

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 of building at Atlanta University c. 1900

Paris 1900



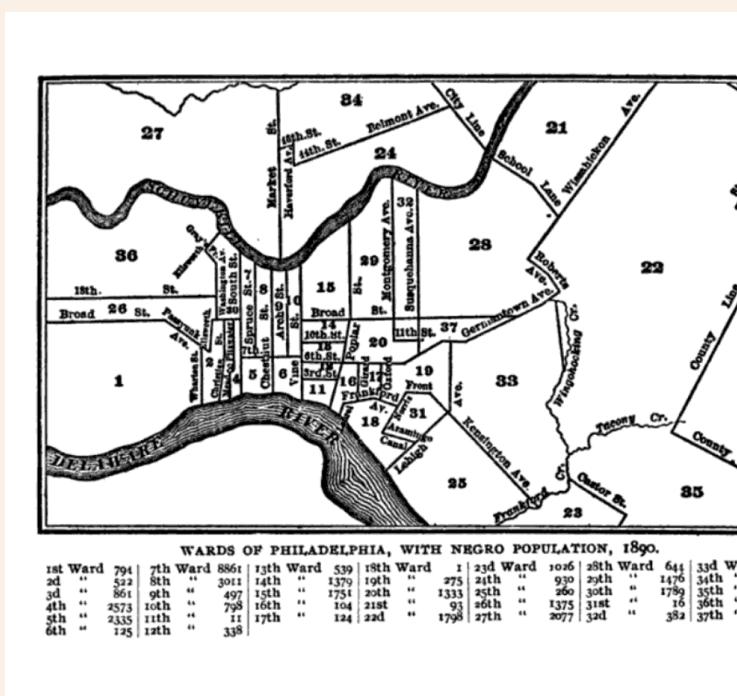
Historical Context



“Black America” Fair



Plessy v. Ferguson



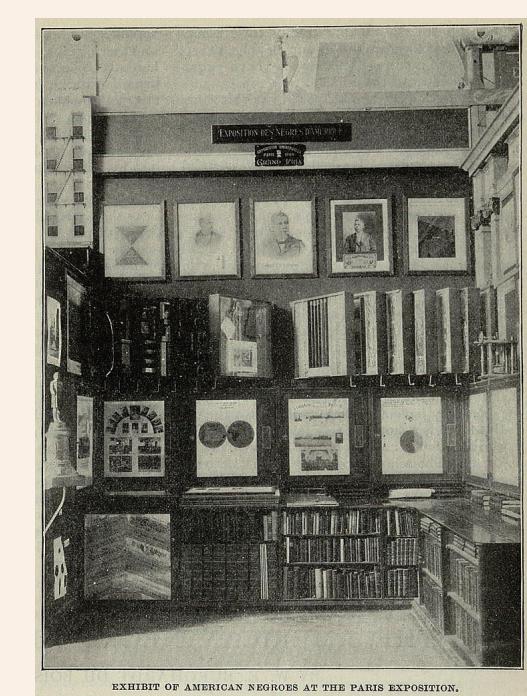
Phila. Negro begins

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

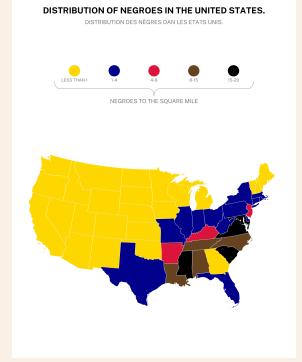
1896

1897

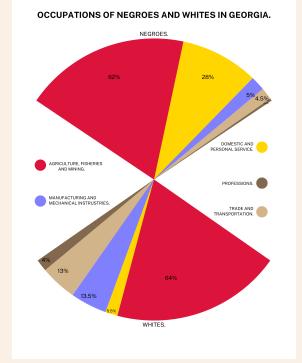
1898

1899

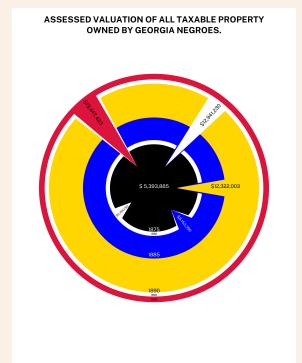
1900



We are here



This is who we are



This is how far we have come

In 2021, it began with them



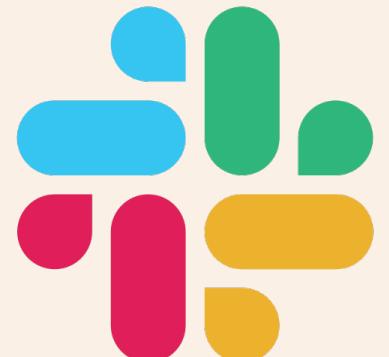
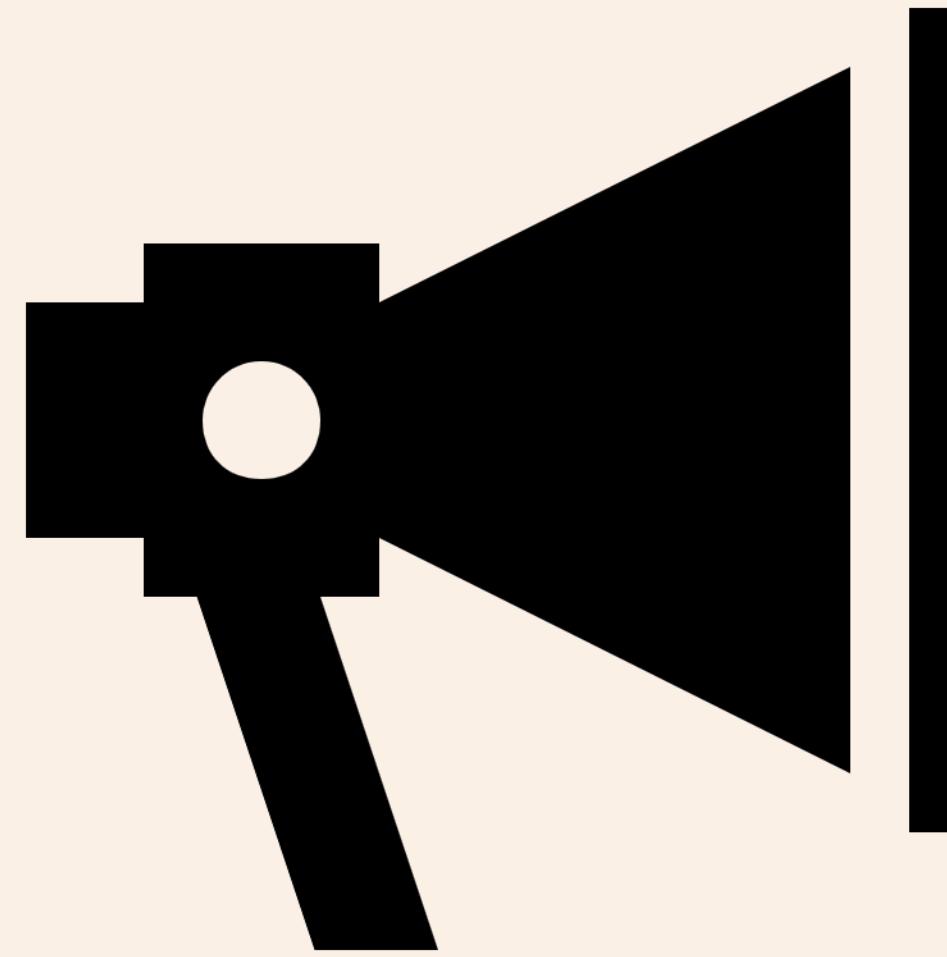
Allen Hillery (@AlDataVizGuy)



Sekou Tyler (@sqlsekou)

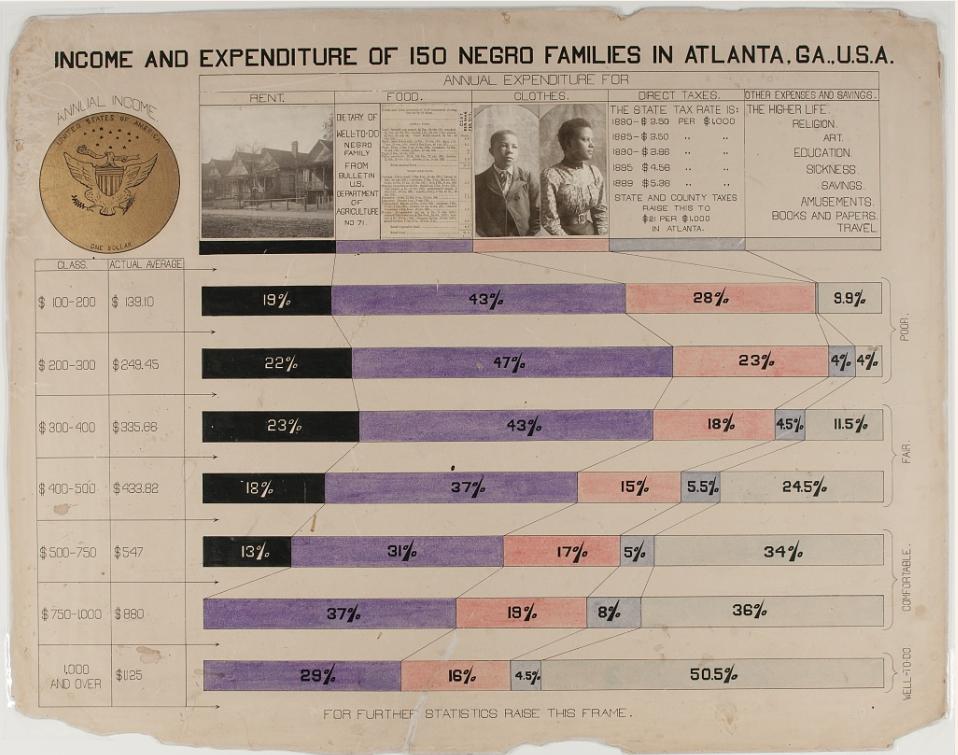
Now: Modern Megaphone

Your Message

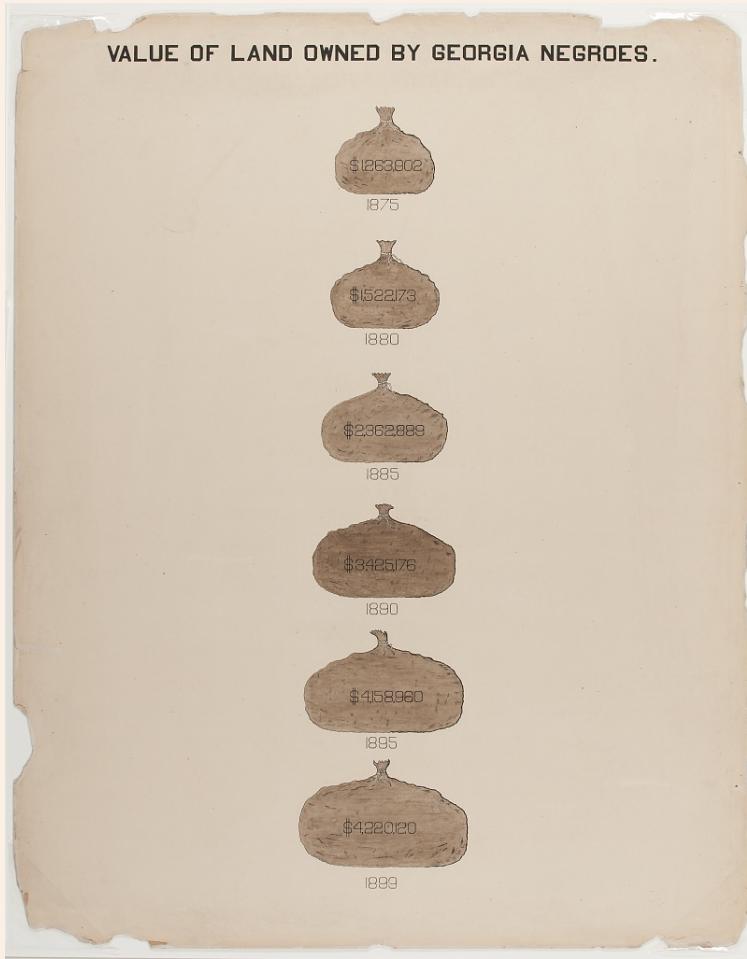


#DuboisChallenge 2023 Entries

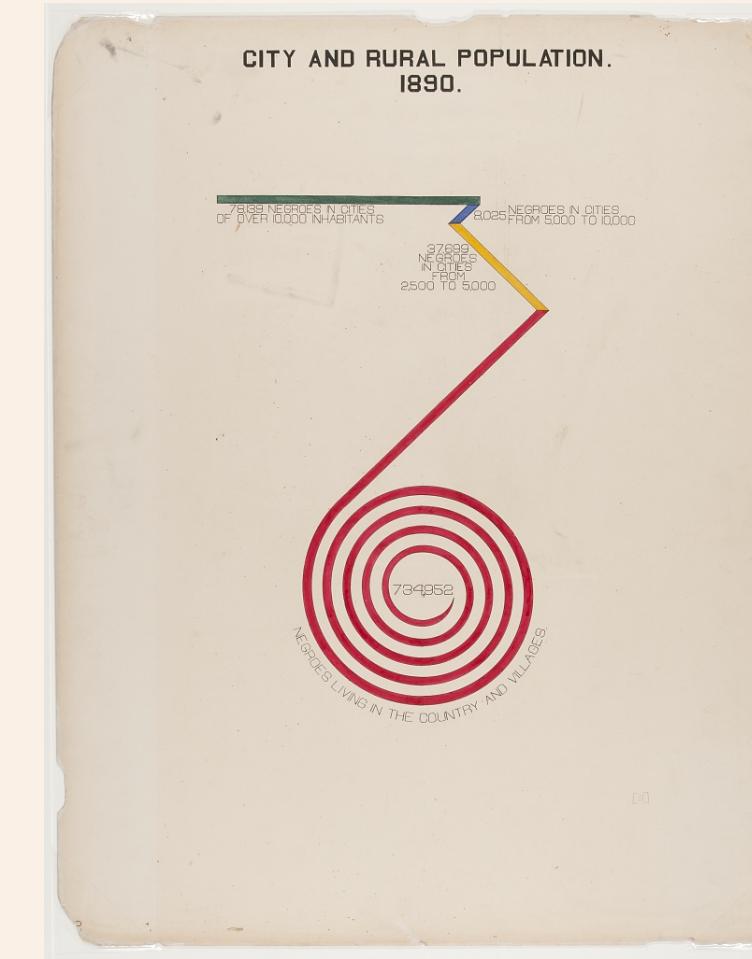
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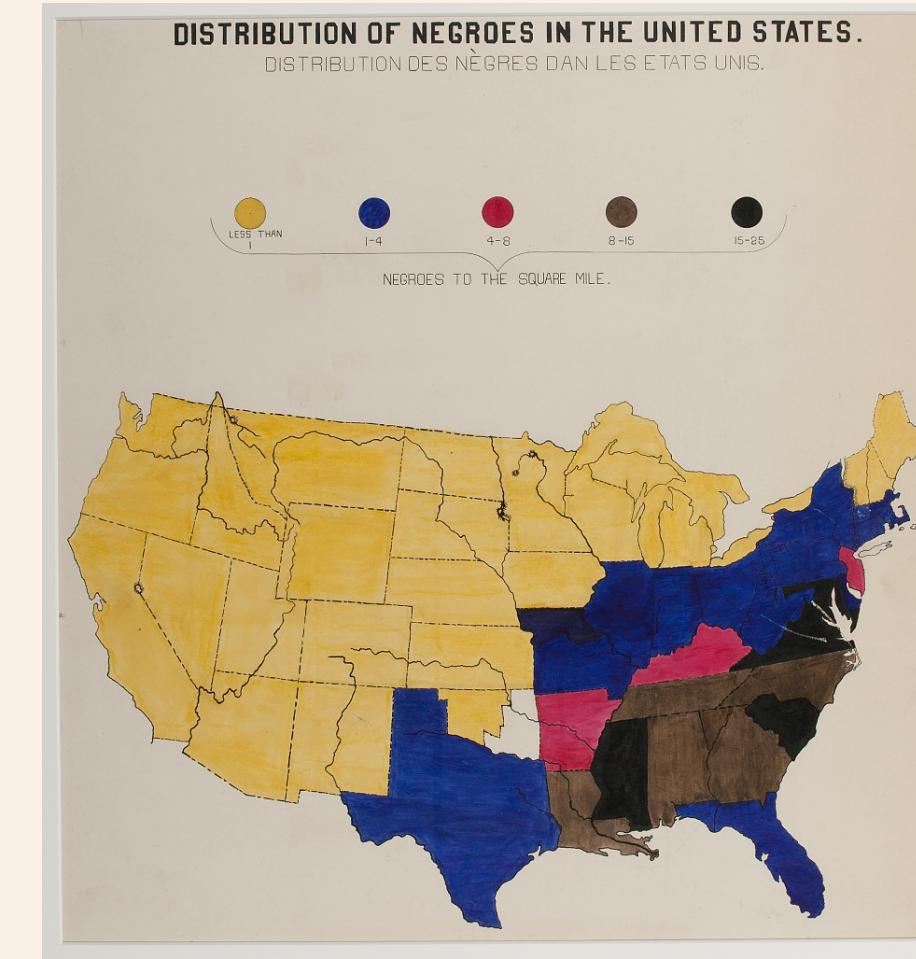
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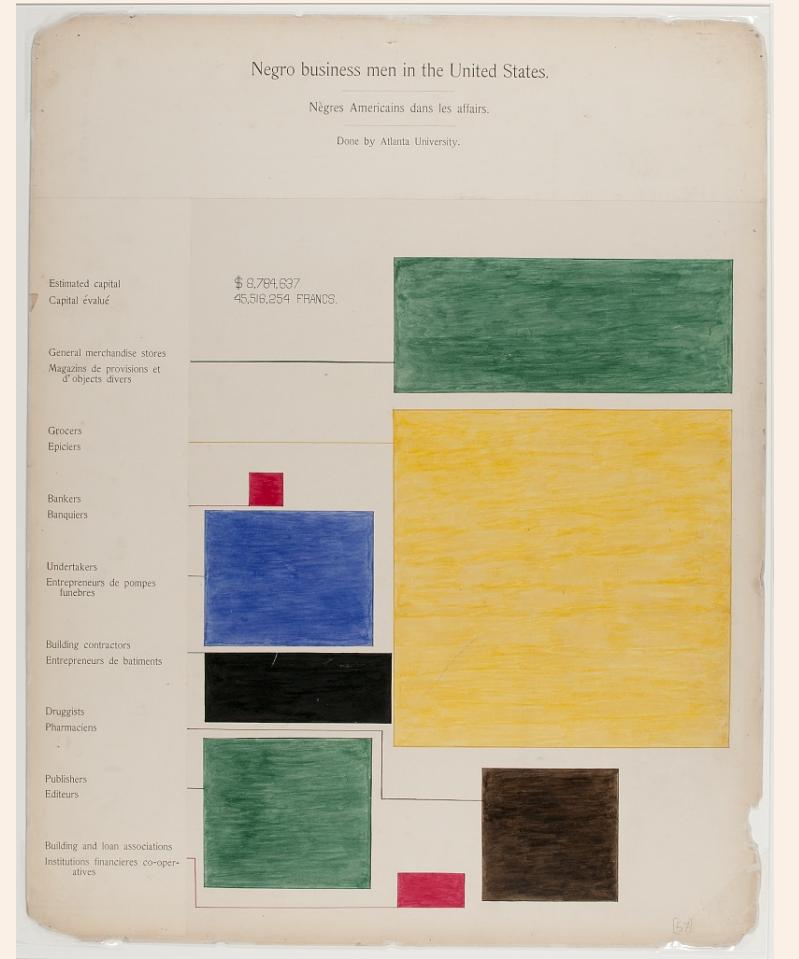
03



04



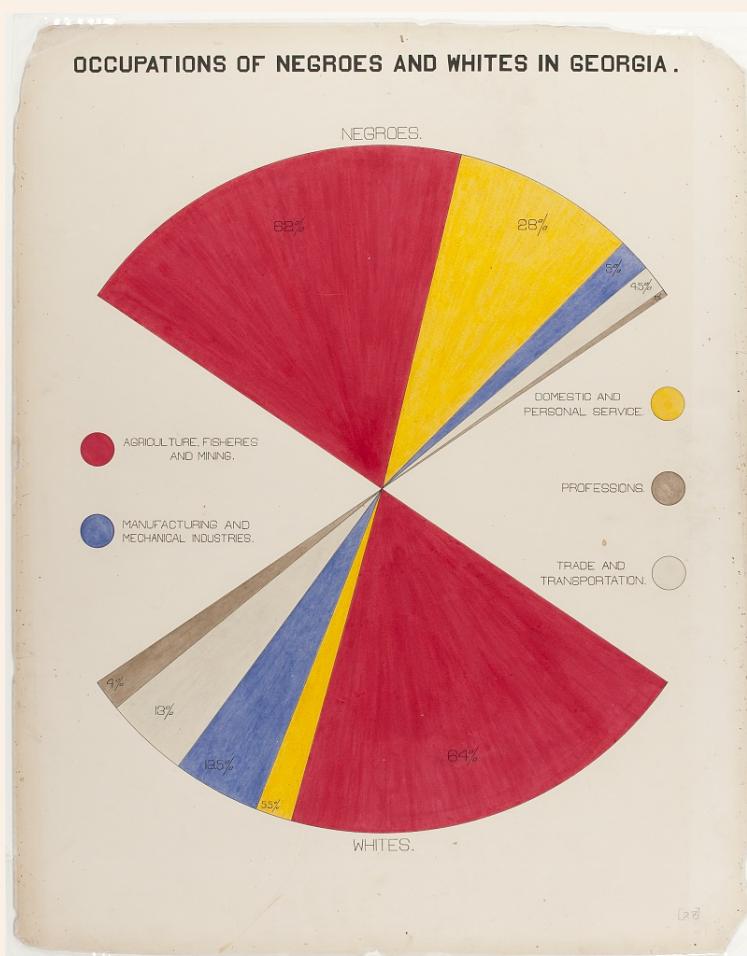
05



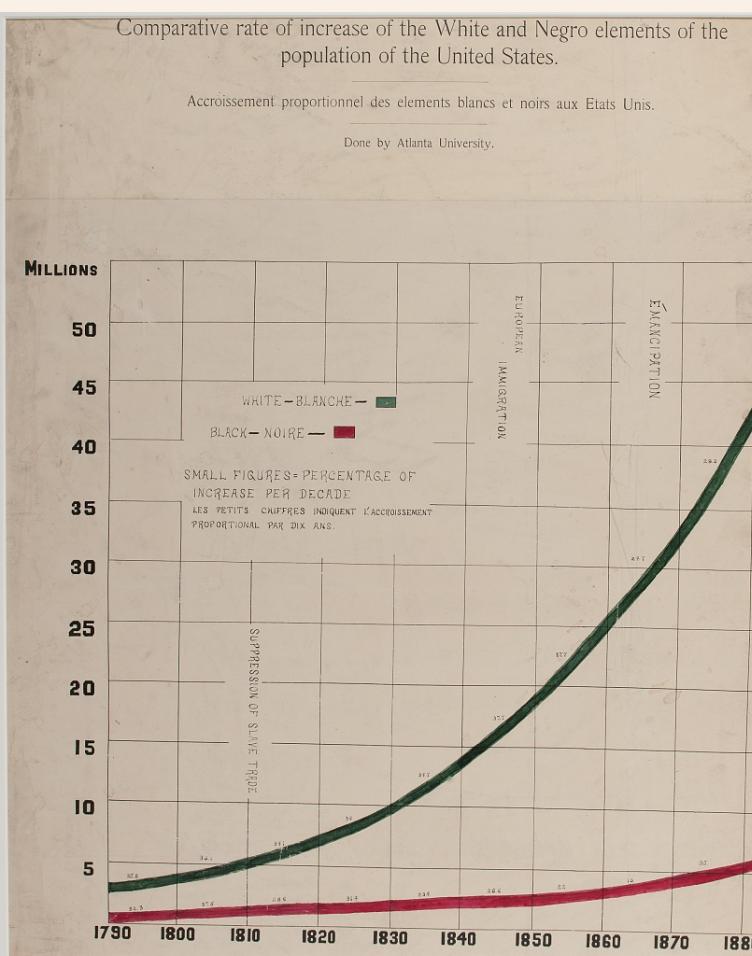
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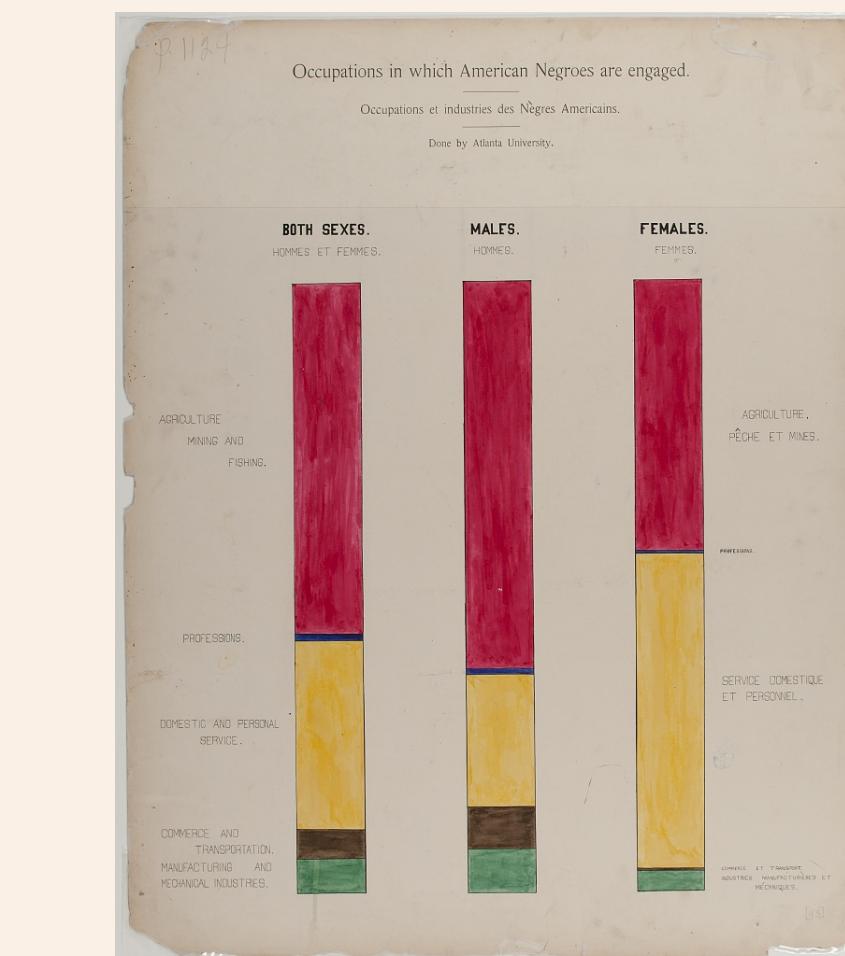
07



08



09



10



Using github

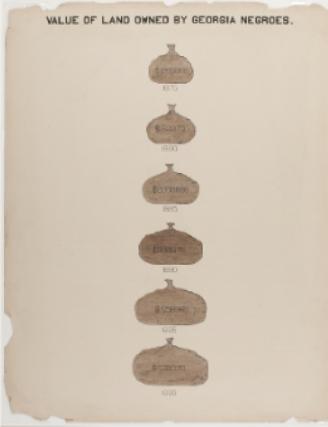
Du Bois Visualization Challenge: 2023

#DuBoisChallenge2023

01



02



03



04



05



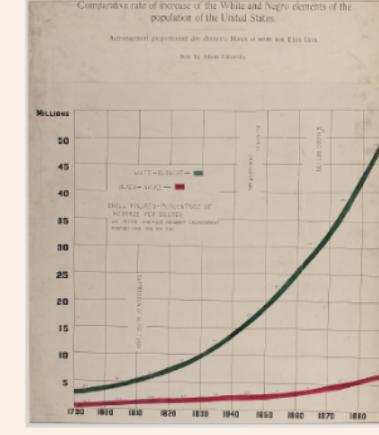
06



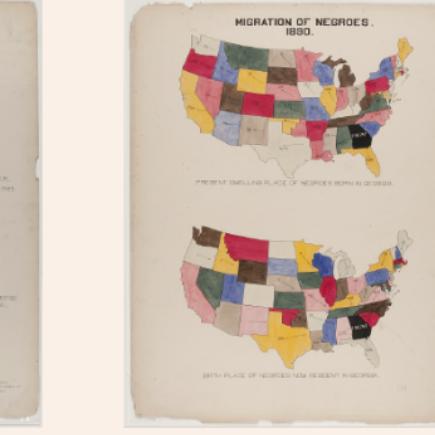
07



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 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

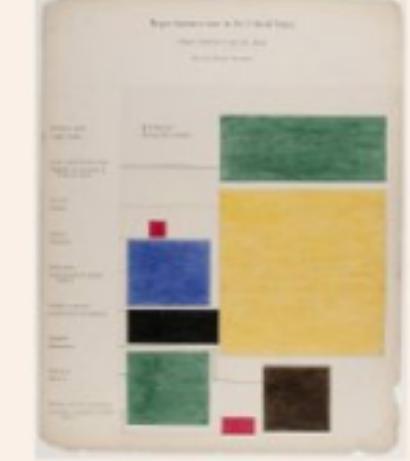
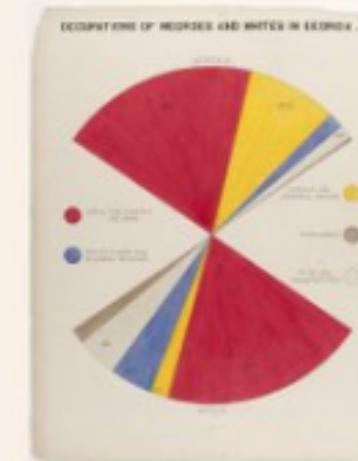
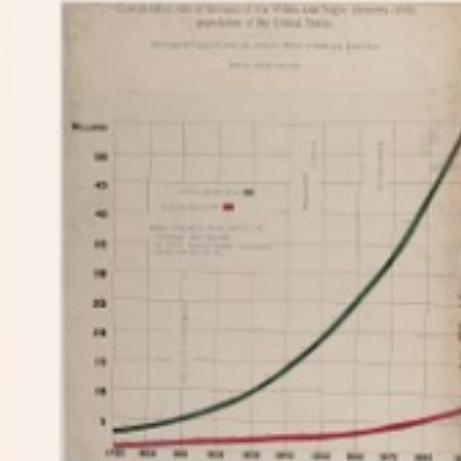
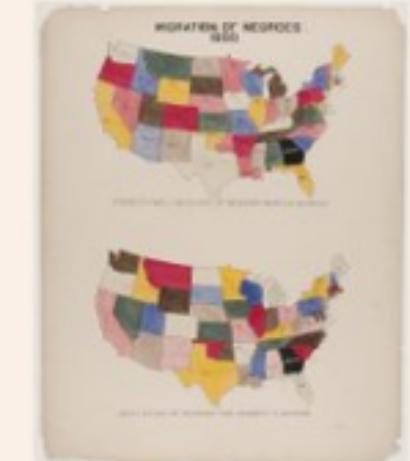
1	Class	Actual Average	Rent	Food	Clothes	Tax	Other
2	\$100-200	139.10	19	43	28	0.1	9.9
3	\$200-300	249.45	22	47	23	4	4
4	\$300-400	335.66	23	43	18	4.5	11.5
5	\$400-500	433.82	18	37	15	5.5	24.5
6	\$500-750	547.00	13	31	17	5	34
7	\$750-1000	880.00	0	37	19	8	36
8	Over \$1000	1125.00	0	29	16	4.5	50.5

The Announcement

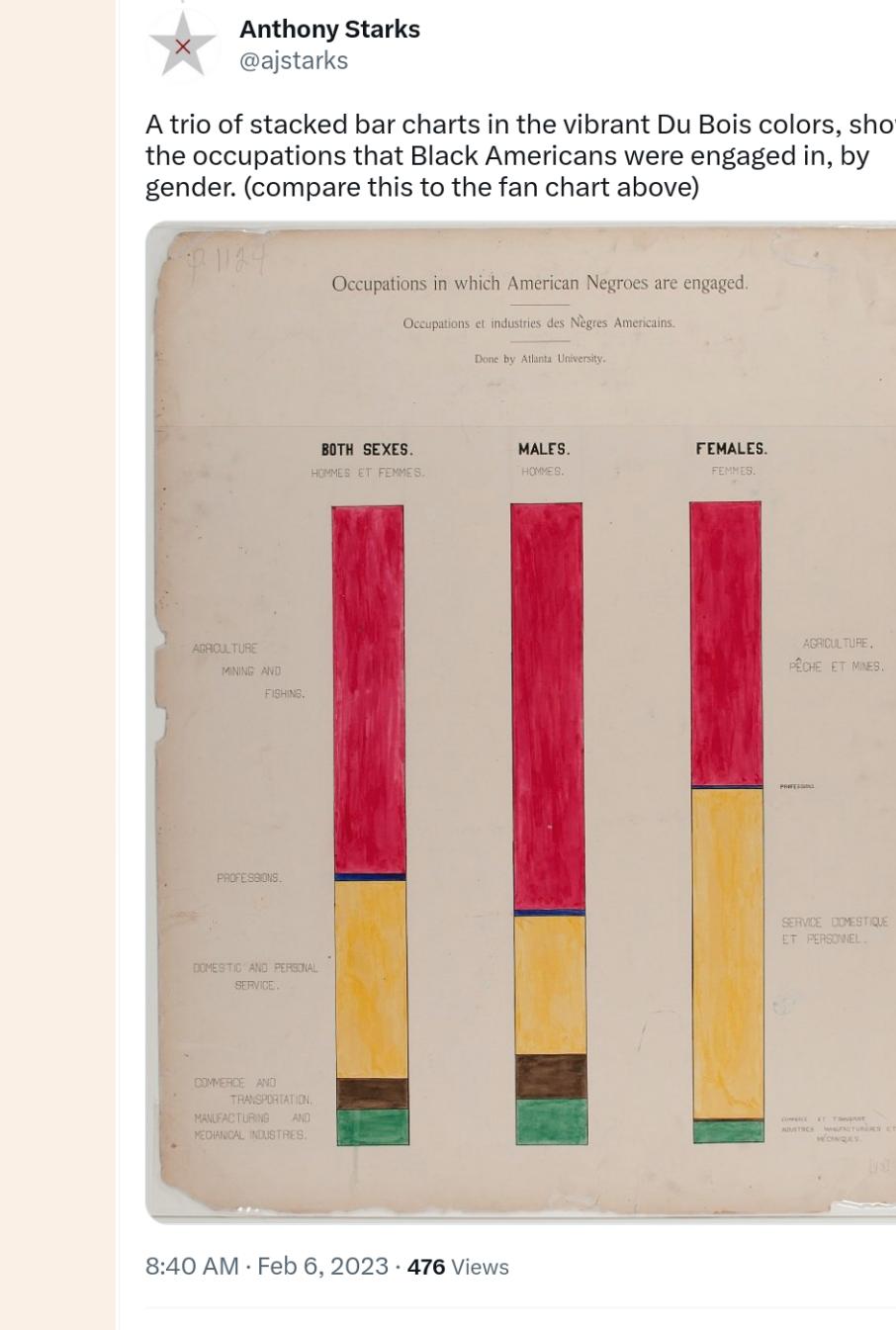
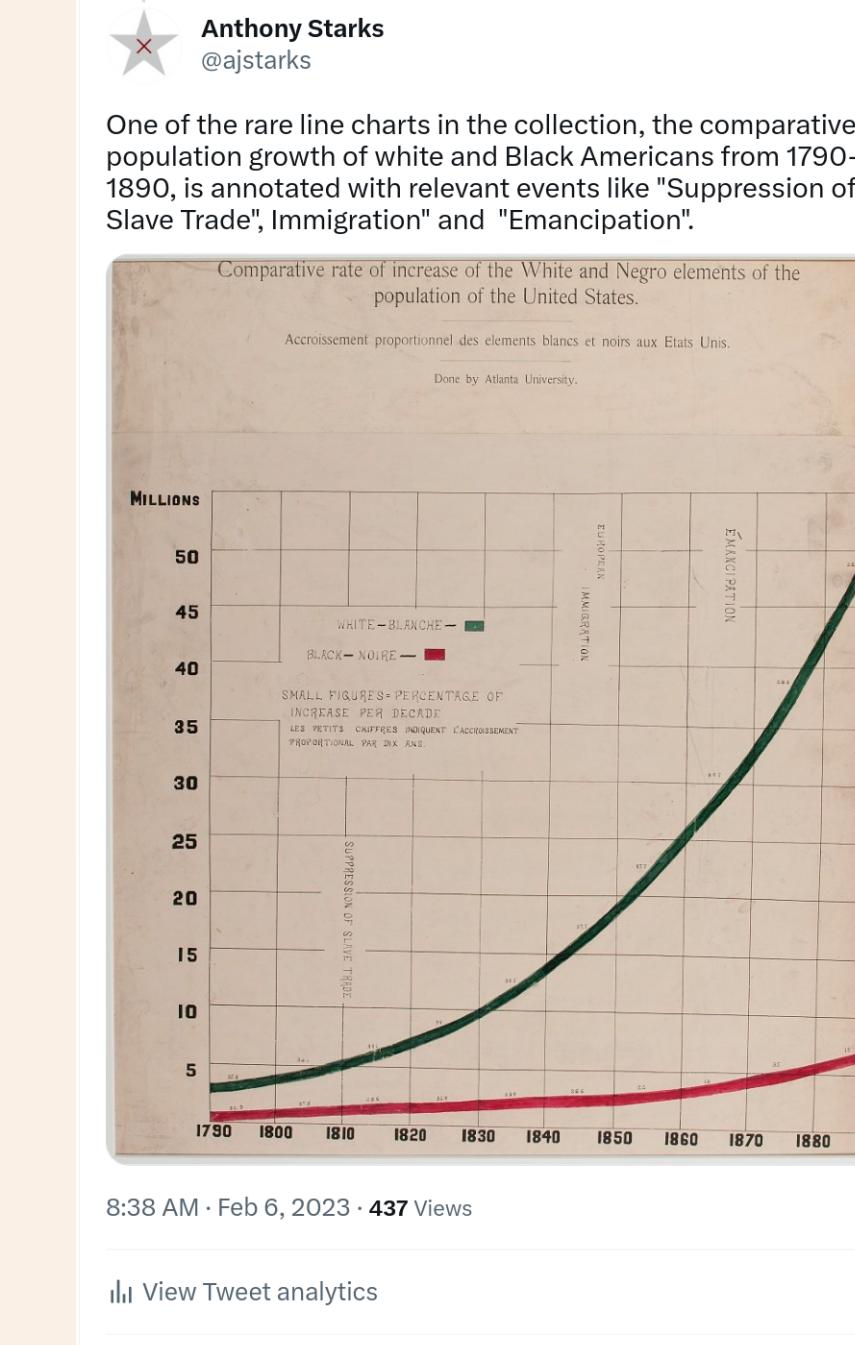
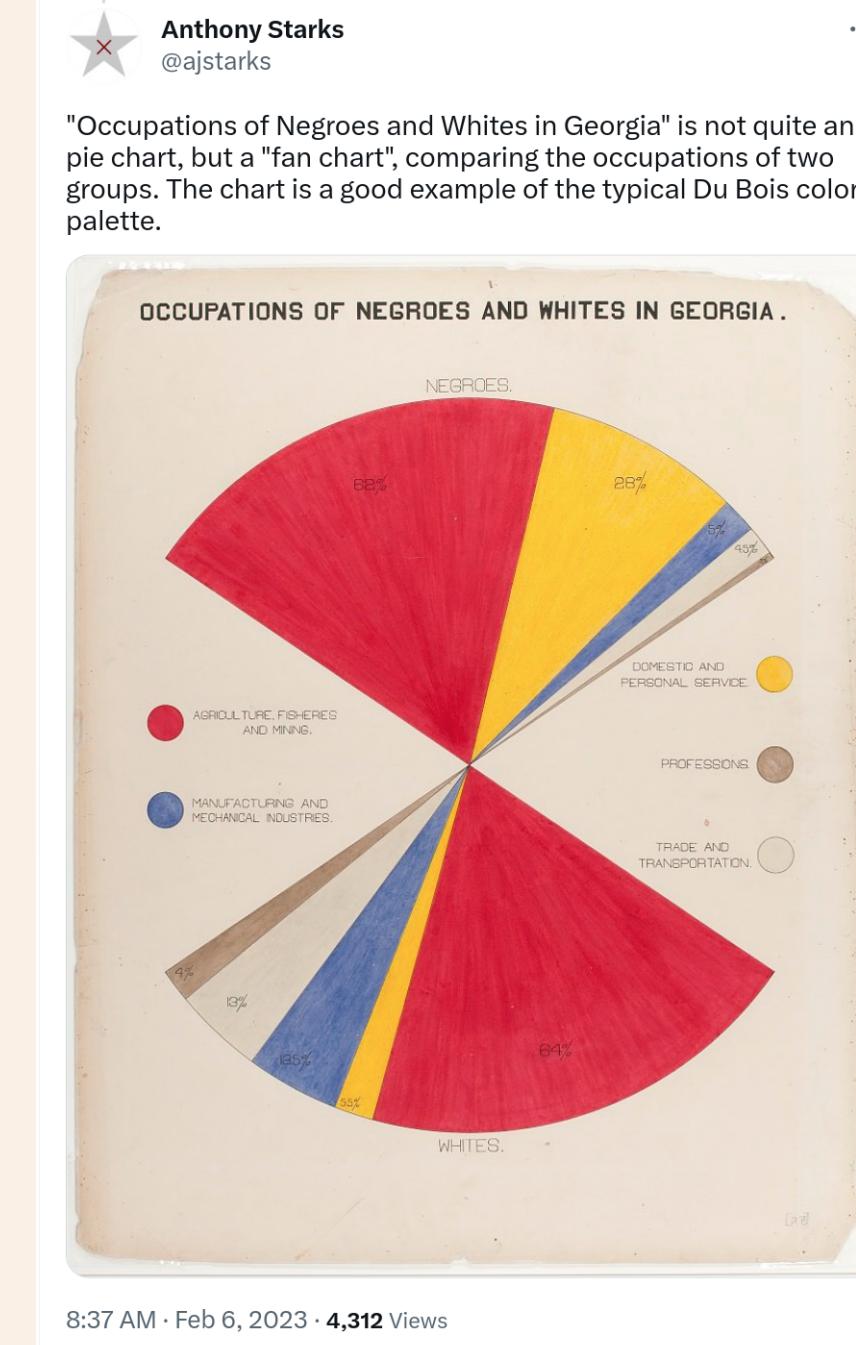
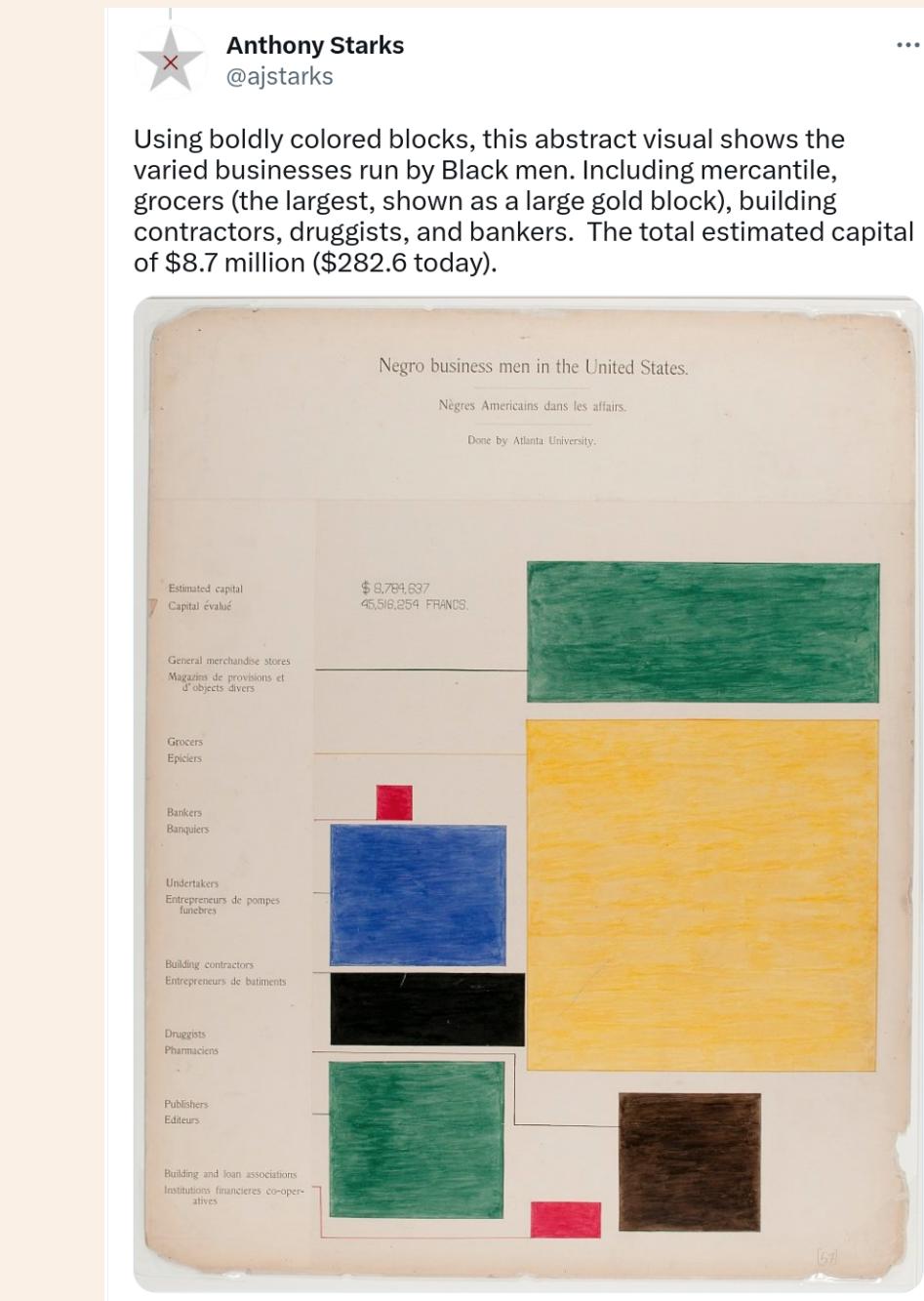
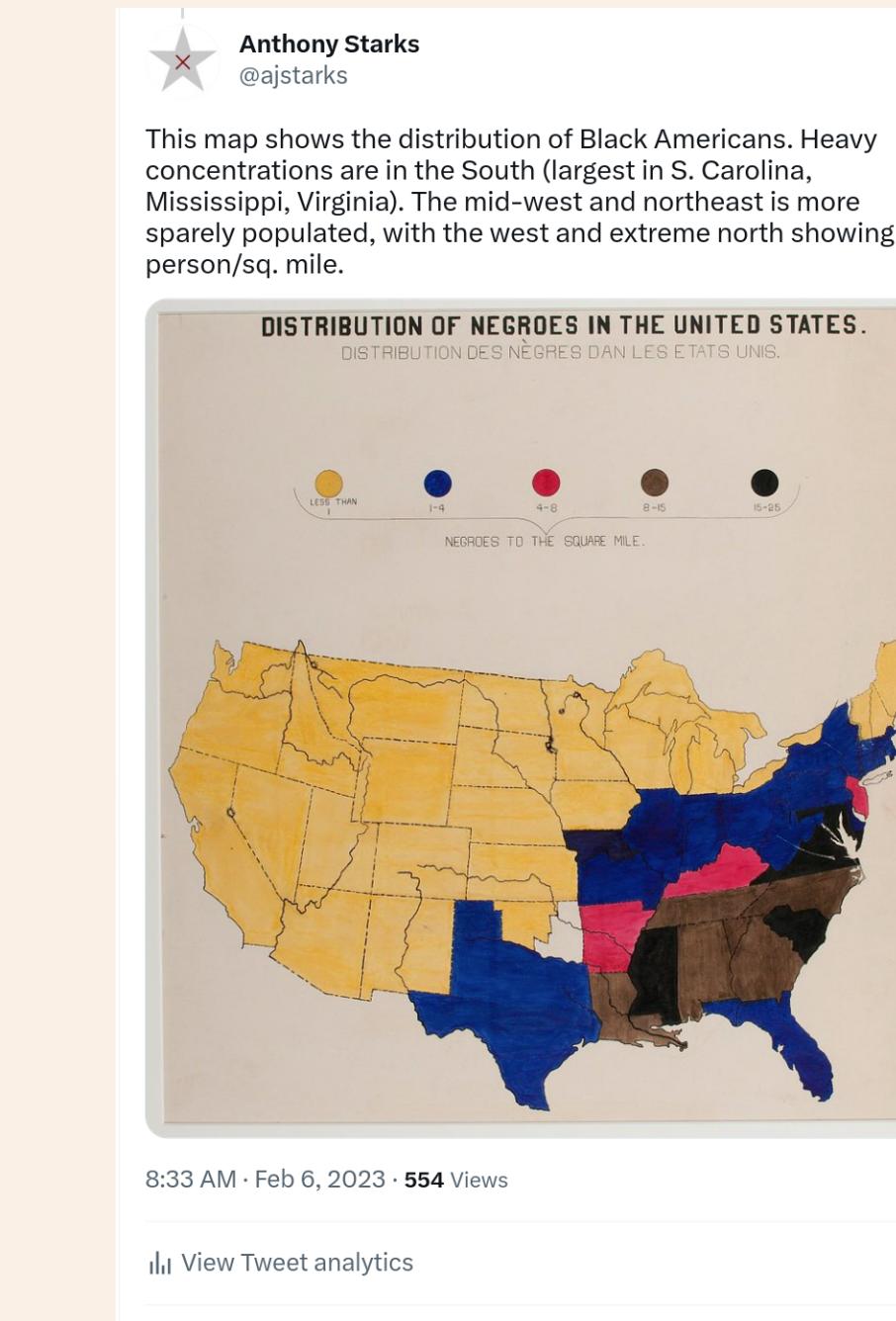
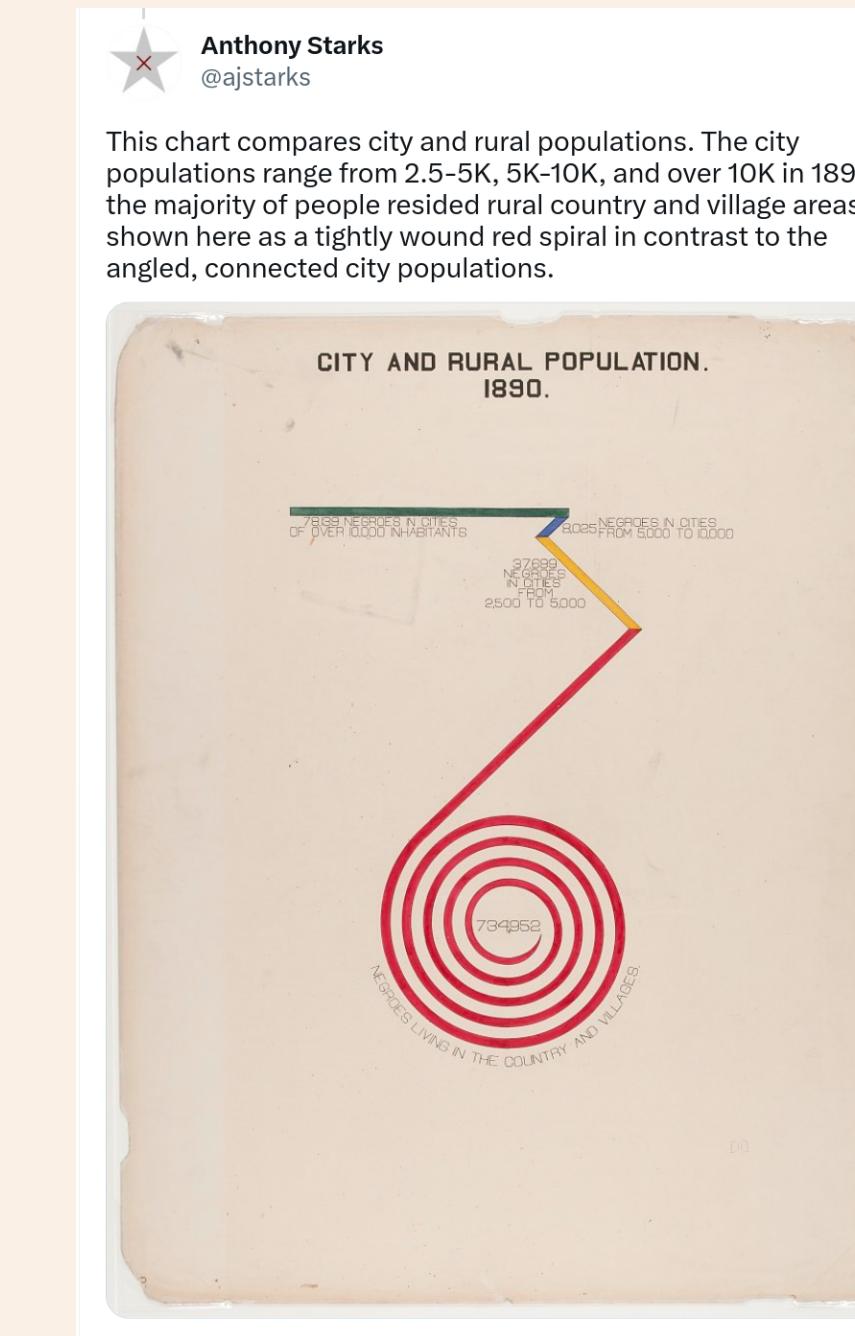
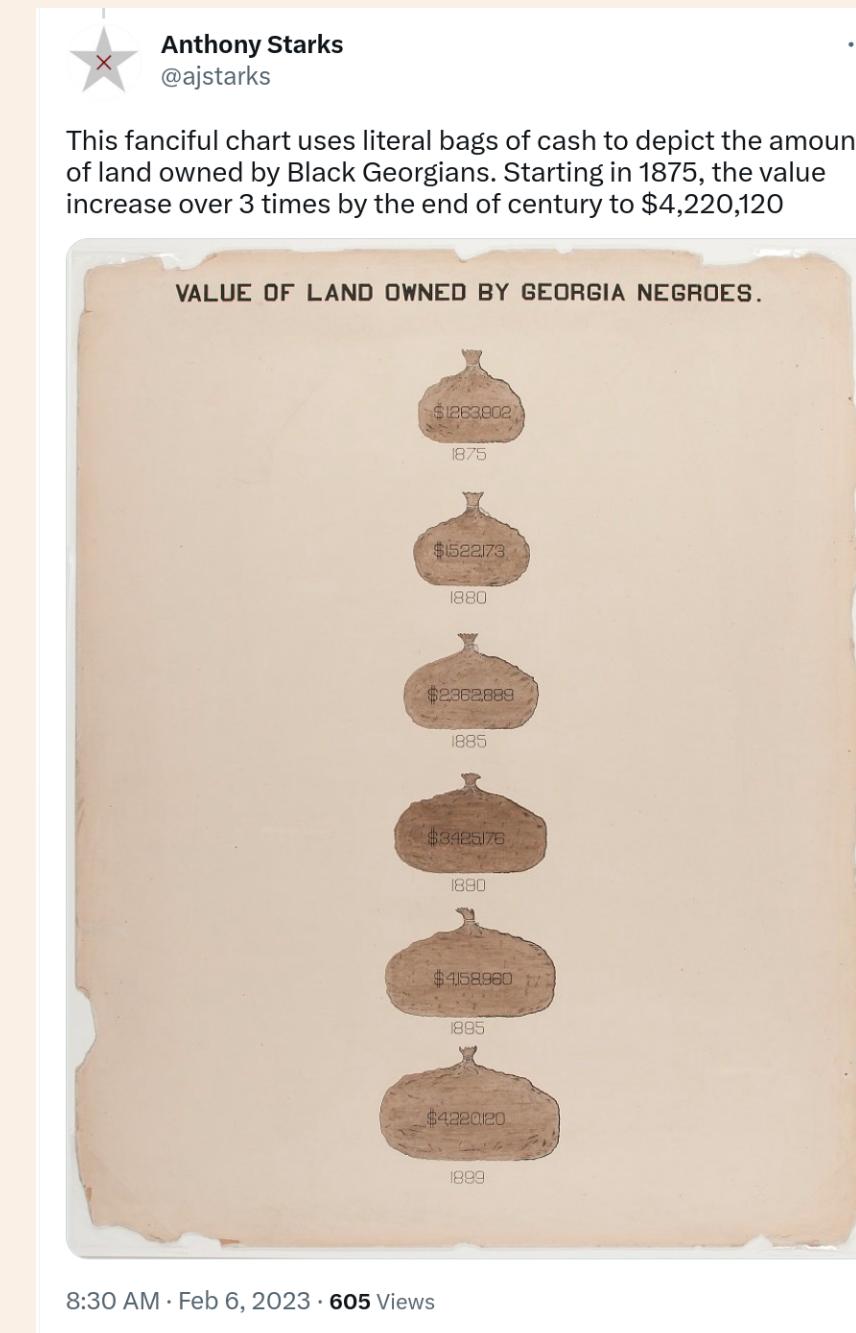
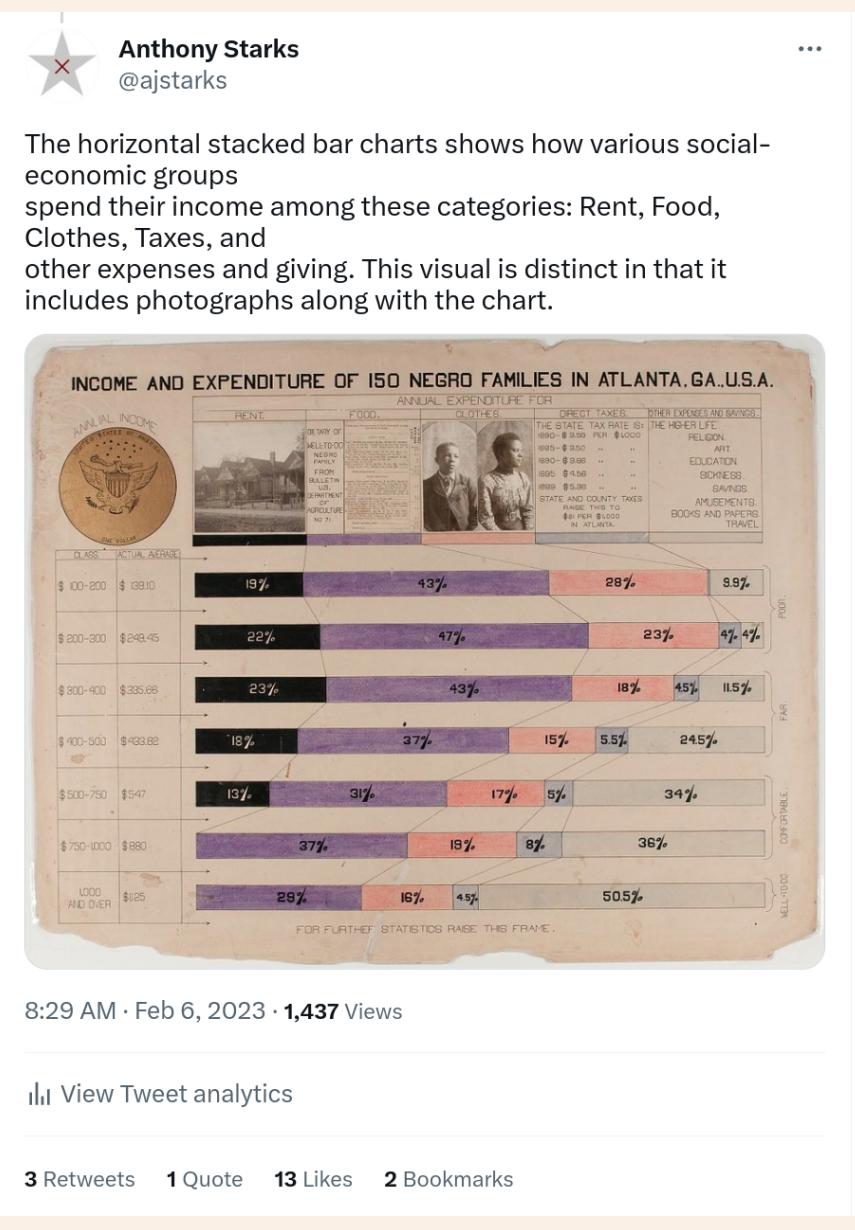
 Anthony Starks
@ajstarks ...

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 [@TIfize37321](#)

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.

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

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 Starke | @ajstarks | Klaus Schulte | @profdrkschulte

6:12 AM · Feb 11, 2023 · 2,681 Views

2 Retweets 35 Likes 1 Bookmark

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

9:47 AM · Feb 24, 2023 · 7,144 Views

16 Retweets 2 Quotes 65 Likes 5 Bookmarks

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

ALT

11:29 AM · Feb 10, 2023 · 2,577 Views

8 Retweets 30 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.

1:19 PM · Mar 5, 2023 · 3,645 Views

3 Retweets 1 Quote 14 Likes 3 Bookmarks

becca b. [@geeky_bb](#)

#DuBoisChallenge2023 @tableaupublic

Link: 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

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

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.

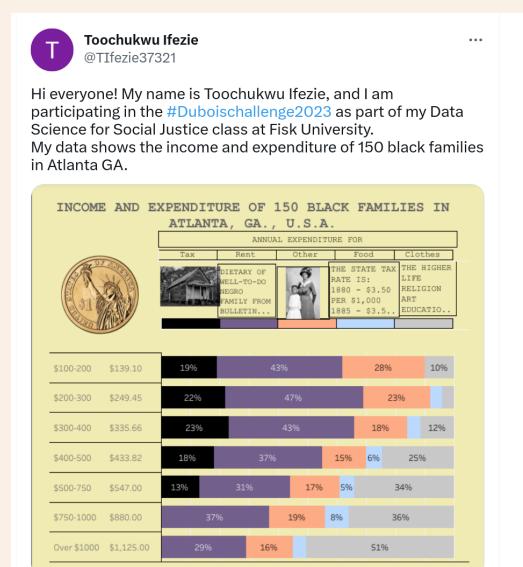
PRESENT DWELLING PLACE OF NEGROES BORN IN GEORGIA

BIRTHPLACE OF NEGROES NOW RESIDENT IN GEORGIA

12:34 AM · Mar 10, 2023 · 933 Views

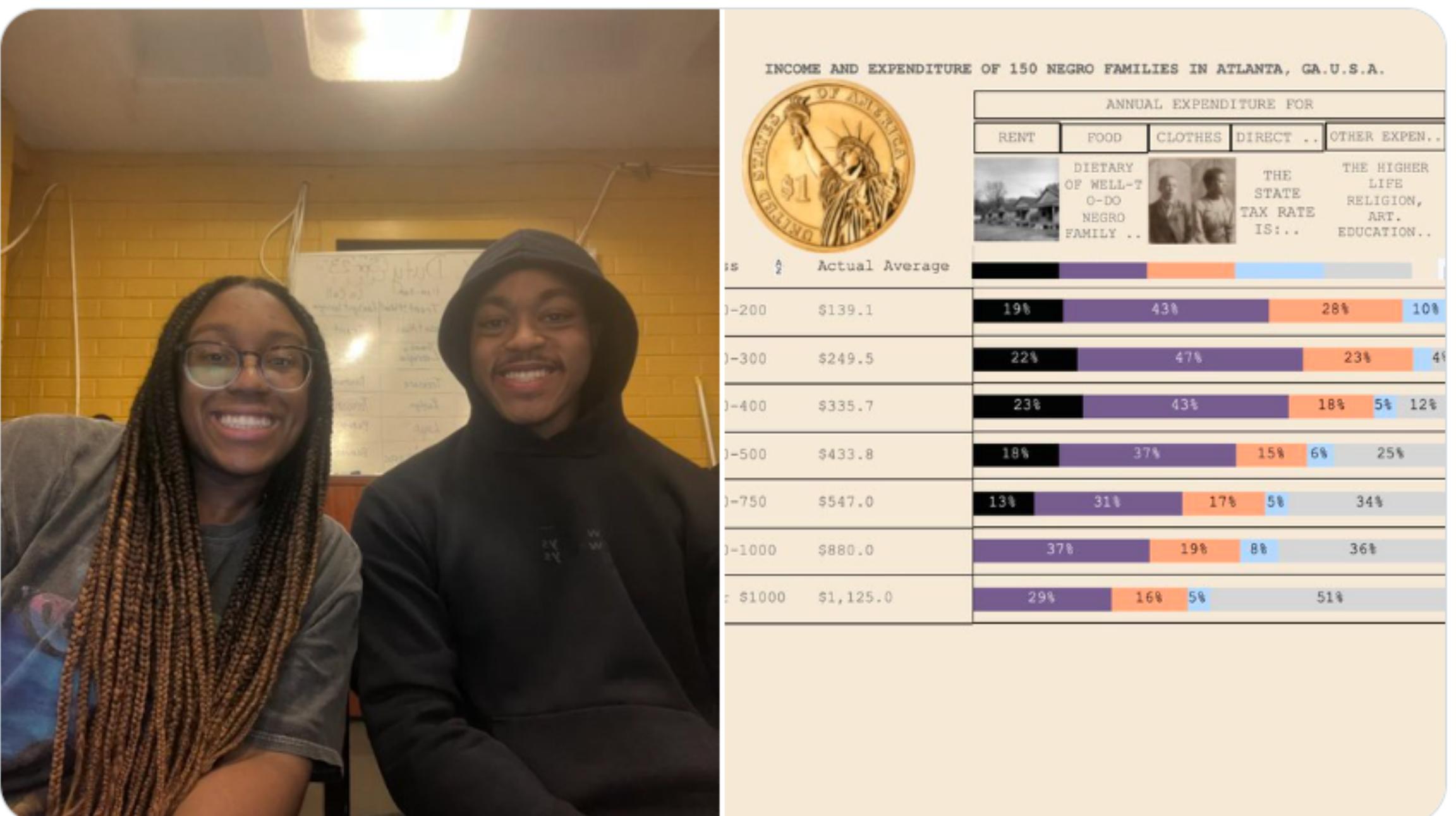
3 Retweets 11 Likes

Fisk Students



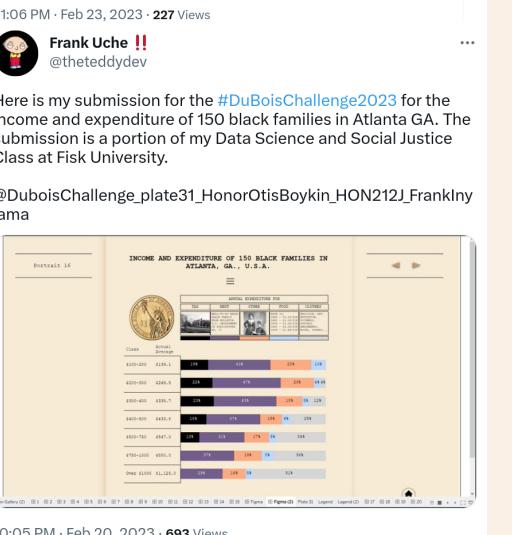
Laila Eliotti
@only1_laila

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

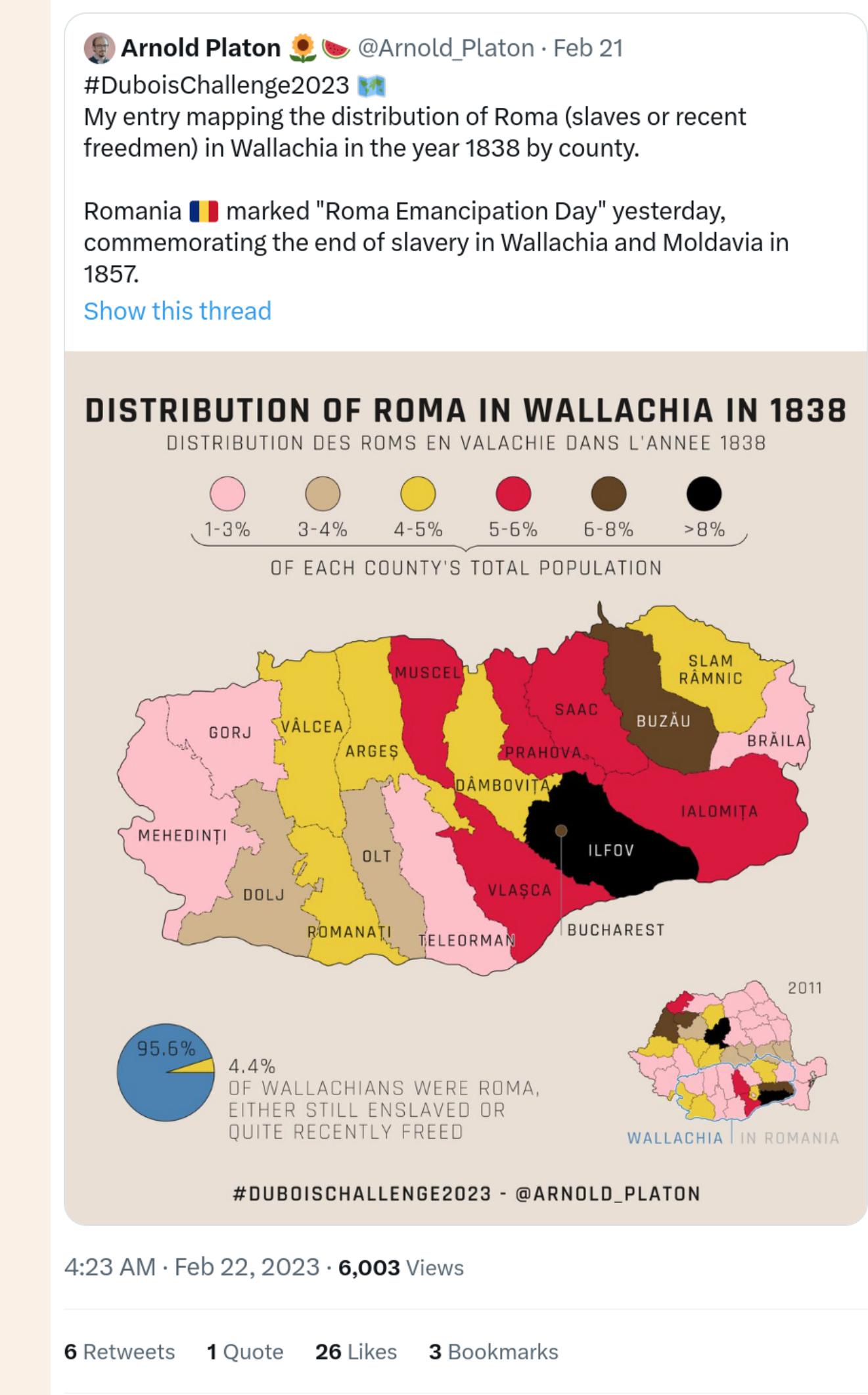
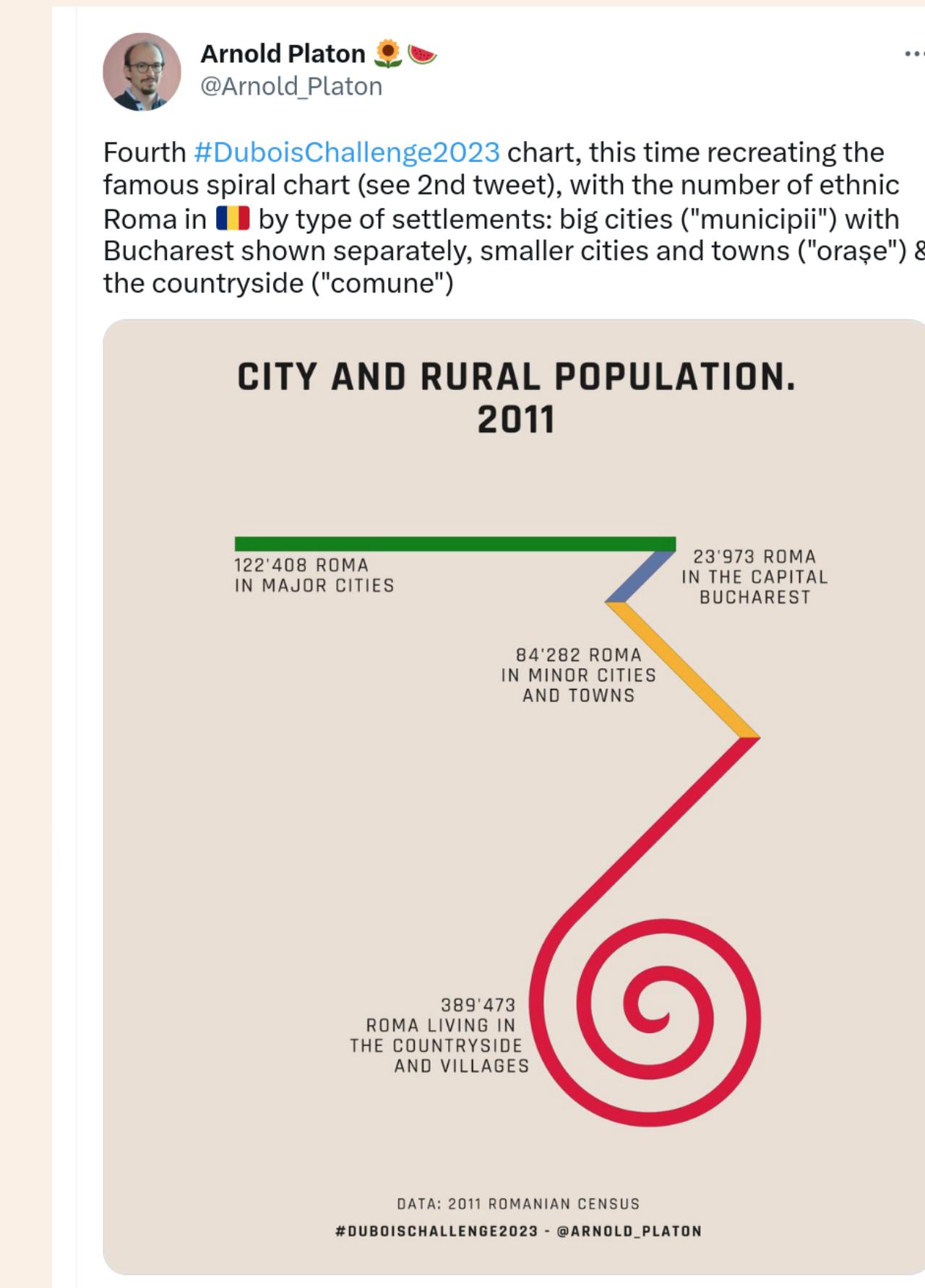
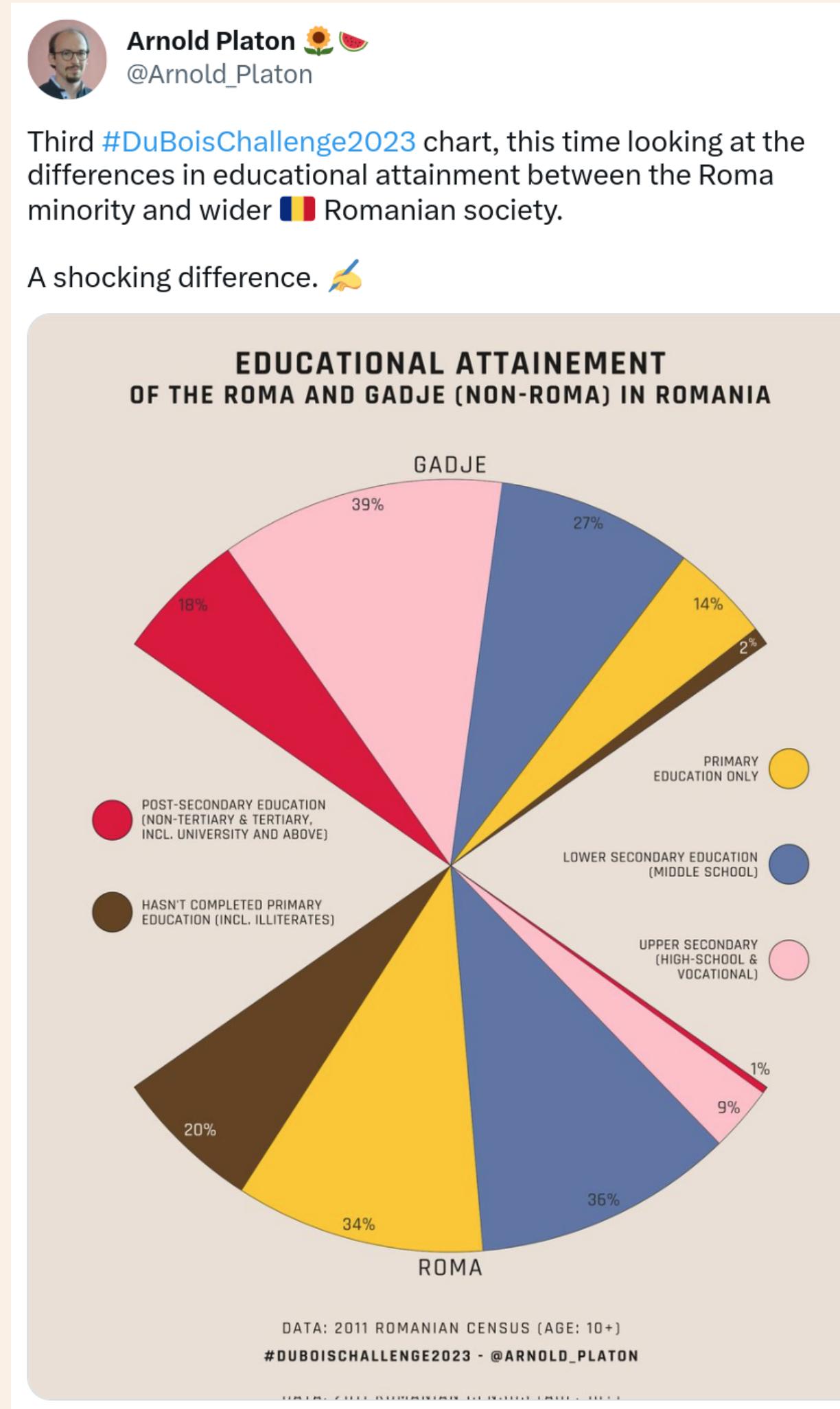


11:10 PM · Feb 15, 2023 · 1,905 Views

5 Retweets 1 Quote 16 Likes



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
• @IcaroBSC | Ⓜ️ @IcaroBernardes | 📈 @icarobsc

The chart displays the proportion of higher education enrollments by race (Blacks and Whites) and field. The fields include Law and Business (red), Education and Others (blue), Engineering & Production, Computer and Natural Sciences (yellow), Arts, Social and Human Sciences (brown), and Health and Wellness (light brown). The chart uses proportional arc lengths to represent the data.

Race	Field	Proportion (%)
Blacks	LAW AND BUSINESS.	29%
	EDUCATION AND OTHERS.	25%
	ENGINEERING & PRODUCTION, COMPUTER AND NATURAL SCIENCES.	20%
	ARTS, SOCIAL AND HUMAN SCIENCES.	7%
	HEALTH AND WELLNESS.	9%
WHITES.	LAW AND BUSINESS.	30%
	EDUCATION AND OTHERS.	23%
	ENGINEERING & PRODUCTION, COMPUTER AND NATURAL SCIENCES.	19%
	ARTS, SOCIAL AND HUMAN SCIENCES.	19%
	HEALTH AND WELLNESS.	19%

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
• @IcaroBSC | Ⓜ️ @IcaroBernardes | 📈 @icarobsc

The infographic features a large, angled bar chart showing the number of prisoners per million of black population, with a value of 3664. Below the chart is a legend for race categories: UNKNOWN (pink), ASIANS (yellow), WHITES (brown), BLACKS (black), and NATIVES (green).

3664 PRISONERS PER MILLION OF BLACK POPULATION.

UNKNOWN ASIANS WHITES BLACKS NATIVES

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
• @IcaroBSC | Ⓜ️ @IcaroBernardes | 📈 @icarobsc

The infographic displays a series of colored squares representing the 15 samba schools that have won the main parade competition in Rio. The schools are: Unidos da Capela (red), Acadêmicos do Salgueiro (blue), Unidos da Tijuca (light blue), Vizinha Faladeira (dark blue), Recreio de Ramos (pink), Imperatriz Leopoldinense (green), Beija-Flor de Nilópolis (light green), Acadêmicos do Grande Rio (dark green), Estação de Sá (purple), Império Serrano (orange), Portela (yellow-orange), Macidade Independente de Padre Miguel (light orange), Unidos do Viradouro (pink), Estação Primeira de Mangueira (light pink), and Unidos de Vila Isabel (light blue).

15 SAMBA SCHOOLS WON THE MAIN PARADE COMPETITION IN RIO.

ALT

9:18 AM · Mar 7, 2023 · 2,144 Views

8 Retweets 28 Likes 2 Bookmarks

Hemeed (725Hemeed)

Hemed
@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

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 Lugo | #DuBoisChallenge2023

ALT

5:21 PM · Feb 23, 2023 · 1,940 Views

12 Retweets 1 Quote 38 Likes 1 Bookmark

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

Hemed
@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

Country	Population
ESPAÑA	17,500,000
AUSTRALIA	3,036,570
NORVÉGE	2,000,917
SUÈDE	4,774,409
DANMARK	2.4M+
NEDERLANDEN	4,500,000
LA BELGIQUE	6,000,000
U.S.A	BLACK AMERICAN POPULATION POPULATION NOIRE AMÉRICaine 7,500,000
HONGRIE	17,500,000
BAYERN	5,800,000
ENGELAND	27,500,000

ALT

#DuBoisChallenge | Created by Hemed Lugo

4:46 PM · Feb 19, 2023 · 1,275 Views

5 Retweets 16 Likes

Galleries

Raisa Hannus

 **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-Africanist 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

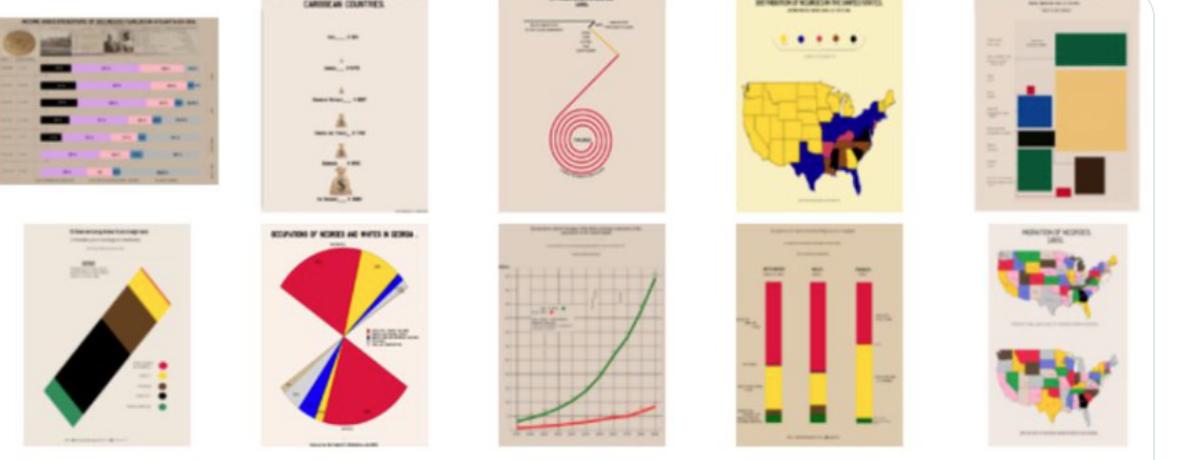
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Patrick Stephenson

 **Patrick Stephenson**
@stepminer2

I can now have my own #DuboisChallenge2023, Gallery. #Rstats #magick #blackhistorymonth2023.



Pat Stephenson (@stepminer2) Gallery
#DuboisChallenge2023

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 **Raisa Hannus** @Blu7ip · Mar 12
Replies to @stepminer2
Great work, very impressive! 🎉

 1    11 

 **Carlos Cámarra Menoyo - ccamara@...** @carle... · Mar 19
Replies to @Blu7ip and @stepminer2
Indeed! Do you have your code available somewhere?

    7 

Elisa Davis

 **Elisa Davis**
@ItsElisaDavis



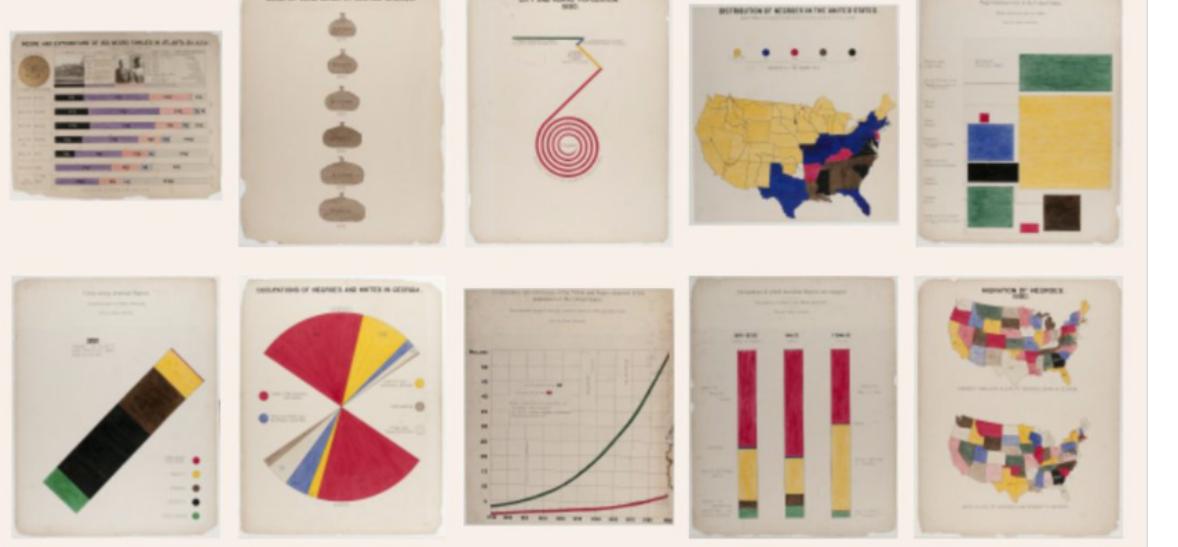
In honor of W.E.B Du Bois and Black History Month, I completed the entire 2023 #duboischallenge using @tableaupublic: tabsoft.co/3y2J0o9

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