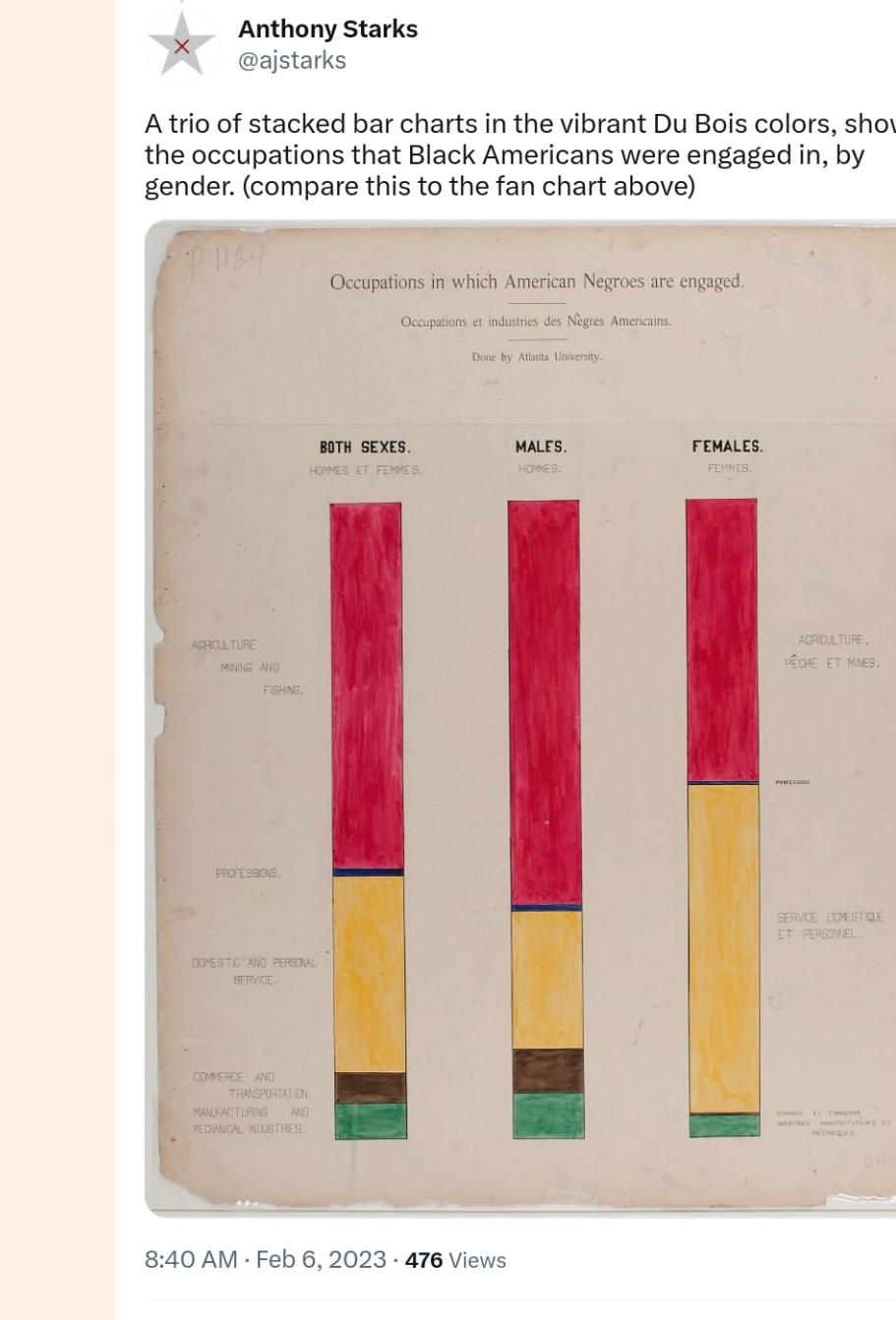
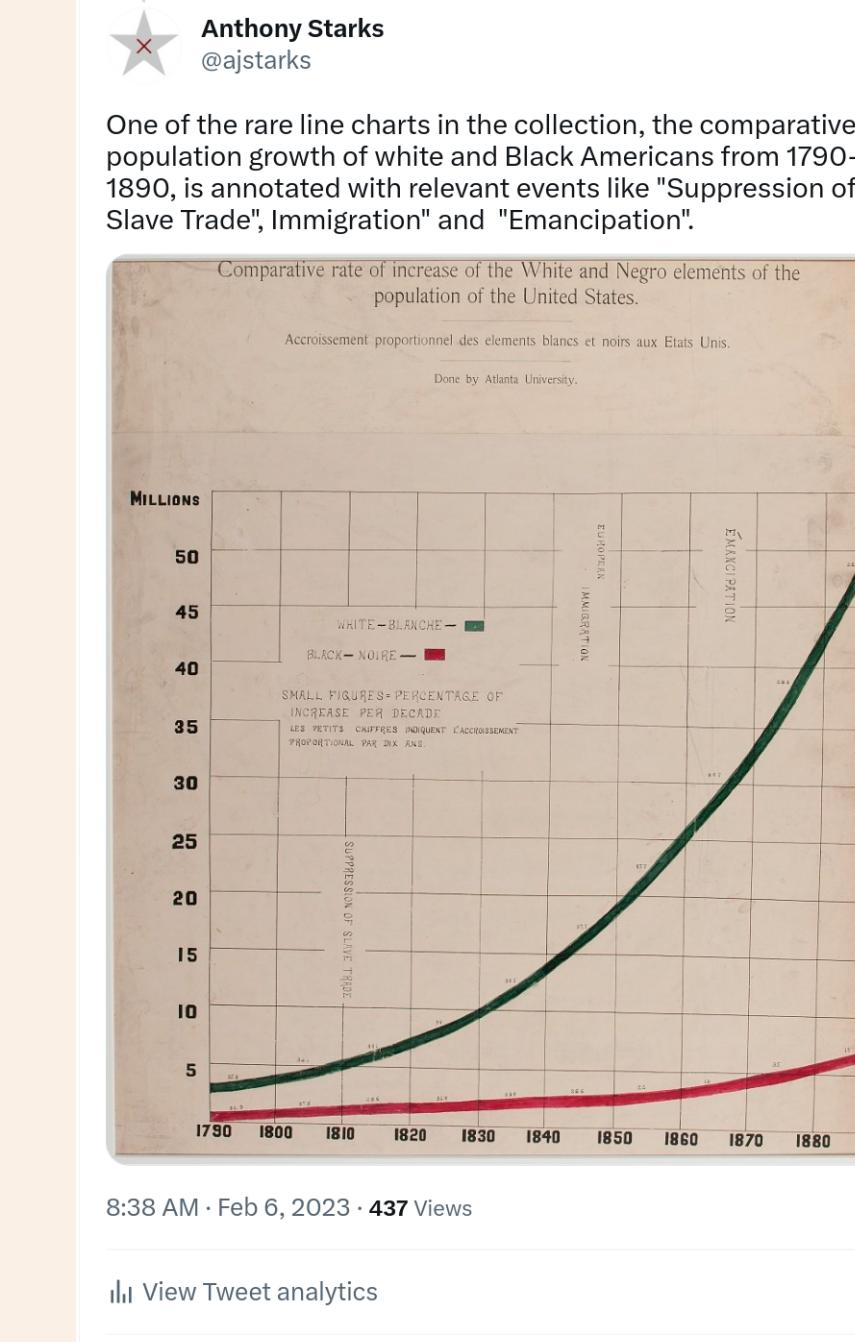
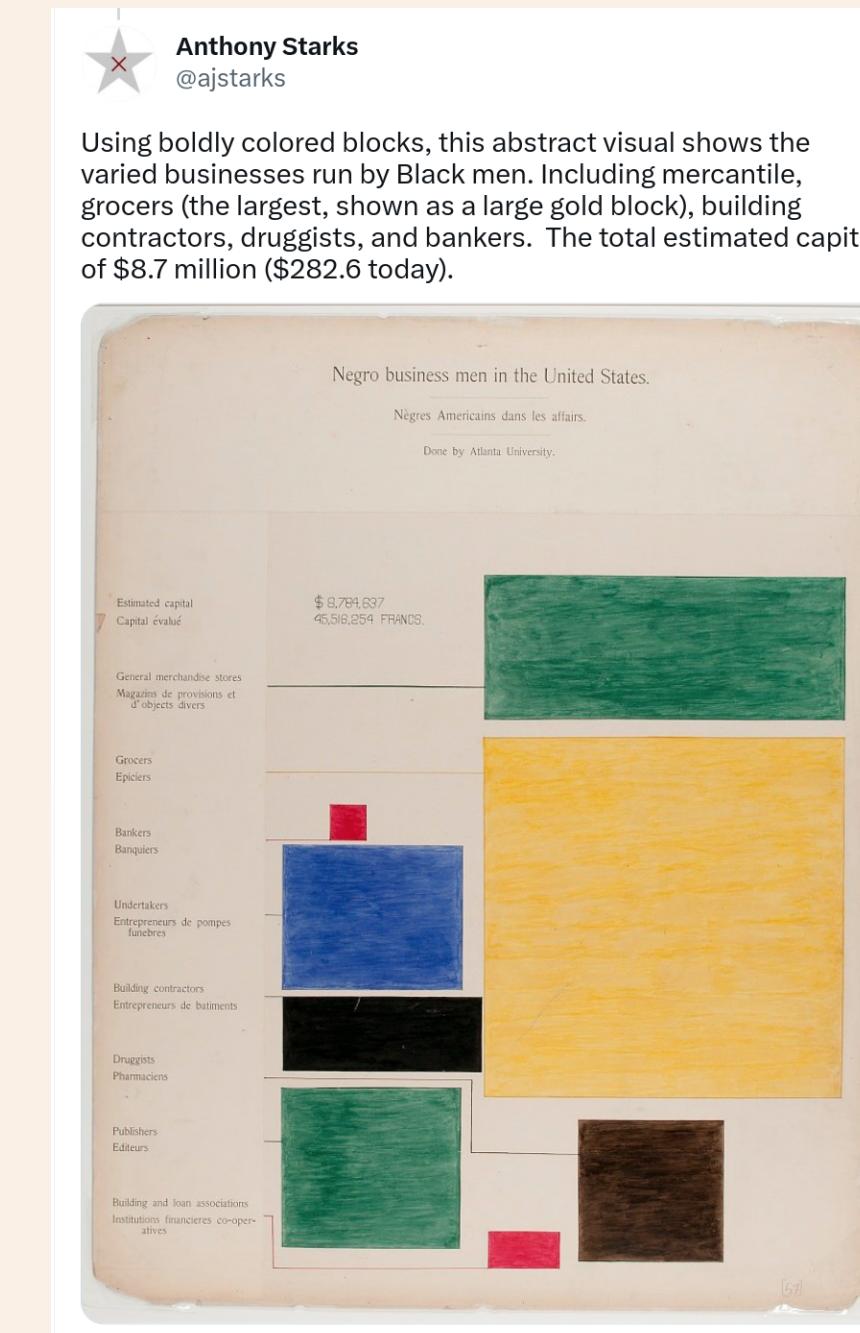
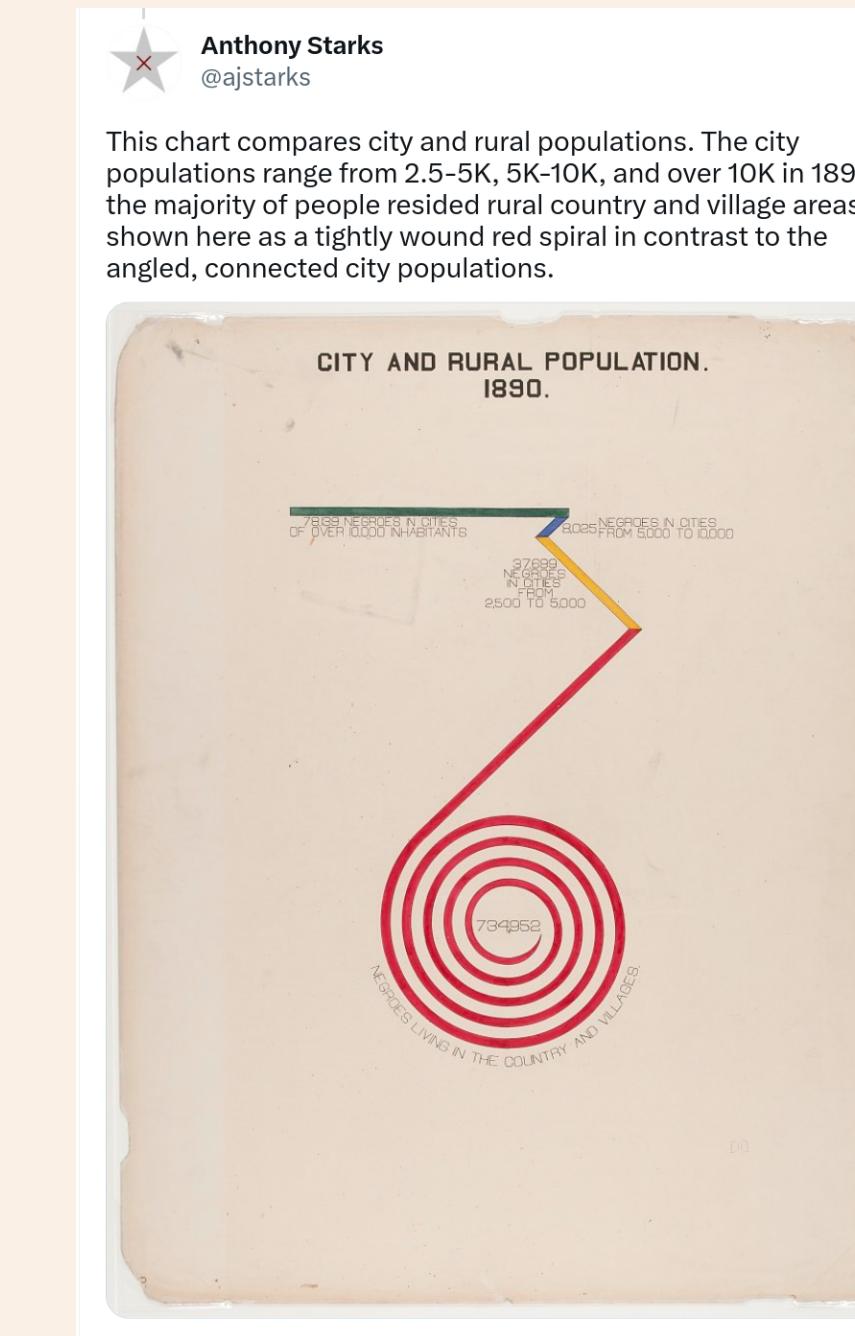
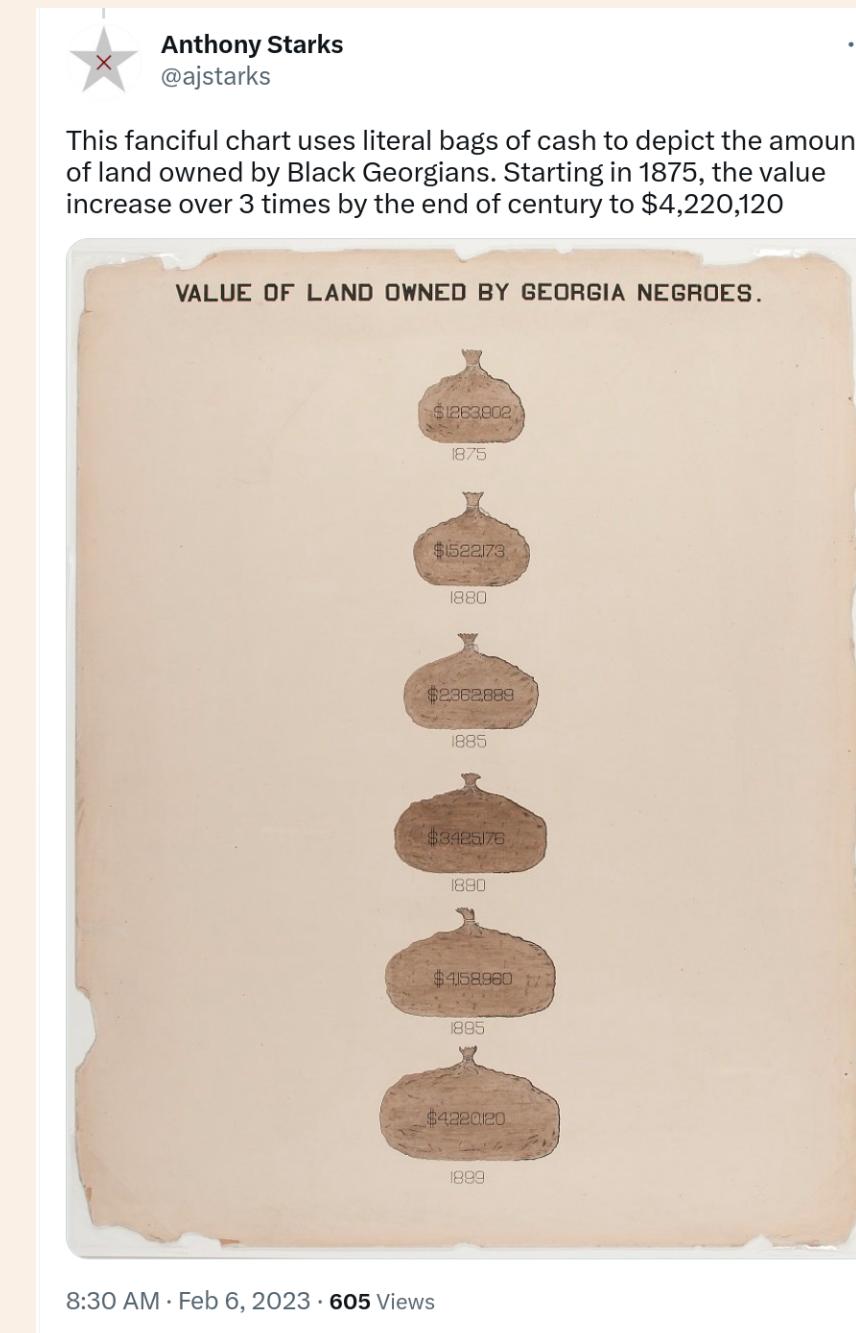
 Anthony Starks
@ajstarks ...

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



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@IcaroBSC | @IcaroBernardes | @icarobsc

2 570 BLACK WOMEN WERE VICTIMS OF HOMICIDE
1125 WHITE WOMEN WERE VICTIMS OF HOMICIDE
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A shocking difference. 🤯

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AGRICULTURE, MINING AND FISHING
PROFESSIONS
DOMESTIC AND PERSONAL SERVICE
COMMERCE AND TRANSPORTATION, MANUFACTURING AND MECHANICAL INDUSTRIES
AGRICULTURE, FORESTRY, FISHING AND HUNTING
MANUFACTURING, CONSTRUCTION, TRADE, HOTELS AND RESTAURANTS
DOMESTIC AND PERSONAL SERVICE
COMMERCIAL, TRANSPORTATION, MANUFACTURING AND MECHANICAL INDUSTRIES
PROFESSIONS
AGRICULTURE, MINING AND FISHING

Data : DuBoisChallenge2023 | Viz : @stepminer2

6:17 PM · Mar 11, 2023 · 998 Views

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1890.

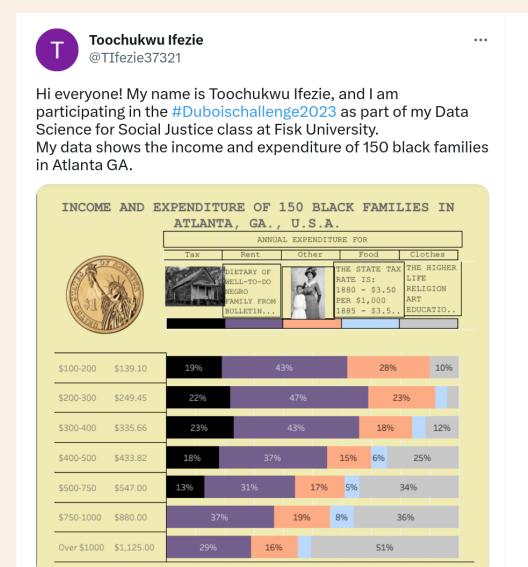
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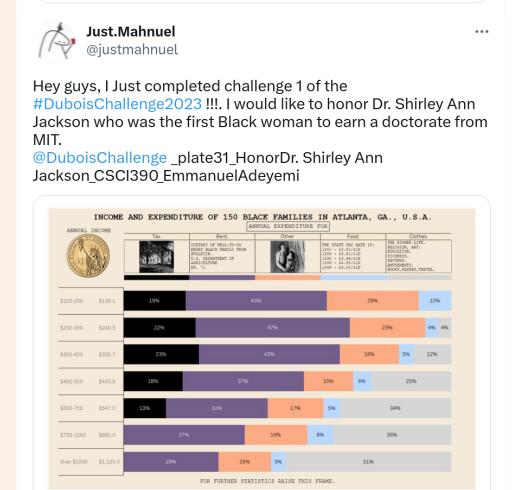
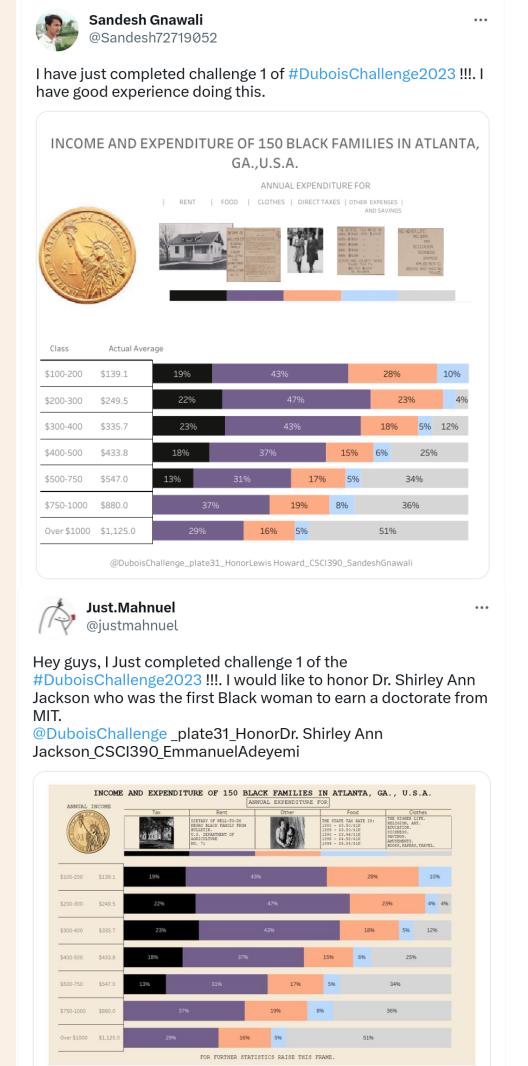
3 Retweets 11 Likes

Fisk Students



Laila Eliotti
@only1_laila

Trent and I just finished challenge 1 of the #DuboisChallenge2023! @lena_is_light



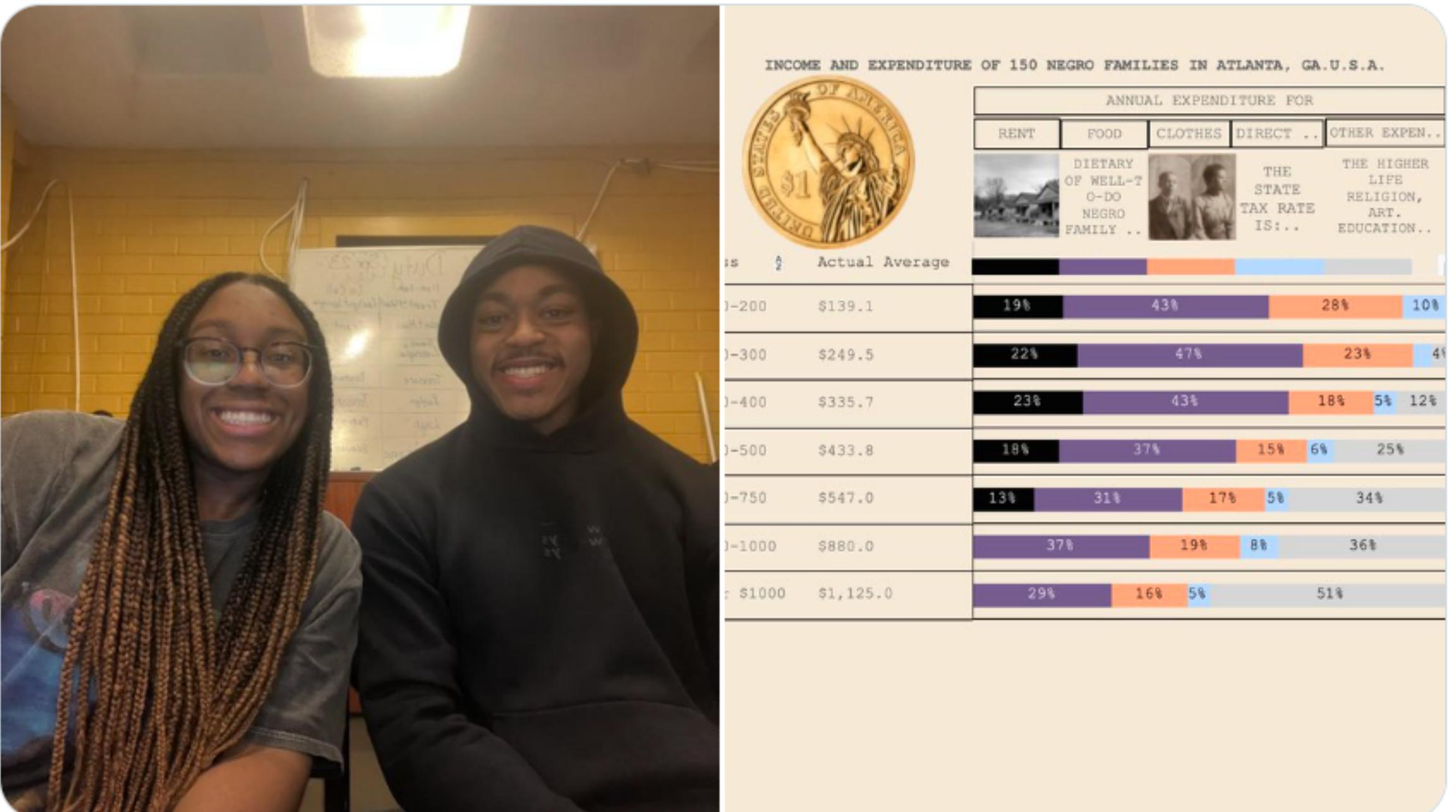
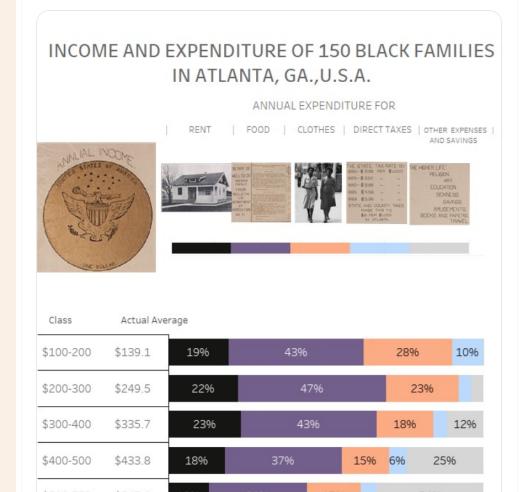
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2 Retweets 5 Likes

Diamond GC
@mr_diamondGC

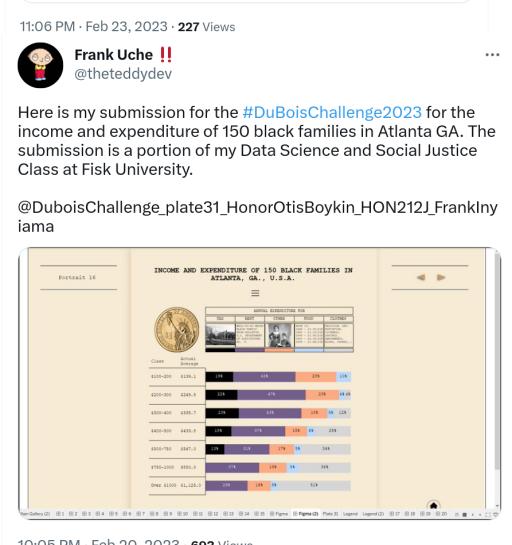
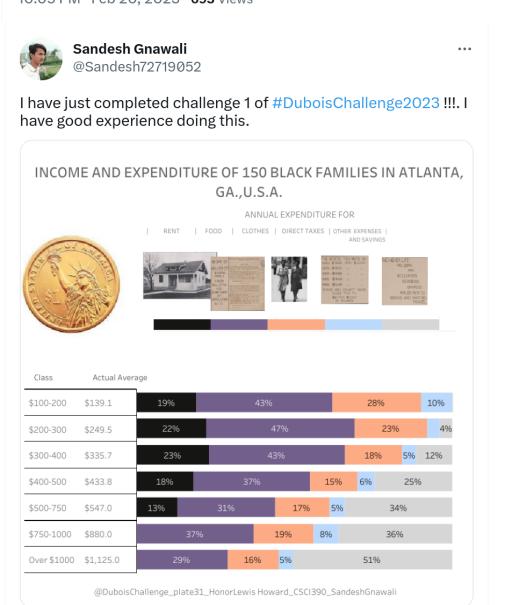
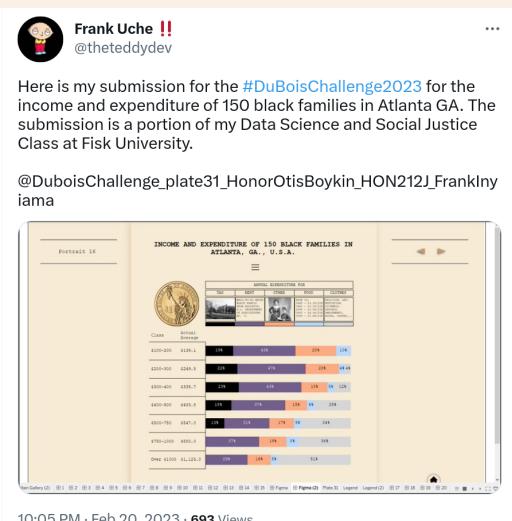
Here is my submission for the #DuboisChallenge2023 challenge 1. The submission is a portion of my Data Science and Social Justice Class at Fisk University.

@DuboisChallenge_plate31_HonorLewisHoward,CSCI390,DiamondGC



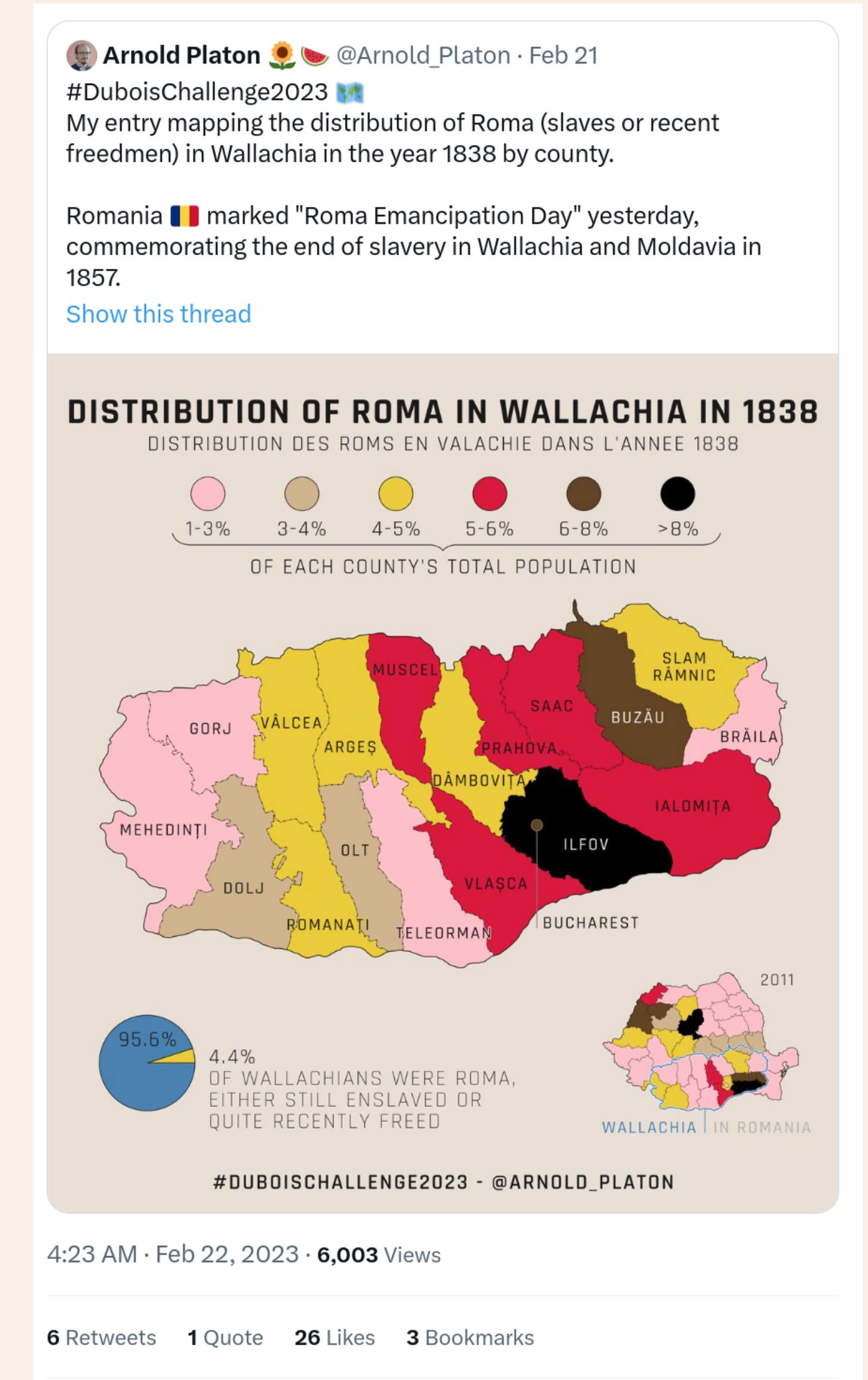
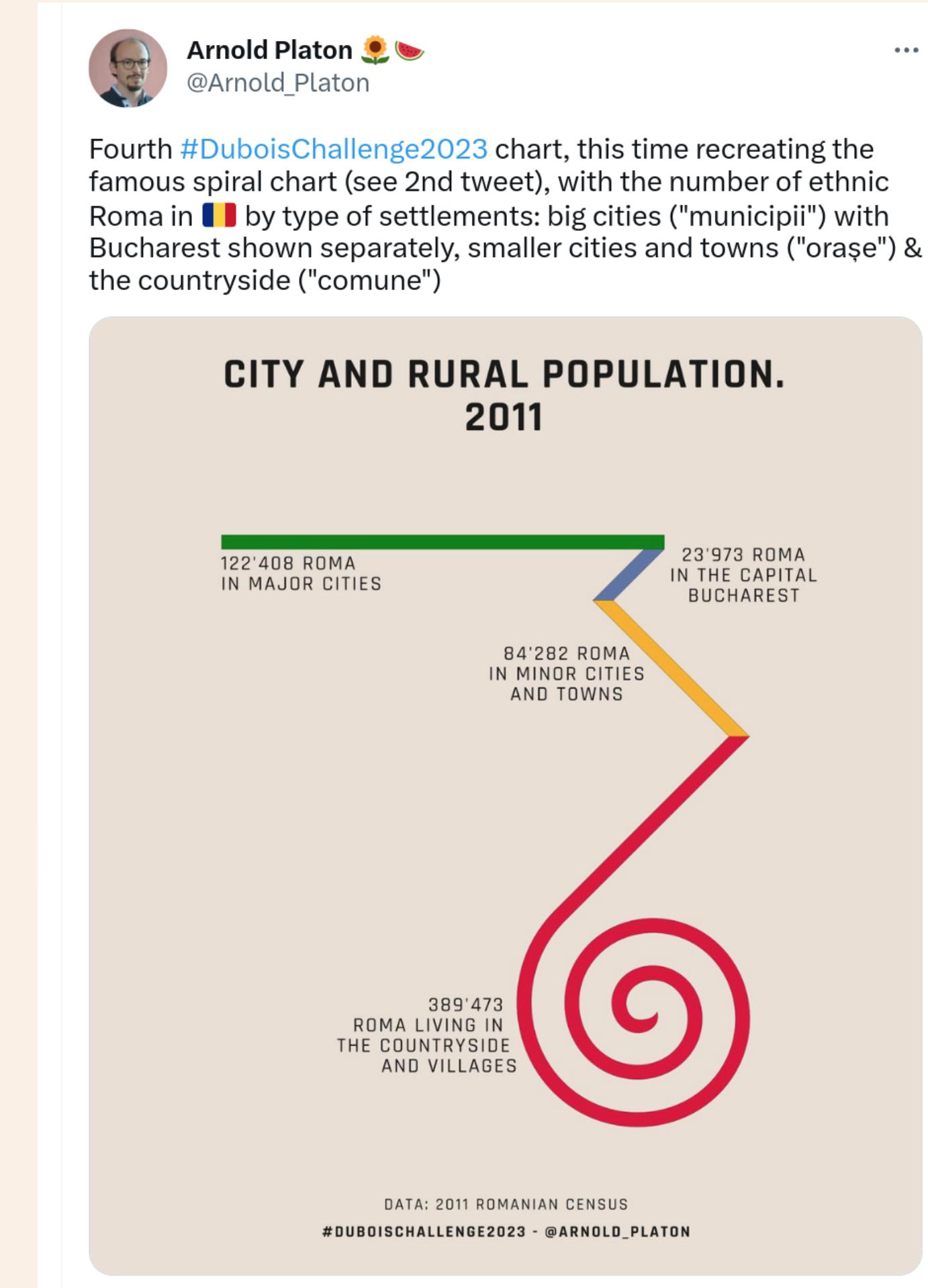
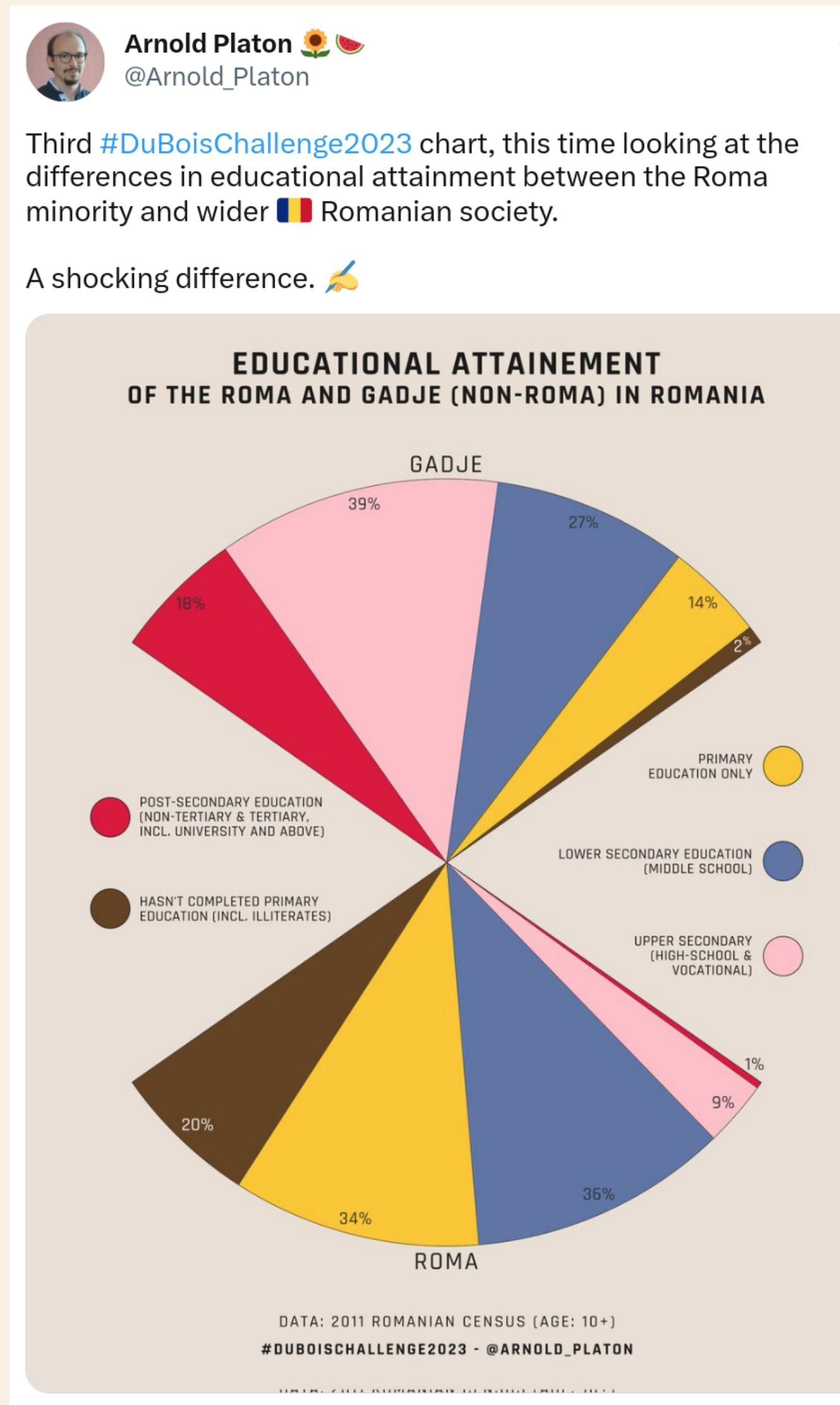
11:10 PM · Feb 15, 2023 · 1,905 Views

5 Retweets 1 Quote 16 Likes





Arnold Platon (@Arnold_Platon)





Ícaro Bernardes (@IcaroBSC)

Ícaro Bernardes
@IcaroBSC

This week's #DuBoisChallenge2023 #dataviz exhibit shows the number of Higher Education enrollments by race and field in Brazil (2020). The arc length is proportional to this number.

Fortunately, it was fairly easy to do this "fan chart" in #RStats thanks to {ggforce} 😊

HIGHER EDUCATION ENROLLMENTS BY RACE AND FIELD.

ENROLLMENTS ON REMOTE AND IN PERSON COURSES IN BRAZIL (2020).

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

The chart displays the proportion of higher education enrollments for Black and White students across various fields. The legend indicates the following fields:

- LAW AND BUSINESS (Red)
- EDUCATION AND OTHERS (Blue)
- ENGINEERING & PRODUCTION, COMPUTER AND NATURAL SCIENCES (Yellow)
- ARTS, SOCIAL AND HUMAN SCIENCES (Brown)
- HEALTH AND WELLNESS (Light Blue)

Black students account for 30% of Law and Business, 25% of Education and Others, 23% of Engineering, Production, Computer and Natural Sciences, 19% of Arts, Social and Human Sciences, and 19% of Health and Wellness. White students account for 29% of Law and Business, 20% of Education and Others, 19% of Engineering, Production, Computer and Natural Sciences, 9% of Arts, Social and Human Sciences, and 7% of Health and Wellness.

10:35 AM · Mar 21, 2023 · 1,206 Views

7 Retweets 19 Likes 2 Bookmarks

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

The graphic features a large, angled bar chart with a textured black surface. The text "3664 PRISONERS PER MILLION OF BLACK POPULATION." is displayed above the bar. A legend below the bar identifies the racial groups:

- UNKNOWN (Red)
- ASIANS (Yellow)
- WHITES (Brown)
- BLACKS (Black)
- NATIVES (Green)

15 SAMBA SCHOOLS WON THE MAIN PARADE COMPETITION IN RIO.

Applied Data Science at UST @UST_MSDS · Mar 5

Ícaro Bernardes
@IcaroBSC

"Favela (🇧🇷 slums) is power, not poverty" said the Favela Holding CEO, @celsoathayde. Carnaval is a feast where Afro-Brazilians combine Art and Tech on a budget.

This #DuBoisChallenge2023 #dataviz made in #RStats shows all Rio Samba Schools winners in almost a century of parades.

RIO SAMBA SCHOOLS PARADE WINNERS (1932-2023).

GAGNANTS DU DÉFILÉ DES ÉCOLES DE SAMBA DE RIO (1932-2023).

INSPIRED BY: W.E.B. DU BOIS | DATA FROM: GALERIA DO SAMBA | GRAPHIC BY: ÍCARO BERNARDES
Twitter: @IcaroBSC | GitHub: @IcaroBernardes | LinkedIn: @icarobsc

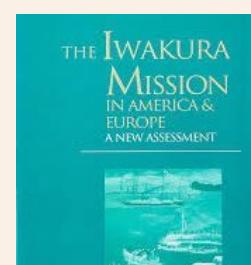
The graphic is a treemap visualization showing the distribution of 15 wins among various Rio samba schools. The schools and their colors are:

- Unidos da Capela (Red)
- Acadêmicos do Salgueiro (Pink)
- Unidos da Tijuca (Blue)
- Vizinha Faladeira (Very Small Blue)
- Recreio de Ramos (Very Small Red)
- Imperatriz Leopoldinense (Green)
- Beija-Flor de Nilópolis (Blue)
- Acadêmicos do Grande Rio (Very Small Green)
- Estação Primeira de Mangueira (Pink)
- Unidos de Vila Isabel (Very Small Blue)
- Portela (Large Blue)
- Mocidade Independente de Padre Miguel (Green)
- Unidos do Viradouro (Very Small Red)
- Império Serrano (Green)

ALT

9:18 AM · Mar 7, 2023 · 2,144 Views

8 Retweets 28 Likes 2 Bookmarks



Hemeed (@725Hemeed)

Hemeed
@725Hemeed

My Third entry Adaptation for #DuBoisChallenge2023 A Map showing Distribution Of Black Race a cross the Globe 🌎 A Social Study 🇺🇸 By W.E.B Du Bois #QGIS #dataviz #DataVisualization #gischat #geospatial @DuboisChallenge

THE GEORGIA BLACKS
A SOCIAL STUDY
BY
W.E.BURGHARDT DU BOIS
DISTRIBUTION OF BLACK RACE

"THE PROBLEM OF 20th CENTURY IS THE PROBLEM OF COLOR-LINE"
Created by Hemeed Lungo | #DuBoisChallenge2023

ALT

5:21 PM · Feb 23, 2023 · 1,940 Views

12 Retweets 1 Quote 38 Likes 1 Bookmark

Hemeed
@725Hemeed

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

Hemeed
@725Hemeed

My Second entry Adaptation for #DuBoisChallenge2023 A Map showing Black Population of United states 🇺🇸 compare to other countries created during 1900 Paris Exposition #QGIS. #dataviz #DataVisualization #gischat #geospatial @DuboisChallenge

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

ALT

#DuBoisChallenge | Created by Hemeed Lungo

4:46 PM · Feb 19, 2023 · 1,275 Views

5 Retweets 16 Likes



Patrick Stephenson (@stepminer2)

Patrick Stephenson
@stepminer2

My entry, for week 8 of #DuboisChallenge2023. It is a reproduction of DuBois' Comparative rate of increase of White and Black elements of the population of the United States. #Rstats #blackhistorymonth2023.

Comparative rate of increase of the White and Negro elements of the population of the United States

Accroissement proportionnel des éléments Blancs et Noirs aux Etats-Unis

Done by Atlanta University

Millions

The graph shows two lines: a green line for 'WHITE-BLANCHE' and a red line for 'BLACK-NOIRE'. The y-axis represents millions of people, ranging from 0 to 55. The x-axis represents years from 1790 to 1890. Data points are labeled at various intervals. The green line starts at approximately 3.1 in 1790 and rises steadily to 54.4 in 1890. The red line starts at approximately 0.8 in 1790 and rises more slowly to 8.4 in 1890.

Year	White-Blanche (Millions)	Black-Noire (Millions)
1790	3.1	0.8
1800	4.3	1.4
1810	5.8	1.8
1820	7.8	2.3
1830	10.4	2.9
1840	14.0	3.6
1850	19.0	4.5
1860	26.0	4.9
1870	35.7	6.6
1880	42.0	8.4
1890	54.4	

8:49 AM · Mar 11, 2023 · 1,051 Views

4 Retweets 9 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 ET FEMMES

MALES HOMMES

FEMALES FEMMES

The chart displays three stacked bars representing different groups. The left bar is for 'BOTH SEXES HOMMES ET FEMMES', the middle for 'MALES HOMMES', and the right for 'FEMALES FEMMES'. Each bar is divided into several segments representing different industries: Agriculture, Mining and Fishing, Professions, Domestic and Personal Service, Commerce and Transportation, Manufacturing and Mechanical Industries, and others. The total height of each bar corresponds to the percentage of the population in those occupations.

Data : DuboisChallenge2023 | Viz : @stepminer2

3 Retweets 9 Likes

Patrick Stephenson
@stepminer2

My 3rd and last iteration at the interpretation of Dubois City and Rural Population 1890 (plate 11) for #DuboisChallenge2023. I tried and tweaked @UST_MSDS codes in DuBoisian style #Rstats #blackhistorymonth2023.

CITY AND RURAL POPULATION. 1890.

A circular map with concentric rings representing the number of people living in cities of different sizes. The innermost ring is labeled '734,952 LIVING IN THE COUNTRY AND VILLAGES'. The outer rings represent cities of over 10,000 inhabitants, with specific counts for cities from 5,000 to 10,000 (8,025), 2,500 to 5,000 (37,699), and under 2,500 (78,139).

78,139 LIVING IN CITIES OF OVER 10,000 INHABITANTS

37,699 LIVING IN CITIES FROM 2,500 TO 5,000

8,025 LIVING IN CITIES FROM 500 TO 10,000

7:09 AM · Feb 27, 2023 · 517 Views

2 Retweets 5 Likes

Applied Data Science at UST (@UST_NSDS)



Digital “Brush” Strokes

Galleries

 **Raisa Hannus**
@Blu7ip

#DuboisChallenge2023 - Recreated the 10 historical charts of W.E.B Du Bois with Tableau (+ a ruler, protractor and spreadsheets).

 t.ly/8s9o

Thank you @ajstarks, @AlDatavizguy, @menscuriosa and @sqlsekou for the fascinating challenge, resources and inspiration!

RE-VISUALIZING THE BLACK AMERICA OF W.E.B. DU BOIS

W.E.B. Du Bois (1868-1963) was an American sociologist, socialist, historian and Pan-African civil rights activist. He contributed over 60 handmade charts to the Exhibit of American Negroes at the 1900 World's Fair in Paris. The collection is now housed at the Library of Congress in Washington, DC.

CLICK ON AN IMAGE TO VIEW

01 PLATE 31
02 PLATE 18
03 PLATE 11
04 PLATE 38
05 PLATE 57
06 PLATE 60
07 PLATE 27
08 PLATE 40
09 PLATE 43
10 PLATE 8

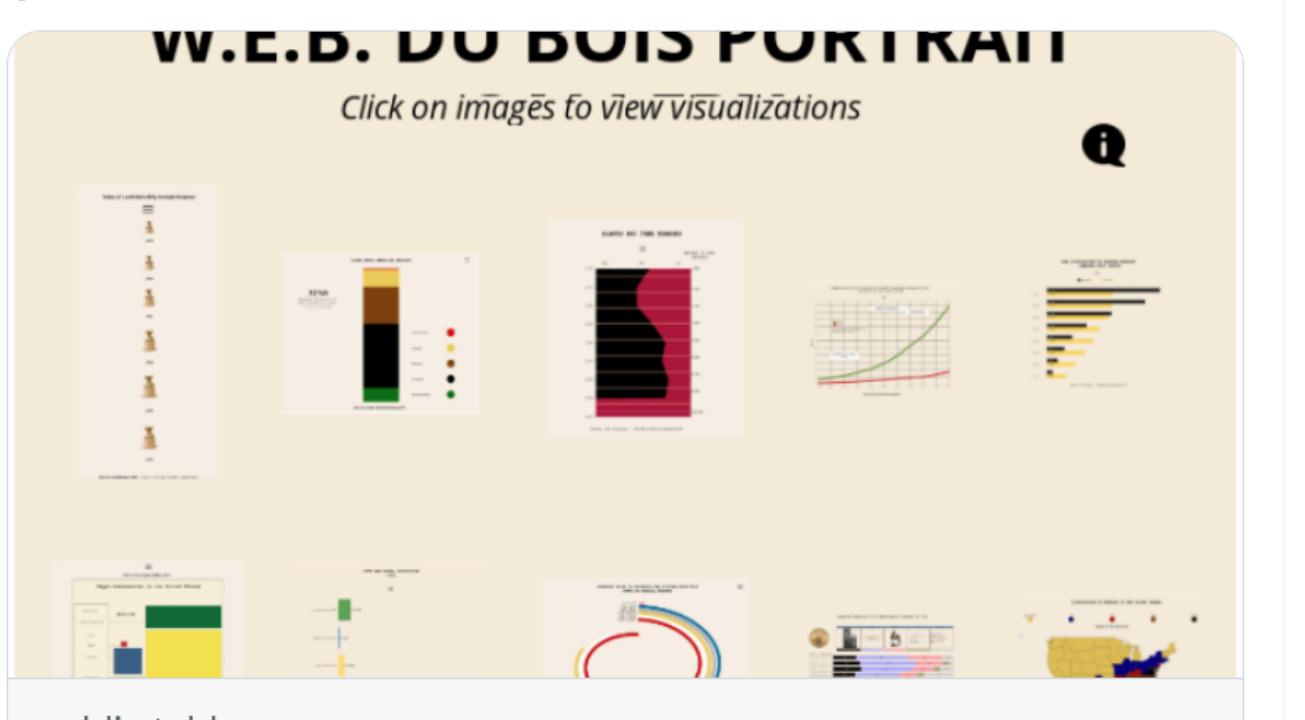
#DUBOISCHALLENGE2023 | DATA BY @AJSTARKS | DESIGN BY RAISA HANNUS

3:42 PM · Mar 12, 2023 · 2,322 Views

7 Retweets 55 Likes 5 Bookmarks

 **Kemi | Musings & Adventures**
@NYCapricorn

#DuBoisChallenge2023 | 10 charts in a gallery 🎉 This has been a dream ever since my Tableau foray a year ago this month & I saw Chimdi's gallery. The only head-scratcher was the spiral; one was in Figma, 4 with tutorials & the rest all me #datafam



public.tableau.com
#DuBoisChallenge2023 | DuBois Portrait Gallery
#DuBoisChallenge2023 | DuBois Portrait Gallery

12:04 AM · Mar 20, 2023 · 151 Views

 **Elisa Davis**
@ItsElisaDavis

🌟 New Viz 🌟

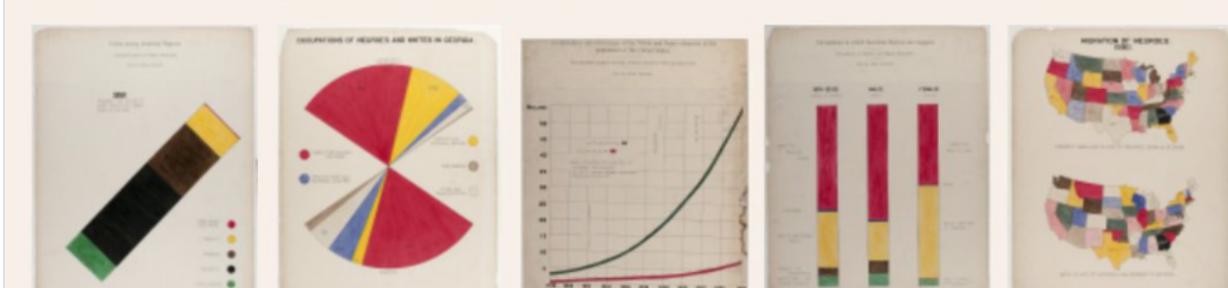
In honor of W.E.B Du Bois and Black History Month, I completed the entire 2023 #duboischallenge using @tableaupublic:
tabsoft.co/3y2J0o9

Thank you to @aldatavizguy and @menscuriosa for hosting this fantastic challenge, and to @ajstarks for the data.

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

#DuBoisChallenge2023

Click images to see "modern" versions of these visualizations generated with Tableau.

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.

3:55 PM · Mar 1, 2023 · 8,951 Views

Tools Used



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

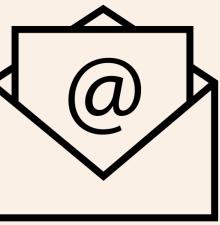
<https://speakerdeck.com/ajstarks/du-bois-visualizations-originals>

Style Guide

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

Anthony J. Starks

Art + Code



info@ajstarks.org



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



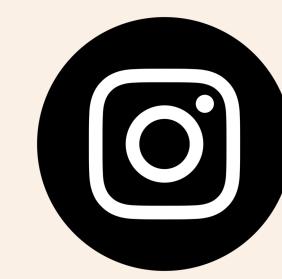
github.com/ajstarks



speakerdeck.com/ajstarks



linkedin.com/in/ajstarks



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