

**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%
\$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%

8:20 PM · Mar 14, 2023 · 840 Views

2 Retweets 2 Quotes 13 Likes 1 Bookmark

**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

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

Black americans to square miles

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..](https://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

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**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: SENADPEN AND IBGE | GRAPHIC BY: ÍCARO BERNARDES  
@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](https://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

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 aux États-Unis

Done by Atlanta University

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

6:17 PM · Mar 11, 2023 · 998 Views

**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

# Curating The #DuboisChallenge2023

Anthony Starks

# In 1900, it began with them...

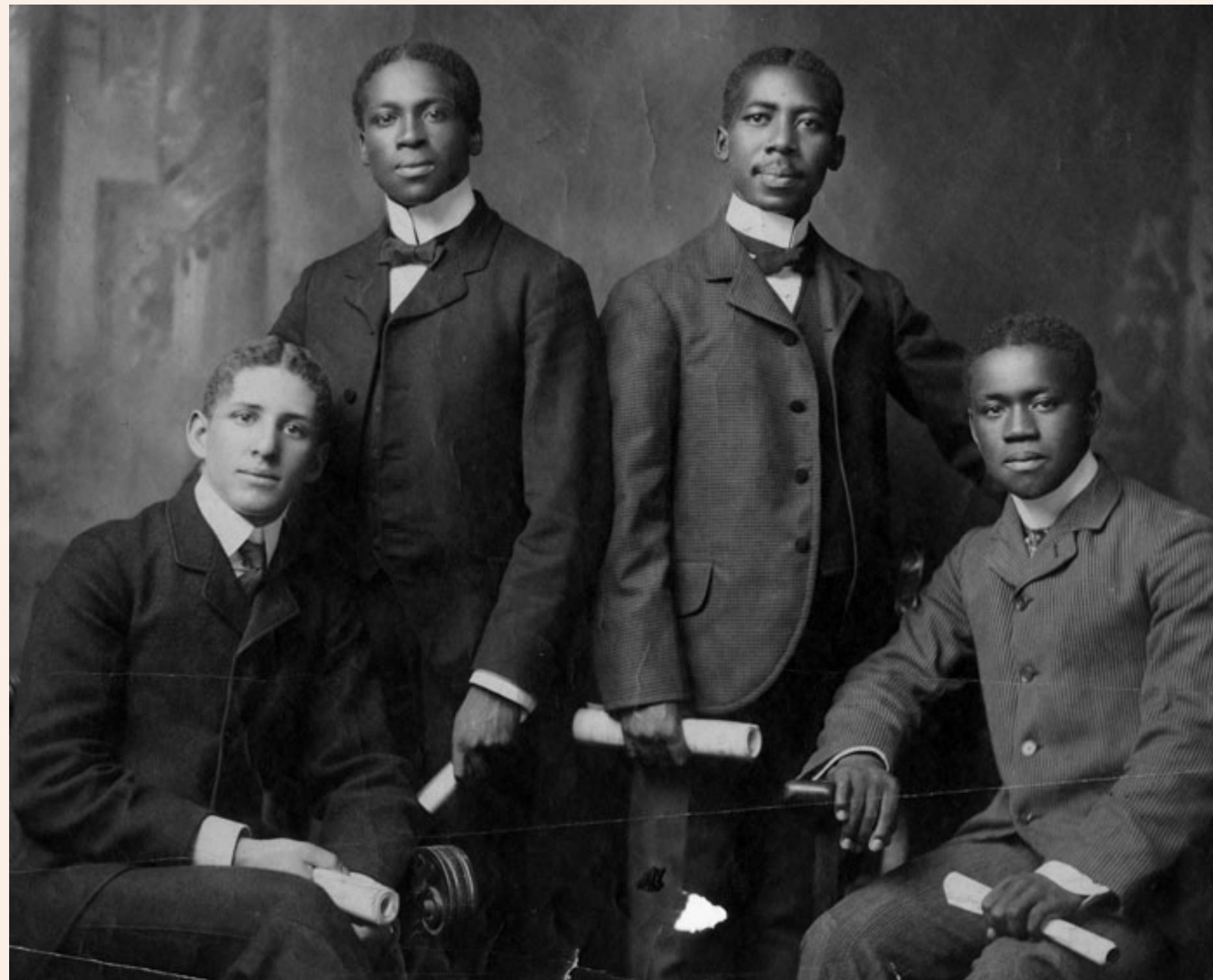


*Thomas J. Calloway*



*Du Bois in Paris*

# ...and Atlanta University



*Atlanta University Debating Team, c. 1900*



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

# Paris 1900



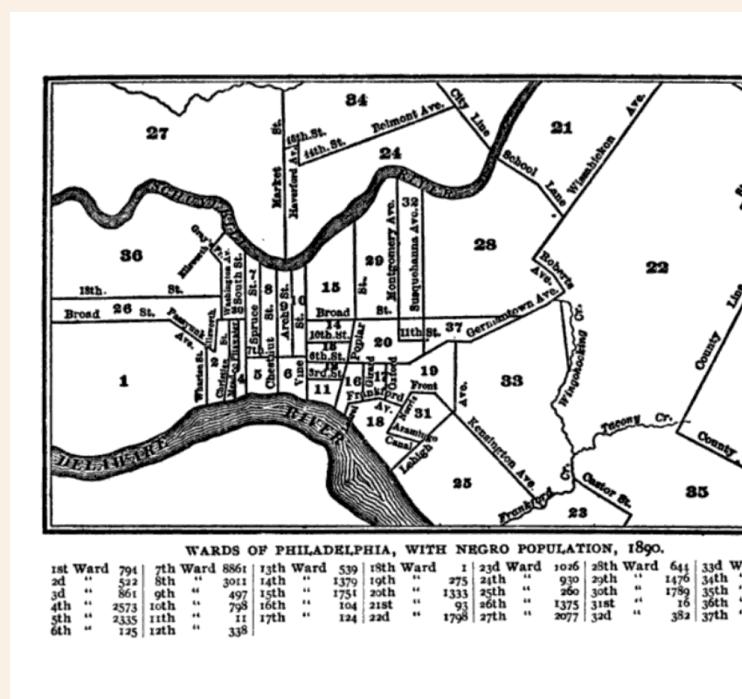
# Historical Context



“Black America” Fair

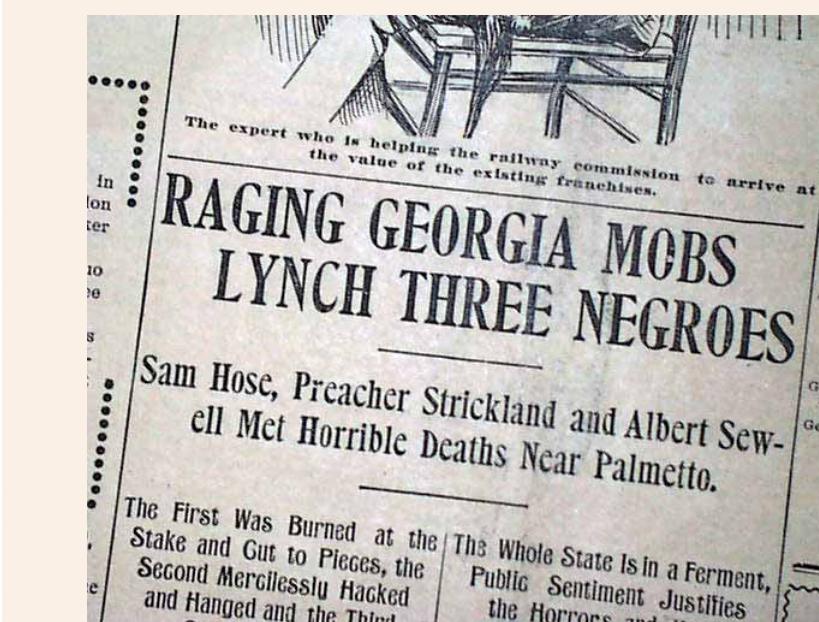


Plessy v. Ferguson

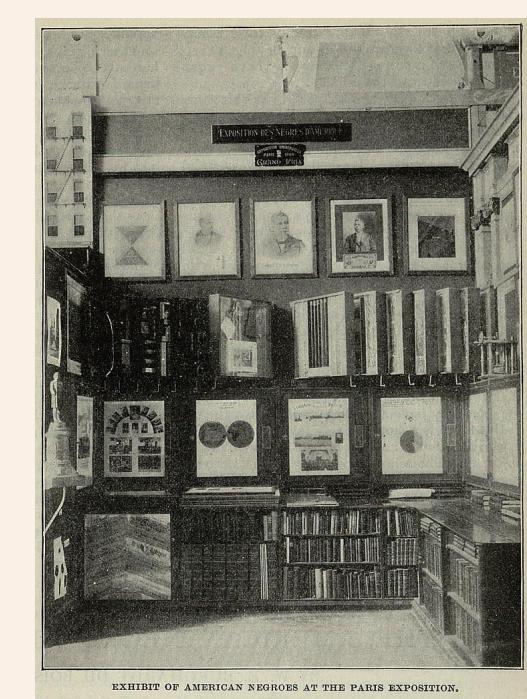


Phila. Negro begins

**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.



Lynchings Peak



Paris Exposition

1895

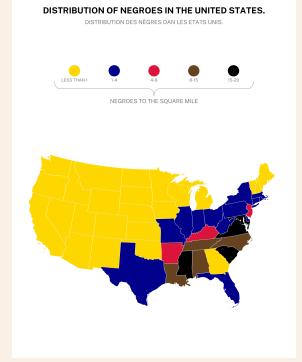
1896

1897

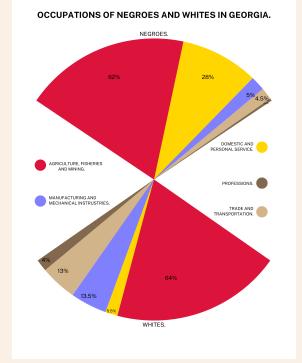
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1899

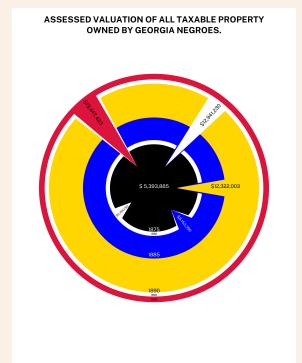
1900



# We are here



# This is who we are



# This is how far we have come

# In 2021, it began with them



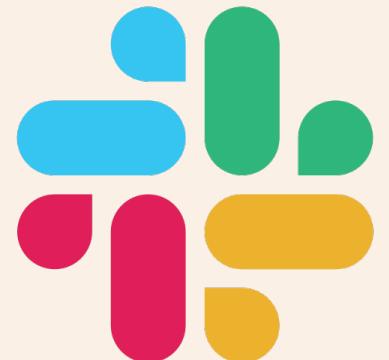
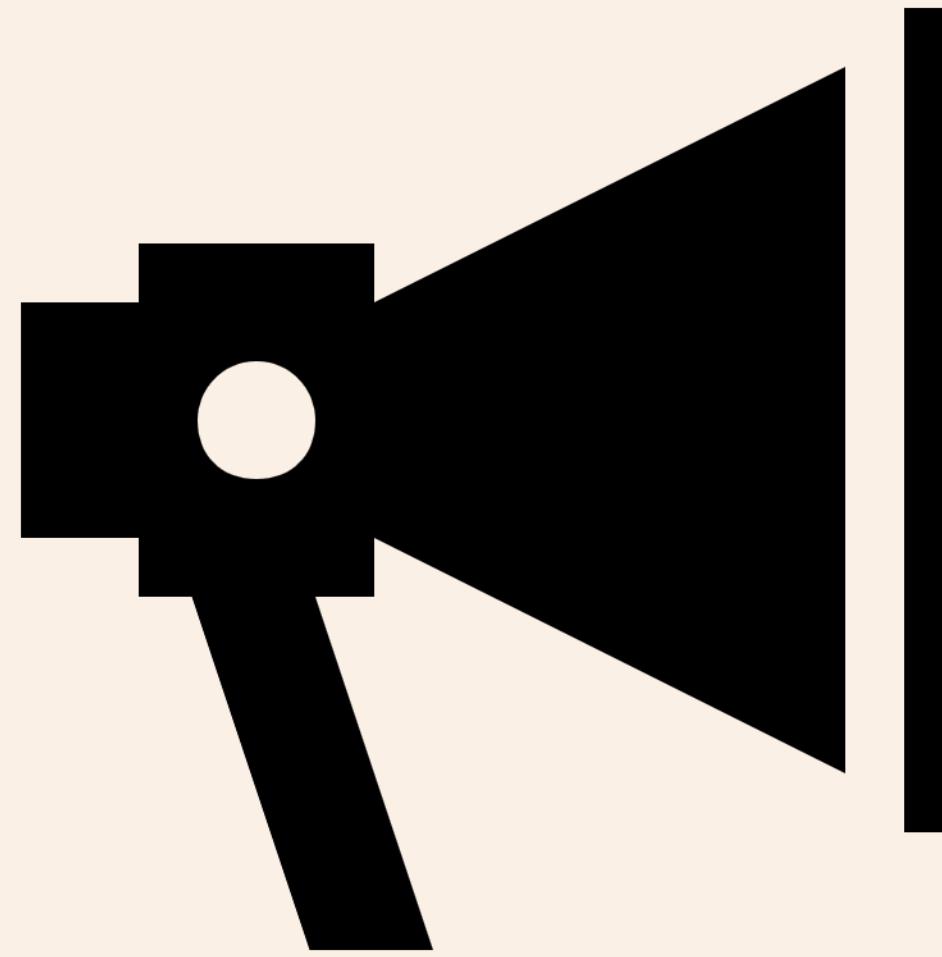
*Allen Hillery (@AlDataVizGuy)*



*Sekou Tyler (@sqlsekou)*

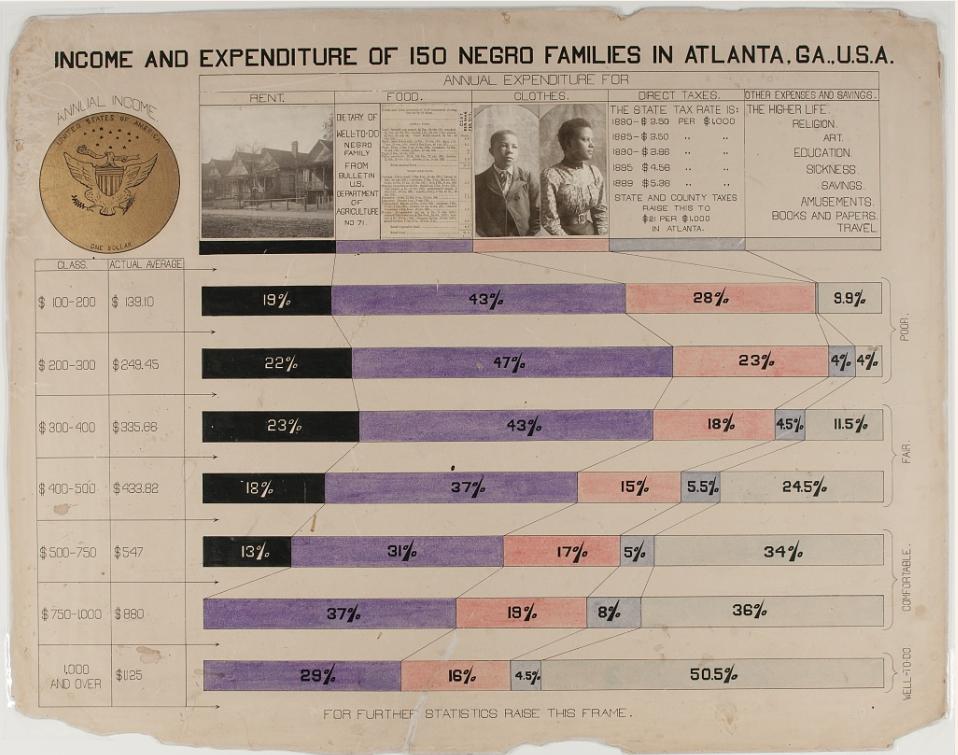
# Now: Modern Megaphone

Your Message

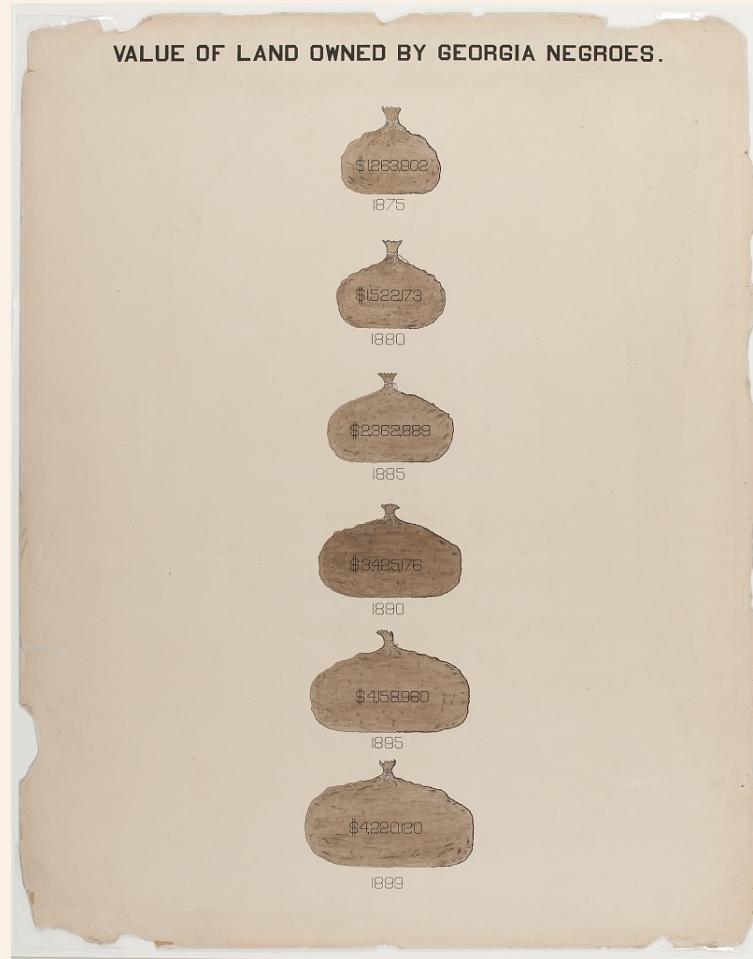


# #DuboisChallenge 2023 Entries

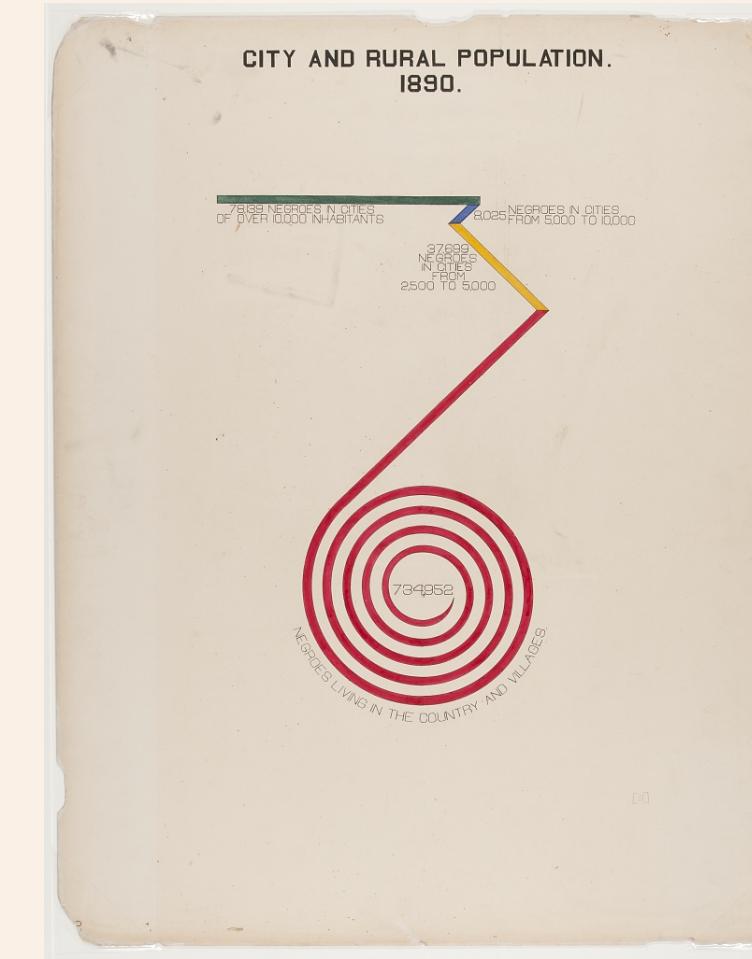
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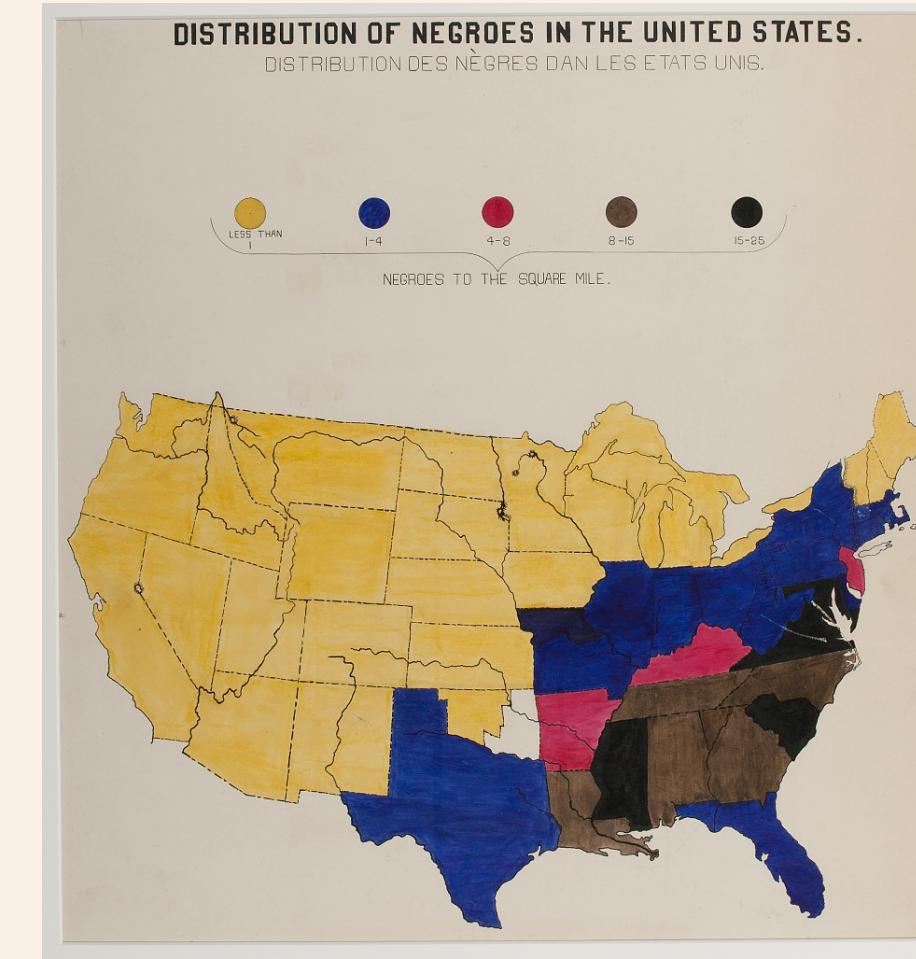
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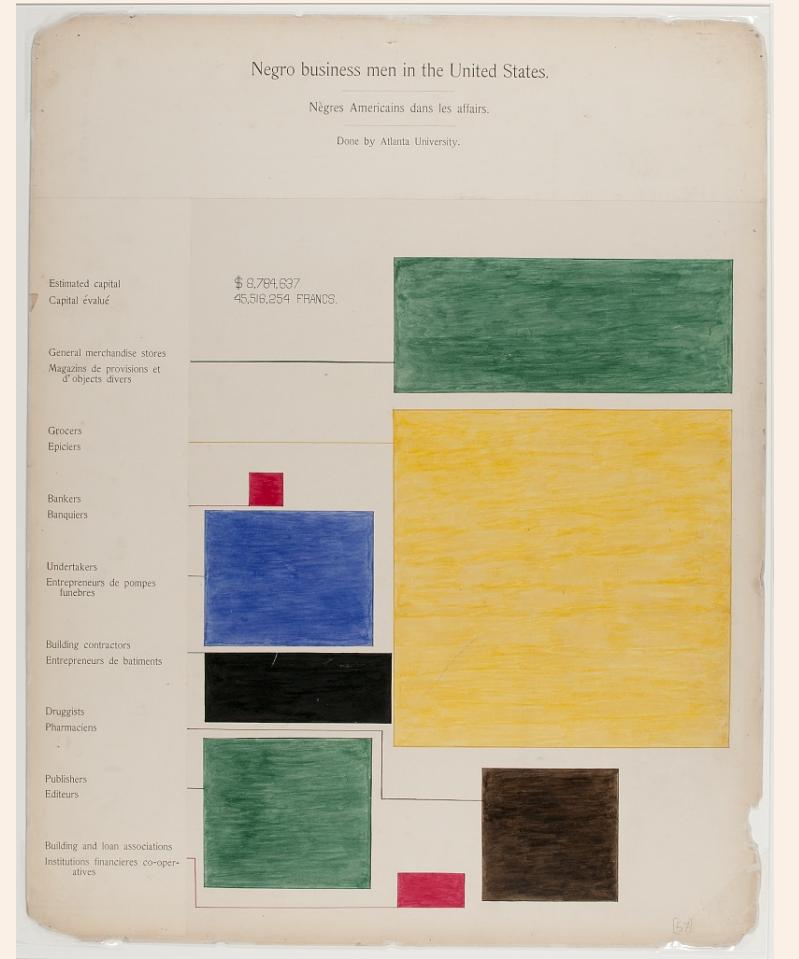
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04



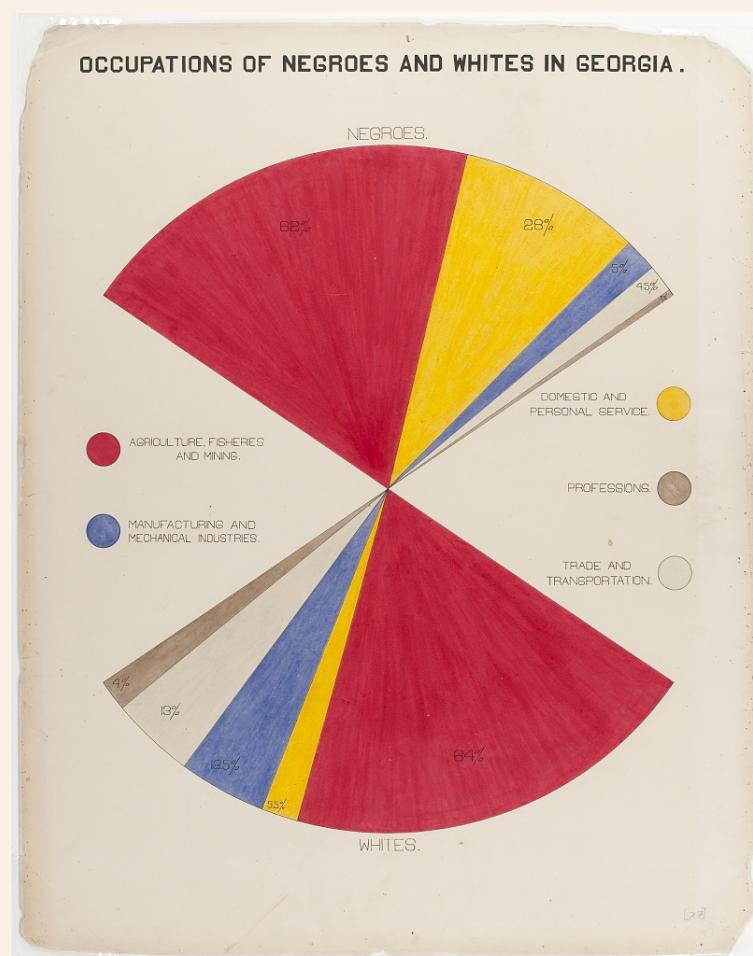
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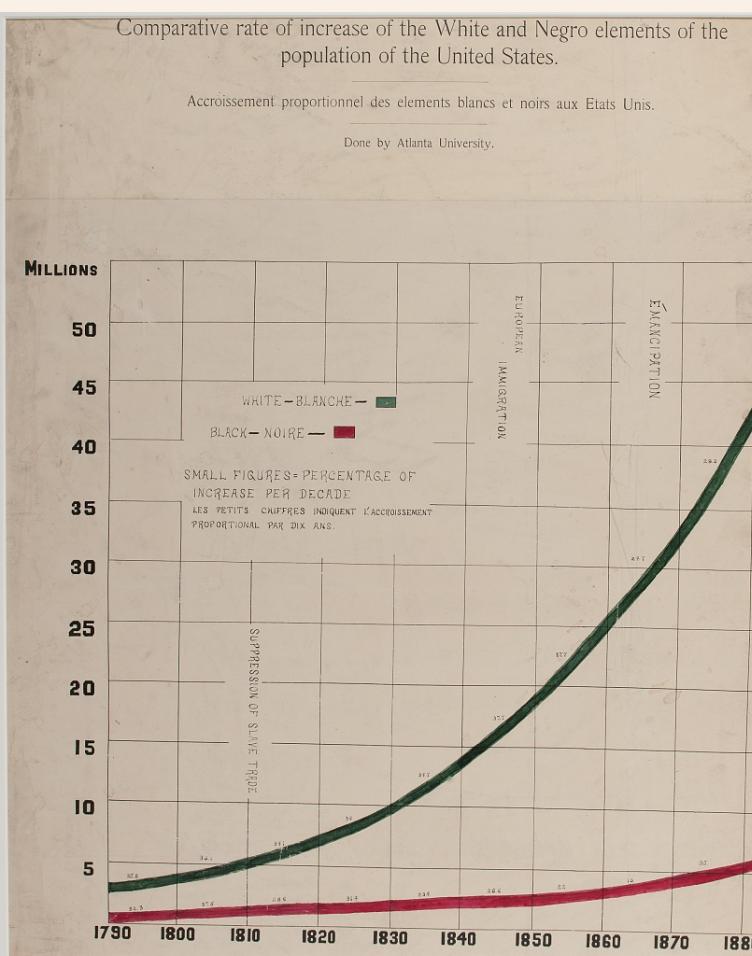
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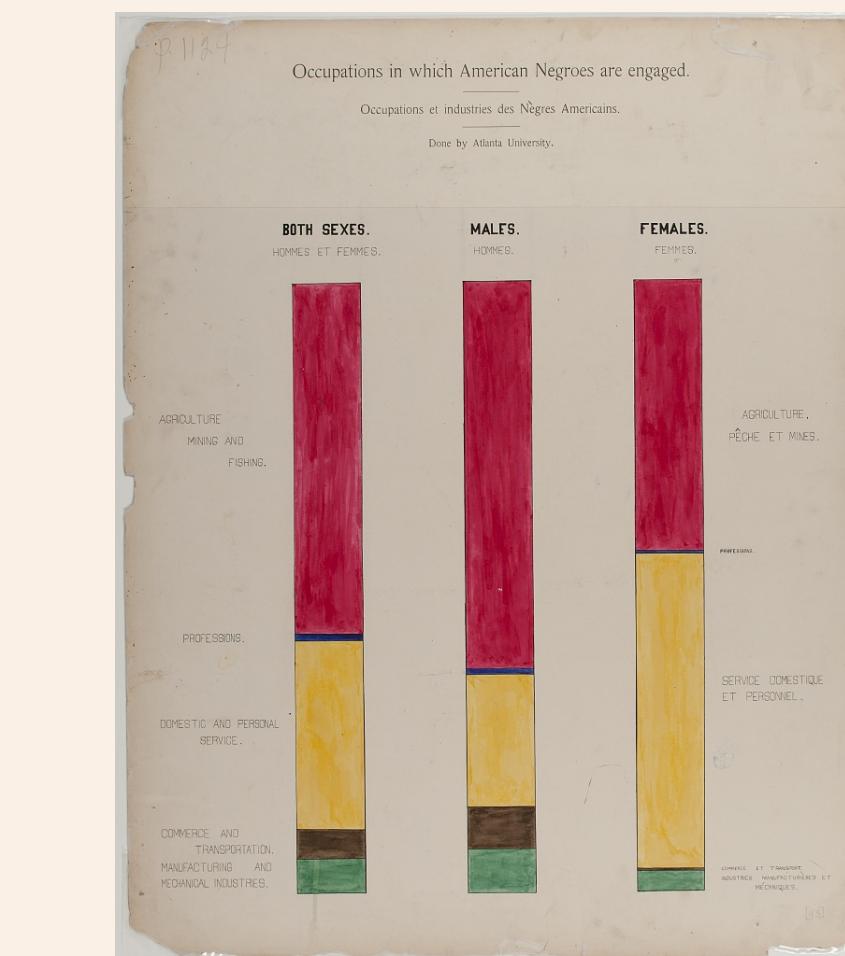
07



08



09



10



# Using github

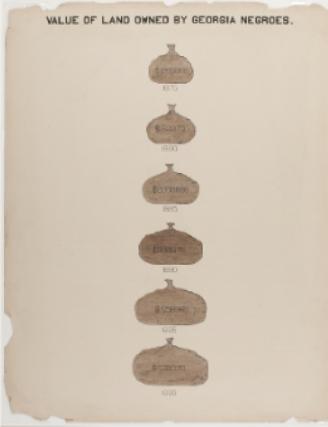
## Du Bois Visualization Challenge: 2023

#DuBoisChallenge2023

01



02



03



04



05



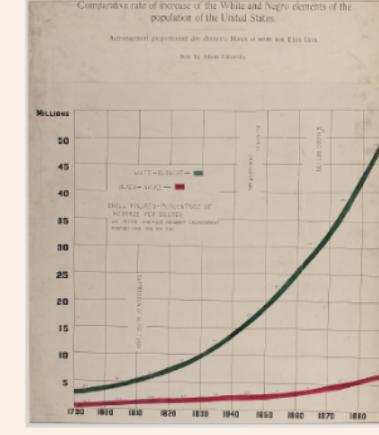
06



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 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

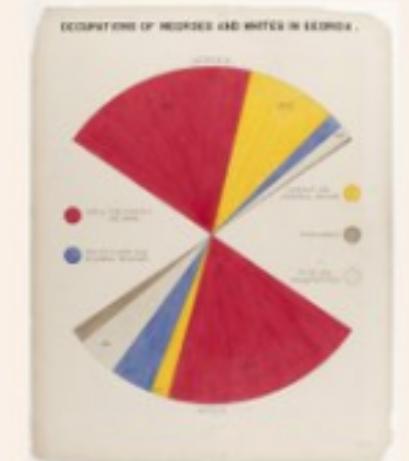
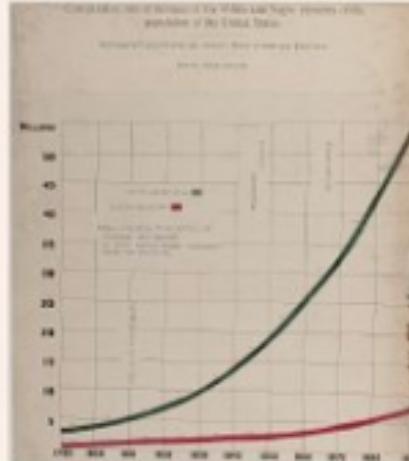
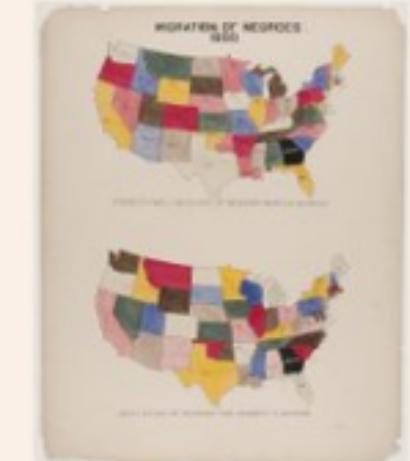
1	Class	Actual Average	Rent	Food	Clothes	Tax	Other
2	\$100-200	139.10	19	43	28	0.1	9.9
3	\$200-300	249.45	22	47	23	4	4
4	\$300-400	335.66	23	43	18	4.5	11.5
5	\$400-500	433.82	18	37	15	5.5	24.5
6	\$500-750	547.00	13	31	17	5	34
7	\$750-1000	880.00	0	37	19	8	36
8	Over \$1000	1125.00	0	29	16	4.5	50.5

# The Announcement

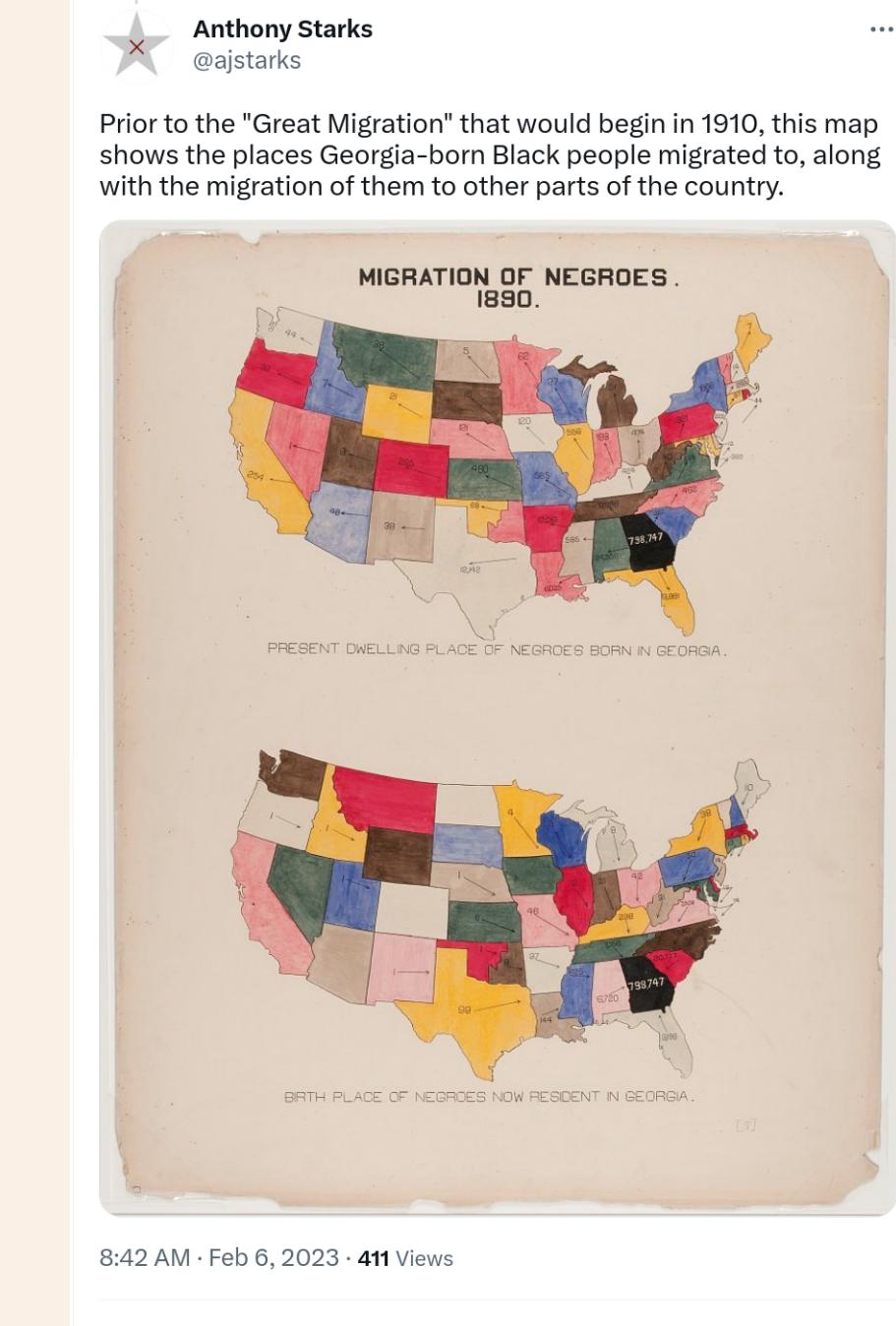
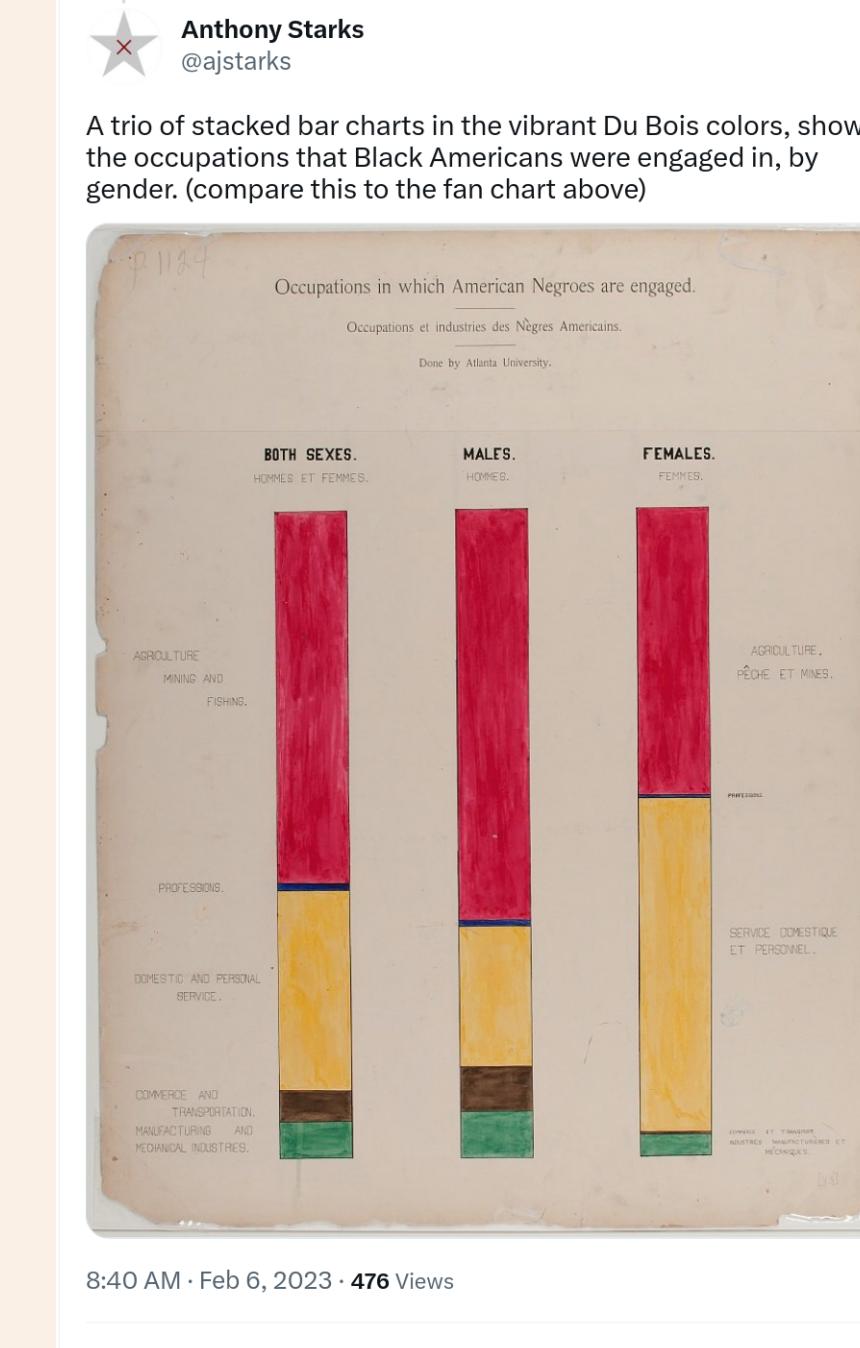
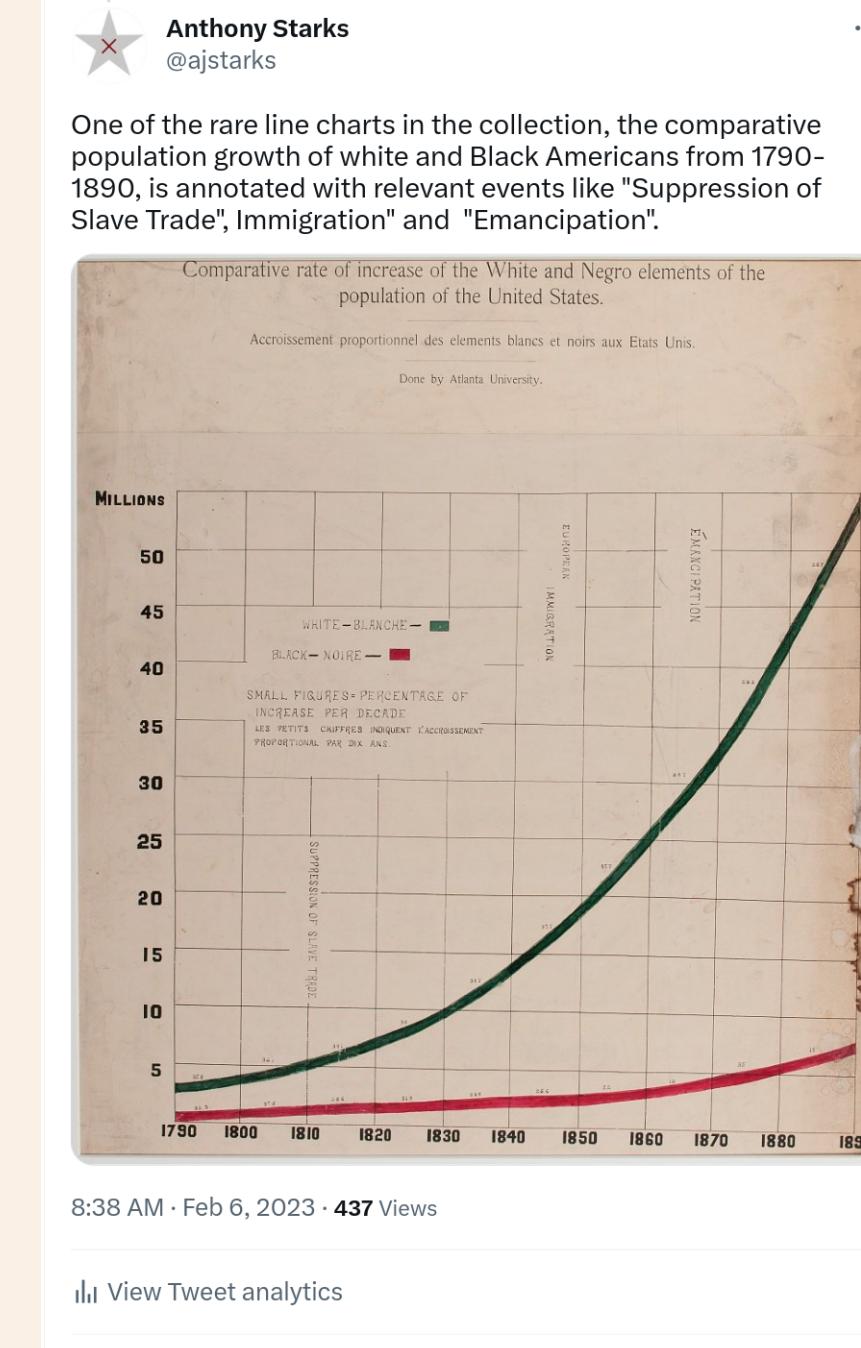
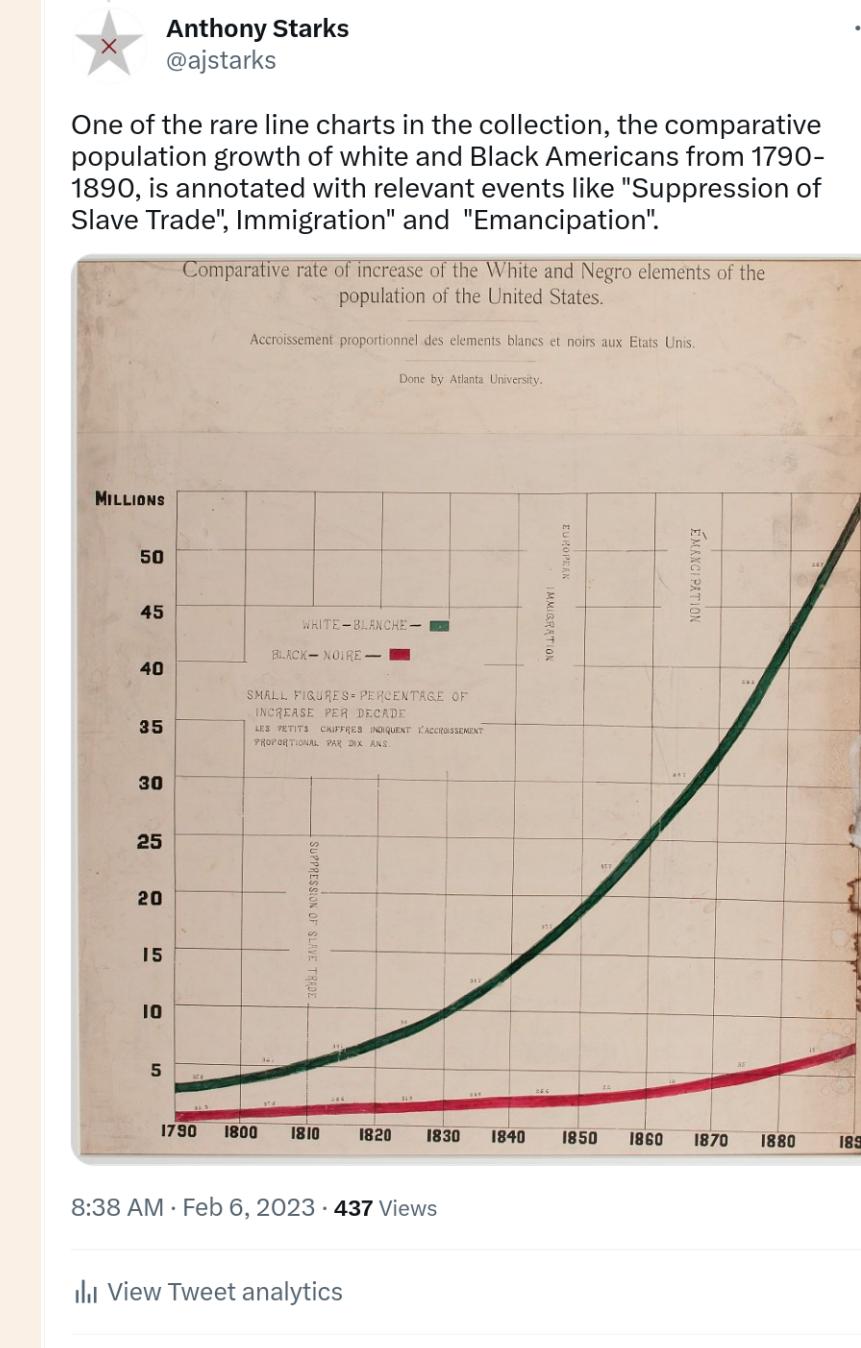
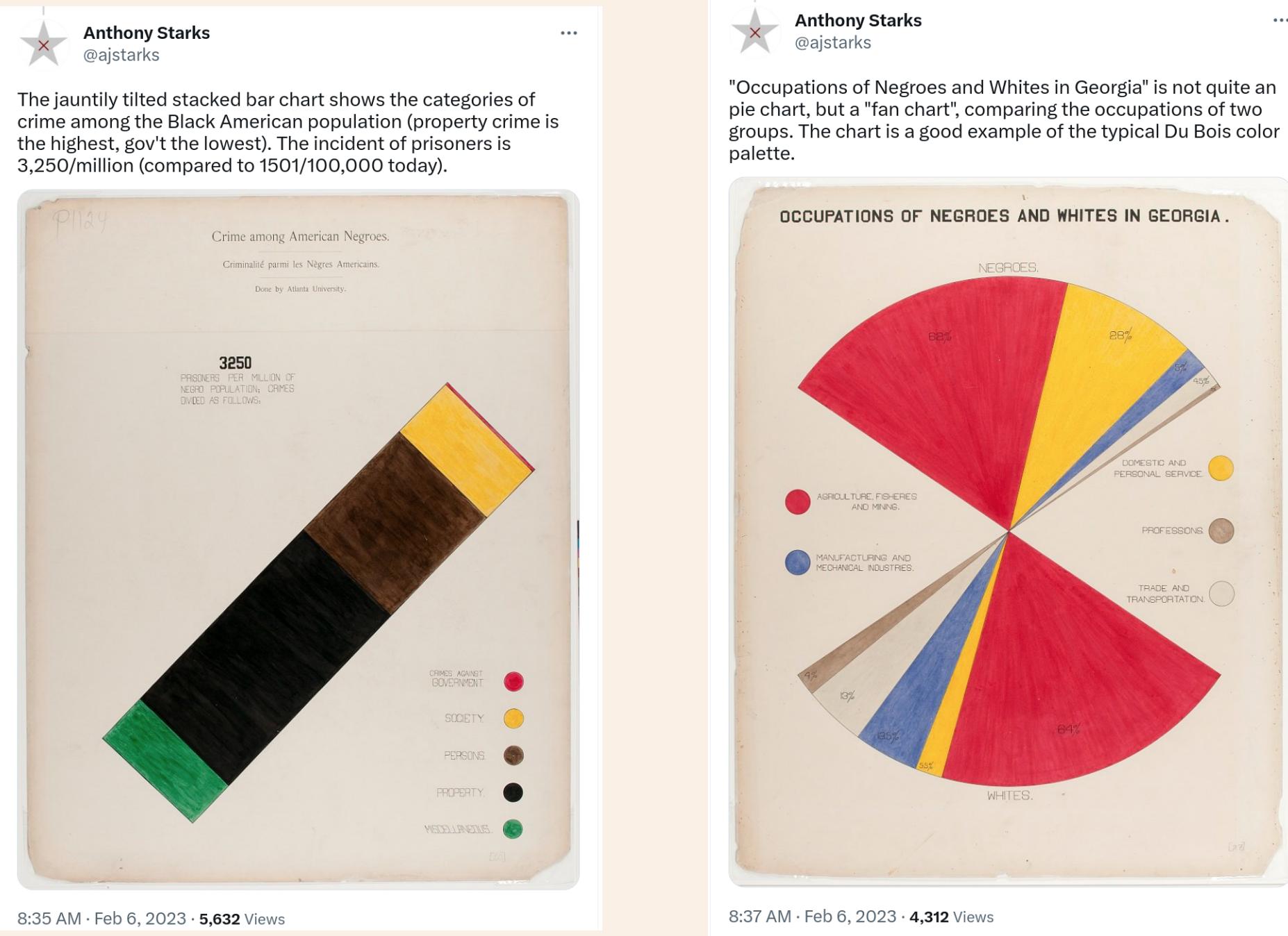
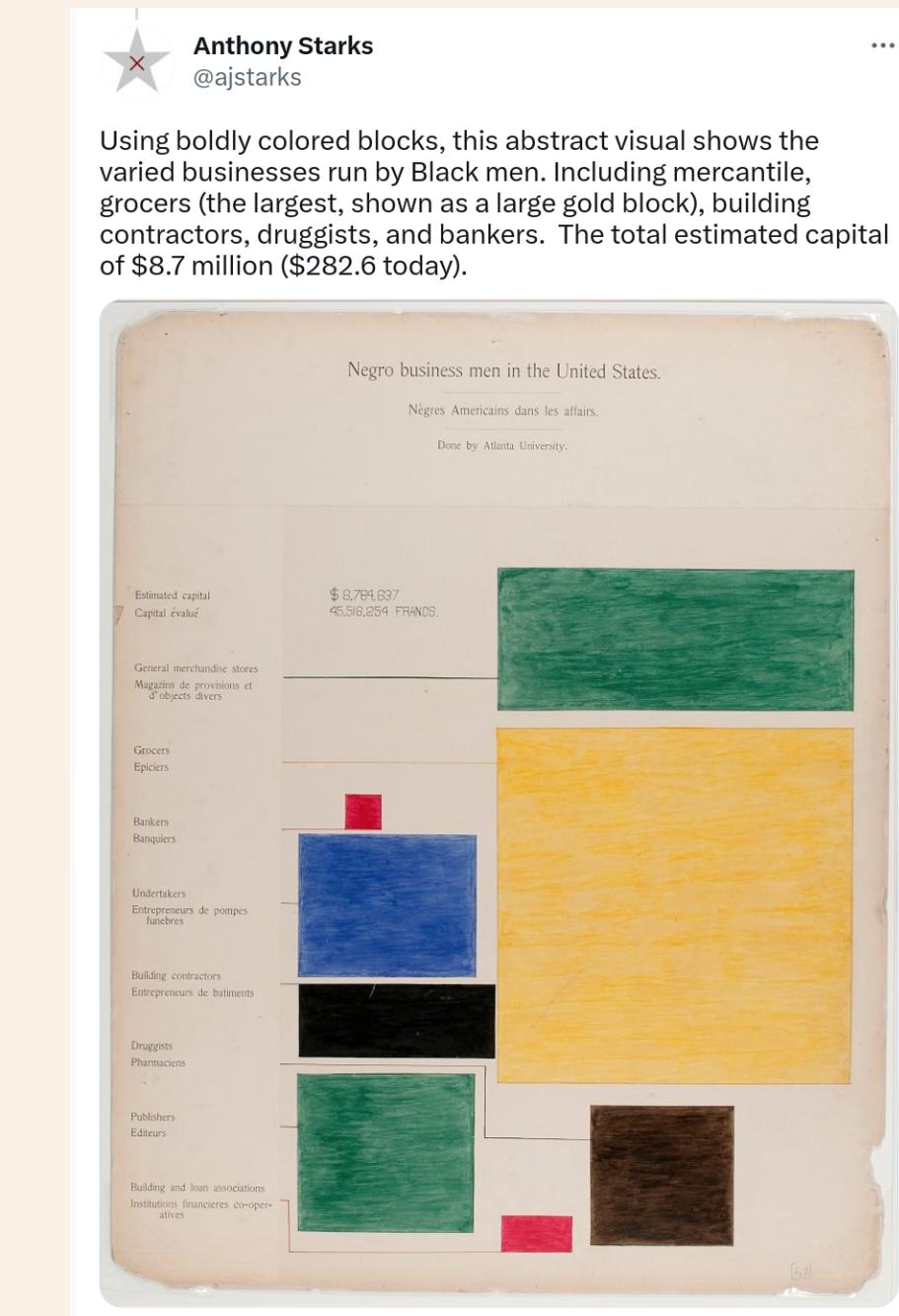
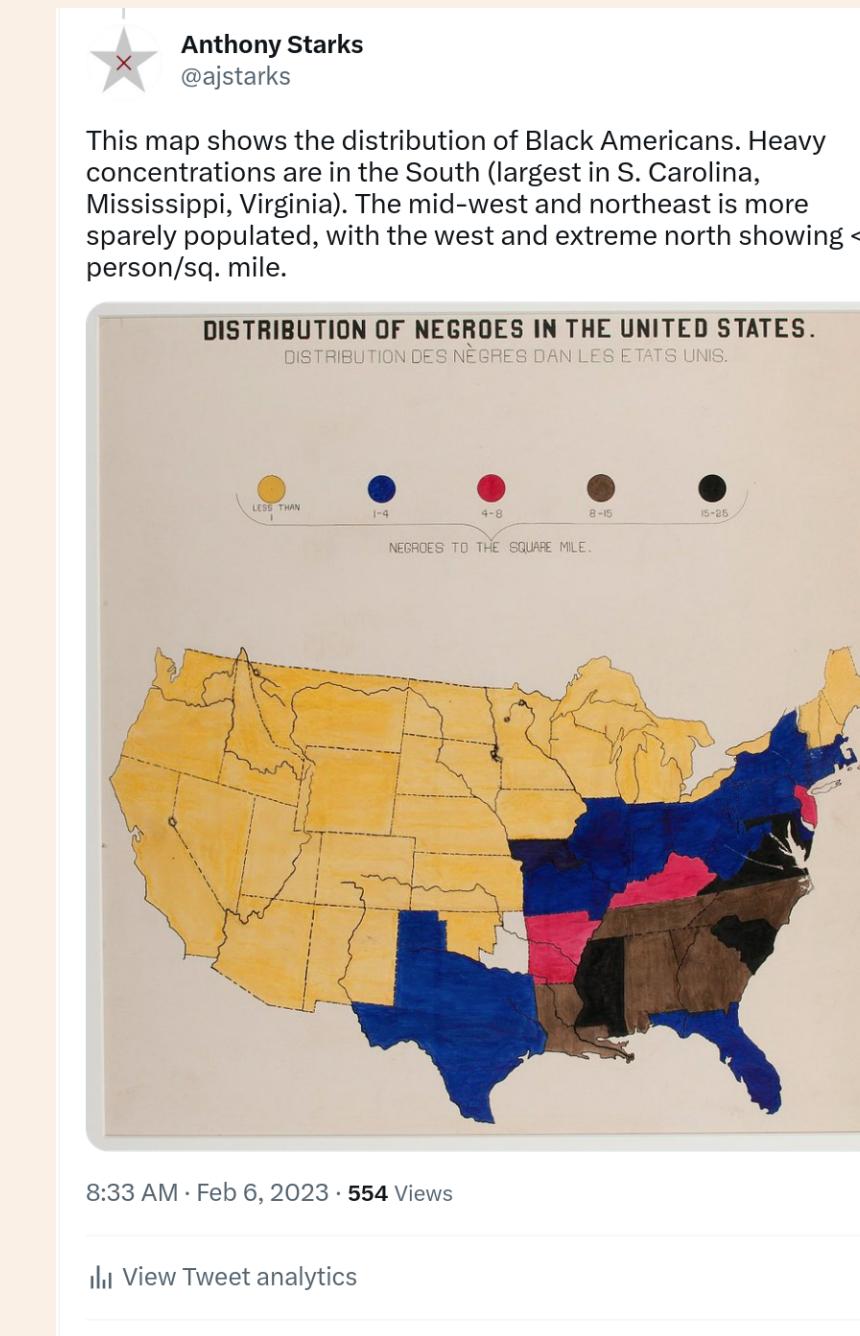
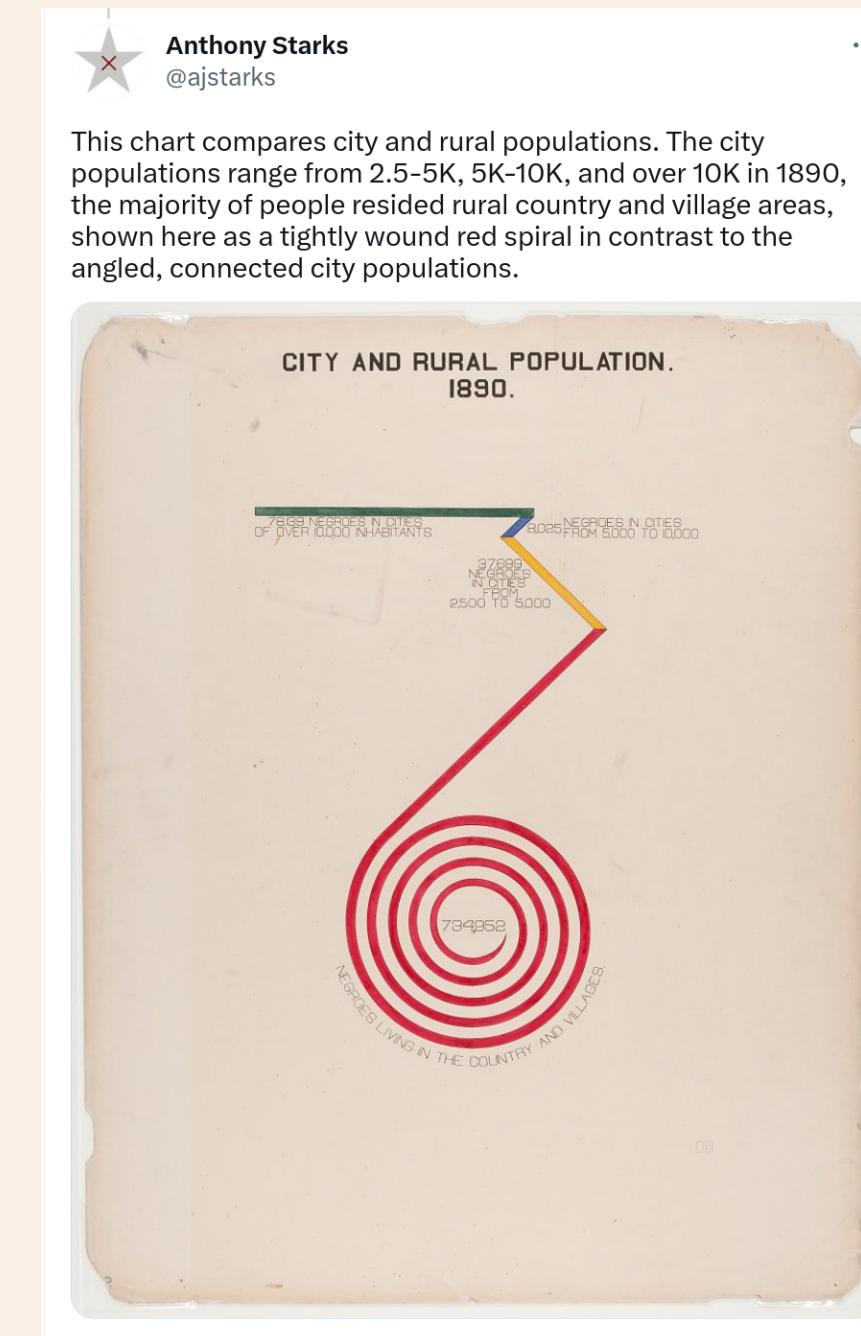
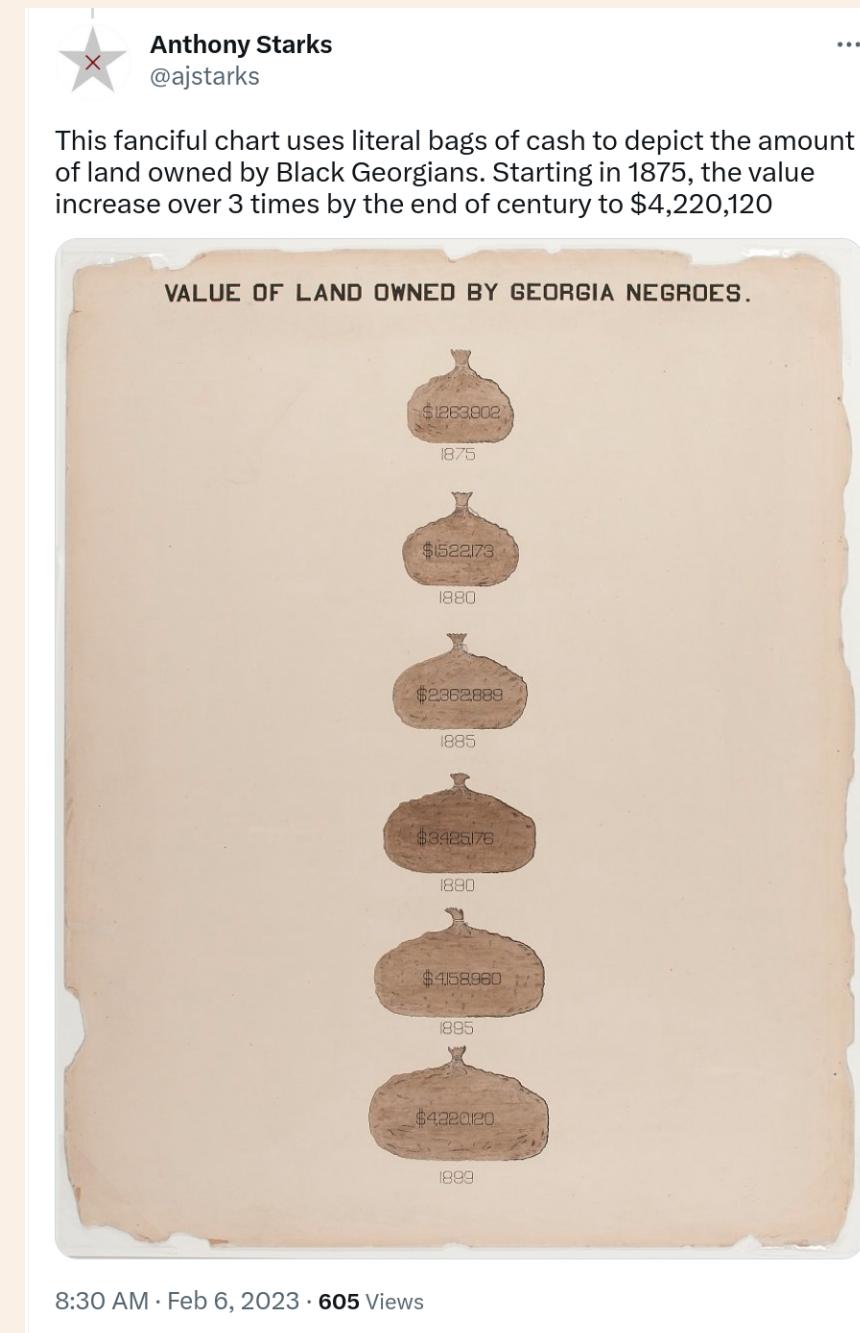
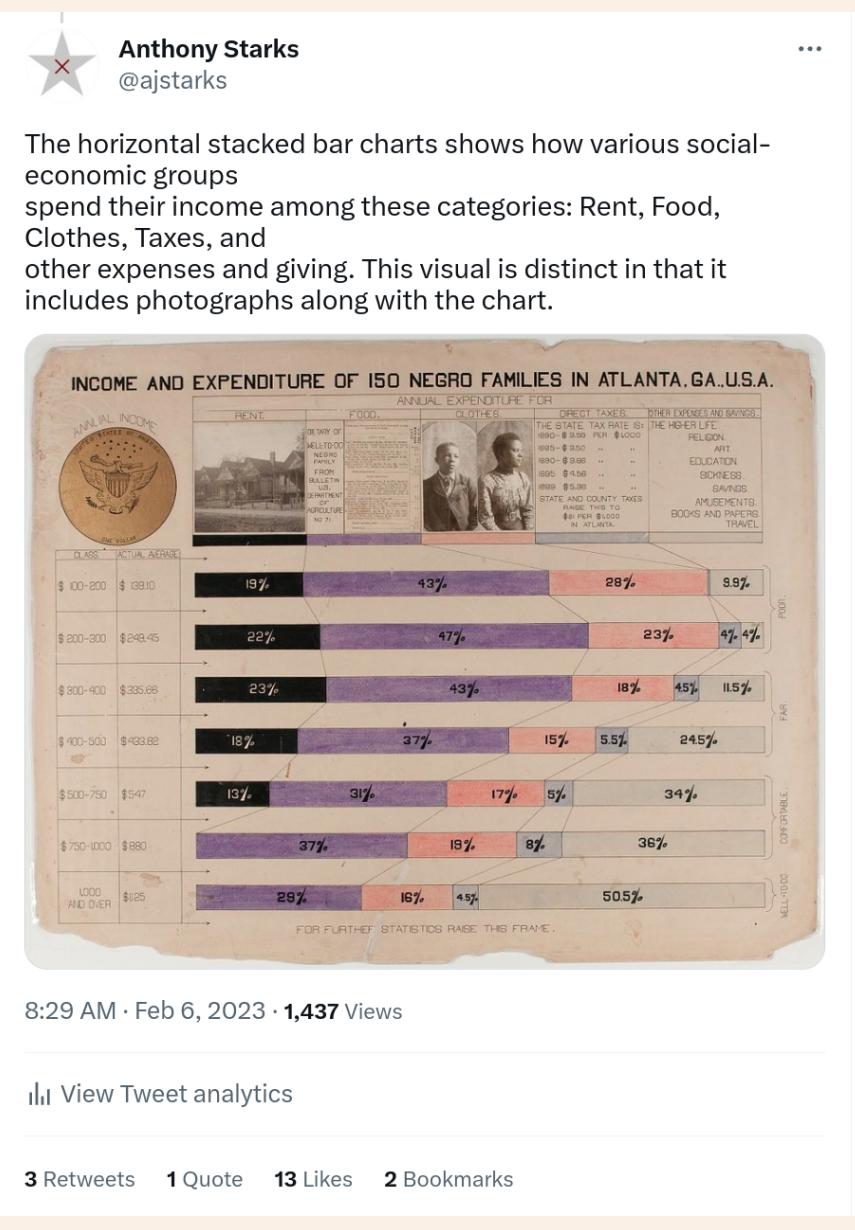
 Anthony Starks  
@ajstarks ...

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

#DuBoisChallenge2023

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

8:28 AM · Feb 6, 2023 · 35.7K Views



**Toochukwu Ifezie** [@TIfizeie37321](#)

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**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

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**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](#)

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

ANNUAL EXPENDITURE FOR TAX, RENT, OTHER, FOOD, CLOTHES

DATA: 1875, 1880, 1885, 1890, 1895

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

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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

ALT

9:47 AM · Feb 24, 2023 · 7,144 Views

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**Hemed** [@725Hemed](#)

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**DISTRIBUTION OF BLACK AMERICANS IN UNITED STATES**

RÉPARTITION DES NOIR-AMÉRICAINS AUX ÉTATS-UNIS

Black americans to square miles

Legend: Less than 1, 1-4, 4-8, 8-15, 15-25

ALT

11:29 AM · Feb 10, 2023 · 2,577 Views

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**Applied Data Science at UST** [@UST\\_MSDS](#)

#DuBoisChallenge2023 week 5 using ggplot. Code available at [github.com/follisj/DuBois..](https://github.com/follisj/DuBois..)

**Negro business men in the United States.**

Négrés Américains dans les affaires.

Done by Atlanta University.

DATA: 1870, 1880, 1890, 1900, 1910, 1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010

Estimated capital Capital évalué  
General merchandise stores Magasins de gros et divers objets divers  
Groceries Epicerie  
Banks Banques  
Undertakers Entrepreneurs de pompes funèbres  
Building contractors Entrepreneurs de bâtiments  
Druggists Pharmaciens  
Publishers Editeurs  
Banking and loan associations Institutions financières co-opératives

1:19 PM · Mar 5, 2023 · 3,645 Views

3 Retweets 1 Quote 14 Likes 3 Bookmarks

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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**

GADJE: 39%, 27%, 14%, 2%, 10%  
ROMA: 36%, 34%, 9%, 1%, 20%

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

ARNOLD PLATON [@Arnold\\_Platon](#)

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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

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BOTH SEXES HOMMES ET FEMMES MALES HOMMES FEMMES FEMMES FEMMES

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

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

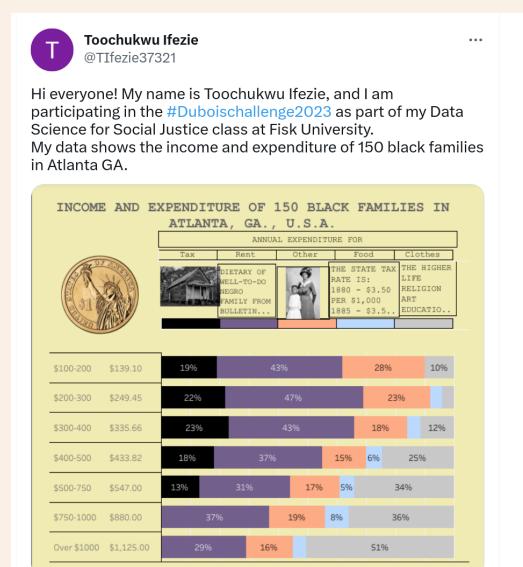
Patrick Stephenson [@stepminer2](#)

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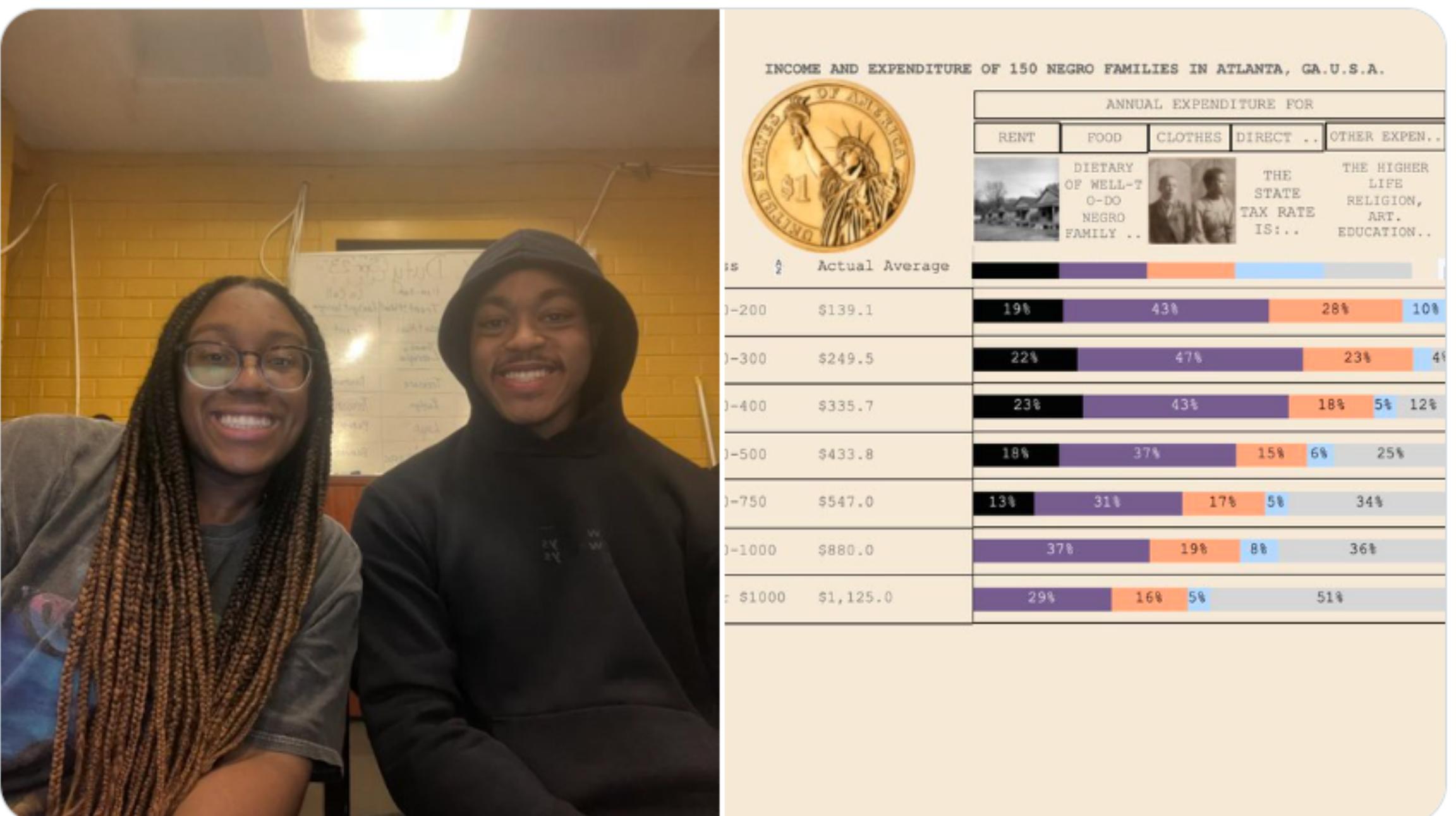
3 Retweets 11 Likes

# Fisk Students



Laila Eliotti  
@only1\_laila

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



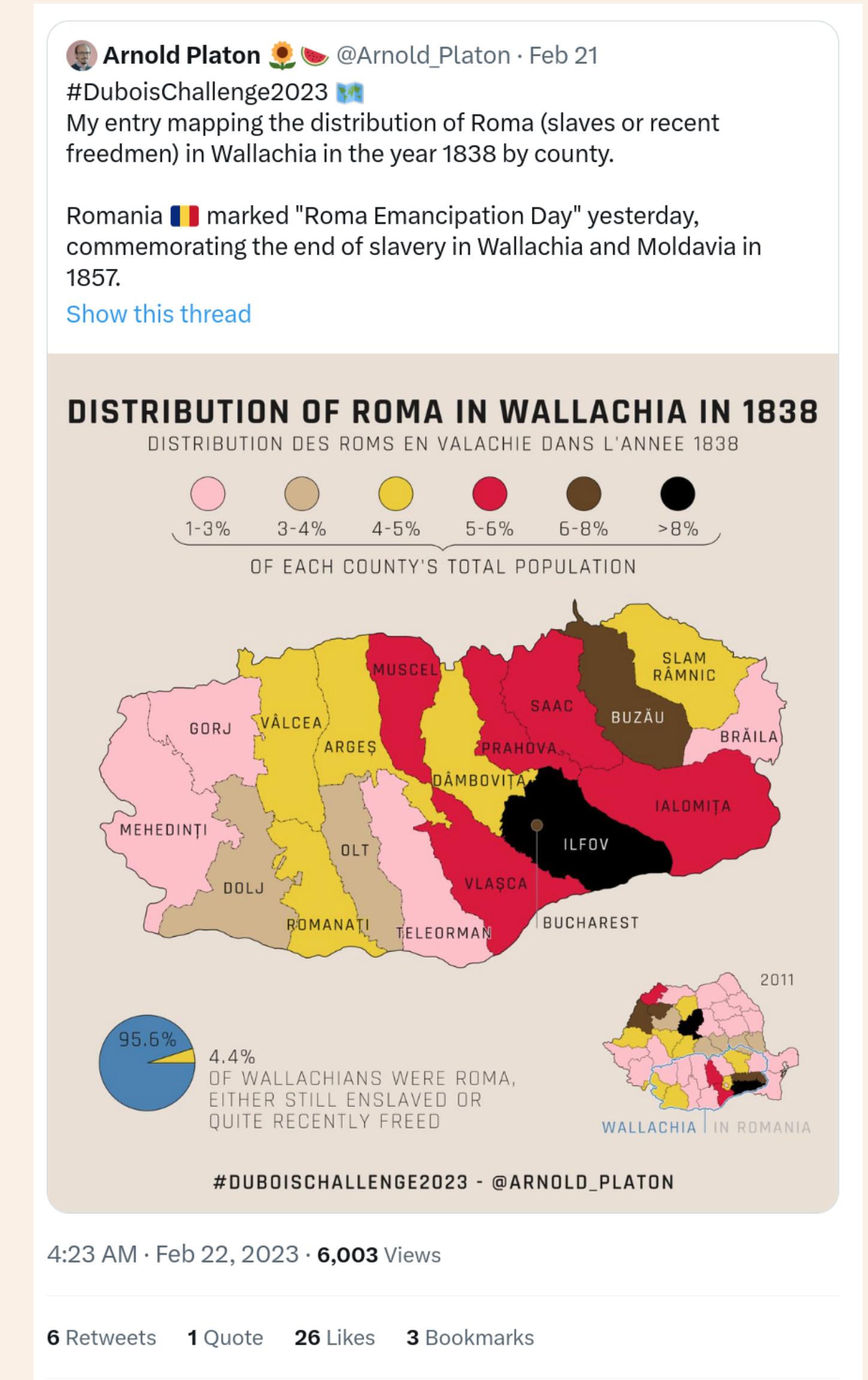
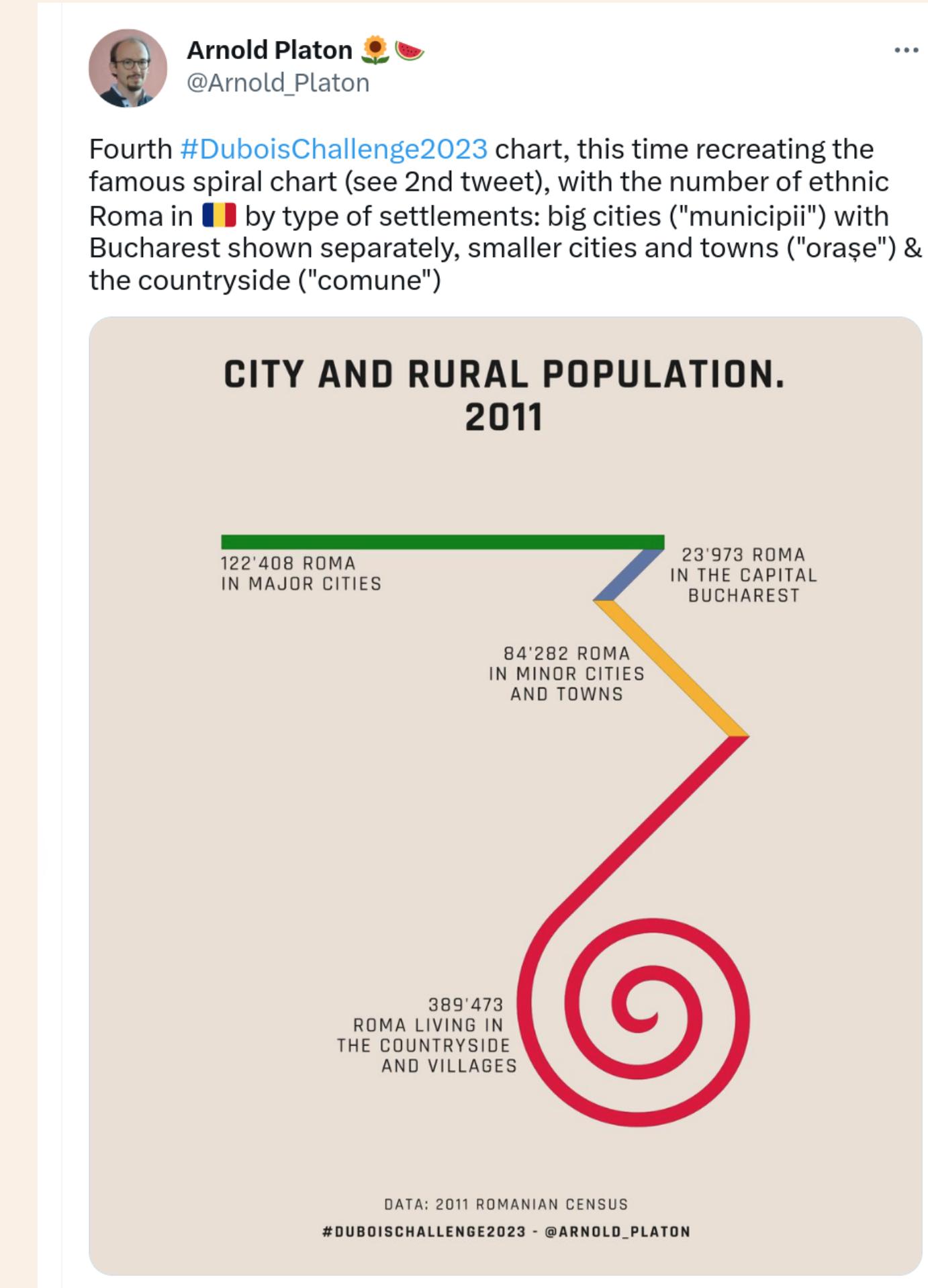
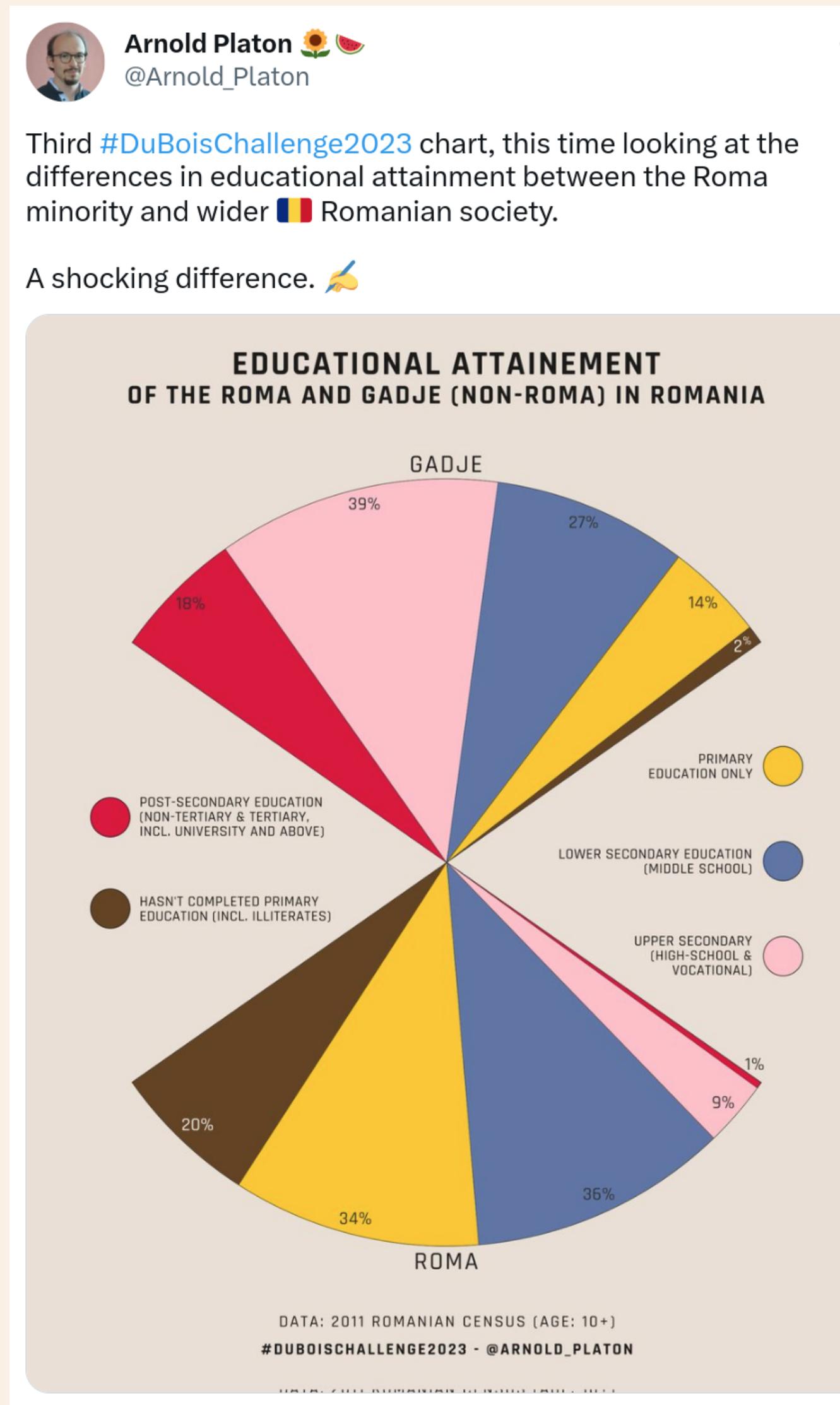
11:10 PM · Feb 15, 2023 · 1,905 Views

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 enrollments, while White students account for 29%. The distribution of fields is as follows:

Field	Black Enrollment (%)	White Enrollment (%)
LAW AND BUSINESS	~19%	~19%
EDUCATION AND OTHERS	~19%	~19%
ENGINEERING & PRODUCTION, COMPUTER AND NATURAL SCIENCES	~23%	~20%
ARTS, SOCIAL AND HUMAN SCIENCES	~7%	~9%
HEALTH AND WELLNESS	~25%	~20%

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, tilted bar chart with a textured surface. The top left corner displays the text "3664 PRISONERS PER MILLION OF BLACK POPULATION". The bottom right corner lists racial categories with corresponding colored circles: UNKNOWN (pink), ASIANS (yellow), WHITES (brown), BLACKS (black), and NATIVES (green).

ALT

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

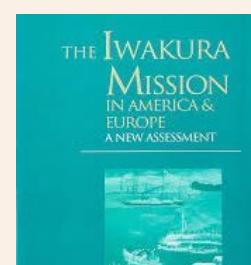
The graphic is a treemap visualization showing the 15 Rio Samba Schools that have won the main parade competition. The schools are represented by colored rectangles of varying sizes, with their names labeled next to them. The colors correspond to the schools listed on the right:

- 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)

15 SAMBA SCHOOLS WON THE MAIN PARADE COMPETITION IN RIO.

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

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 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 with their values: (1790, 3.1), (1800, 4.3), (1810, 5.8), (1820, 7.8), (1830, 10.4), (1840, 14.0), (1850, 19.0), (1860, 26.0), (1870, 35.7), (1880, 42.0), (1890, 54.4). The black line starts at 0.8 in 1790 and rises steadily to 8.4 in 1890.

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'. The segments are color-coded: red for Agriculture, Mining and Fishing; yellow for Professions; brown for Domestic and Personal Service; and green for Commerce and Transportation, Manufacturing and Mechanical Industries. The y-axis lists categories: AGRICULTURE MINING AND FISHING, PROFESSIONS, DOMESTIC AND PERSONAL SERVICE, and COMMERCE AND TRANSPORTATION MANUFACTURING AND MECHANICAL INDUSTRIES.

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 population density. The innermost ring is labeled '734,952' and 'LIVING IN THE COUNTRY AND VILLAGES'. The outer ring is labeled '78,139 LIVING IN CITIES OF OVER 10,000 INHABITANTS'. Two arrows point from the top right towards the center: one labeled '8,025 LIVING IN CITIES FROM 5,000 TO 10,000' and another labeled '37,699 LIVING IN CITIES FROM 2,500 TO 5,000'.

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](https://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

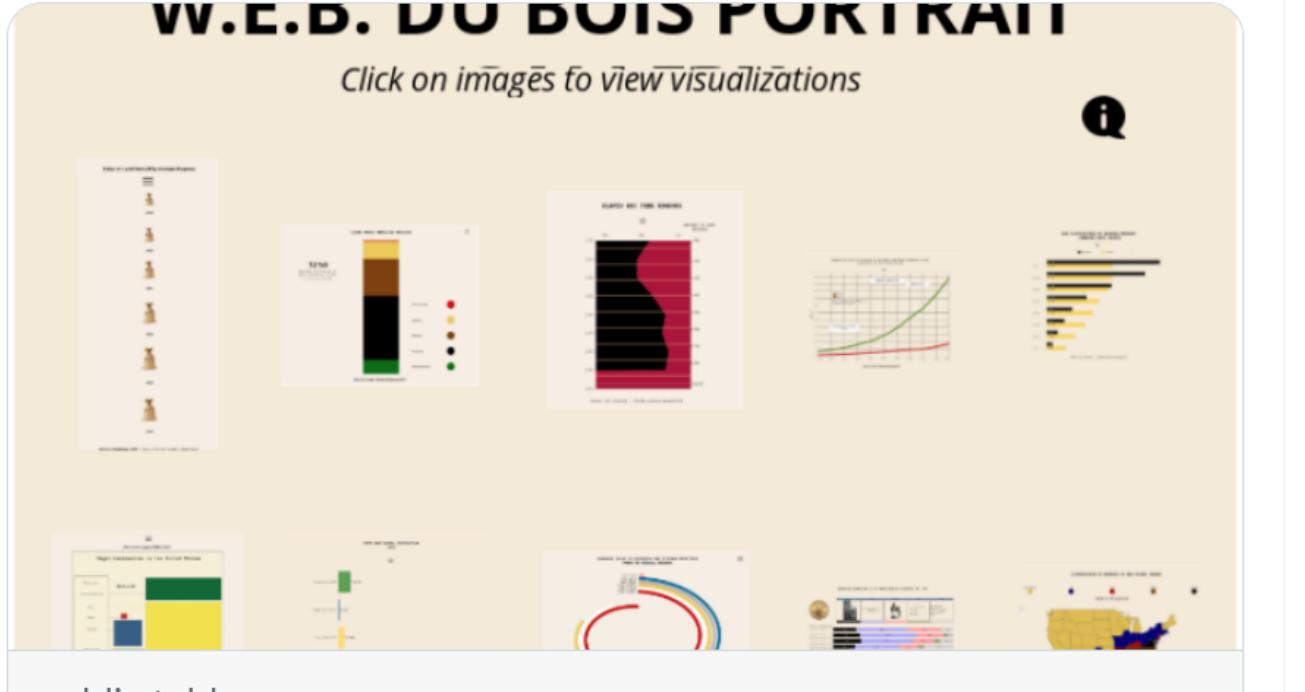
#DUBOISCHALLENGE2023 | DATA BY @AJSTARKS | DESIGN BY RAISA HANNUS

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 🌟

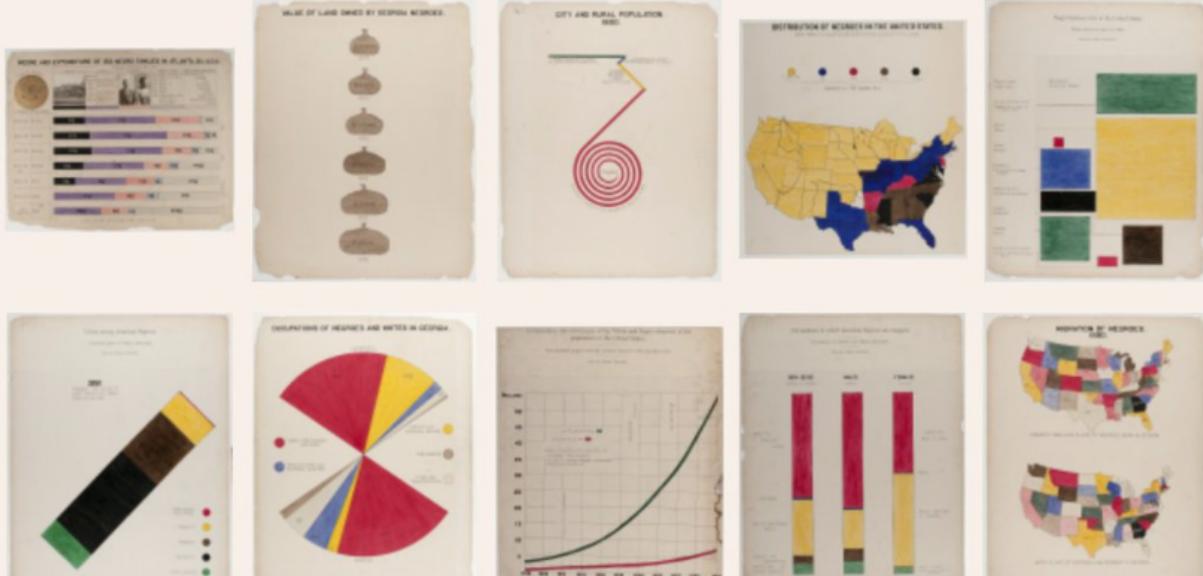
In honor of W.E.B Du Bois and Black History Month, I completed the entire 2023 #duboischallenge using @tableaupublic:  
[tabsoft.co/3y2J0o9](https://tabsoft.co/3y2J0o9)

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

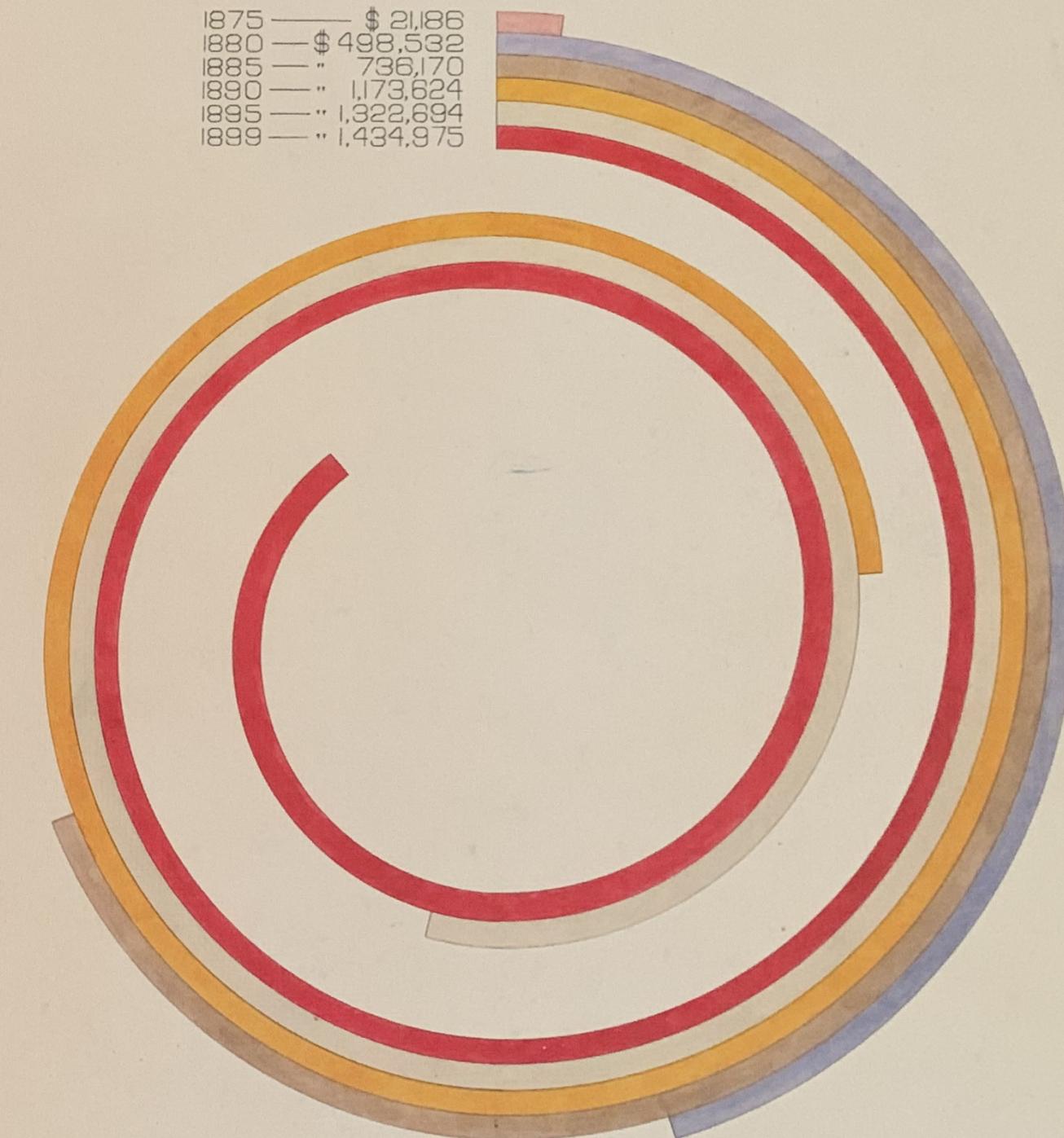
# Re-Creating the Du Bois Data Portraits



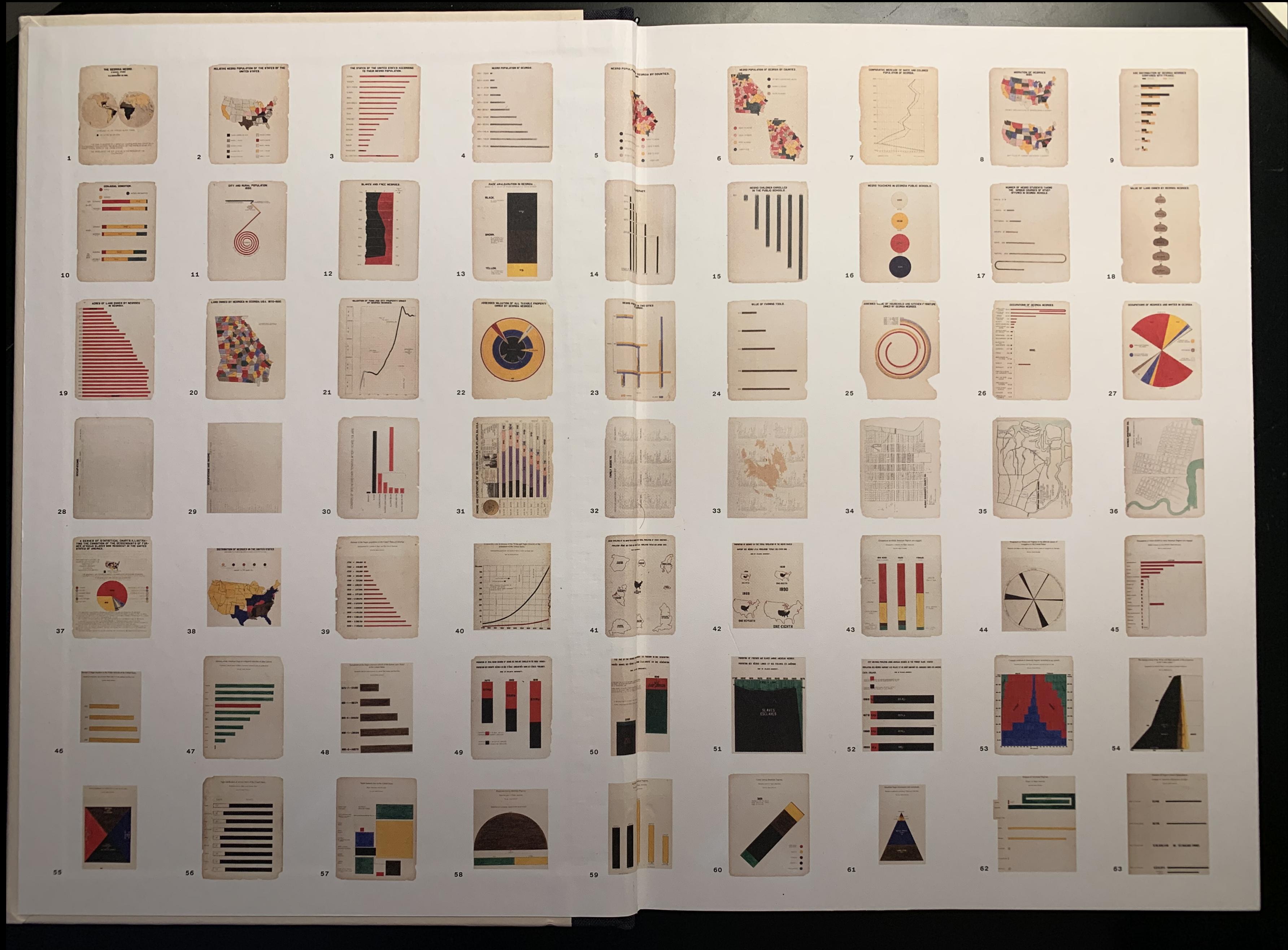
**W. E. B. Du Bois's Data Portraits**  
**Visualizing Black America**

THE COLOR LINE AT THE TURN OF THE TWENTIETH CENTURY

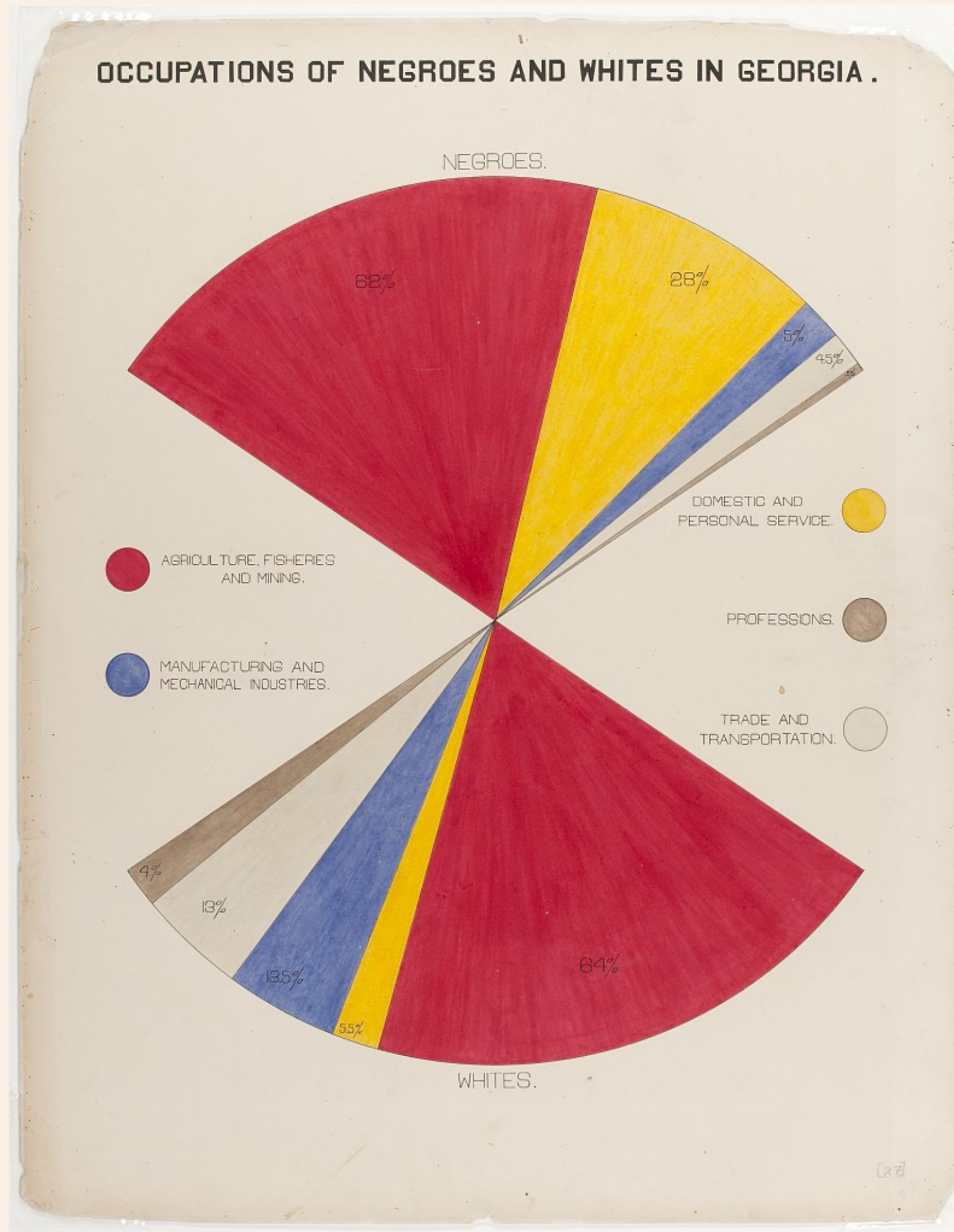
1875 —— \$ 21,86  
1880 —— \$ 498,582  
1885 —— " 786,170  
1890 —— " 1,173,624  
1895 —— " 1,322,894  
1899 —— " 1,434,975



WHITNEY BATTLE-BAPTISTE and BRITT RUSERT, editors

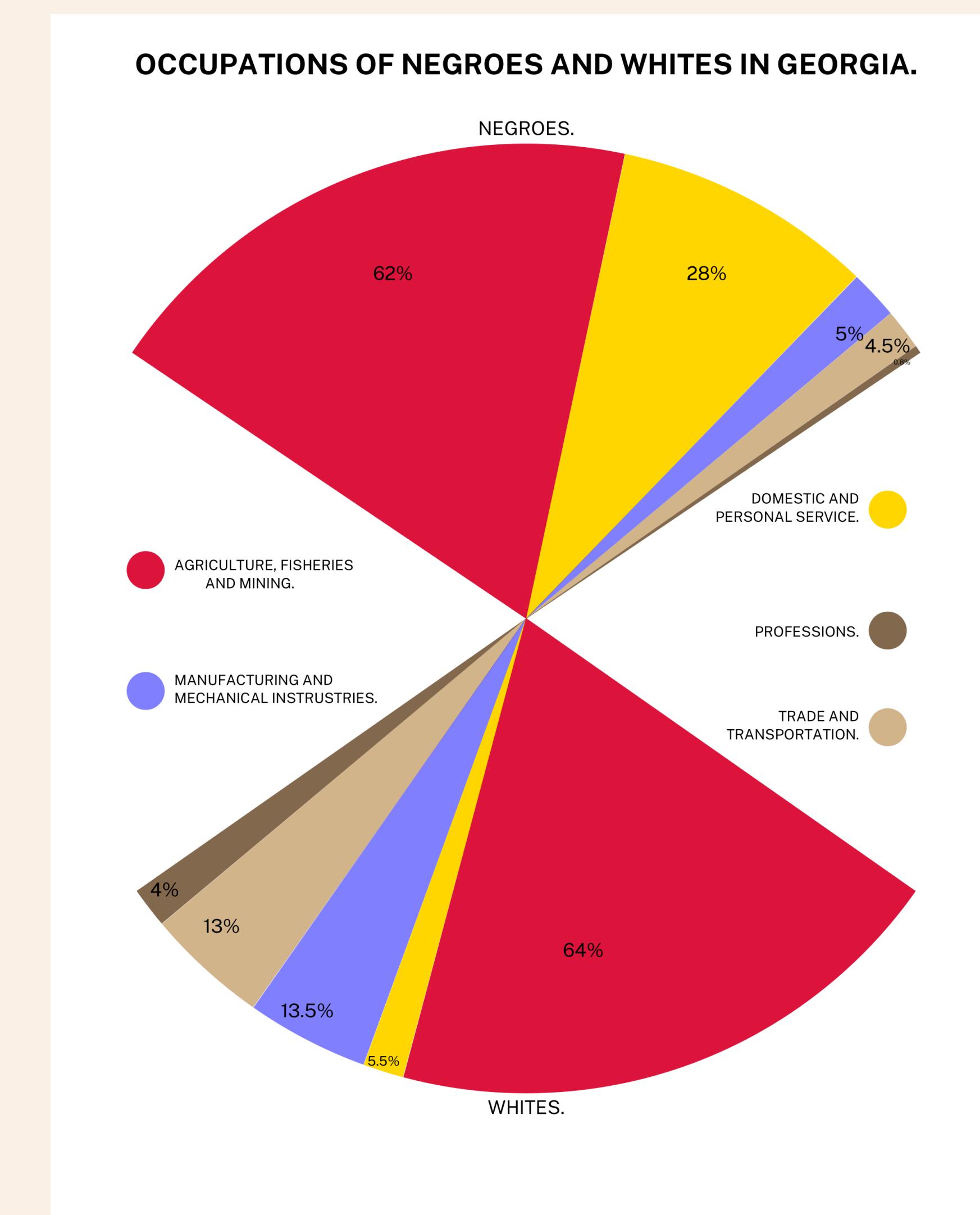


# Pen, Ink, Watercolor, Paper, Expos

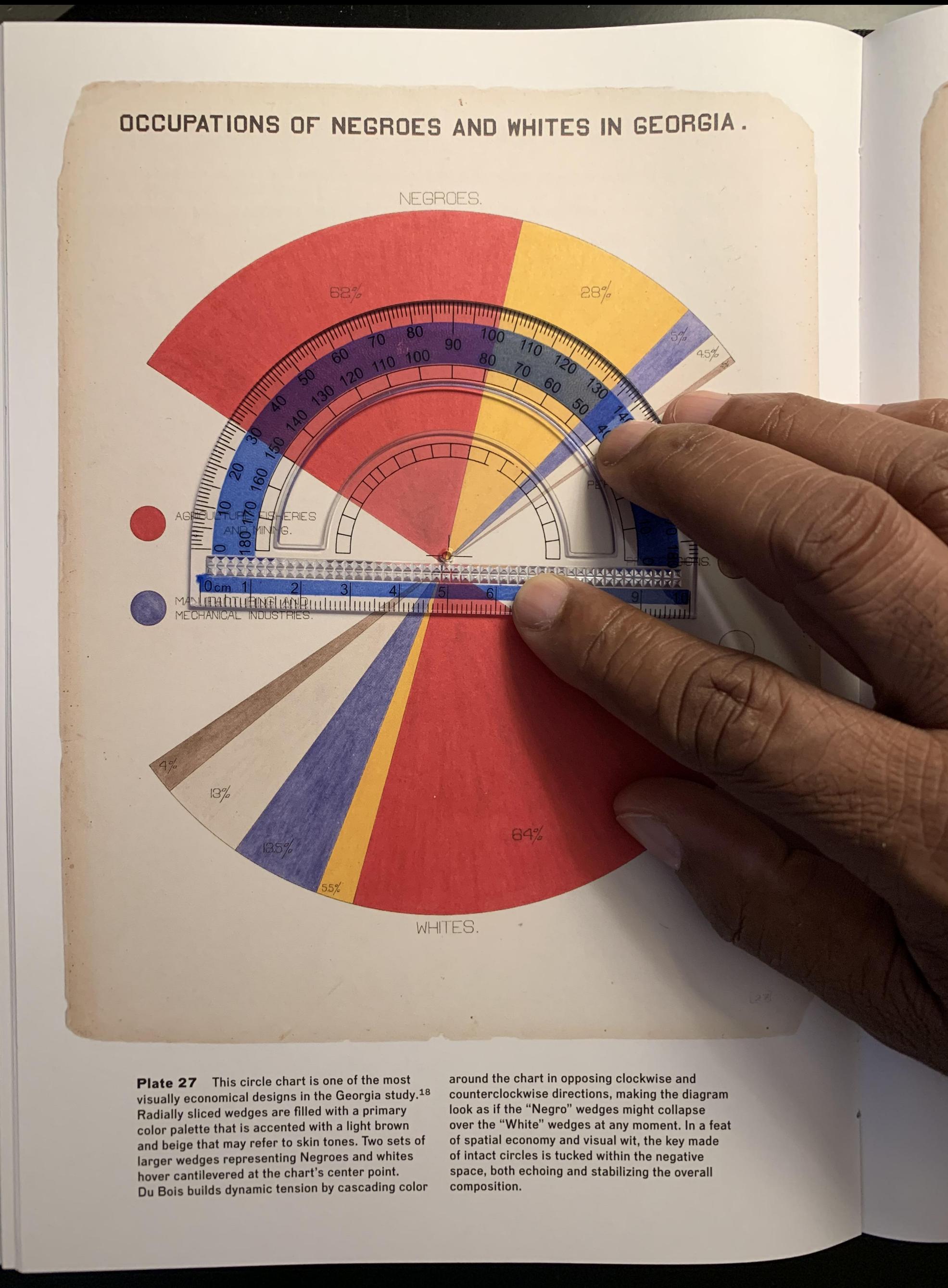
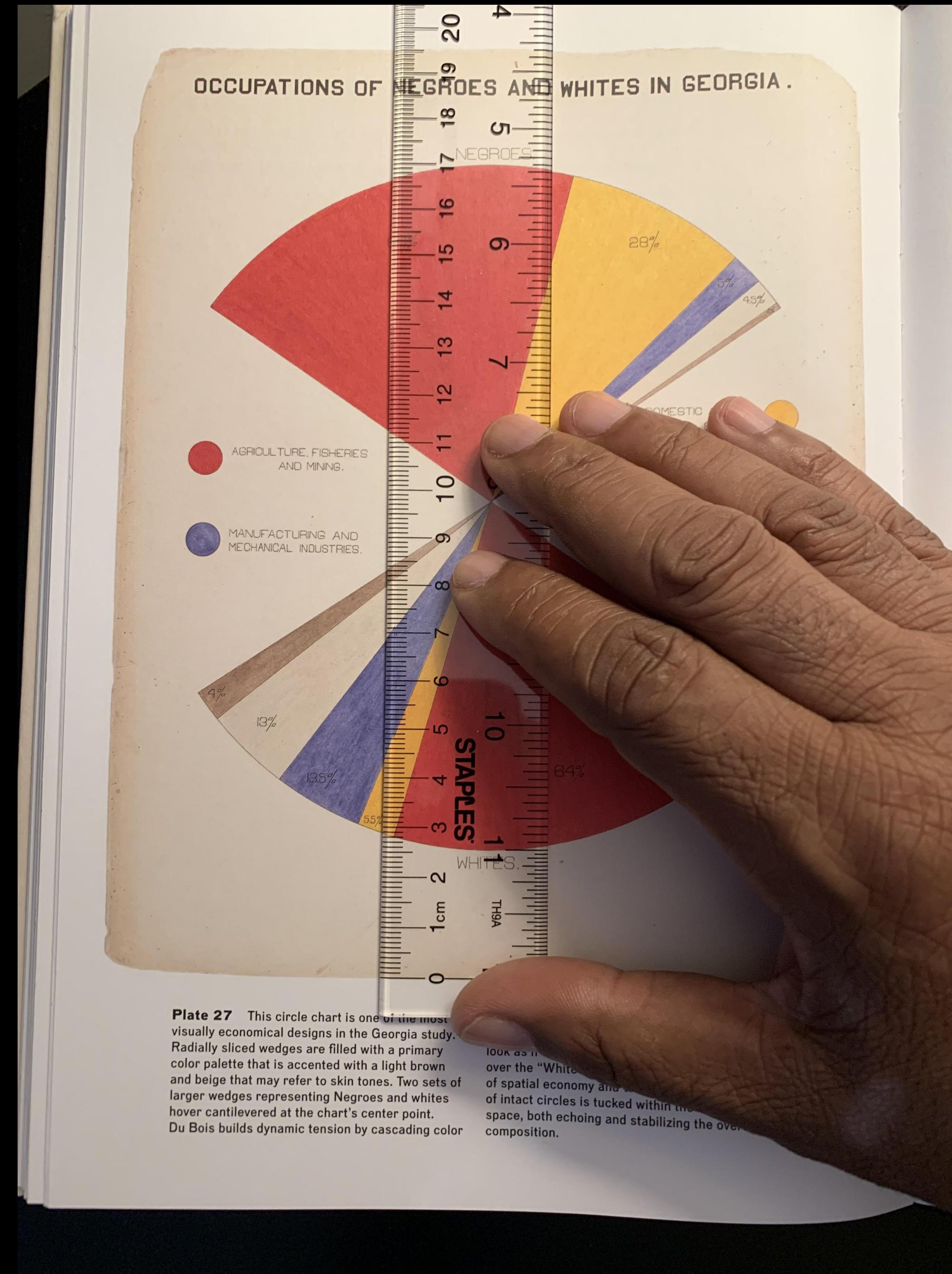


1900

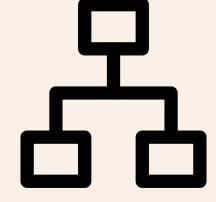
# Scripting, Digital Fonts, PDF, Internet



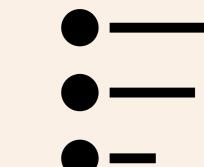
Today



# decksh

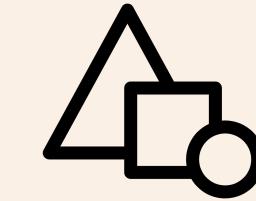
 Structure

 Text

 Lists

 Arrows

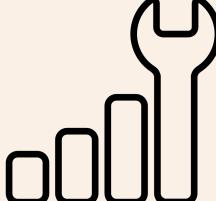
 Images

 Graphics

 Charts

 Loops

 Data

 Utility

# Percent Grid

90

80

70

60

50

40

30

20

10

10

20

30

40

50

60

70

80

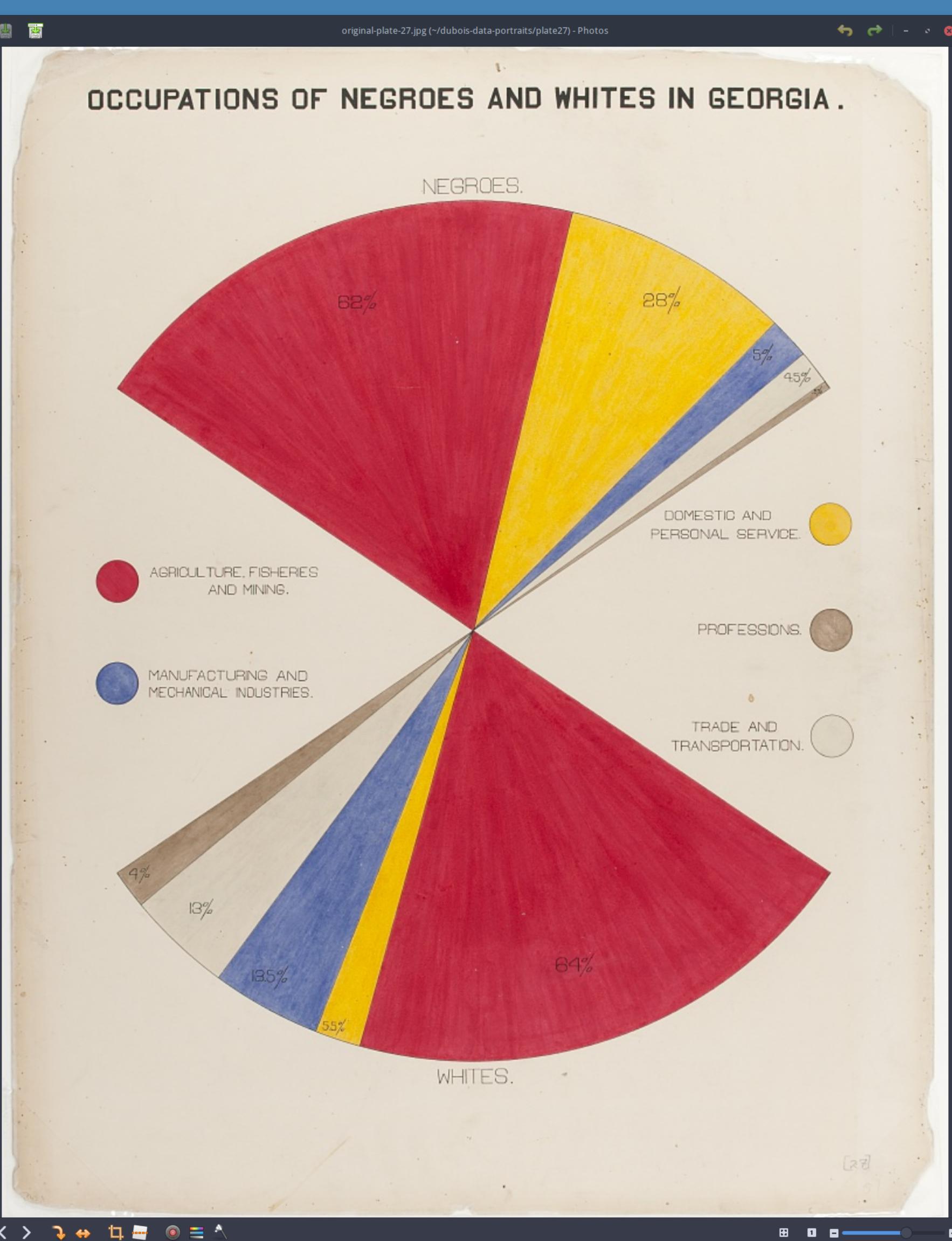
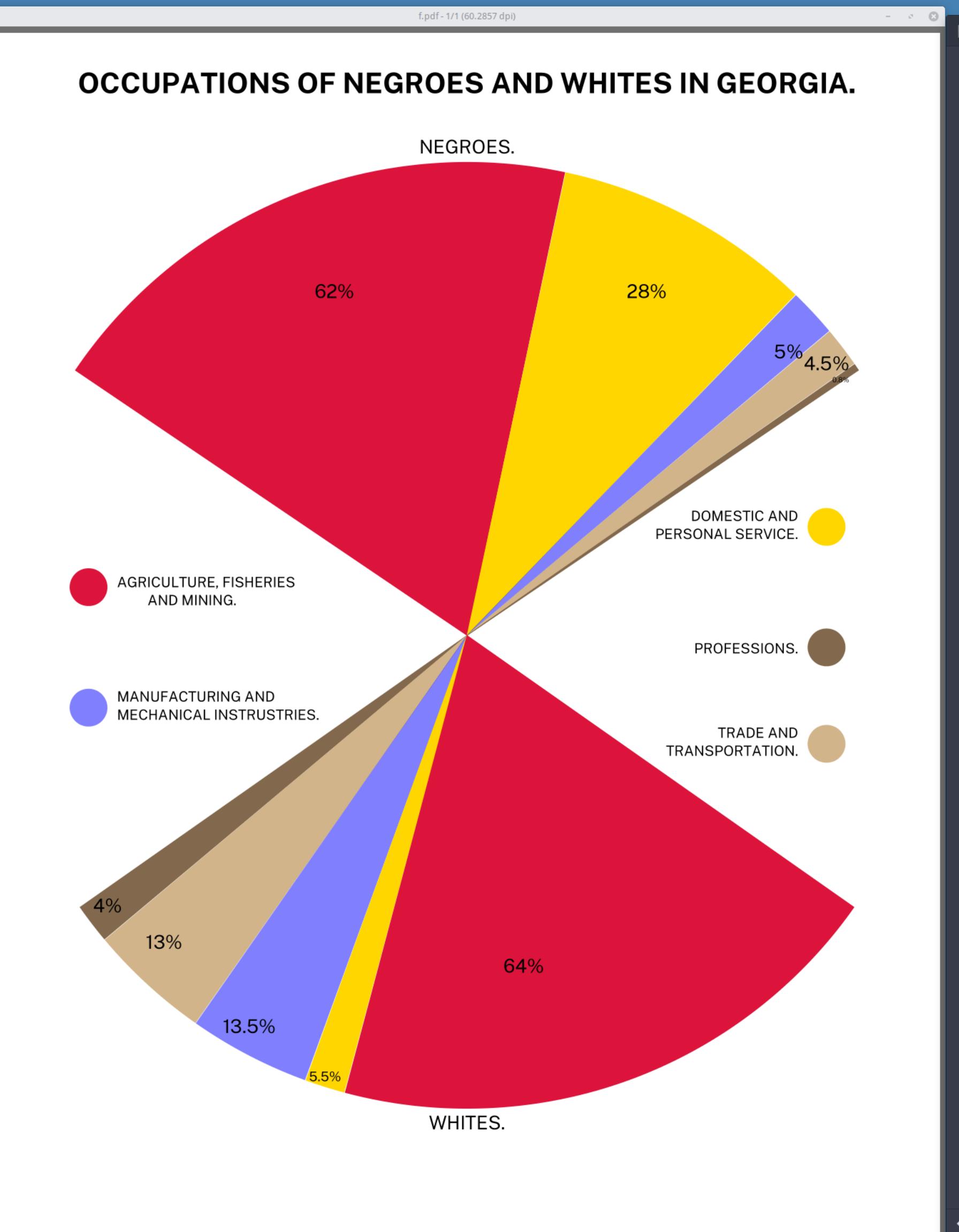
90

# Code

# Output

# Reference

```
occupation.dsh - Visual Studio Code
File Edit Selection View Go Run Terminal Help
deck
slide
    asize=50
    mx=50
    my=50
    subsize=2
    ctext "OCCUPATIONS OF NEGROES AND WHITES IN GEORGIA." 50 95 3 "serif"
    ctext "NEGROES." 50 90 subsize
    ctext "WHITES." 50 9 subsize
// Negroes
arc mx my asize asize 78 146 asize "crimson"
arc mx my asize asize 46 78 asize "gold"
arc mx my asize asize 40 46 asize "blue" 50
arc mx my asize asize 35 40 asize "tan"
arc mx my asize asize 34 35 asize "rgb(101,67,33)" 80
// Whites
arc mx my asize asize 215 220 asize "rgb(101,67,33)" 80
arc mx my asize asize 220 235 asize "tan"
arc mx my asize asize 235 250 asize "blue" 50
arc mx my asize asize 250 255 asize "gold"
arc mx my asize asize 255 325 asize "crimson"
// Legends
cx1=10
cx2=88
cr=4
legsize=1.5
circle cx1 54 cr "crimson"
circle cx1 44 cr "blue" 50
cx1+=3
text "AGRICULTURE, FISHERIES" cx1 54 legsize
text "AND MINING." cx1 52.5 legsize
text "MANUFACTURING AND" cx1 44.5 legsize
text "MECHANICAL INSTRUSTRIES." cx1 43 legsize
circle cx2 59 cr "gold"
circle cx2 49 cr "rgb(101,67,33)" 80
circle cx2 41 cr "tan"
cx2-=3
etext " DOMESTIC AND" cx2 59.5 legsize
etext "PERSONAL SERVICE." cx2 58 legsize
etext "PROFESSIONS." cx2 48.5 legsize
etext " TRADE AND" cx2 41.5 legsize
etext "TRANSPORTATION." cx2 40 legsize
ctext "62%" 36 78 subsize
ctext "28%" 69 78 subsize
ctext "5%" 84 73 subsize
ctext "4.5%" 88 72 subsize
ctext "0.8%" 89.5 71 0.75
ctext "64%" 56 22 subsize
ctext "5.5%" 35 13 1.4
ctext "13.5%" 27 17 subsize
ctext "13%" 18 24 subsize
ctext "4%" 12 27 subsize
eslide
edeck
```



# Code Management and Automation

## Directory

```
dubois-data-stories  
  data-portraits.pdf  
  mkdeck-all  
  
plate01  
  f.pdf  
  f1.png  
  original-plate01.jpg  
  georgia-negro.dsh  
  mkdeck  
  mkdeck-png  
  
...  
  
plate02  
  data.csv  
  
...  
  
plate63
```

## Scripting

```
./mkdeck      # make the page  
./mkdeck-png # make image  
./mkdeck-all # make all pages
```

## Source Control

```
git add ...  
git commit -m 'Add plate 23'  
git push origin master
```

# Publishing

Edit Recreating the DuBois Data Portraits

SD Speaker Deck Upgrade to PRO Featured decks Featured speakers Upload a deck Search...

## Edit a deck

Drag and drop a PDF of your deck here, or [browse and select](#).

Name: Recreating the DuBois Data Portraits

Description: The process, tools, and results of recreating the DuBois Data Portraits

Who can see this deck?

- Only myself
- Only those with the private URL
- Only those with the password
- Anyone at a future date
- Anyone now

Publish Date: Apr 29, 2022

Category: Design

Language: No Selection

Formatting tips: URLs are autolinked. Some HTML tags are allowed: <a>, <strong>, <em>, etc.

Custom URL: [Upgrade](#) recreating-the-dubois-data-portraits

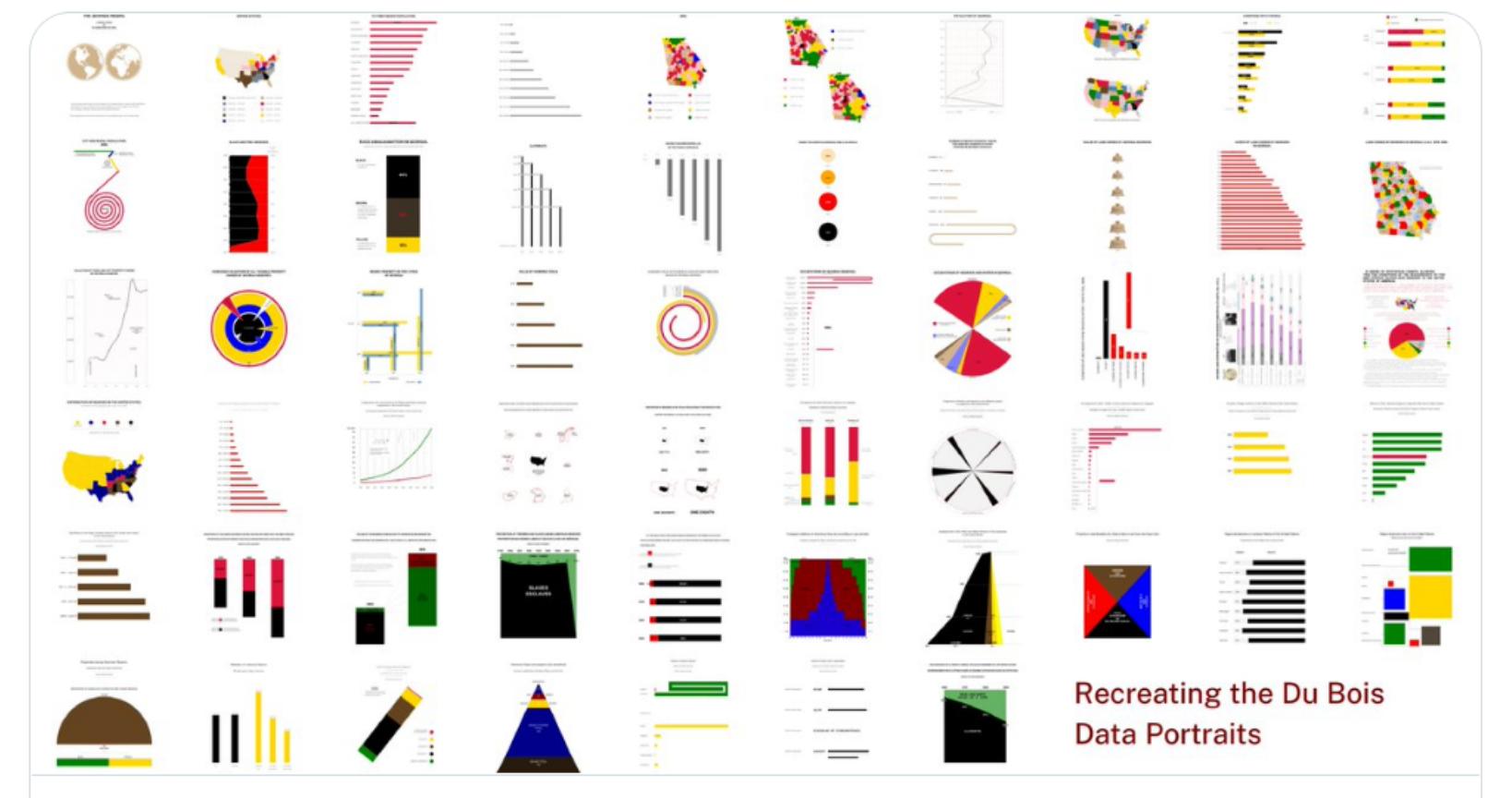
To customize your presentation URL, upgrade to PRO.

Save this deck Delete



Anthony Starks @ajstarks

I really enjoyed speaking about re-creating the Du Bois data portraits for #BlackinData Here is my deck:



speakerdeck.com  
Recreating the DuBois Data Portraits  
The process, tools, and results of recreating the DuBois Data Portraits

10:45 AM · Nov 17, 2021 · Twitter Web App

View Tweet analytics

18 Retweets 7 Quote Tweets 71 Likes

Comment Reply Like Share

# 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

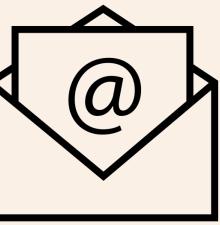
<https://speakerdeck.com/ajstarks/du-bois-visualizations-originals>

Style Guide

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

# Anthony J. Starks

## Art + Code



[info@ajstarks.org](mailto:info@ajstarks.org)



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



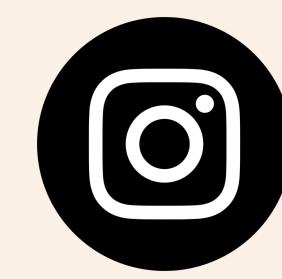
[github.com/ajstarks](https://github.com/ajstarks)



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



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



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