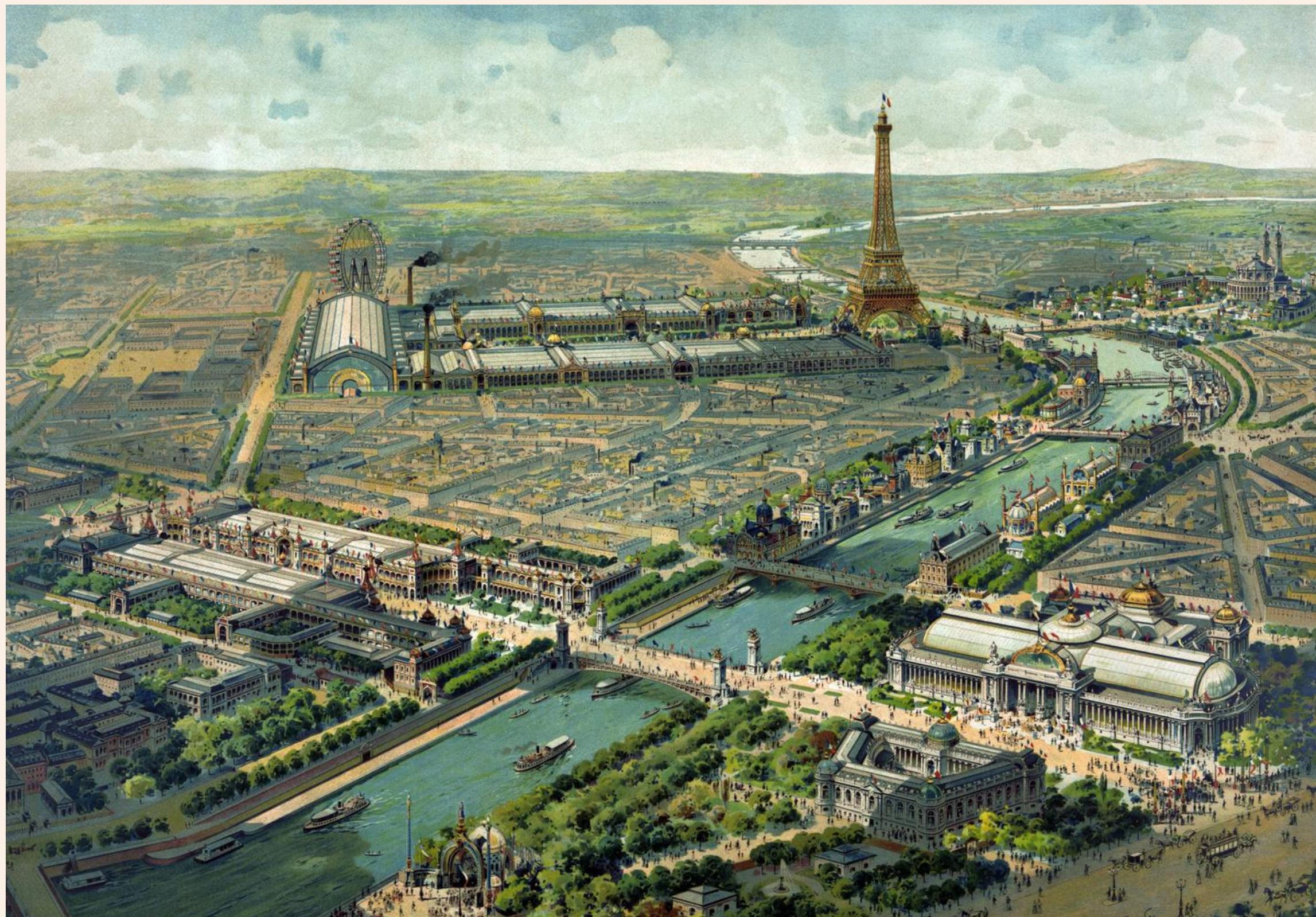
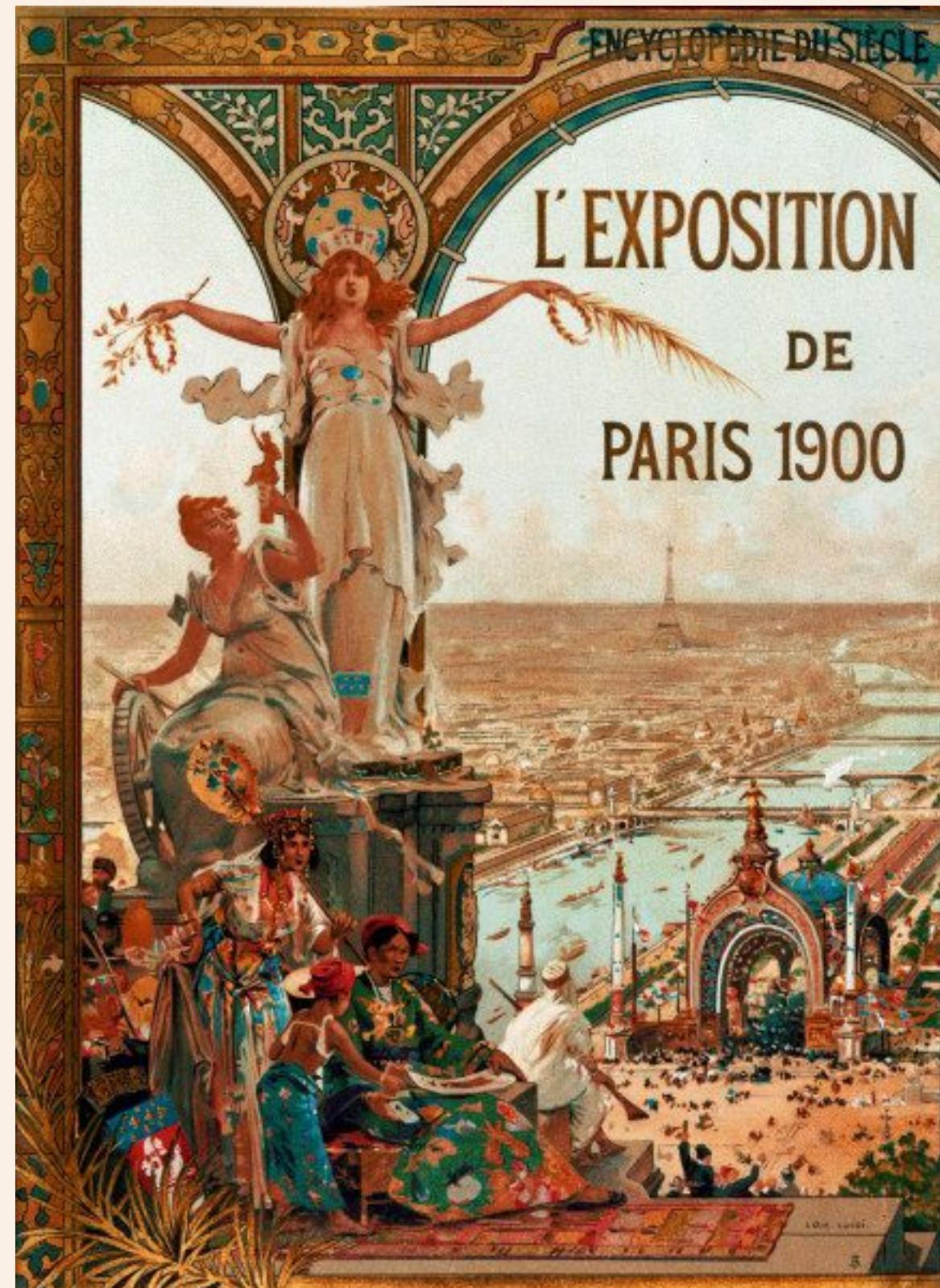


# Curating The #DuBoisChallenge2022

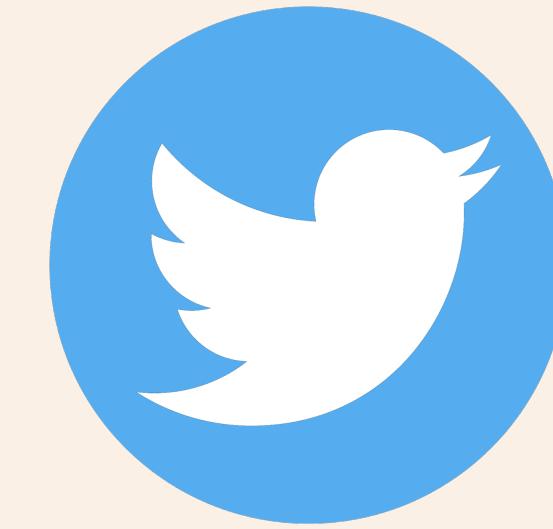
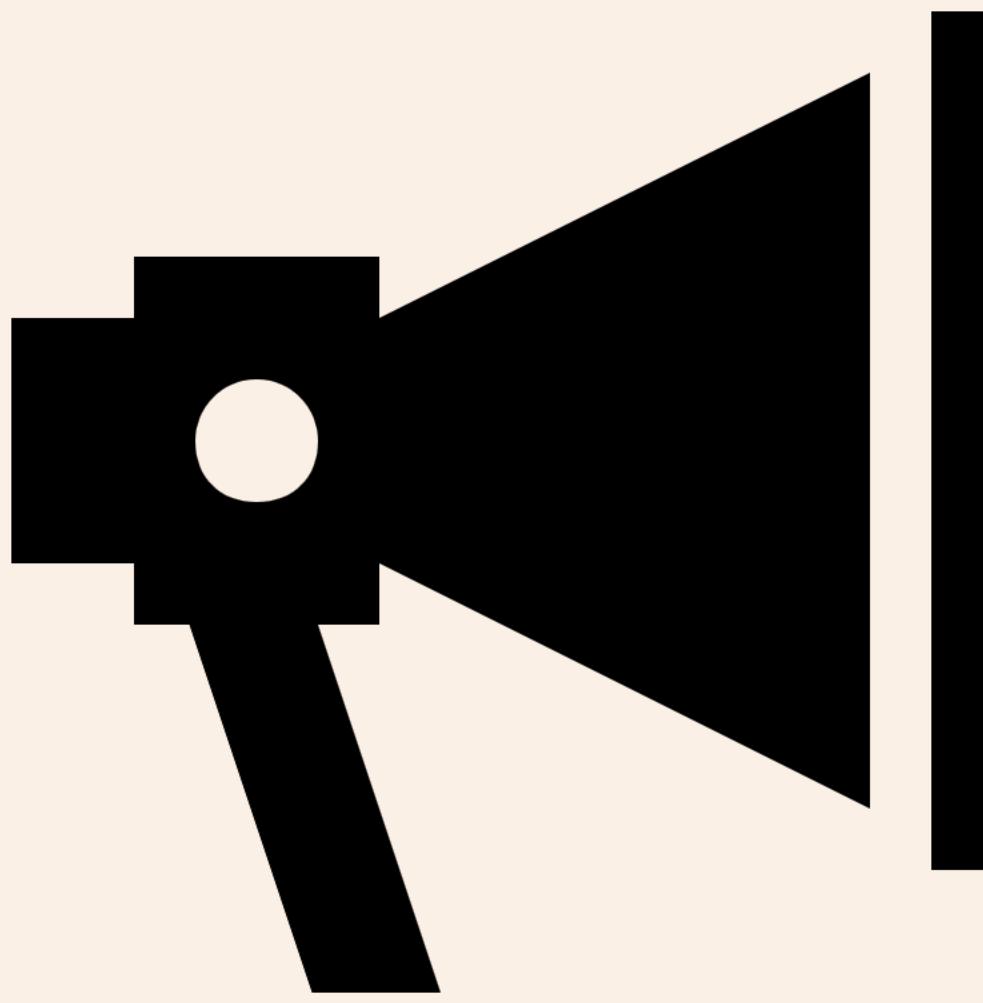
Anthony Starks

# Paris 1900



# Now: Modern Megaphone

Your Message



You Tube



zoom

# In 1900, it began with them



*Thomas J. Calloway*



*Du Bois in Paris*

# In 2021, it began with them



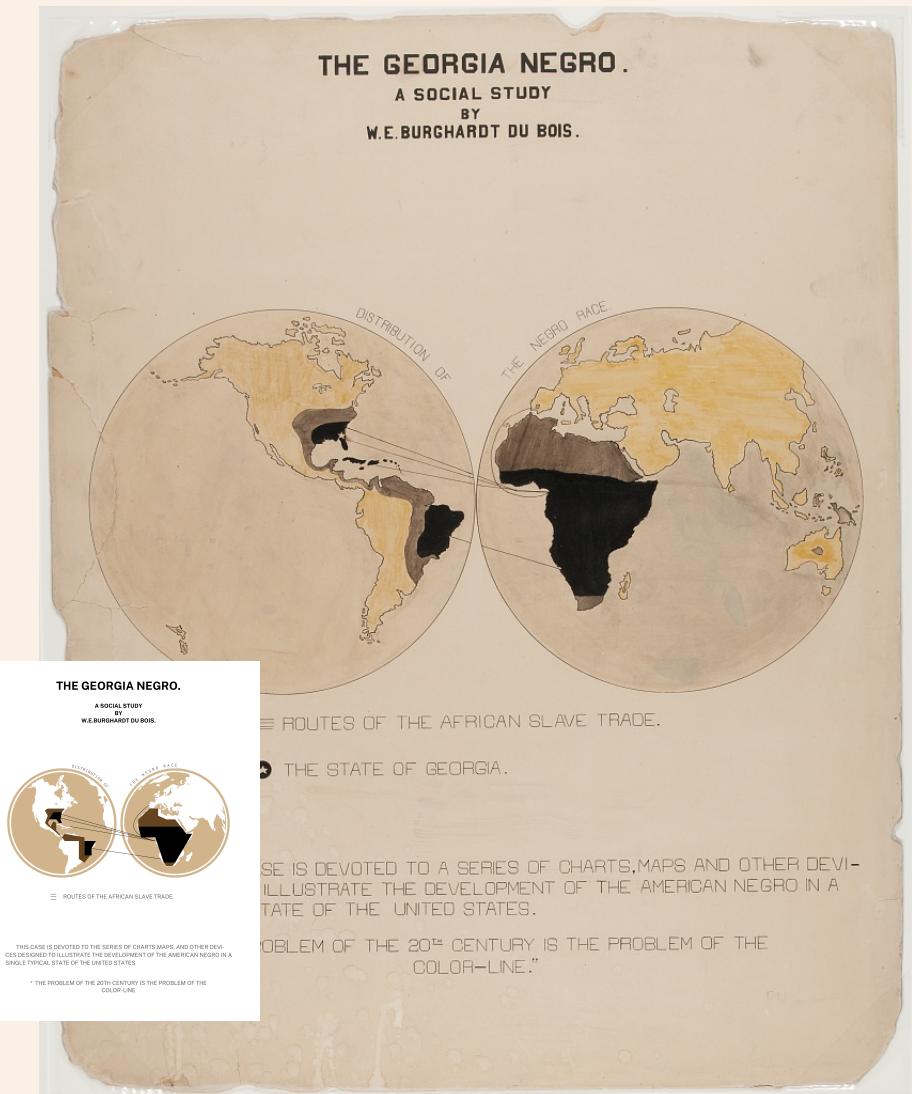
*Allen Hillery (@AlDataVizGuy)*



*Sekou Tyler (@sqlsekou)*

# #DuBoisChallenge2022 Entries

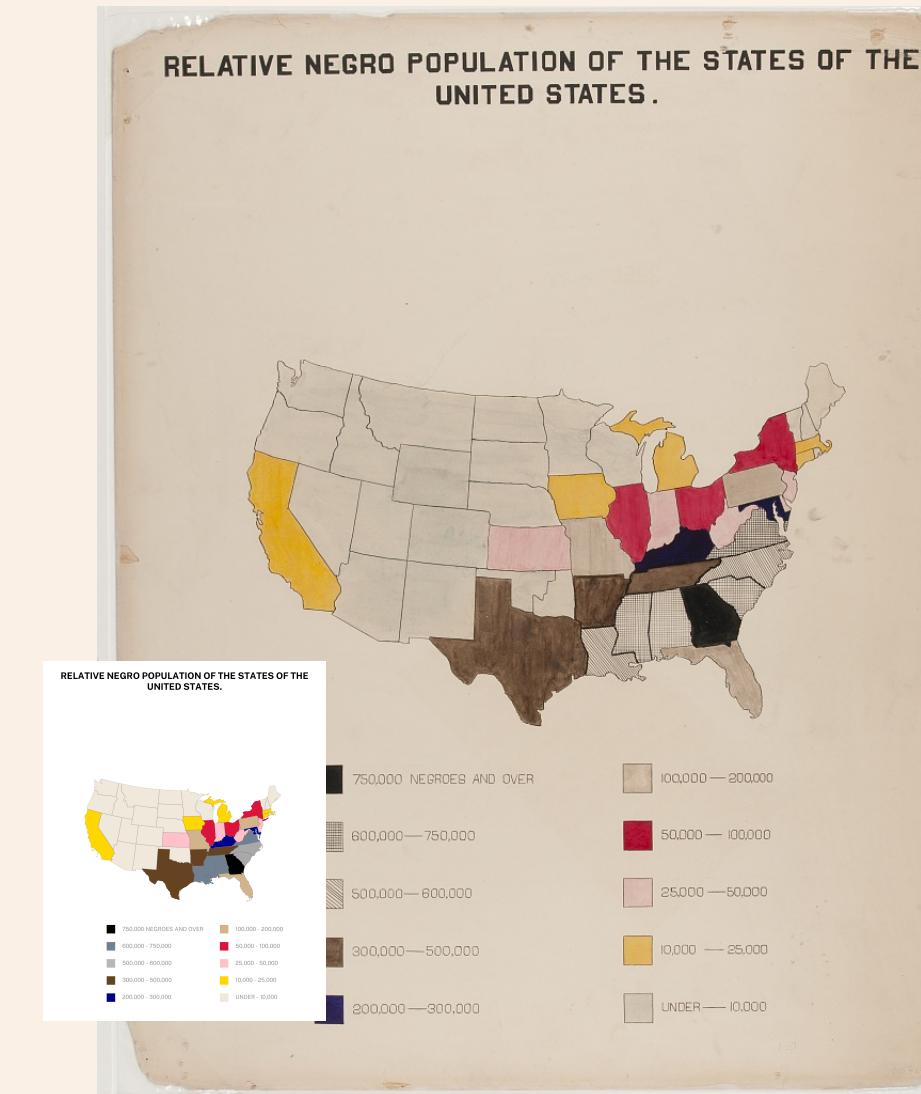
01



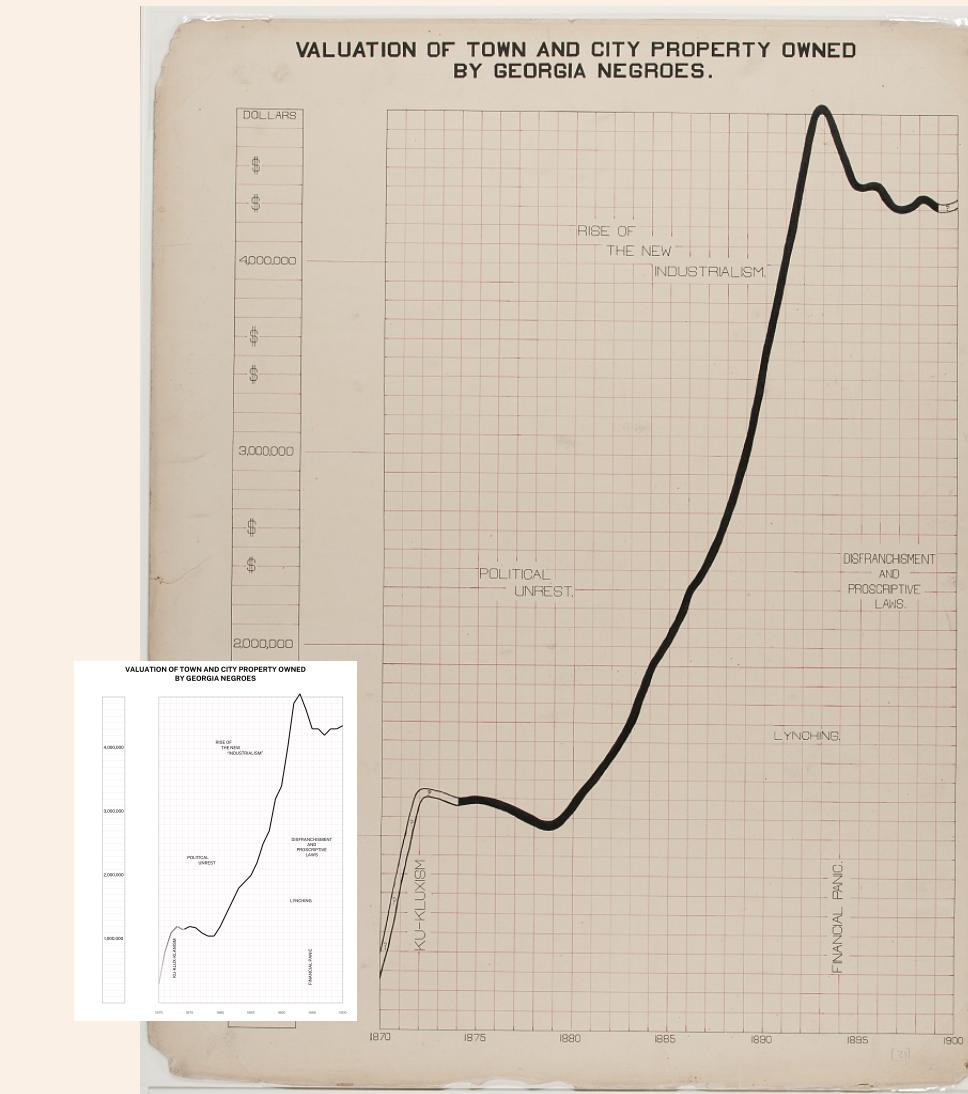
02



03



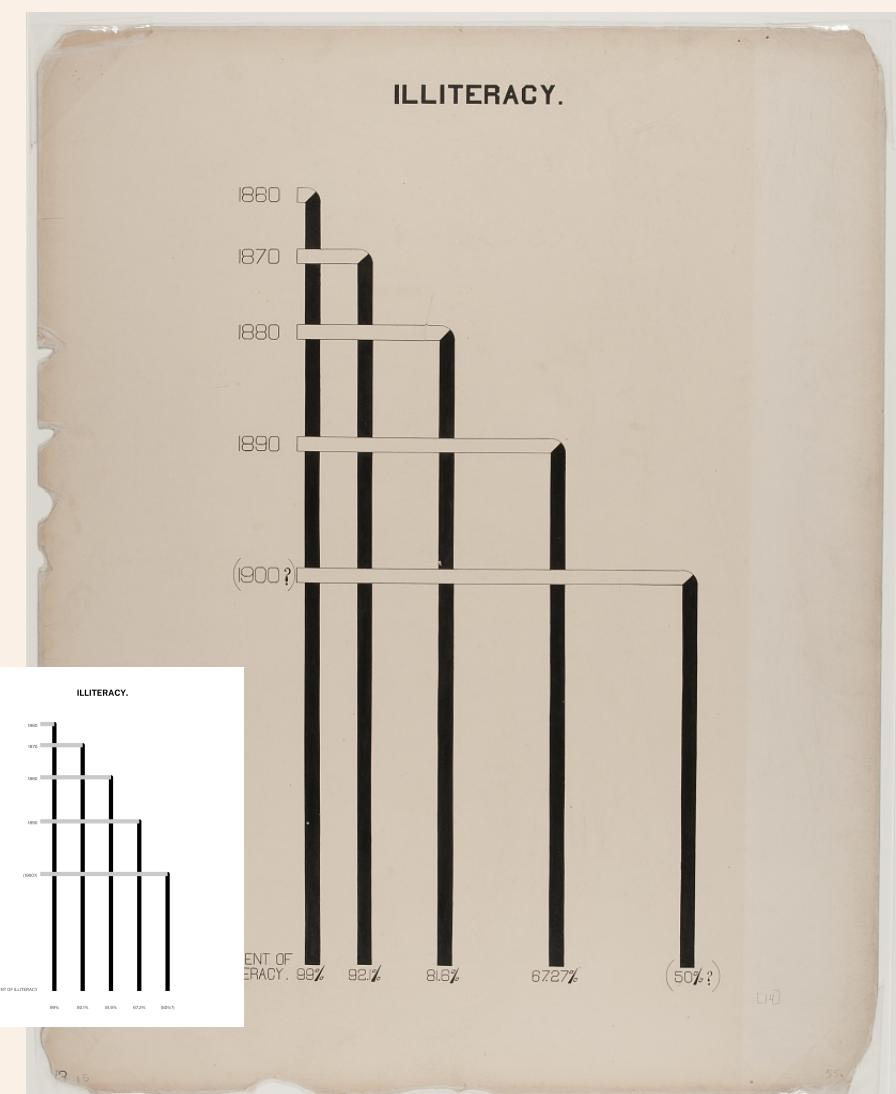
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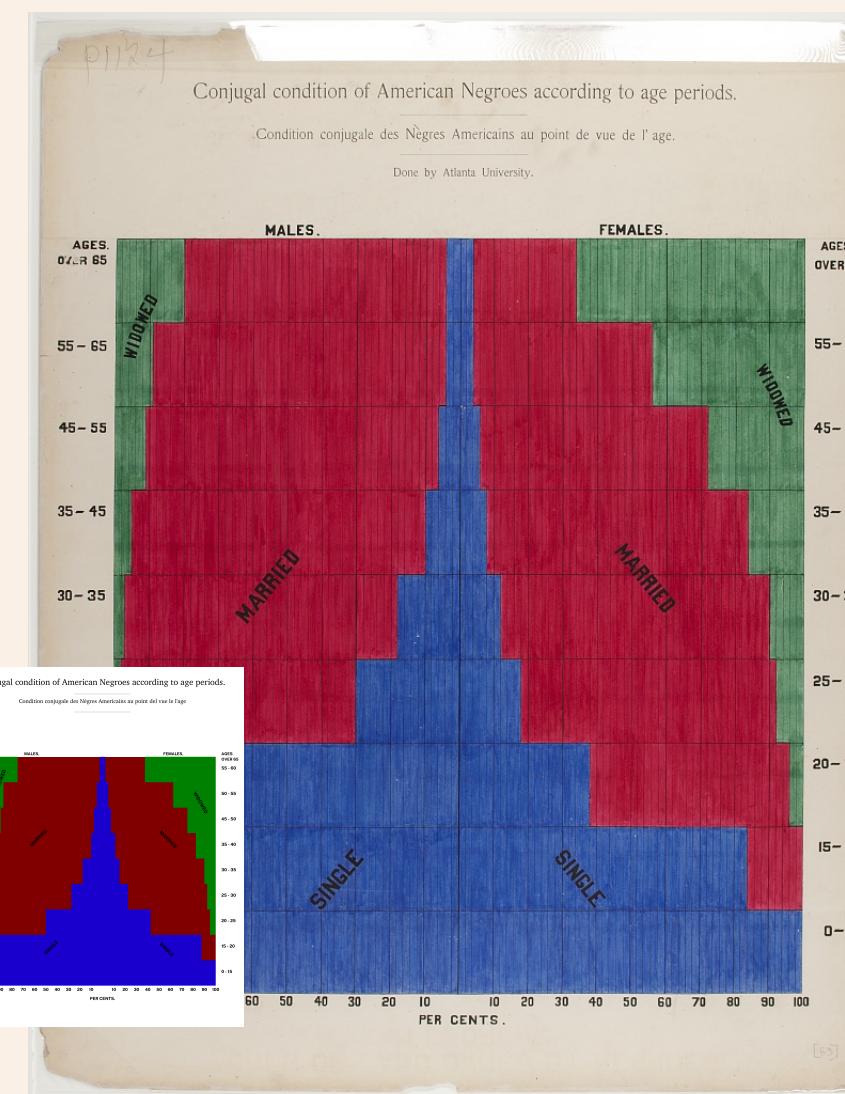
05



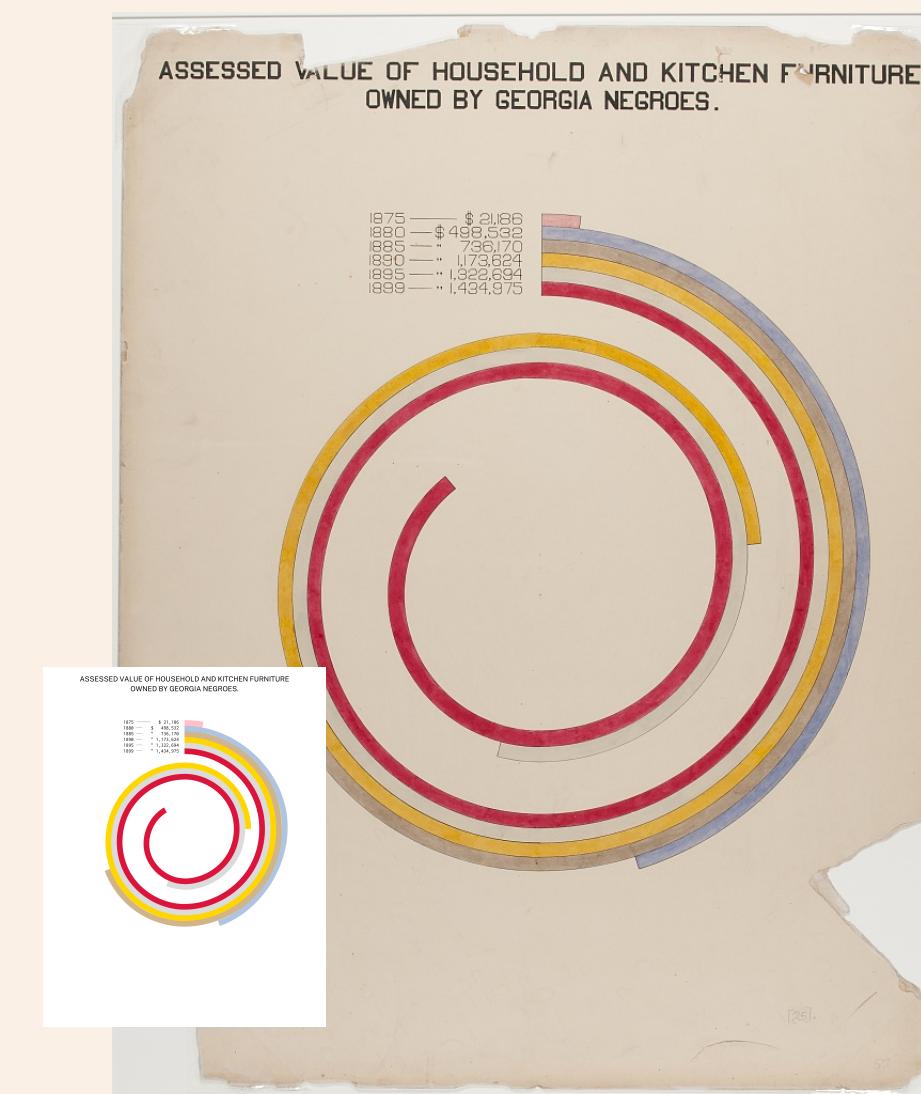
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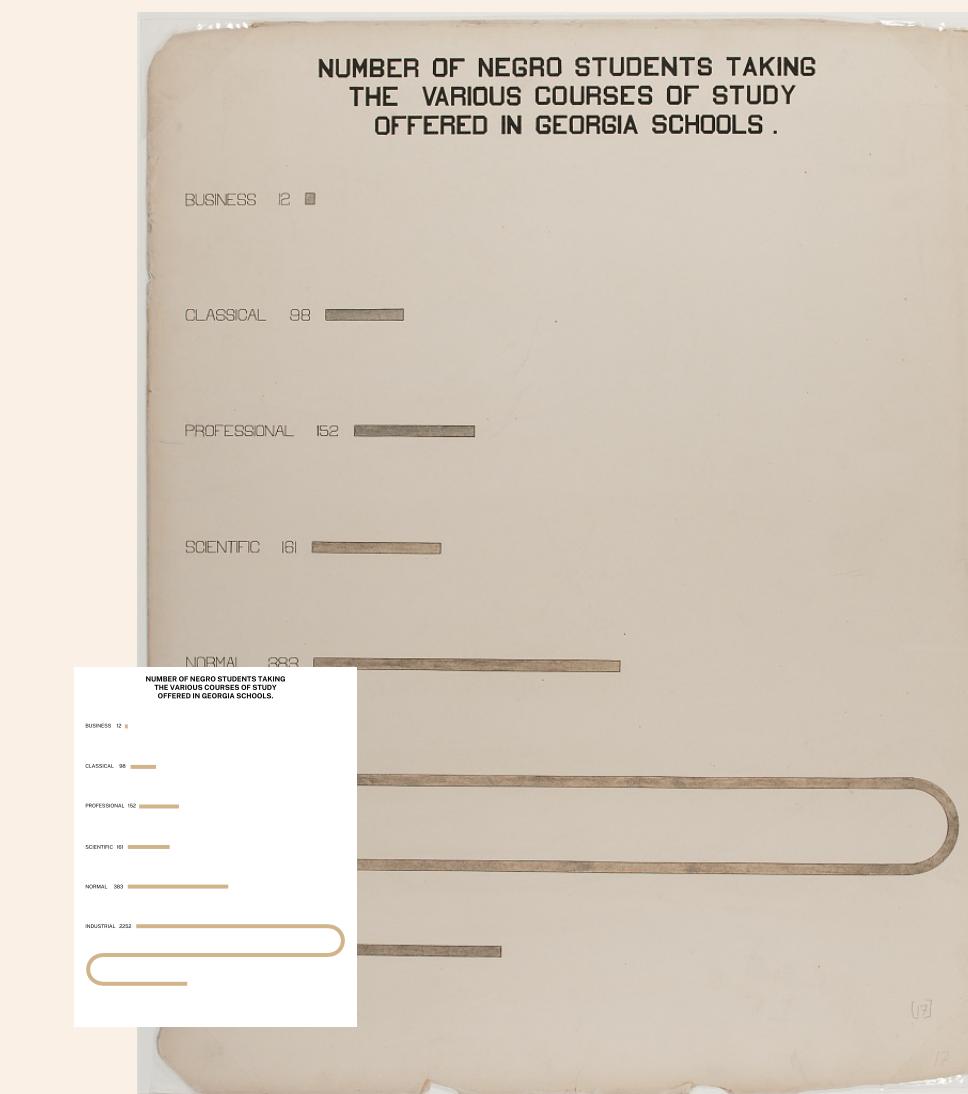
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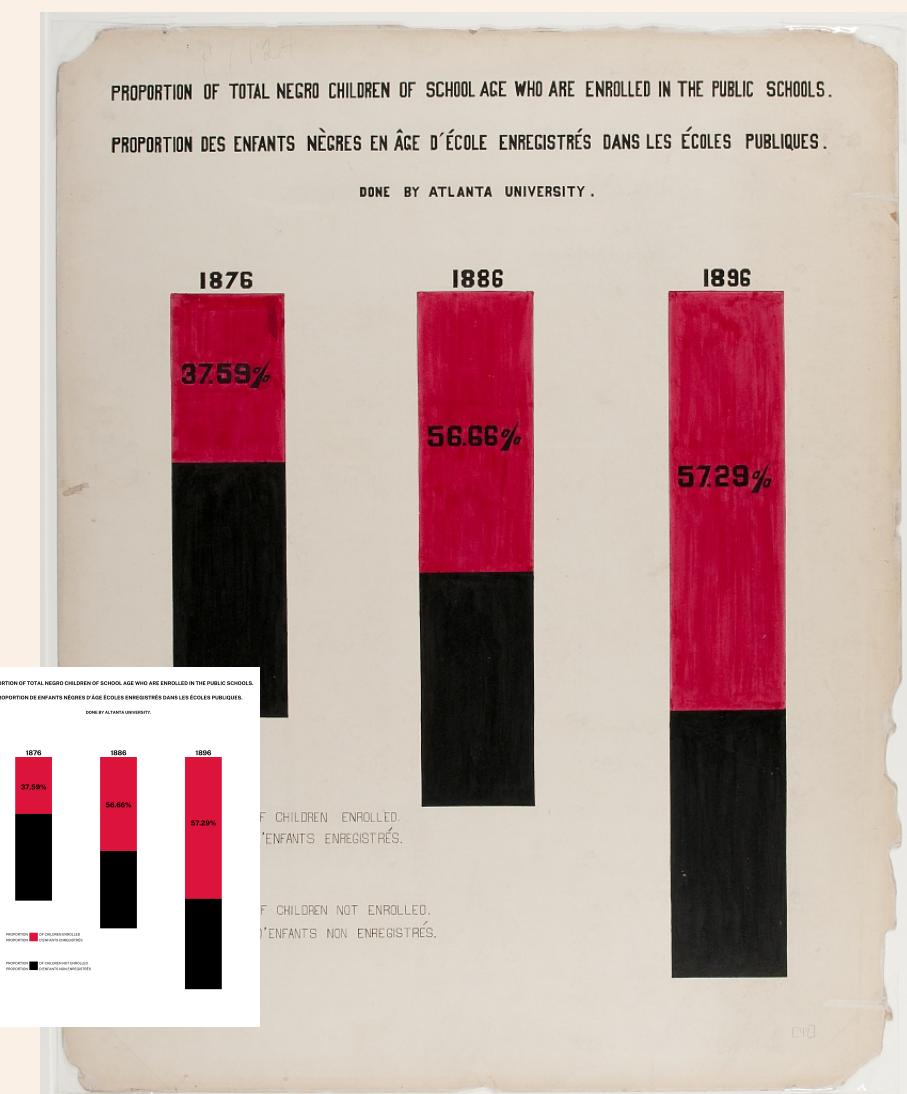
08



09



10

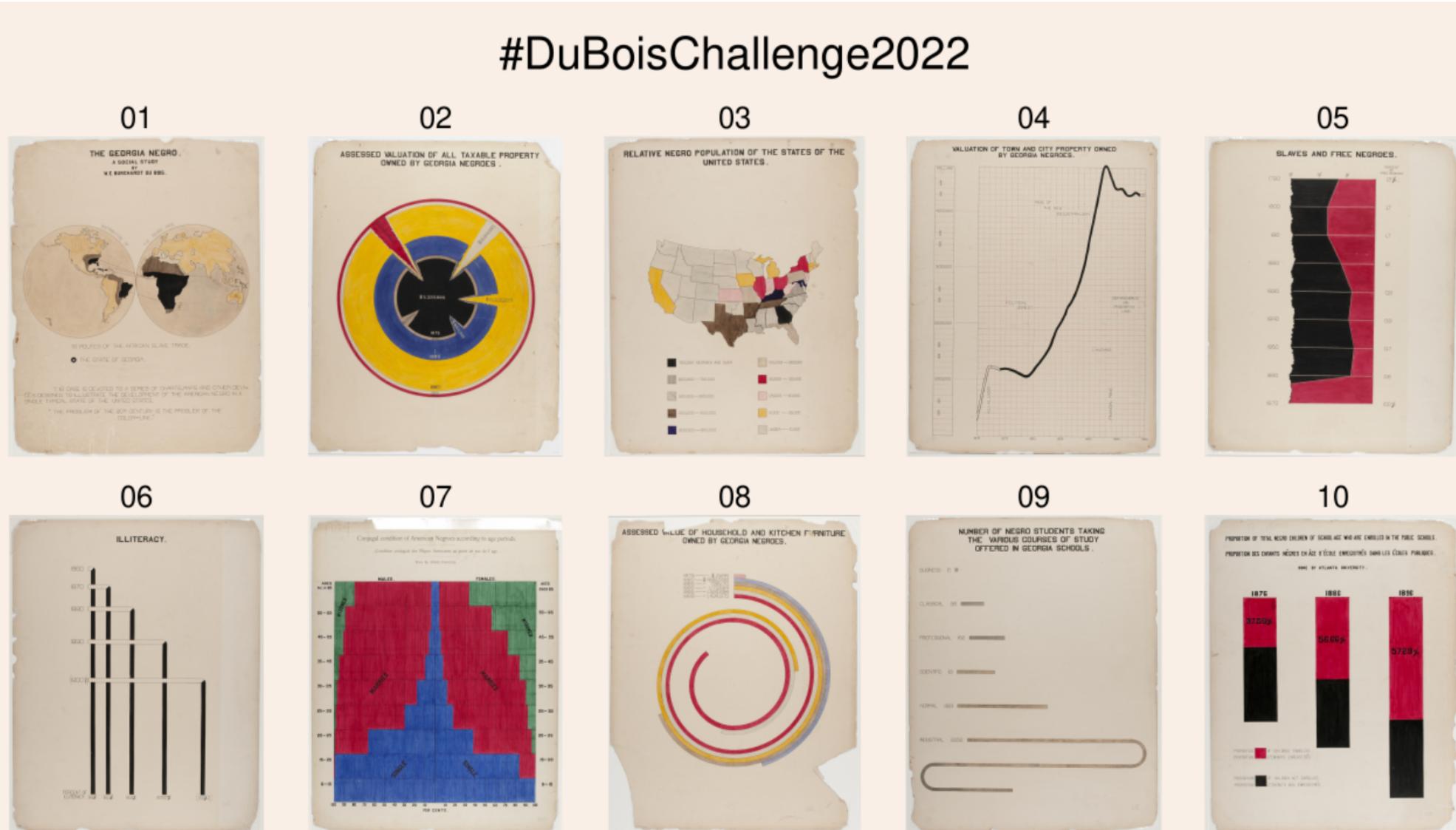


# Using github

☰ README.md

## Du Bois Visualization Challenge: 2022

### #DuBoisChallenge2022



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 #DuBoisChallenge2022

### The Challenges

- challenge01: The Georgia Negro (plate 1)
- challenge02: Assessed Valuation of all Taxable Property Owned by Georgia Negroes (plate 22)
- challenge03: Relative Negro Population of the States of the United States (plate 2)
- challenge04: Valuation of Town and City Property Owned by Georgia Negroes (plate 21)

Search or jump to... / Pull requests Issues Marketplace Explore

ajstarks / **dubois-data-portraits** Public

Code Issues Pull requests 1 Actions Projects Wiki Security Insights

master / **dubois-data-portraits / challenge / 2022 / challenge05 / data.csv**

ajstarks fill in data for 2022 challenge Latest commit 7cbeabe on Jan 8 History

1 contributor

10 lines (10 sloc) | 139 Bytes

Search this file...

1	Year	Slave	Free
2	1790	98.7	1.3
3	1800	98.3	1.7
4	1810	98.3	1.7
5	1820	98.8	1.2
6	1830	99.2	0.8
7	1840	99.1	0.9
8	1850	99.3	0.7
9	1860	99.2	0.8
10	1870	0	100

# The Announcement

 **Sekou Tyler**  
@sqlsekou

...

#DuBoisChallenge2022

@ajstarks @aldatavizguy

The #DuBoisChallenge2022 will last 10 weeks. The goal is to recreate W.E.B. Du Bois data visualizations with a modern tool. Datasets and rules can be found here -> [github.com/ajstarks/duboi...](https://github.com/ajstarks/duboi...)

10:05 AM · Feb 7, 2022 · Twitter Web App

55 Retweets 11 Quote Tweets 111 Likes

Reply Tweet your reply

 **Sekou Tyler** @sqlsekou · Feb 7  
Replying to @sqlsekou  
#DuBoisChallenge2022

Please use the hashtag #DuBoisChallenge2022. One of the goals of this challenge is to be FUN while paying homage to a data visualization pioneer! We also encourage that you BYOD (bring your own data sets) to give your visualizations a "Du Boisian Style"!

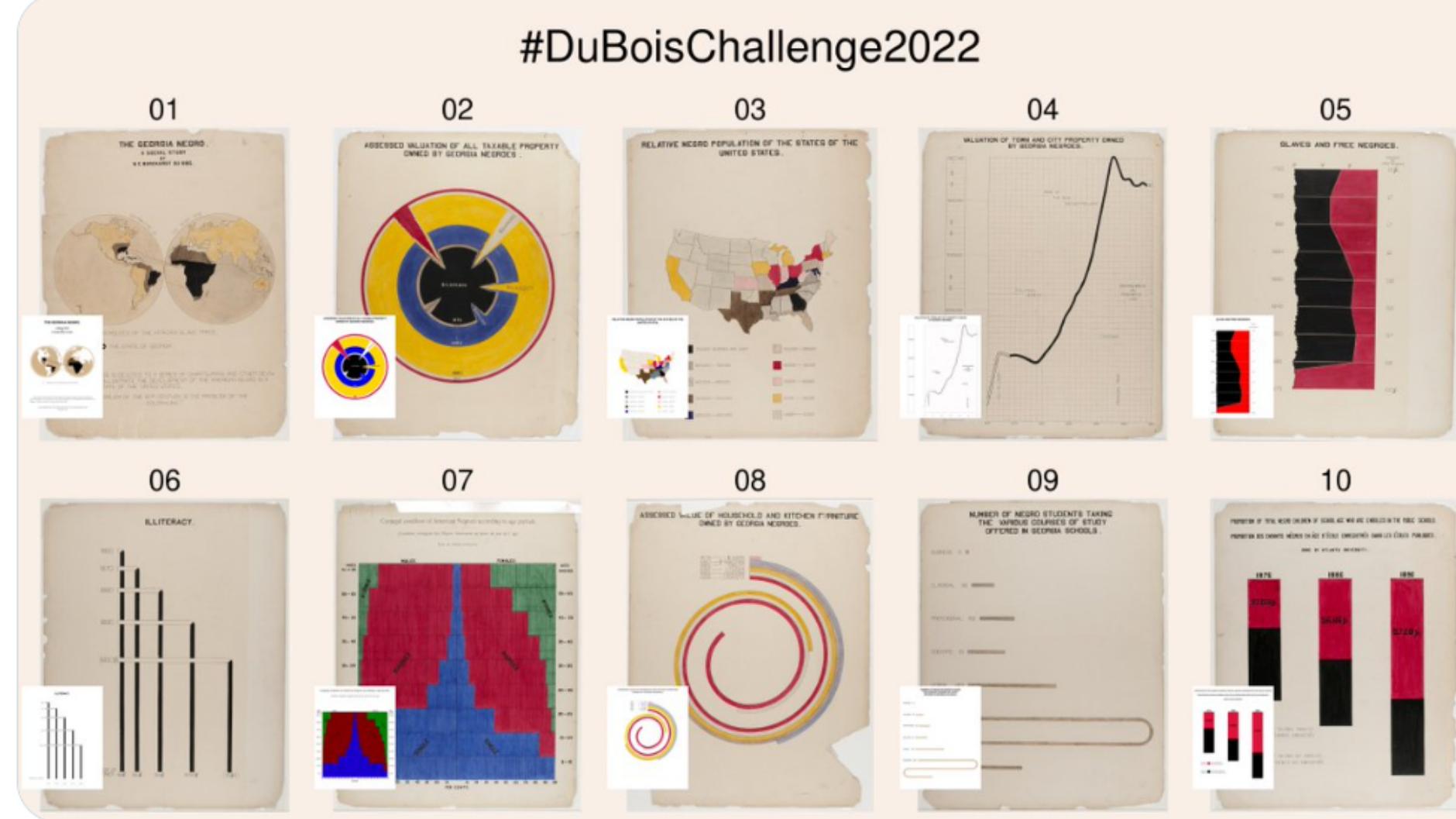
1 3 6

 **Anthony Starks**  
@ajstarks

...

Replying to @sqlsekou and @AlDatavizguy

In this thread I'll describe each of the items in the challenge:



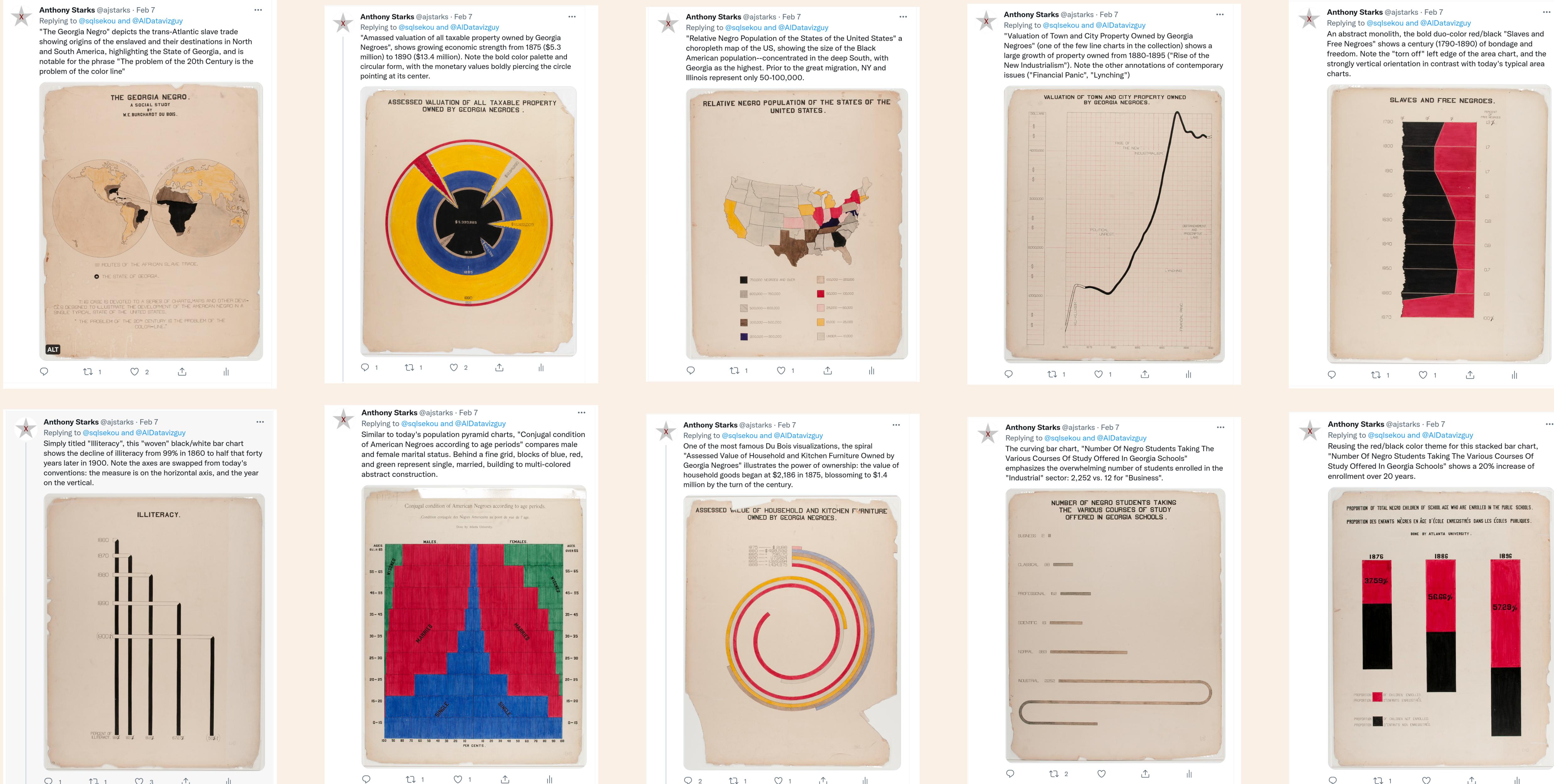
#DuBoisChallenge2022

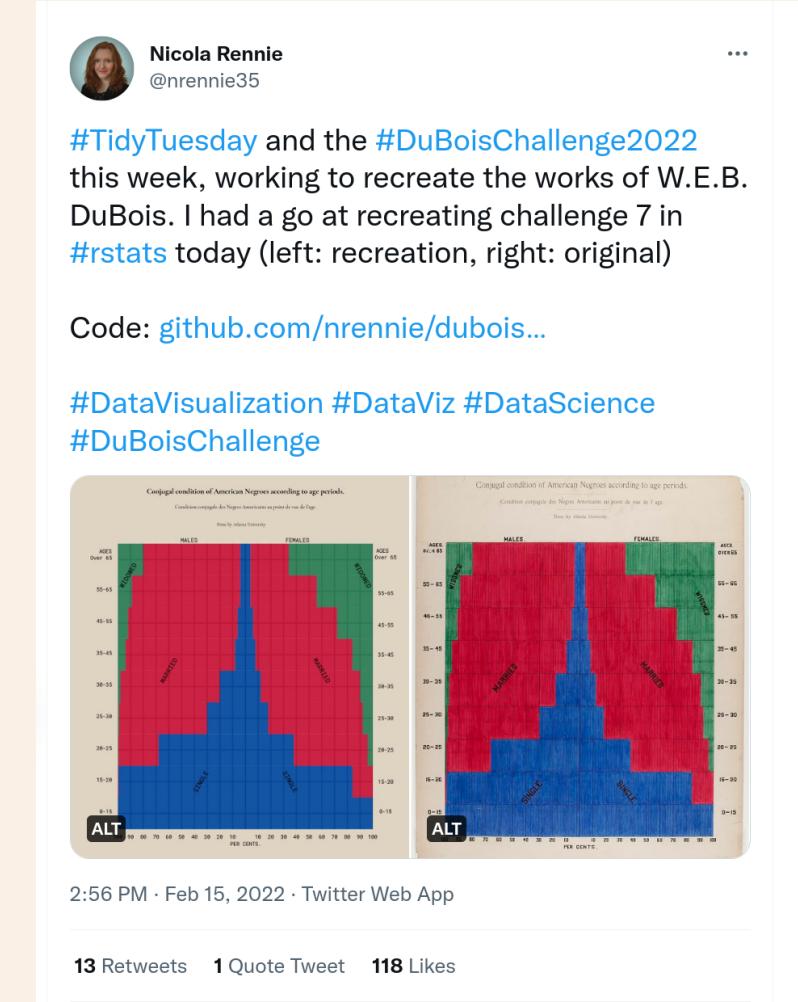
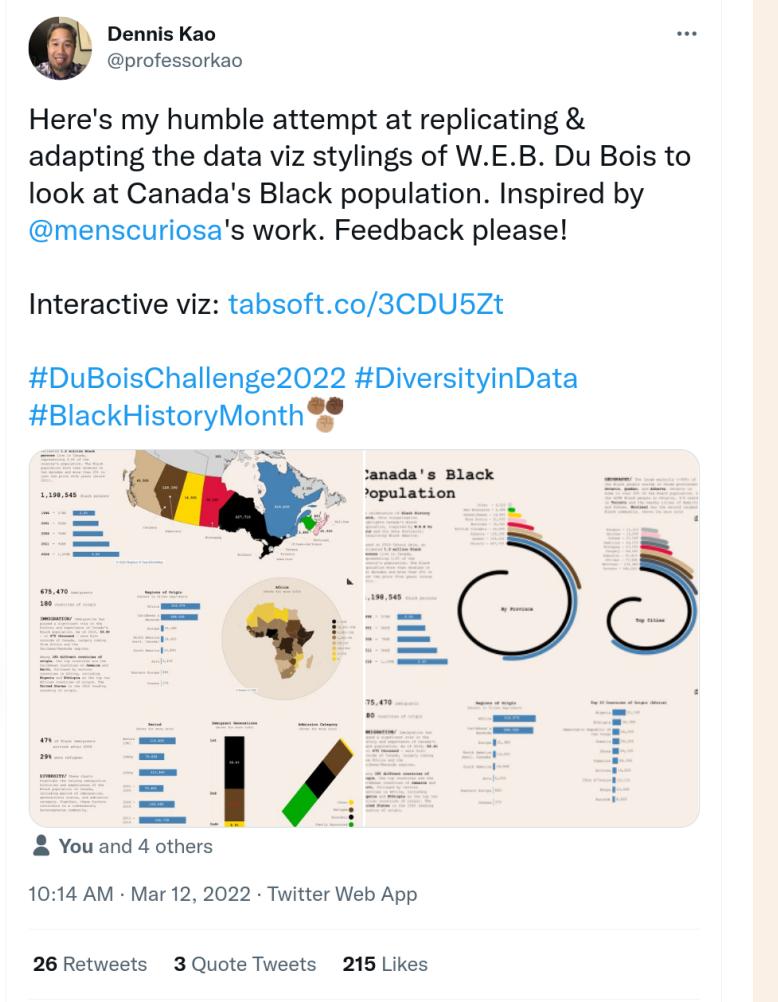
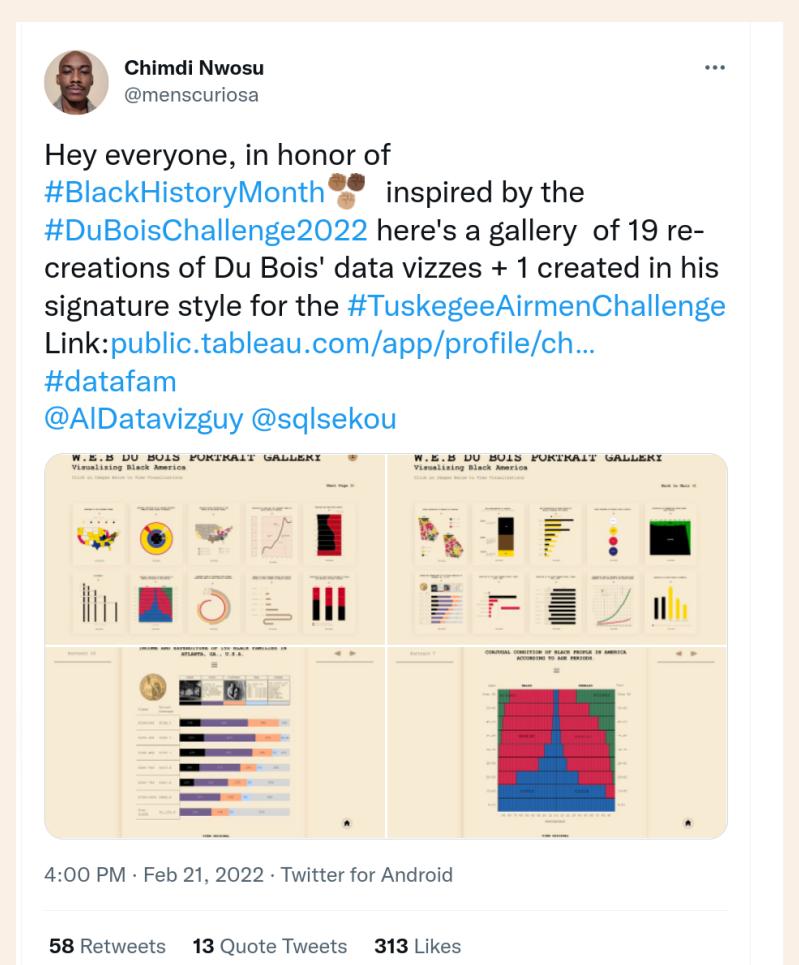
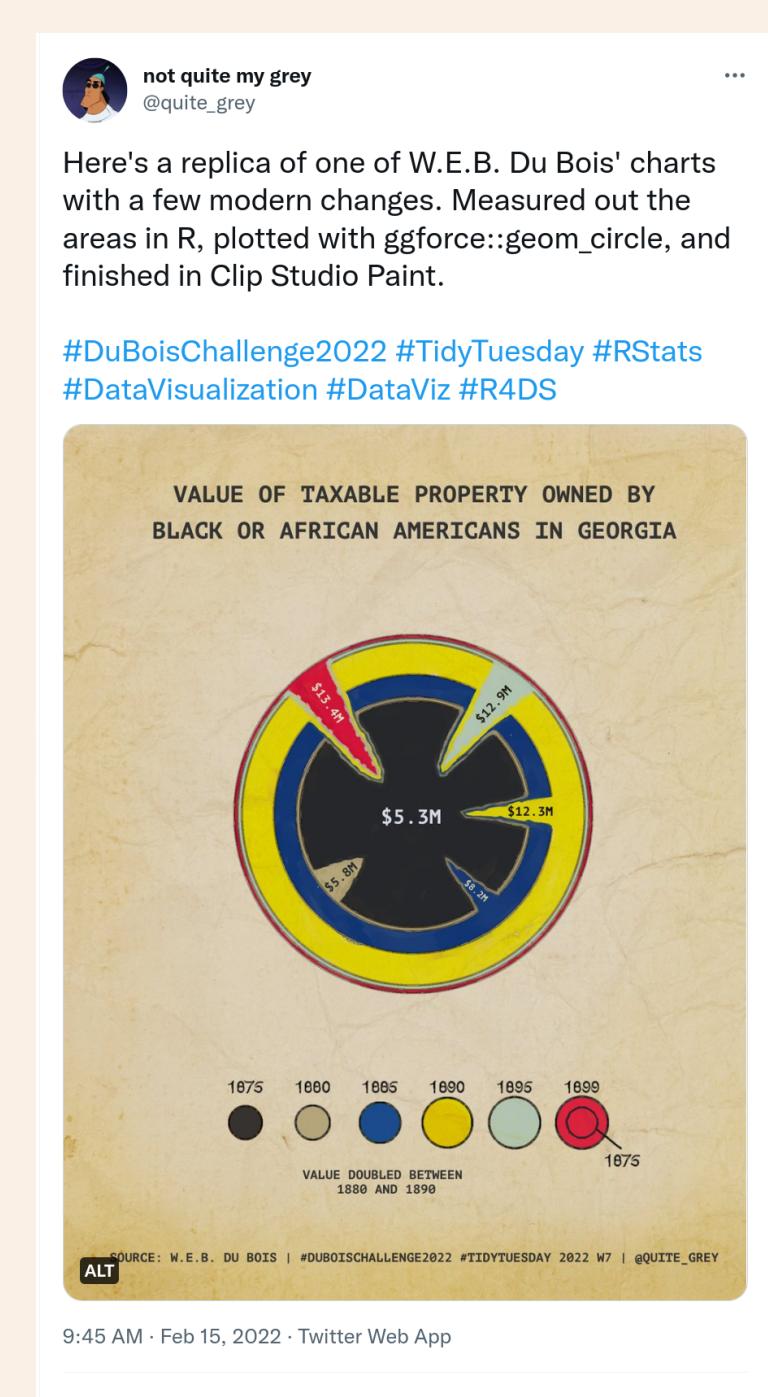
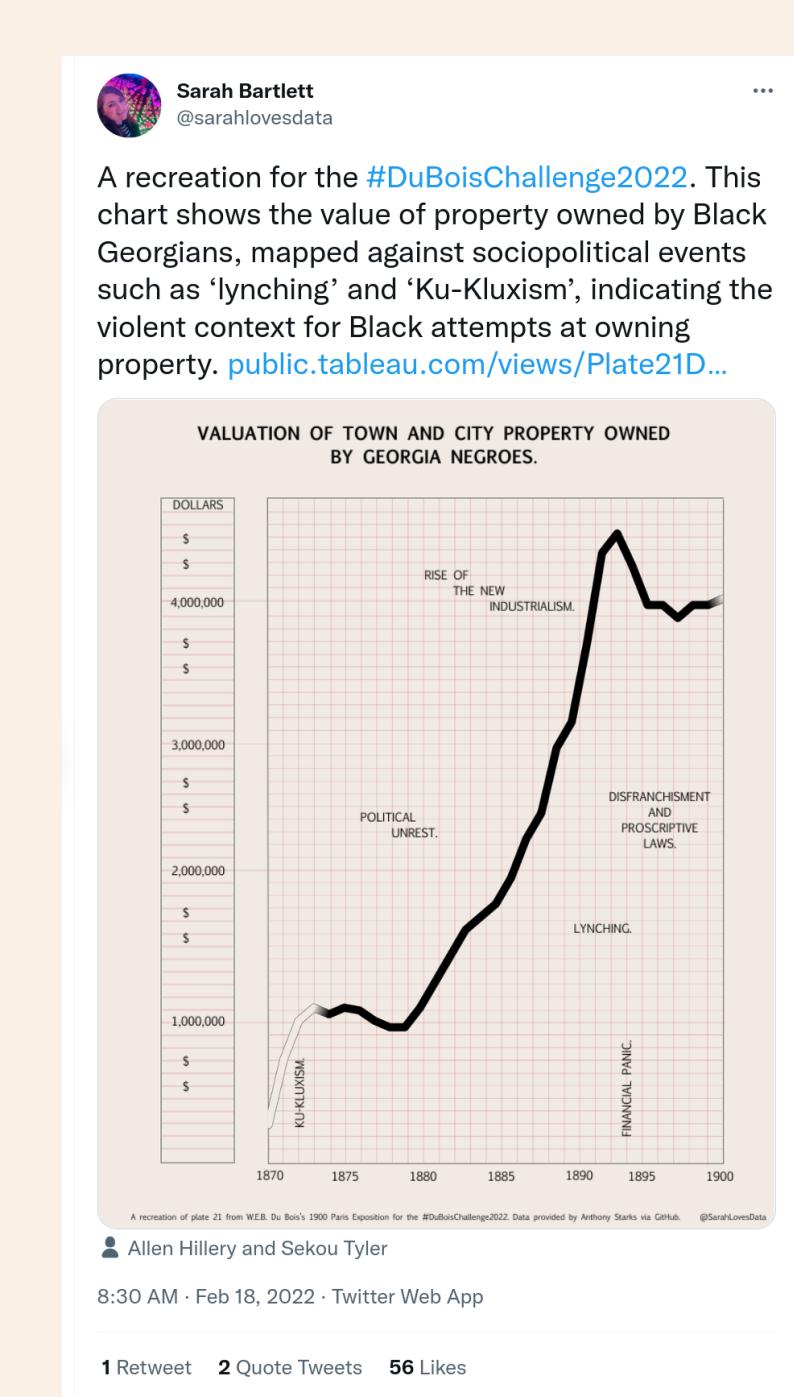
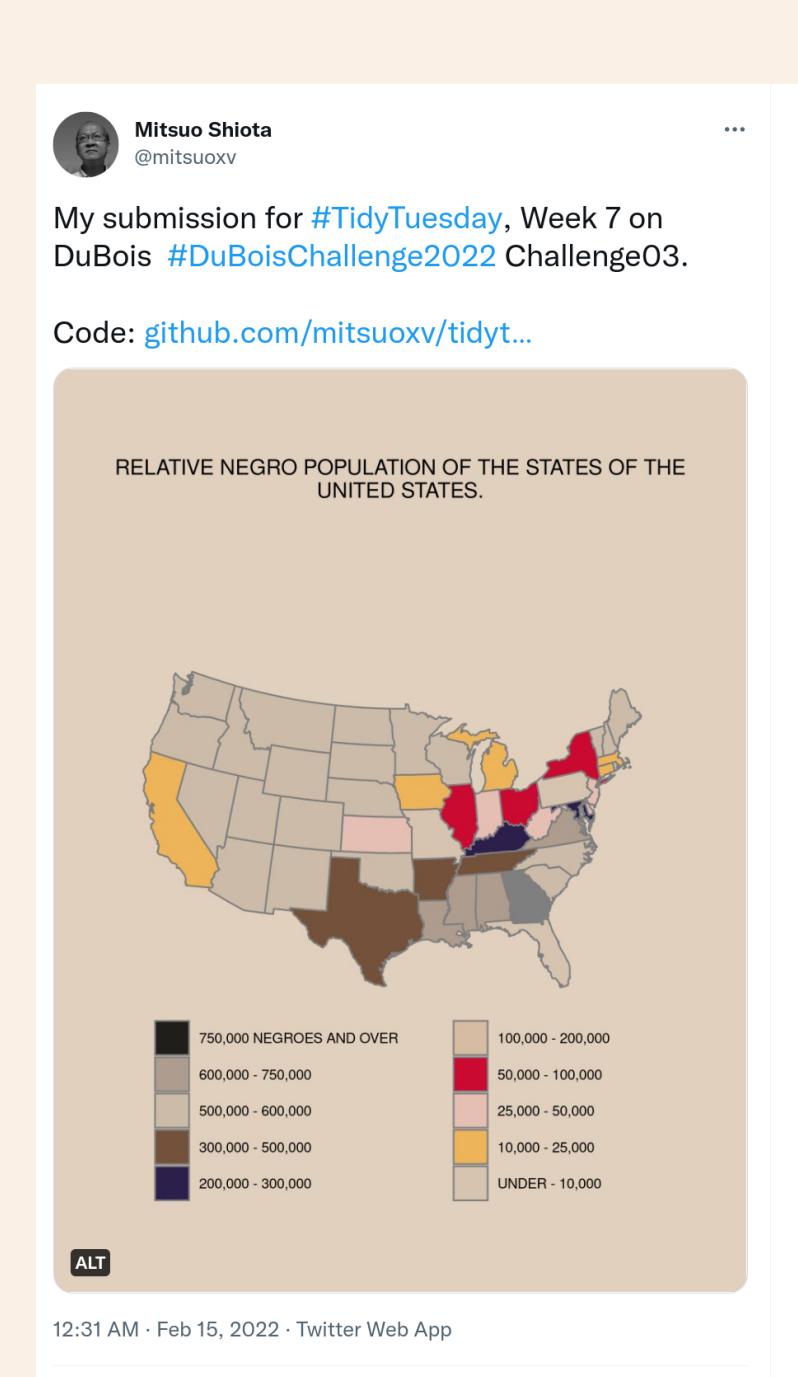
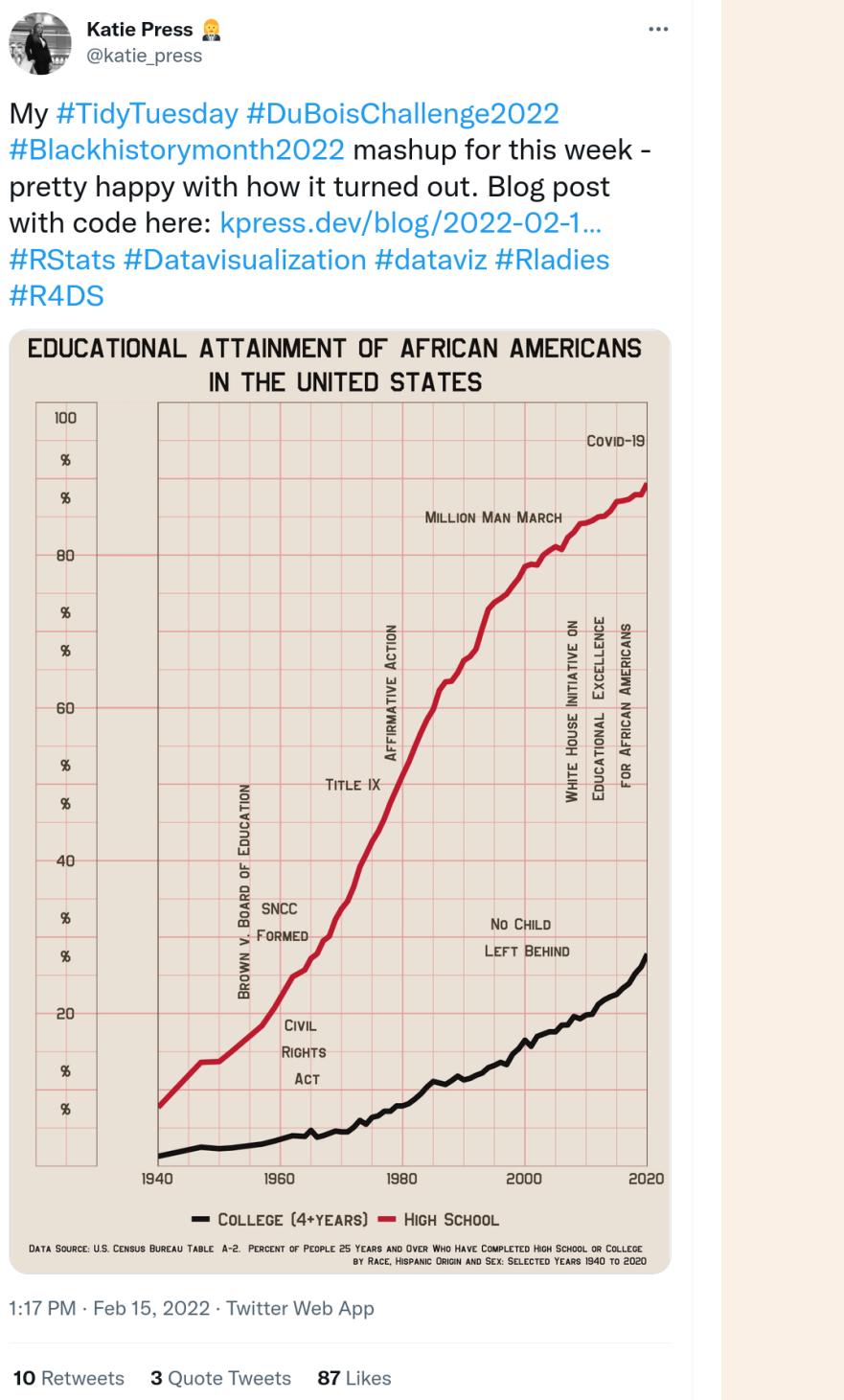
01 02 03 04 05

06 07 08 09 10

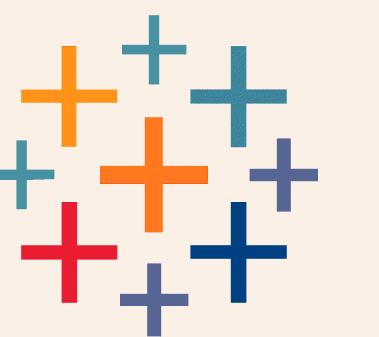
12:03 PM · Feb 7, 2022 · Twitter Web App

# The Introduction Thread

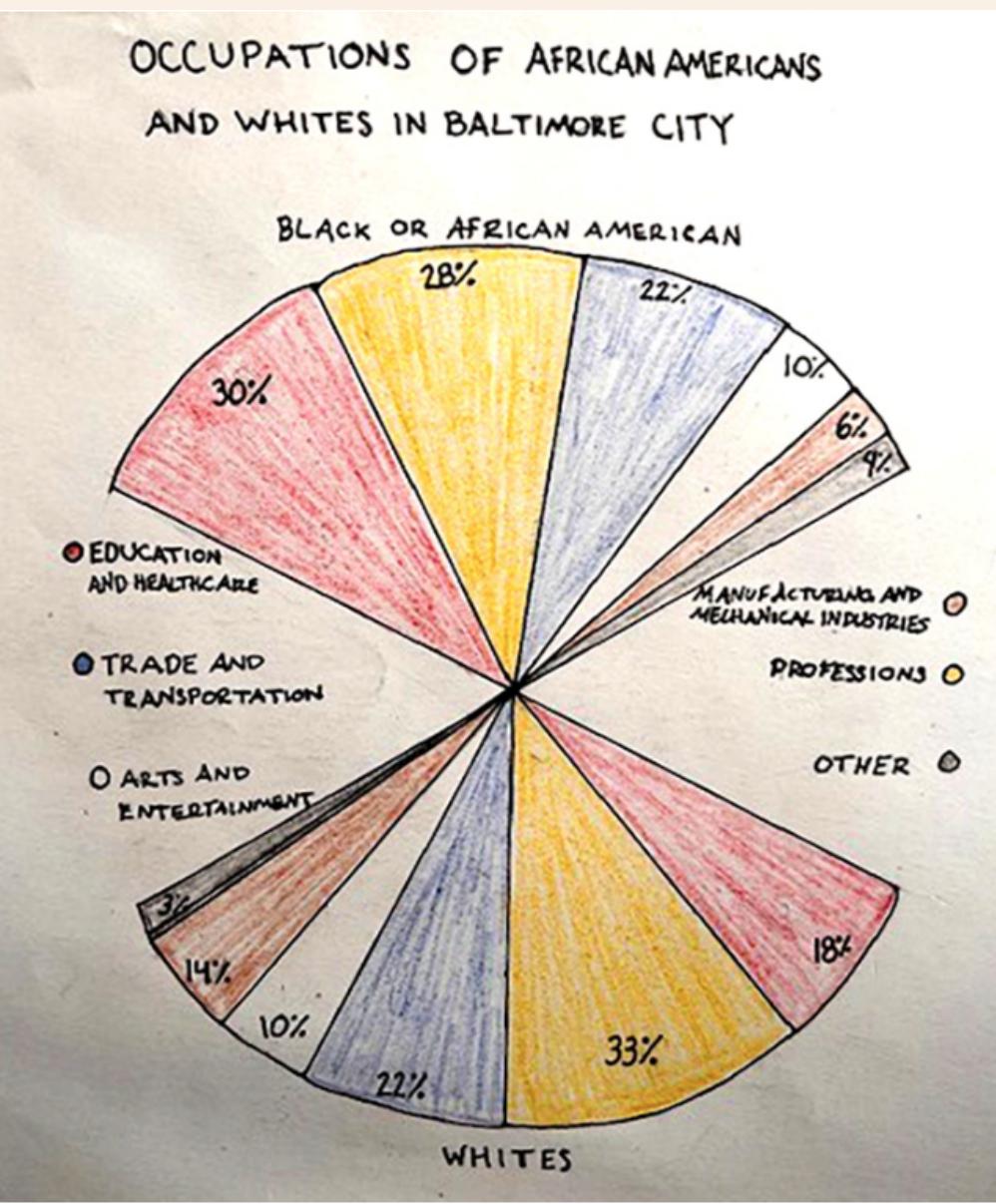




# Tools Used



+ a b l e a u



# Notable Examples

 Icaro Bernardes  
@IcaroBSC

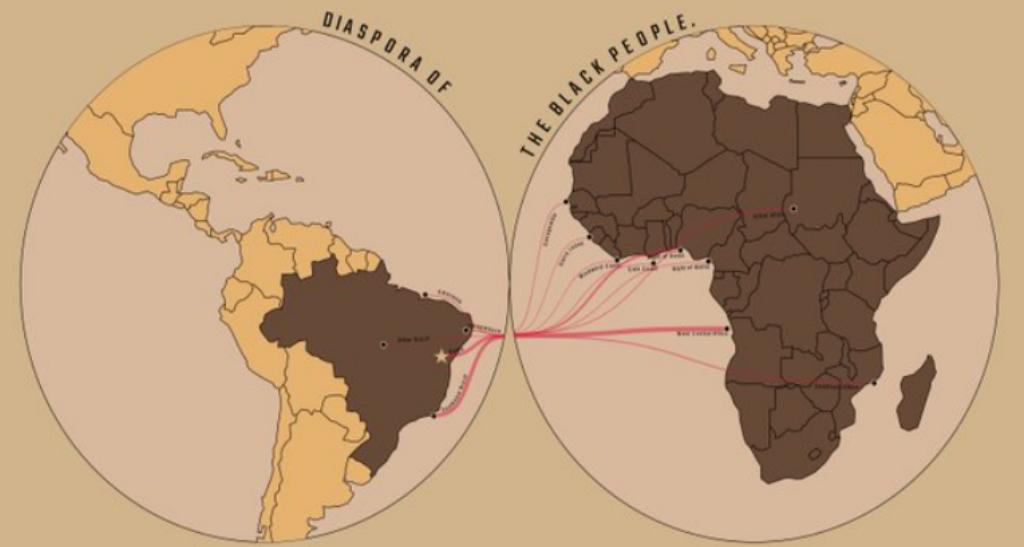
...  
[#30DayChartChallenge](#) and  
[#DuBoisChallenge2022](#) | [#Day17](#) | Connections

Between 1551 and 1875 it is estimated that 3.5 million Africans were embarked towards cruel slavery in Brazil. Sadly, this forced Black Diaspora is still ongoing.

 : [bit.ly/3uV4JZq](https://bit.ly/3uV4JZq) 1/3 

**THE AFRO-BRAZILIANS.**

POSTERS INSPIRED BY W.E.B. DU BOIS WITH DATA FROM IBGE AND THE SLAVE VOYAGES PROJECT.  
GRAPHICS MADE BY ICARO BERNARDES (@IcaroBSC).

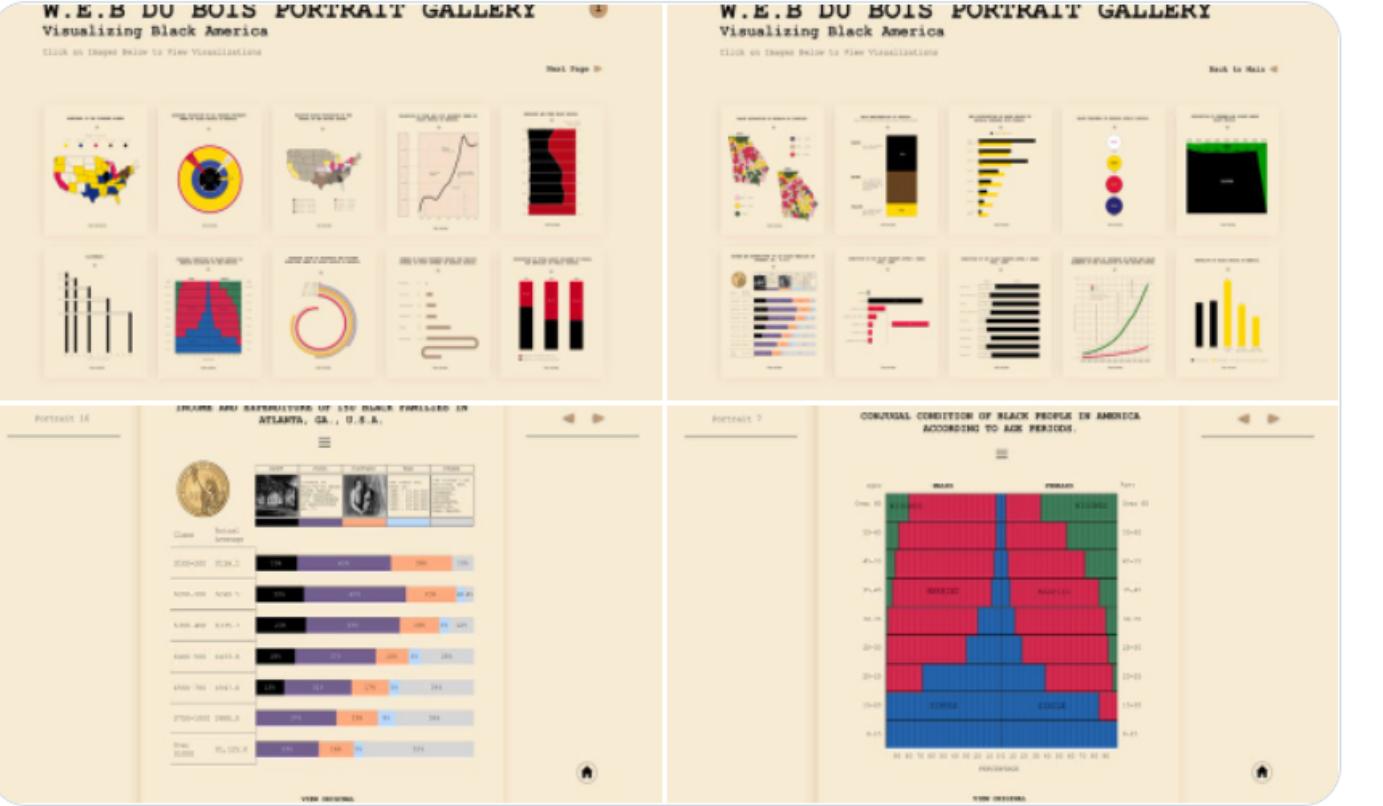


UNFORTUNATELY THE FORCED DIASPORA OF AFRICANS DID NOT SUBSIDE.  
TODAY MANY FLEE THEIR COUNTRIES RUNNING AWAY FROM POVERTY, WAR AND ENVIRONMENTAL DISASTERS.  
THE FUTURE OF AFRICA STILL IS BEING EXPORTED TO THE WORLD.

4:40 PM · Apr 19, 2022 · Twitter Web App

 Chimdi Nwosu  
@menscuriosa

...  
Hey everyone, in honor of [#BlackHistoryMonth](#) 🌏 inspired by the [#DuBoisChallenge2022](#) here's a gallery of 19 re-creations of Du Bois' data vizzes + 1 created in his signature style for the [#TuskegeeAirmenChallenge](#) Link: [public.tableau.com/app/profile/chimdi.nwosu](https://public.tableau.com/app/profile/chimdi.nwosu)  
[#datafam](#)  
[@AlDatavizguy](#) @sqlsekou



4:00 PM · Feb 21, 2022 · Twitter for Android

58 Retweets 13 Quote Tweets 313 Likes

 Baltimore Office of Performance & Innovation  
@BaltOPI

...  
Melanie, Data Fellows Program Manager, focused on the 13th amendment and prison labor as a form of modern slavery for OPI's [#DuBoisChallenge](#). Her visualization, using data from [@verainstitute](#), shows how Black people are disproportionately incarcerated. [storymaps.arcgis.com/stories/6a3d50...](https://storymaps.arcgis.com/stories/6a3d50...)

**Rethinking "Slaves and Free Negroes"**

by Melanie Rogala, Data Fellows Program Manager, OPI



The 13th amendment signed into the U.S. Constitution on December 18th, 1865 abolished slavery in the United States. As described in the book, slavery did not end hardship for Black people in the United States. Freedom from slavery left people "homeless, penniless, stripped of their vote, and patrolled by whites."

The 13th Amendment may have outlawed the enslavement of Black people, but the United States continues to devise new ways to uphold the racist hierarchies that slavery was founded on and to restrict the freedom of the descendants of enslaved people.

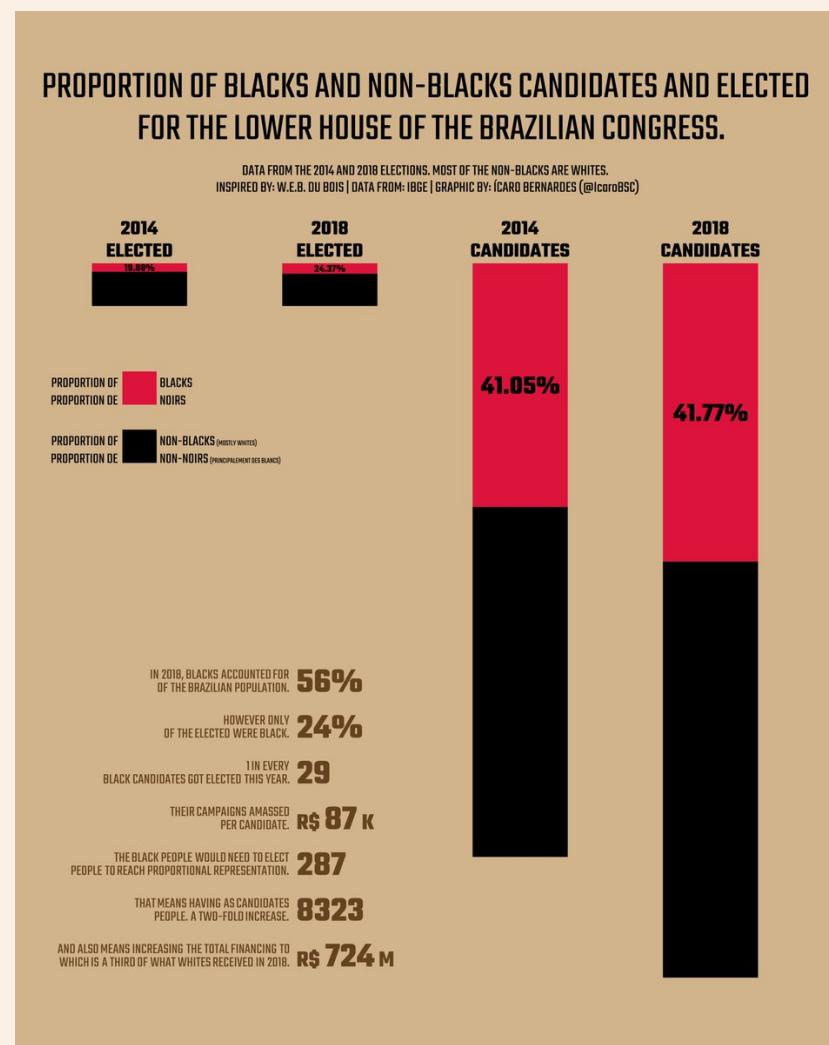
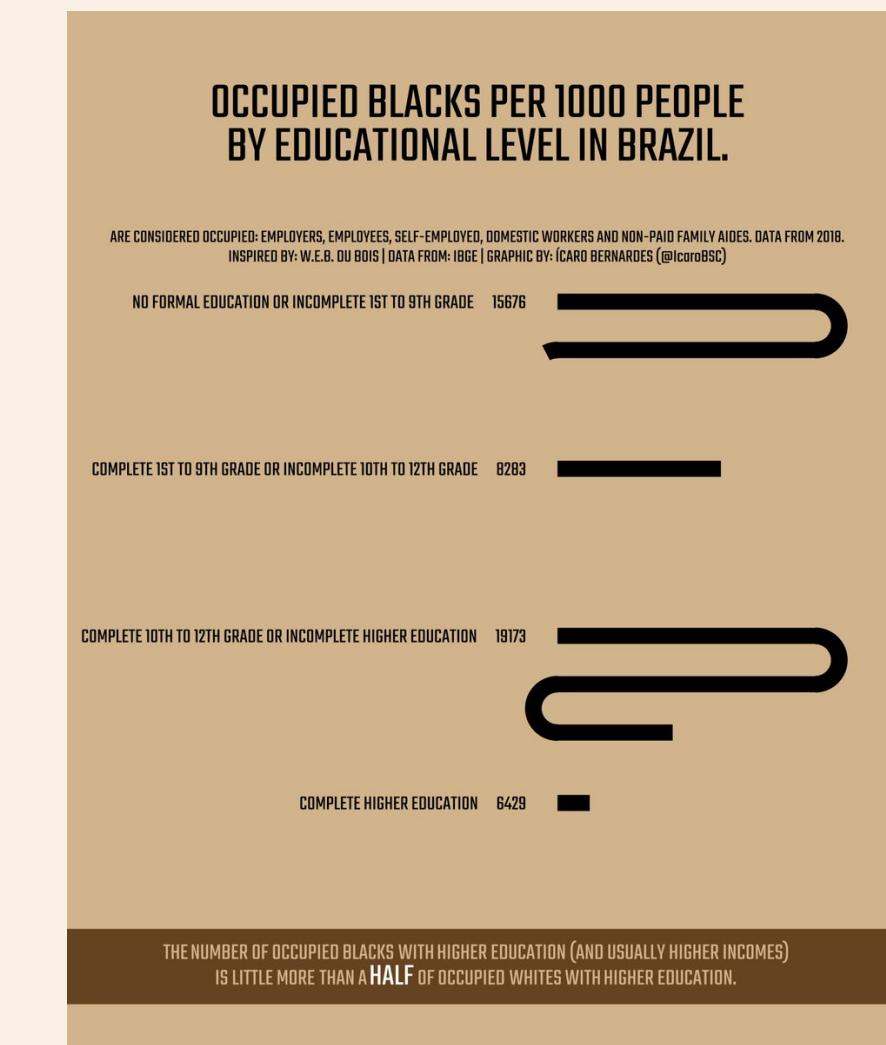
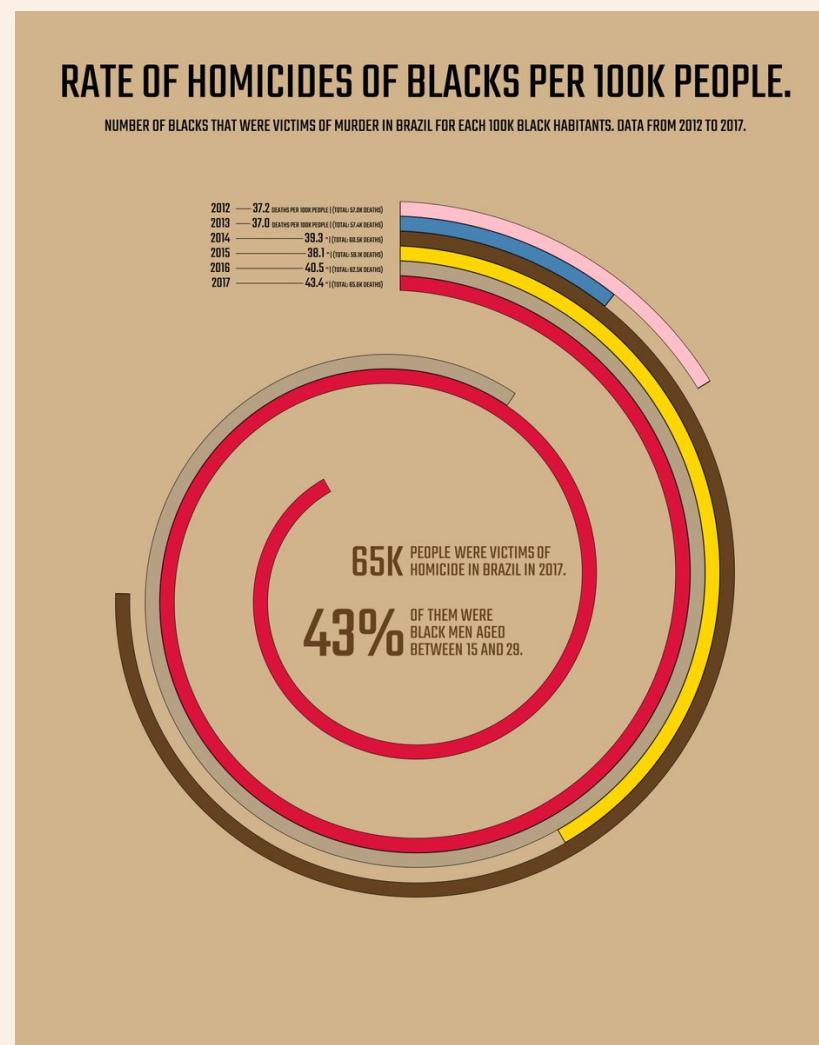
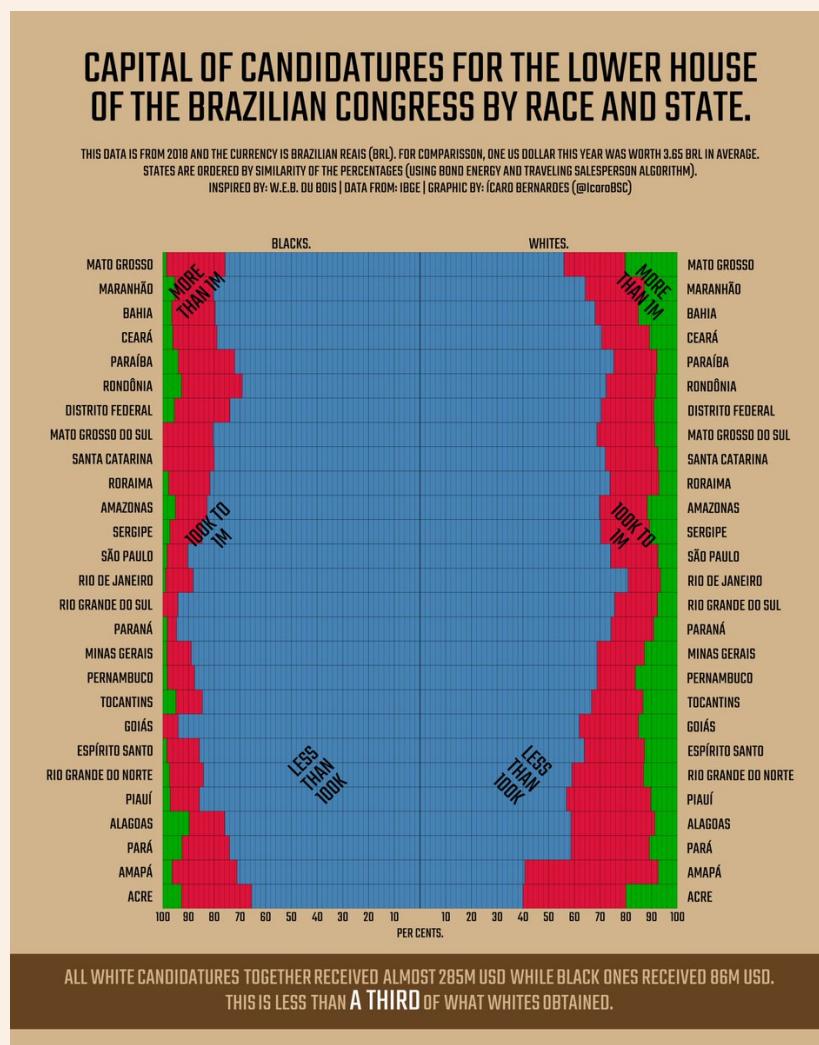
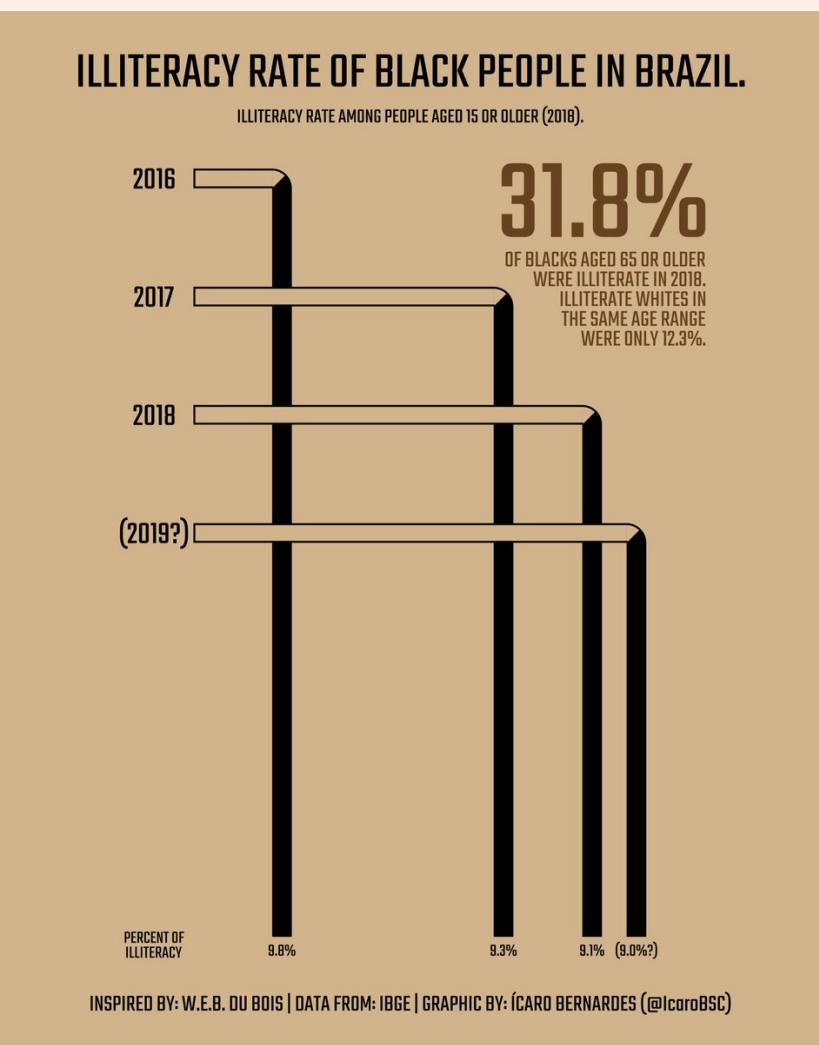
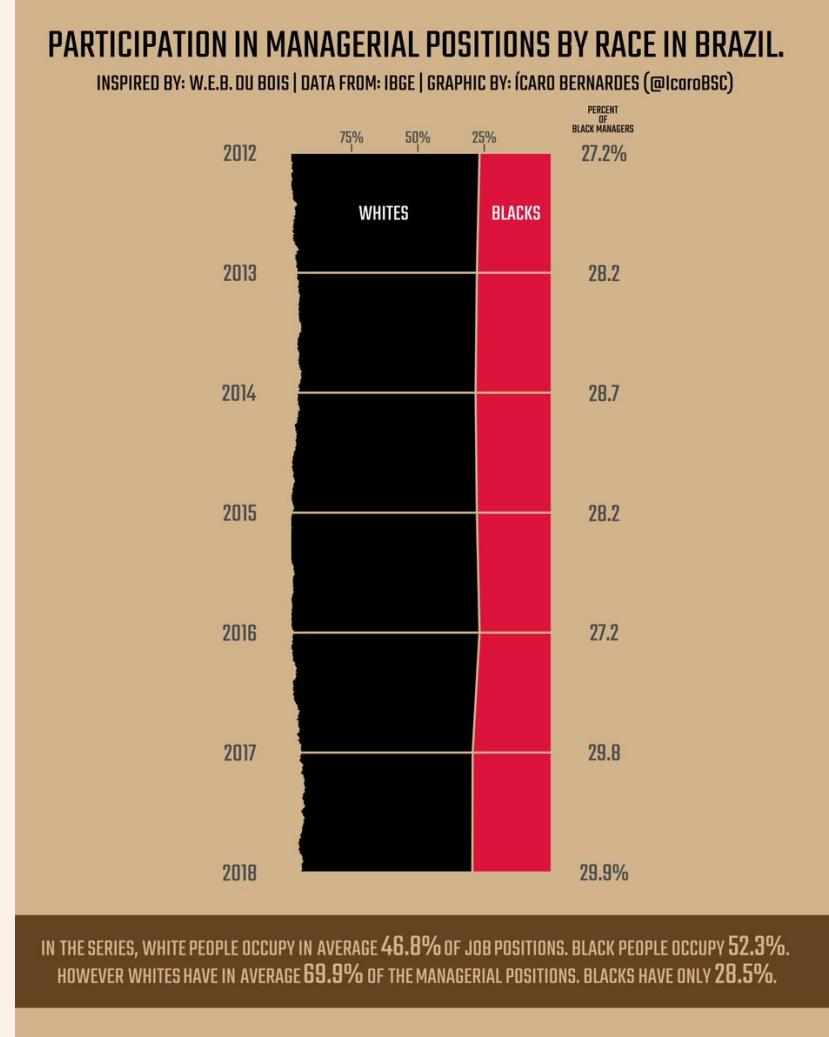
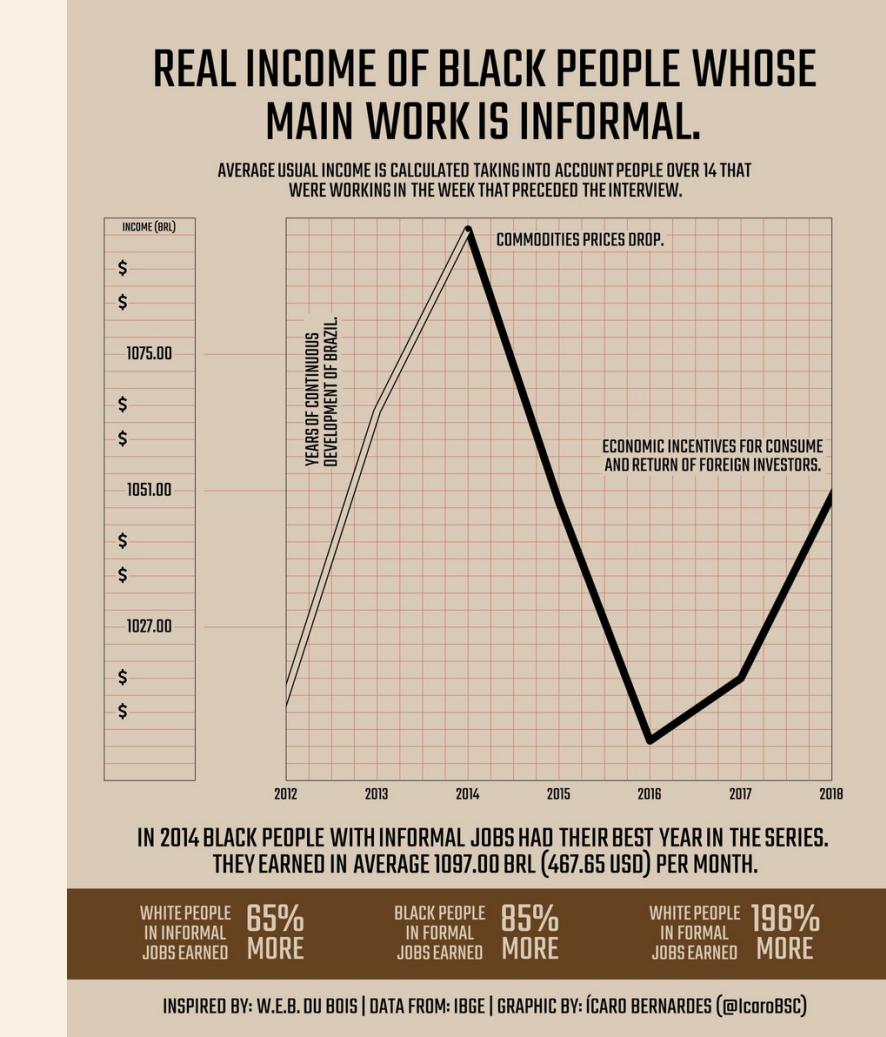
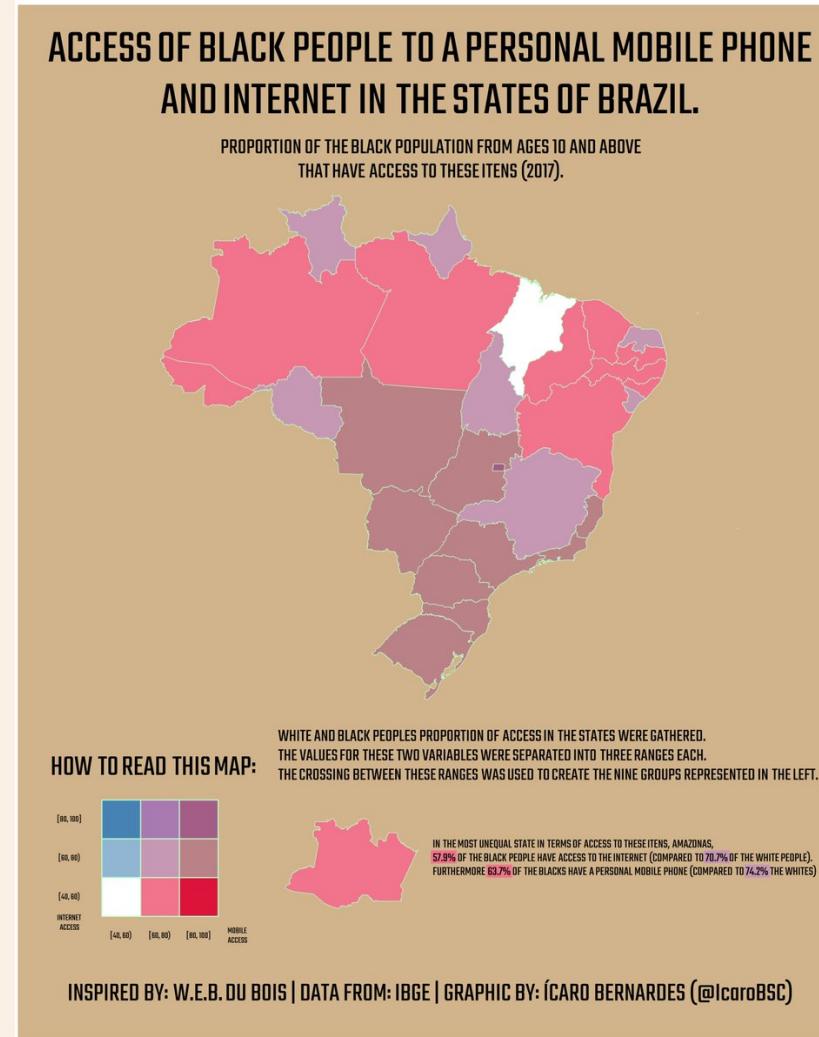
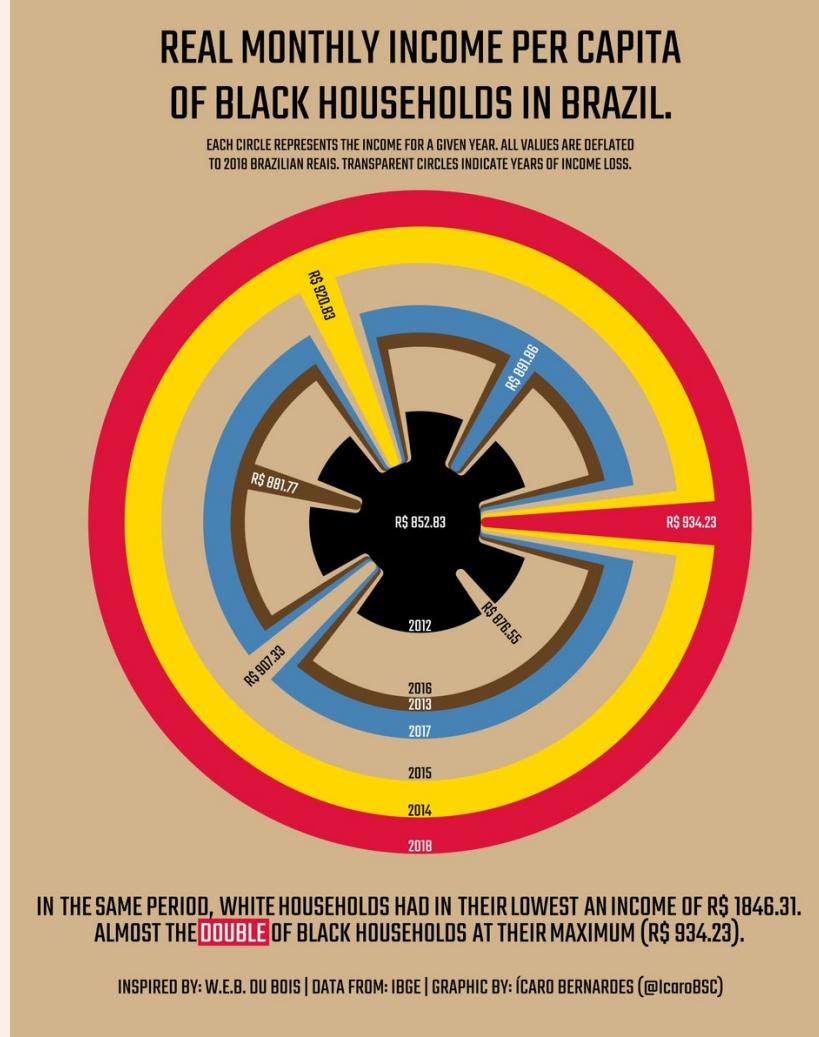
-Vera Institute of Justice

2:07 PM · Apr 4, 2022 · Twitter Web App

1 Retweet 6 Likes



# Ícaro Bernardes (@IcaroBSC)





# Chimdi Nwosu (@menscuriosa)

**W.E.B. DU BOIS PORTRAIT GALLERY**  
Visualizing Black America

Click on Images Below to View Visualizations

Data: Anthony Starks | @ajstarks  
Design: Chimdi Nwosu | @menscuriosa

**W.E.B. Dubois Portrait** by Chimdi Nwosu

ASSESSED VALUATION OF ALL TAXABLE PROPERTY OWNED BY BLACK PEOPLE IN GEORGIA.

Portrait 2

Year - Assessed Value

Year	Assessed Value
1875	\$5.4M
1880	\$5.8M
1885	\$8.2M
1990	\$12.3M
1995	\$12.5M
1999	\$13.4M

VIEW ORIGINAL

**W.E.B. Dubois Portrait** by Chimdi Nwosu

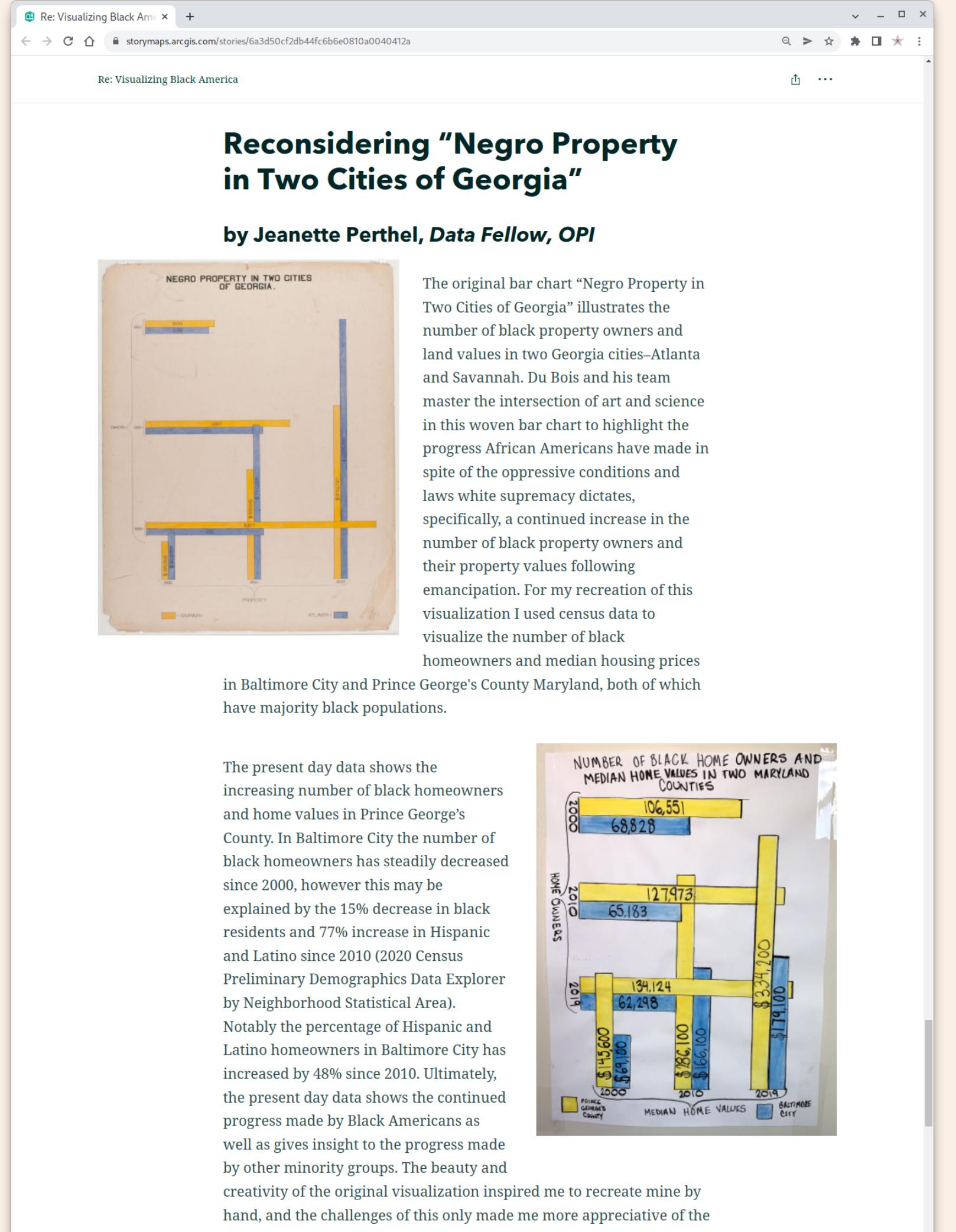
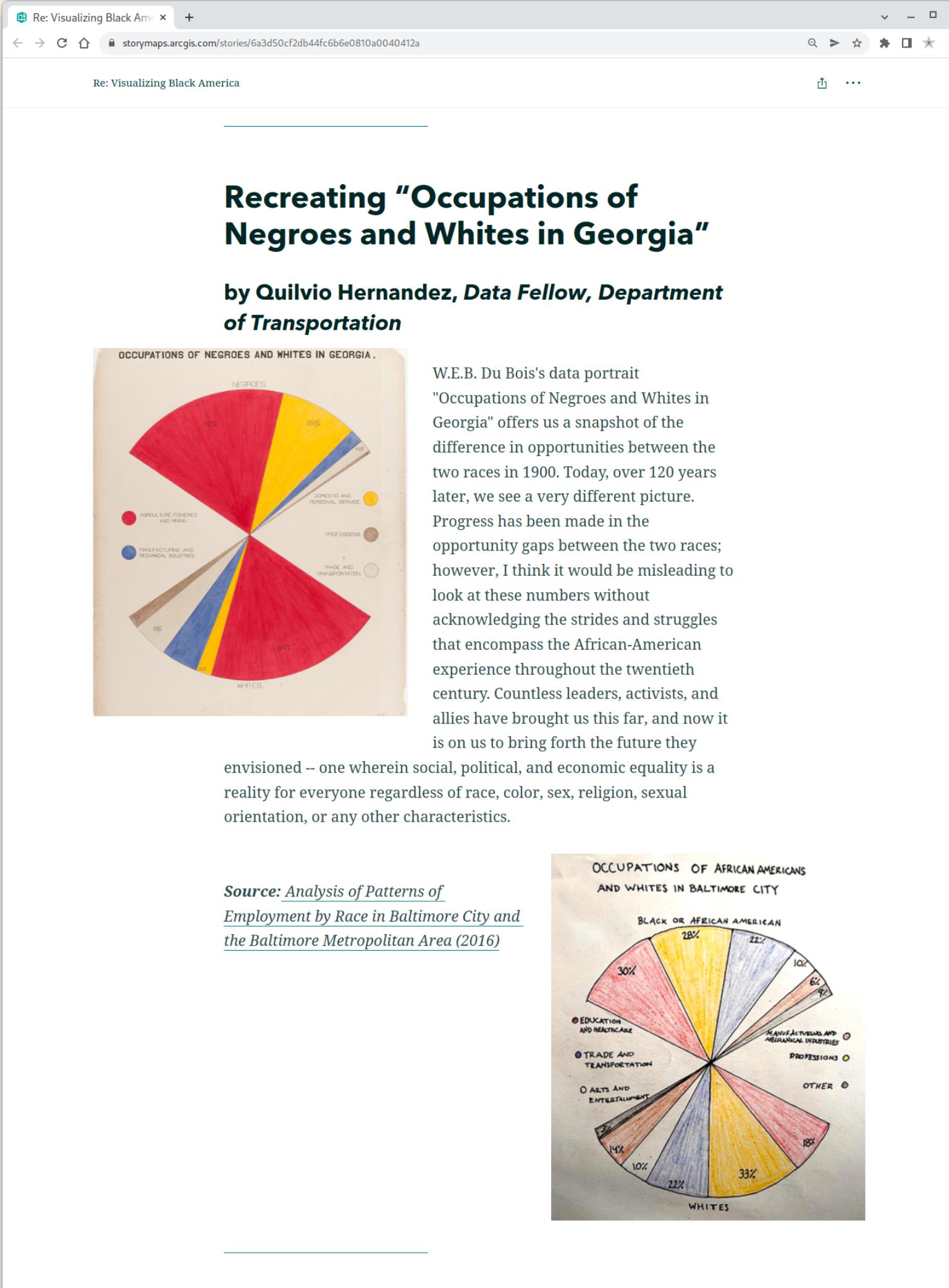
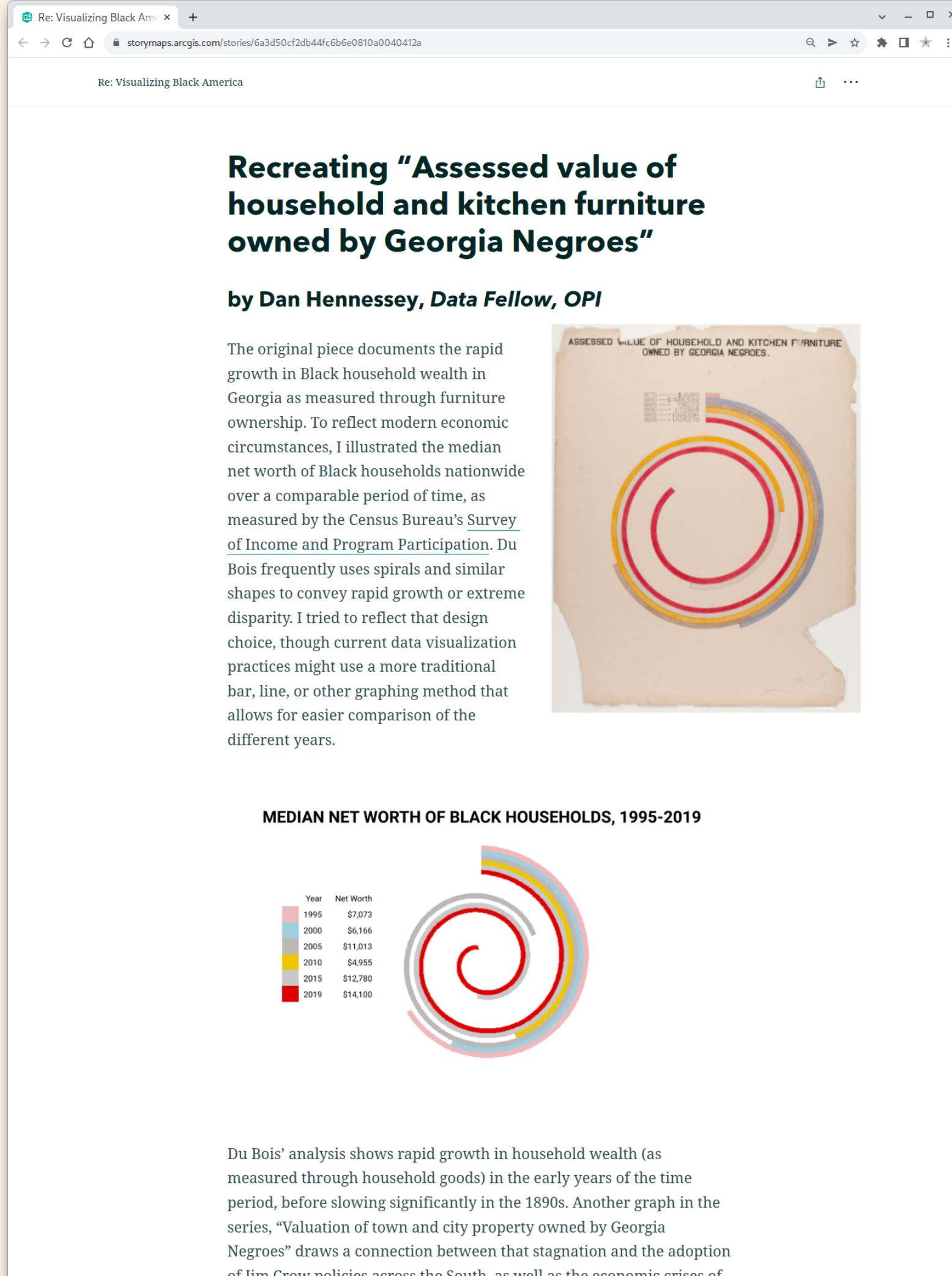
VALUATION OF TOWN AND CITY PROPERTY OWNED BY BLACK PEOPLE IN GEORGIA.

Portrait 4

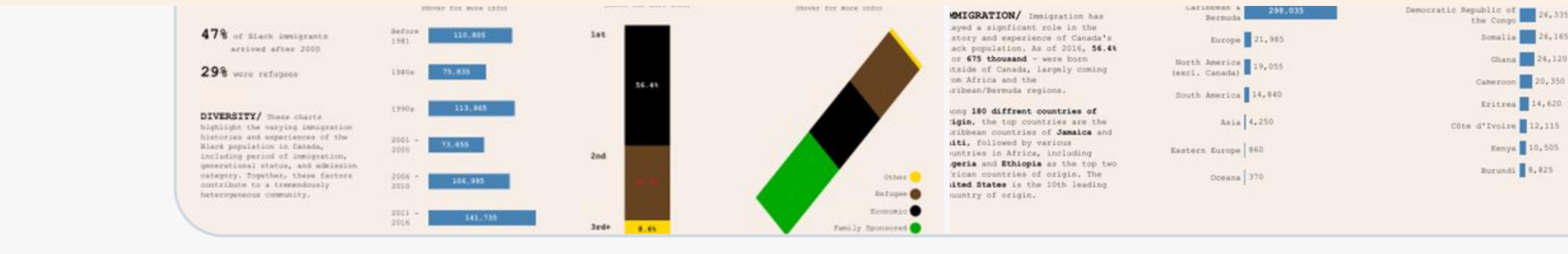
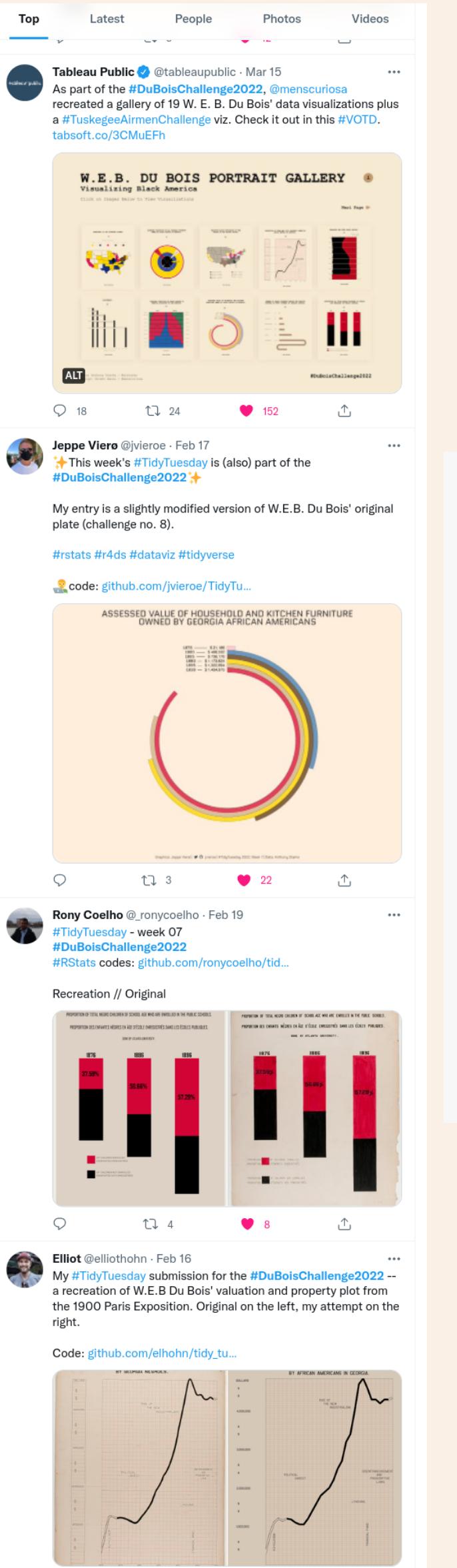
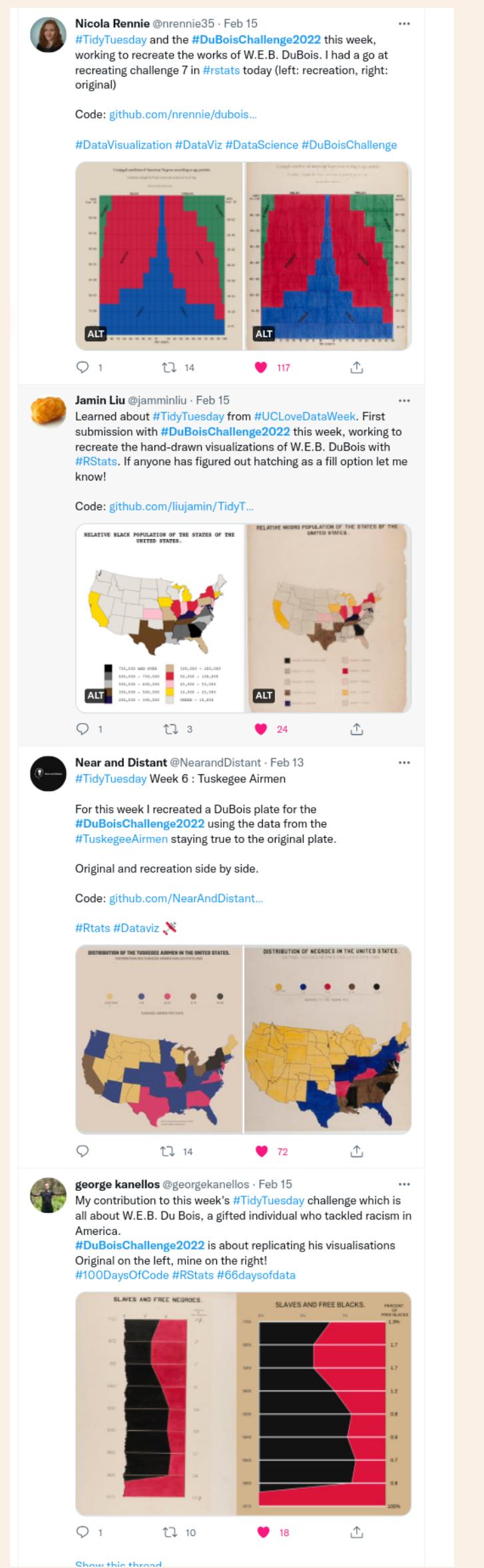
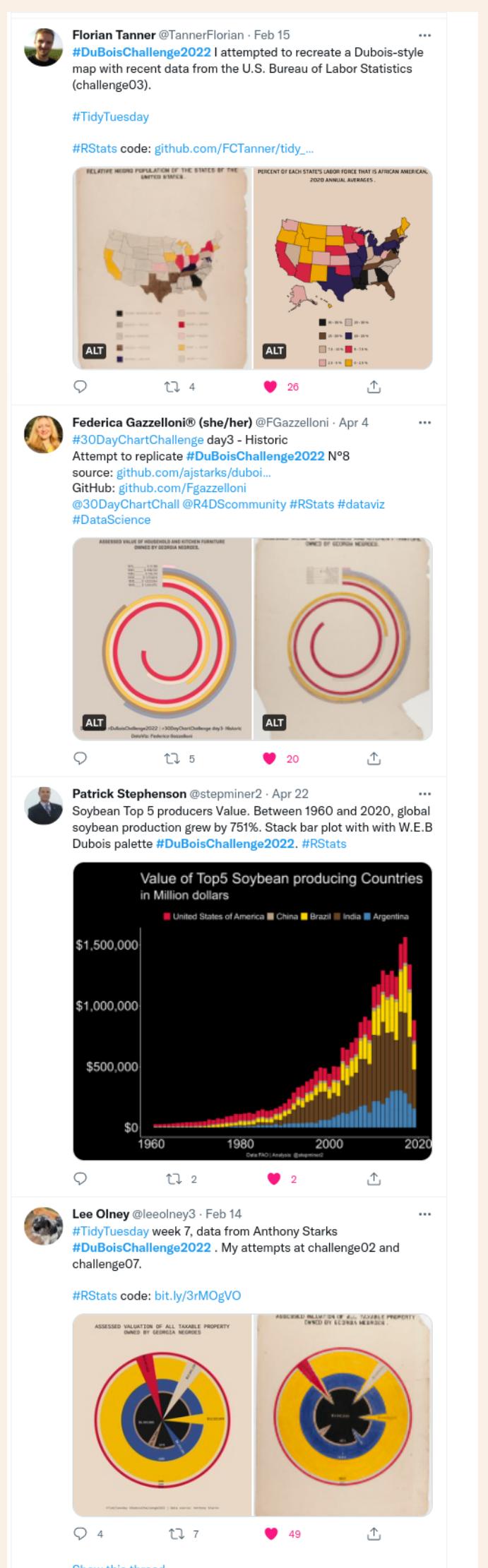
VIEW ORIGINAL



# Baltimore OPI (@baltopi)



# Like, Like, Like



10 29 216

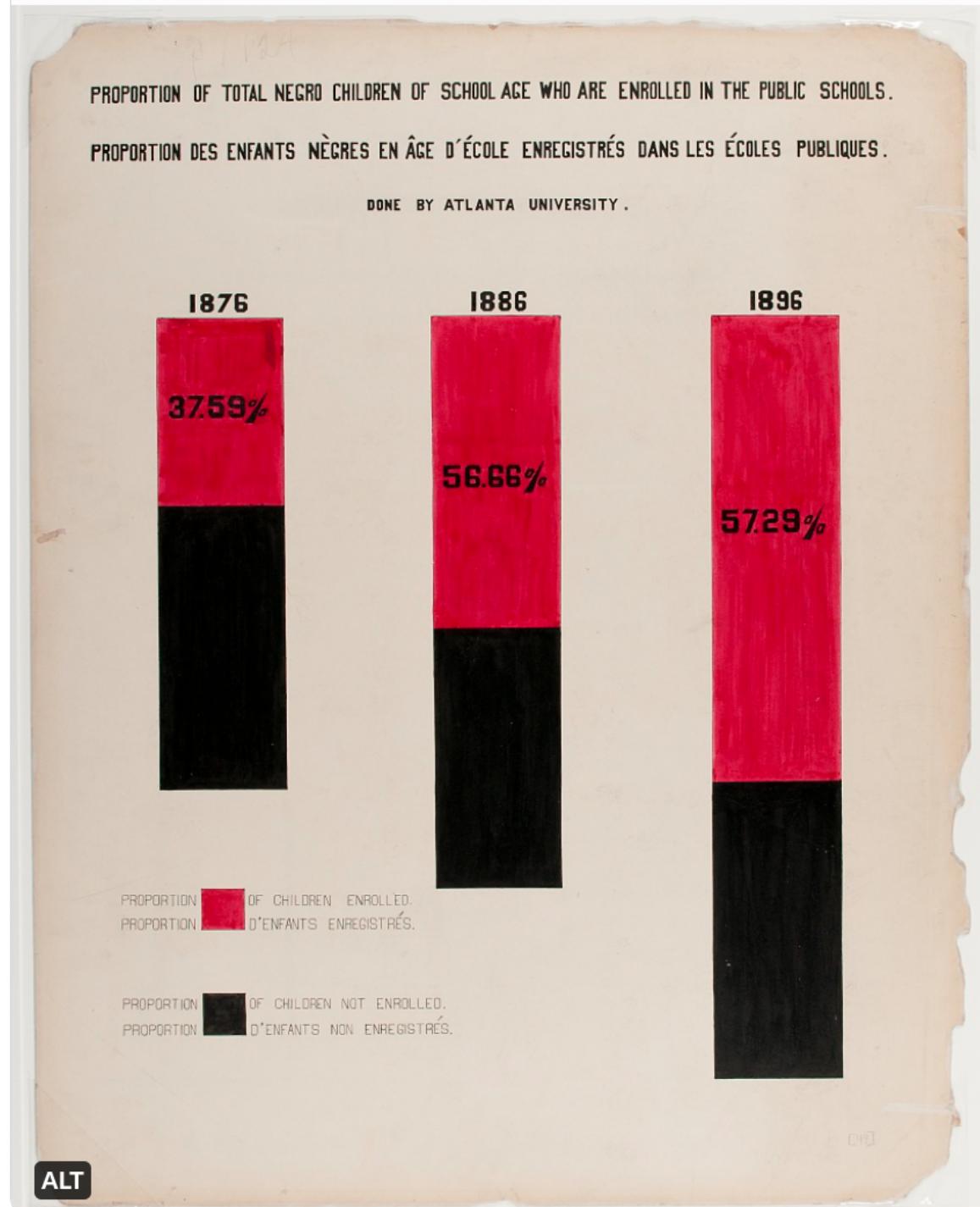
Show this thread

# Promotion

 **Allen Hillery**  
@AIDatavizguy

We have reached the final week of **#DuBoisChallenge2022**! Thanks for the enthusiasm and support. Participants took it to a new level this year. We're only expecting bigger things as we move forward! **#HappyMonday**

★ **Anthony Starks** @ajstarks · Apr 11  
The final week of the #DuBoisChallenge2022: A red/black color theme for this staggered, stacked bar chart, "Number Of Negro Students Taking The Various Courses Of Study Offered In Georgia Schools" shows a 20% increase of enrollment over 20 years.



PROPORTION OF TOTAL NEGRO CHILDREN OF SCHOOL AGE WHO ARE ENROLLED IN THE PUBLIC SCHOOLS.  
PROPORTION DES ENFANTS NÈGRES EN ÂGE D'ÉCOLE ENREGISTRÉS DANS LES ÉCOLES PUBLIQUES.  
DONNÉE PAR ATLANTA UNIVERSITY.

1876: 37.59%  
1886: 56.66%  
1896: 57.29%

PROPORTION [RED] OF CHILDREN ENROLLED.  
PROPORTION [BLACK] OF CHILDREN NOT ENROLLED.  
D'ENFANTS ENREGISTRÉS.  
D'ENFANTS NON ENREGISTRÉS.

ALT

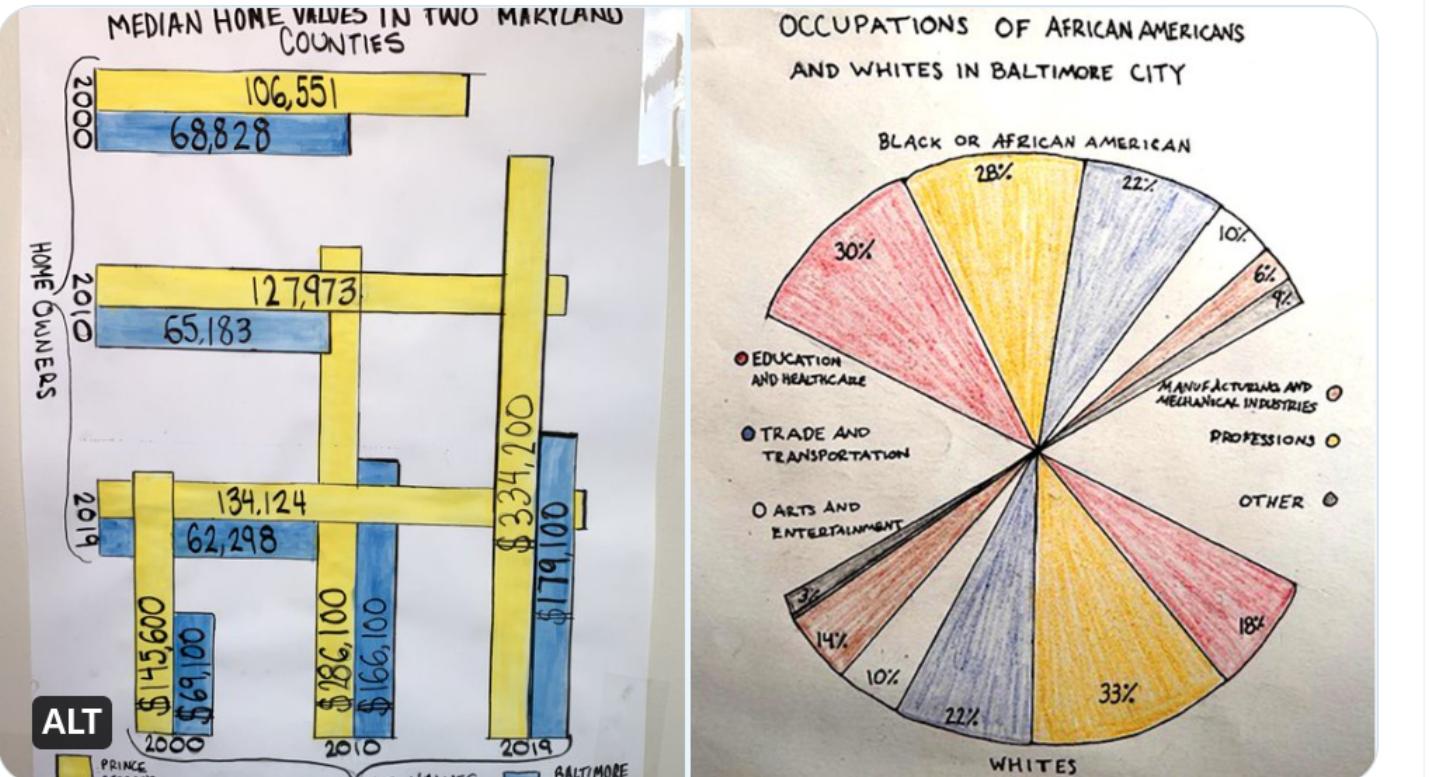
8:16 AM · Apr 11, 2022 · Twitter for Android

1 Retweet 10 Likes

↑ Allen Hillery Retweeted  
 **Anthony Starks**  
@ajstarks

Replying to @BaltOPI

Wonderful Du Bois re-creations with modern data. Be sure to check out the hand-drawn entries!



MEDIAN HOME VALUES IN TWO MARYLAND COUNTIES

County	Median Home Value
Prince George's	\$145,600
Baltimore	\$179,000
Alt	\$199,000
Montgomery	\$195,600
Howard	\$166,100
Montgomery	\$134,124
Howard	\$127,973
Montgomery	\$62,298
Howard	\$65,183
Montgomery	\$106,551
Howard	\$68,828

OCCUPATIONS OF AFRICAN AMERICANS AND WHITES IN BALTIMORE CITY

Occupation Group	African American (%)	White (%)
EDUCATION AND HEALTHCARE	30%	18%
TRADE AND TRANSPORTATION	22%	22%
ARTS AND ENTERTAINMENT	10%	10%
MANUFACTURING AND MECHANICAL INDUSTRIES	14%	14%
PROFESSIONS	6%	6%
OTHER	2%	2%

4:53 PM · Mar 17, 2022 · Twitter Web App

View Tweet analytics

1 Retweet 3 Likes

↑ Allen Hillery  
@AIDatavizguy

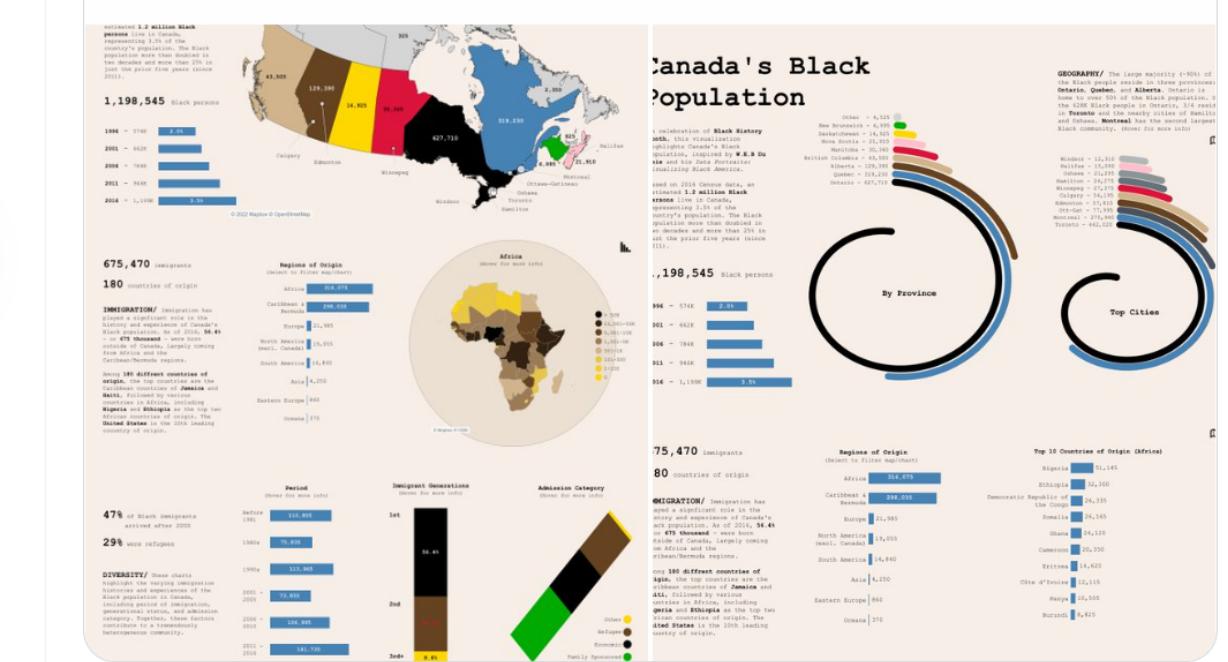
Great work by **@professorkao**! Love his **#DuBoisChallenge2022** submission highlighting the Black population in Canada. **@tableaupublic** **@tableau** **@DuBoisUMass**

↑ Dennis Kao @professorkao · Mar 12  
Here's my humble attempt at replicating & adapting the data viz stylings of W.E.B. Du Bois to look at Canada's Black population. Inspired by @menscuriosa's work. Feedback please!

Interactive viz: [tabsoft.co/3CDU5Zt](https://tabsoft.co/3CDU5Zt)

#DuBoisChallenge2022 #DiversityinData #BlackHistoryMonth 🍂

Show this thread



1:53 PM · Mar 12, 2022 · Twitter Web App

7 Likes

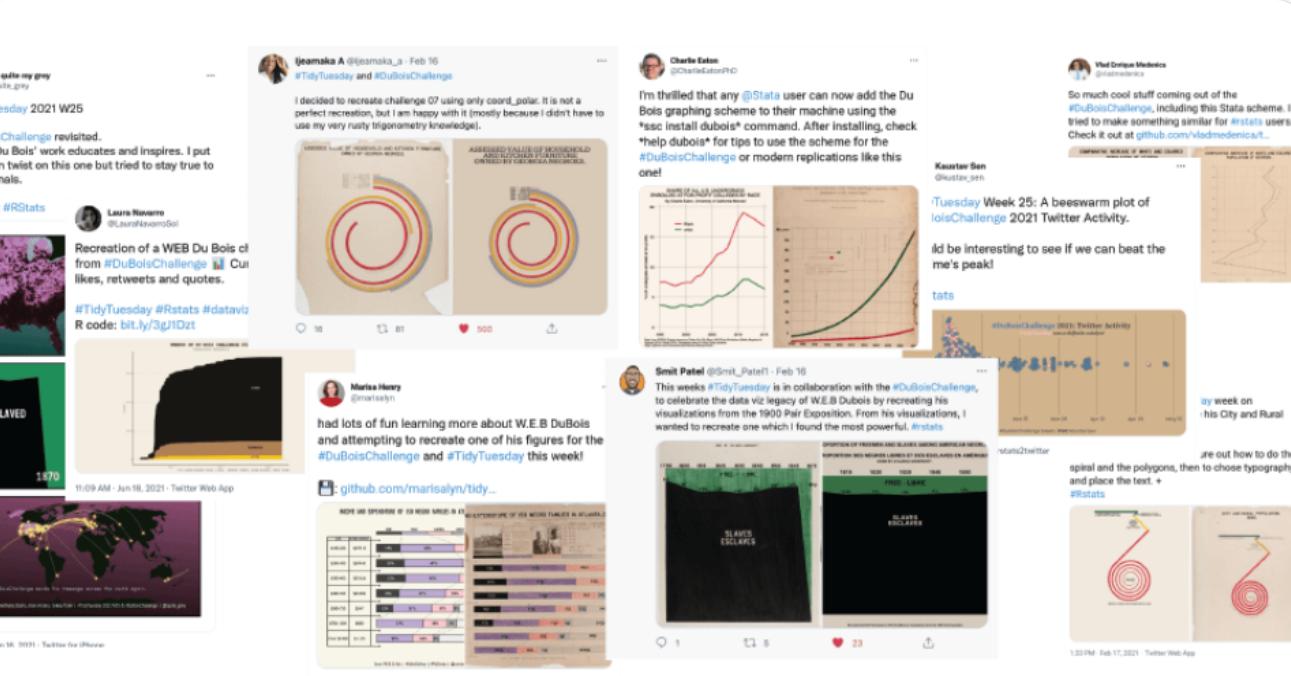
# Promotion from the community

 **Tom Mock**  
@thomas\_mock

Also consider using the W.E.B. DuBois style to pay homage to a great black data scientist!

Thank you to [@ajstarks](#) [@AIDatavizguy](#) and [@sqlsekou](#) for preparing the [#DuBoisChallenge2022](#) again this year!

Full details about past DuBois challenges:



[nightingaledvs.com](#)  
The #DuBois Challenge - Nightingale  
In February 2021, people on Twitter were challenged to re-create the historical data visualizations of W.E.B. Du Bois. The goal of the ...

6:32 PM · Feb 7, 2022 · Twitter Web App

1 Retweet 4 Likes

...

 **Tom Mock** @thomas\_mock · Feb 7  
Replying to @thomas\_mock  
For 2022, the [#DuBoisChallenge2022](#) hashtag is the right one to use!

> 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.

Full details: [github.com/ajstarks/duboi...](#)

1 Comment 1 Like 1 Share

 **Tom Mock** @thomas\_mock · Feb 7  
Another great thread with overlapping details from [@DiversityinData](#) :

 **Diversity in Data** @DiversityinData · Feb 6  
This month #DiversityinData is collabing with @AIDatavizguy @ajstarks and @sqlsekou and uplifting some of the great challenges happening in the community. Check out the thread below for more info on the #DuBoisChallenge and the #TuskegeeAirmenChallenge and getting involved!  
[Show this thread](#)

1 Comment 2 Likes 1 Share

 **Allen Hillary** @AIDatavizguy · Feb 8  
Replying to @thomas\_mock @ajstarks and @sqlsekou  
Thanks for all of the support Tom!!

1 Comment 1 Like 1 Share

# The dashboard

#DuBoisChallenge 2022 Twitter Metrics by [Sekou Tyler](#)

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.  
This dashboard takes a look at the twitter usage of the challenge.

## Total Tweets

768

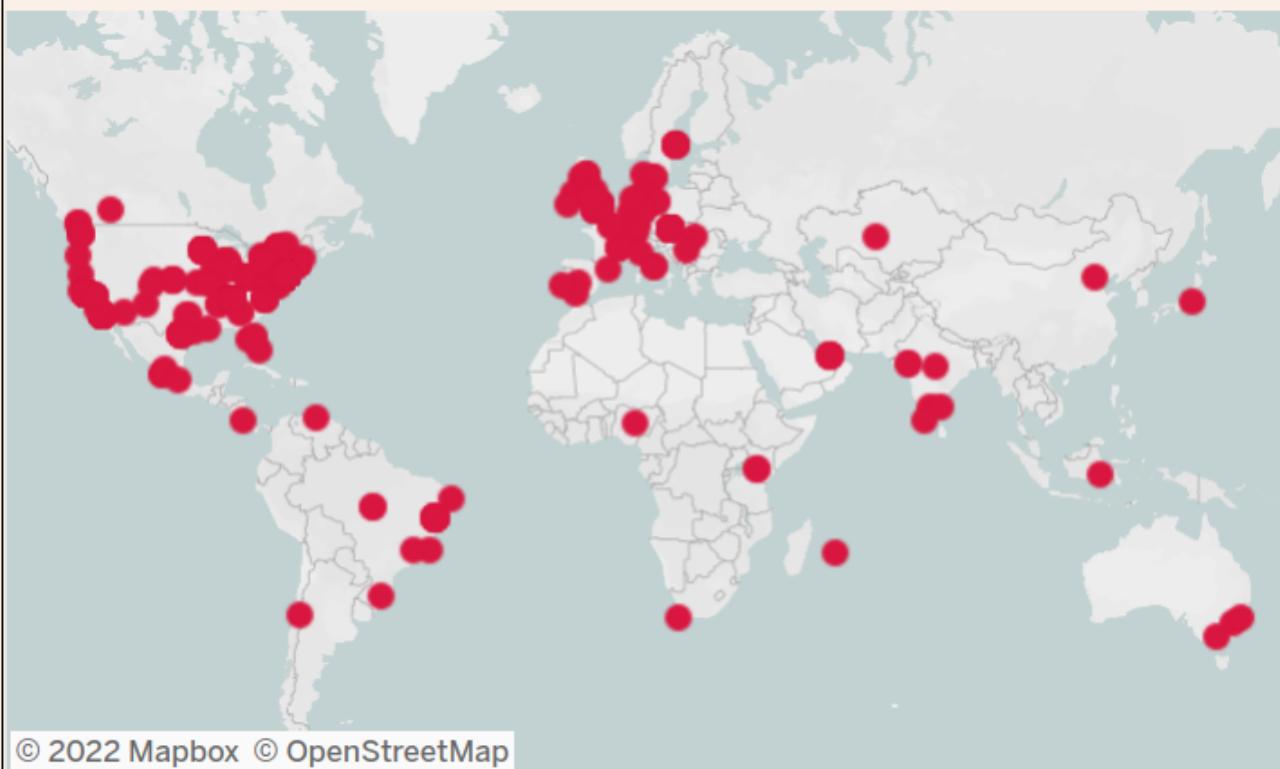
## Total Unique Users

270

## Date with the most activity

February 16, 2021 (77 Tweets)

### Twitter Activity



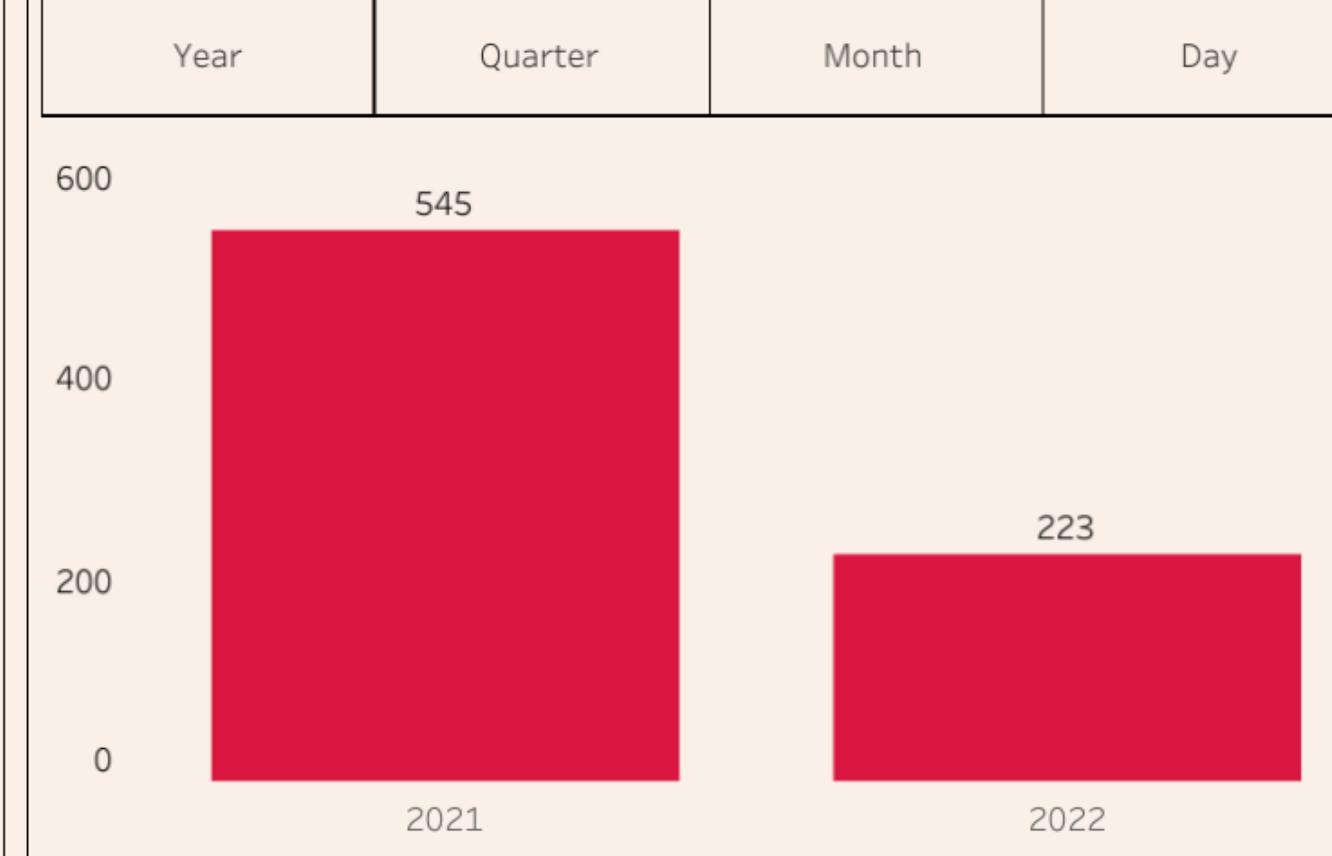
© 2022 Mapbox © OpenStreetMap

### Top 10 Users with the Highest Follower Count

\* Verified Users

User Handle	Follower Count
@FryRsquared	183,138
@AlbertoCairo	63,951
@tableaupublic	56,969
@ftdata	48,861
@Sherrell_Dorsey	30,740
@mioana	30,726
@WeAreRLadies	27,725
@familyunequal	26,235
@R4DScommunity	19,418
@EliasJMcLellan	18,581

### Yearly Activity Comparison



Year	Tweets
2021	545
2022	223

### Timeline of Tweets

Datetime	Twitter Handle	Content	Hyperlink	Like Count	Retweet Count	Quote Count
5/2/2022 1:10:22 PM	@AlDatavizguy	@evergreendata Hi Stephanie! Echoing @IcaroBSC with #TidyTuesday. I collaborate with them on #DuB..	<a href="#">🔗</a>	5	1	0
5/2/2022 12:49:52 PM	@IcaroBSC	@evergreendata Yes! There are some incredibly creative people out there. I forgot to mention the #DuBo..	<a href="#">🔗</a>	1	0	0
4/28/2022 8:46:50 PM	@ajstarks	Apple (\$AAPL) 2Q Sales by Category using a Du Bois-style fan chart #DuboisChallenge2022 <a href="https://t.co/..">https://t.co/..</a>	<a href="#">🔗</a>	15	1	0
4/22/2022 4:05:10 AM	@stepminer2	Soybean Top 5 producers Value. Between 1960 and 2020, global soybean production grew by 751%. Stac..	<a href="#">🔗</a>	2	2	0
4/19/2022 11:13:20 PM	@stepminer2	I revisited an old plot, this time with W.E.B Dubois palette #DuboisChallenge2022 #RStats <a href="https://t.co/..">https://t.co/..</a>	<a href="#">🔗</a>	4	2	0
4/19/2022 3:40:42 PM	@IcaroBSC	#30DayChartChallenge and #DuboisChallenge2022   #Day17   Co..	<a href="#">🔗</a>			
4/18/2022 8:19:53 AM	@stepminer2	@Jackeulade10 I revisited the plot, this time with W.E.B Dubois ..	<a href="#">🔗</a>			
4/17/2022 11:31:09 PM	@stepminer2	I am kind of being in love with circular plots. This one is elegant, ..	<a href="#">🔗</a>			
4/13/2022 7:57:38 PM	@bkornell	Final week of #DuboisChallenge2022, recreating W.E.B. Du Bois'	<a href="#">🔗</a>			

Follow + a b | e a u

[🔗](#): <https://t.co/fuWiunzTwz> 1/3 <https://t.co/oBI0pnRcDX>

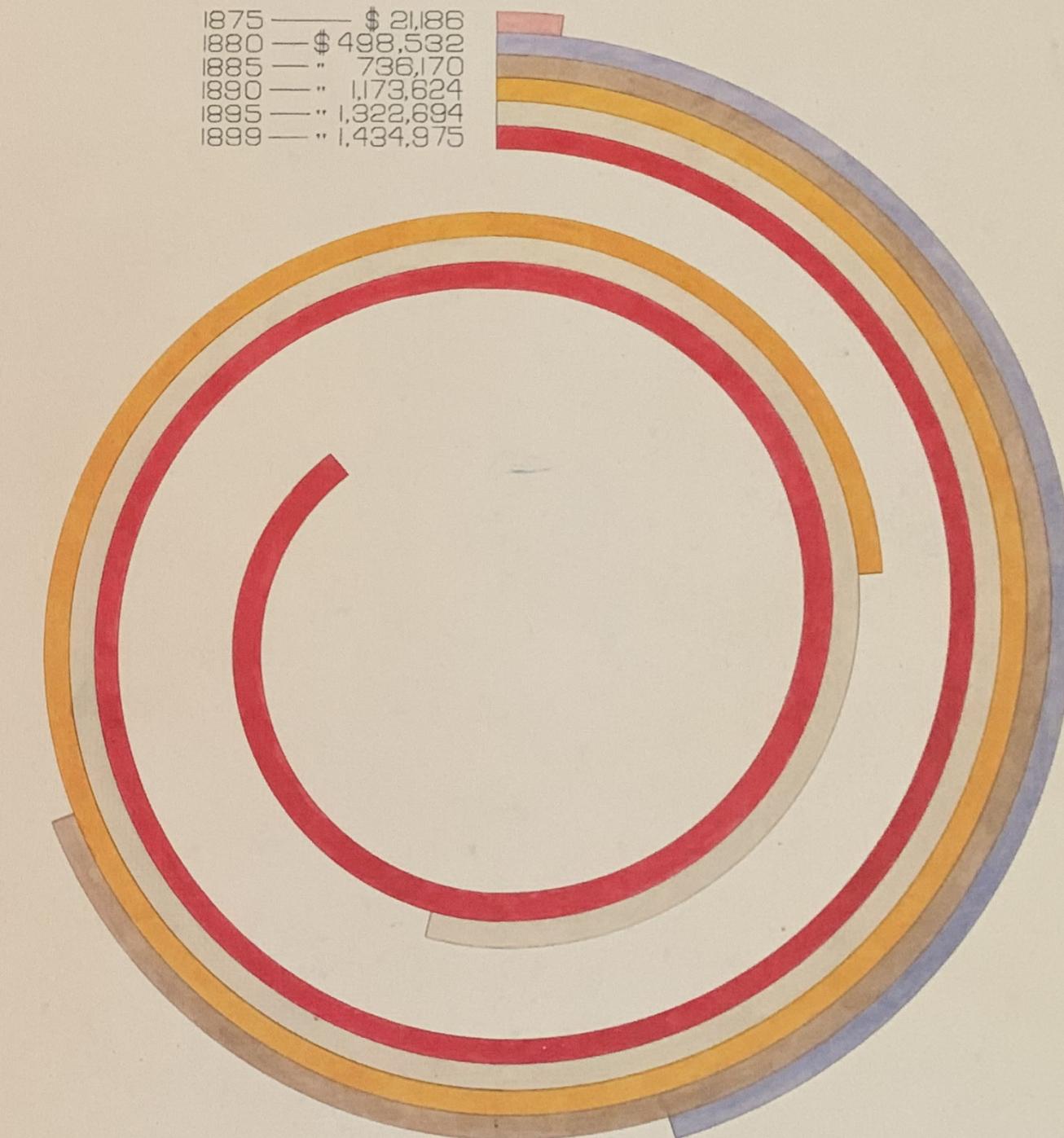
# Re-Creating the Du Bois Data Portraits



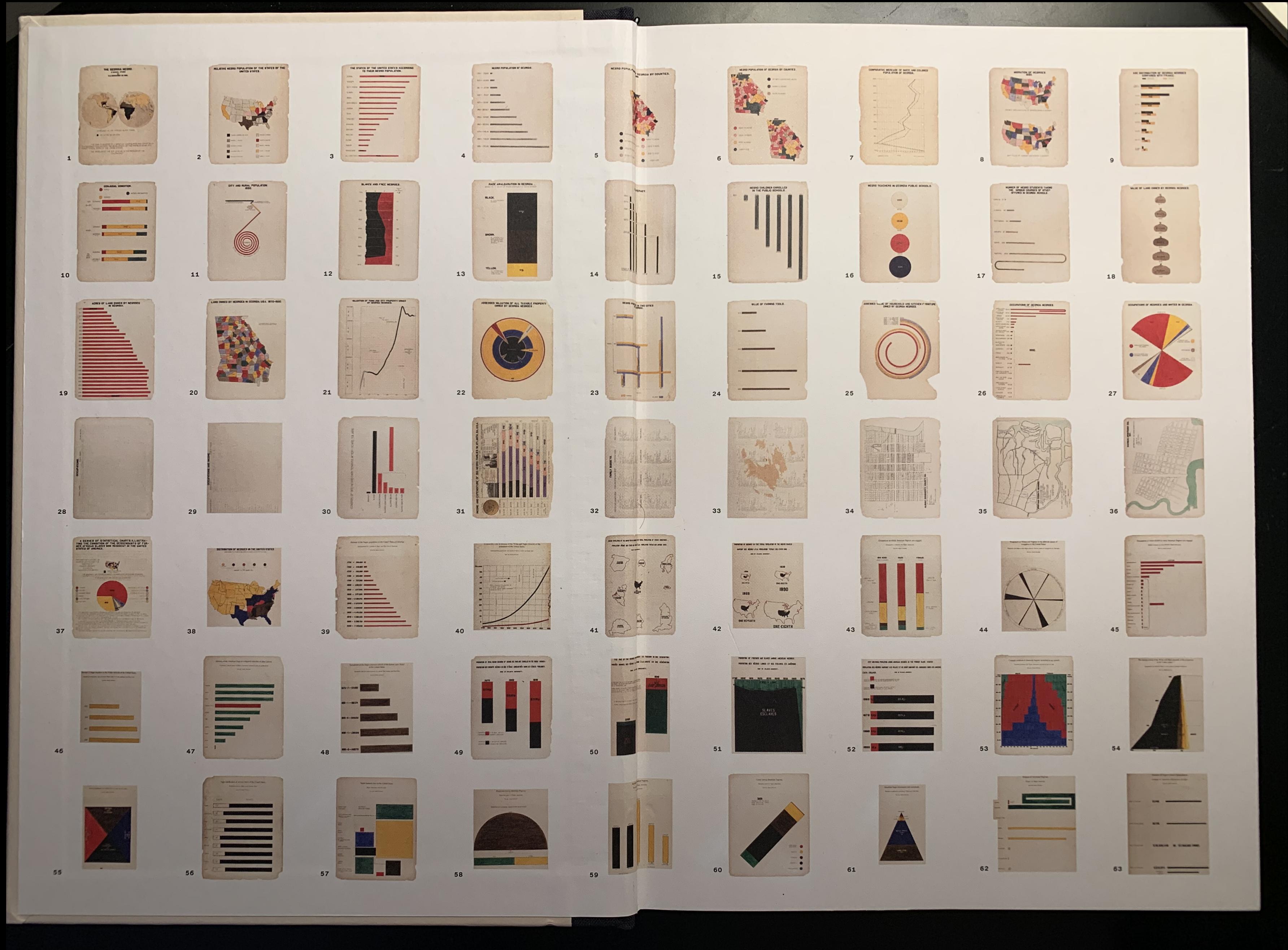
**W. E. B. Du Bois's Data Portraits**  
**Visualizing Black America**

THE COLOR LINE AT THE TURN OF THE TWENTIETH CENTURY

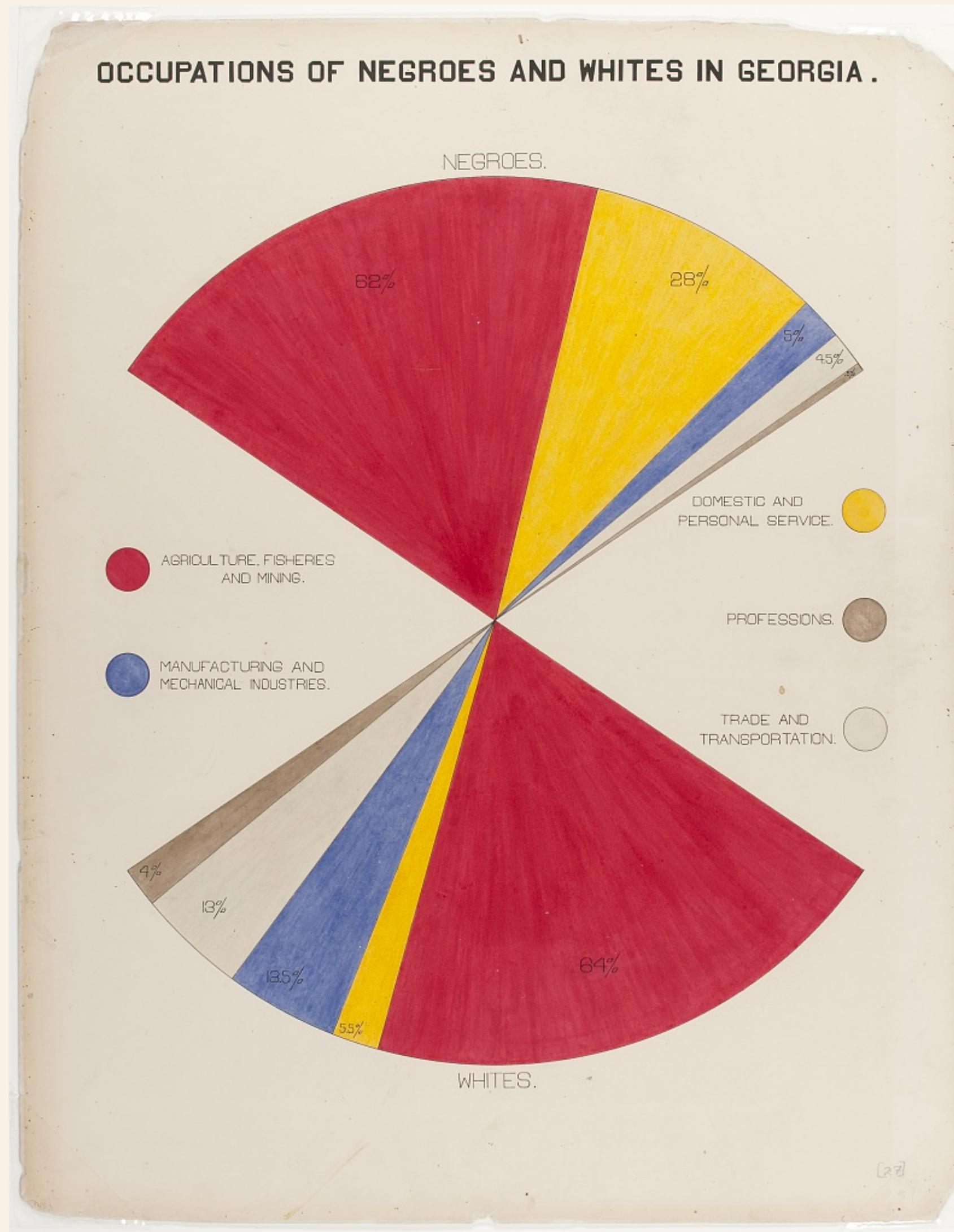
1875 —— \$ 21,86  
1880 —— \$ 498,582  
1885 —— " 786,170  
1890 —— " 1,173,624  
1895 —— " 1,322,894  
1899 —— " 1,434,975



WHITNEY BATTLE-BAPTISTE and BRITT RUSERT, editors

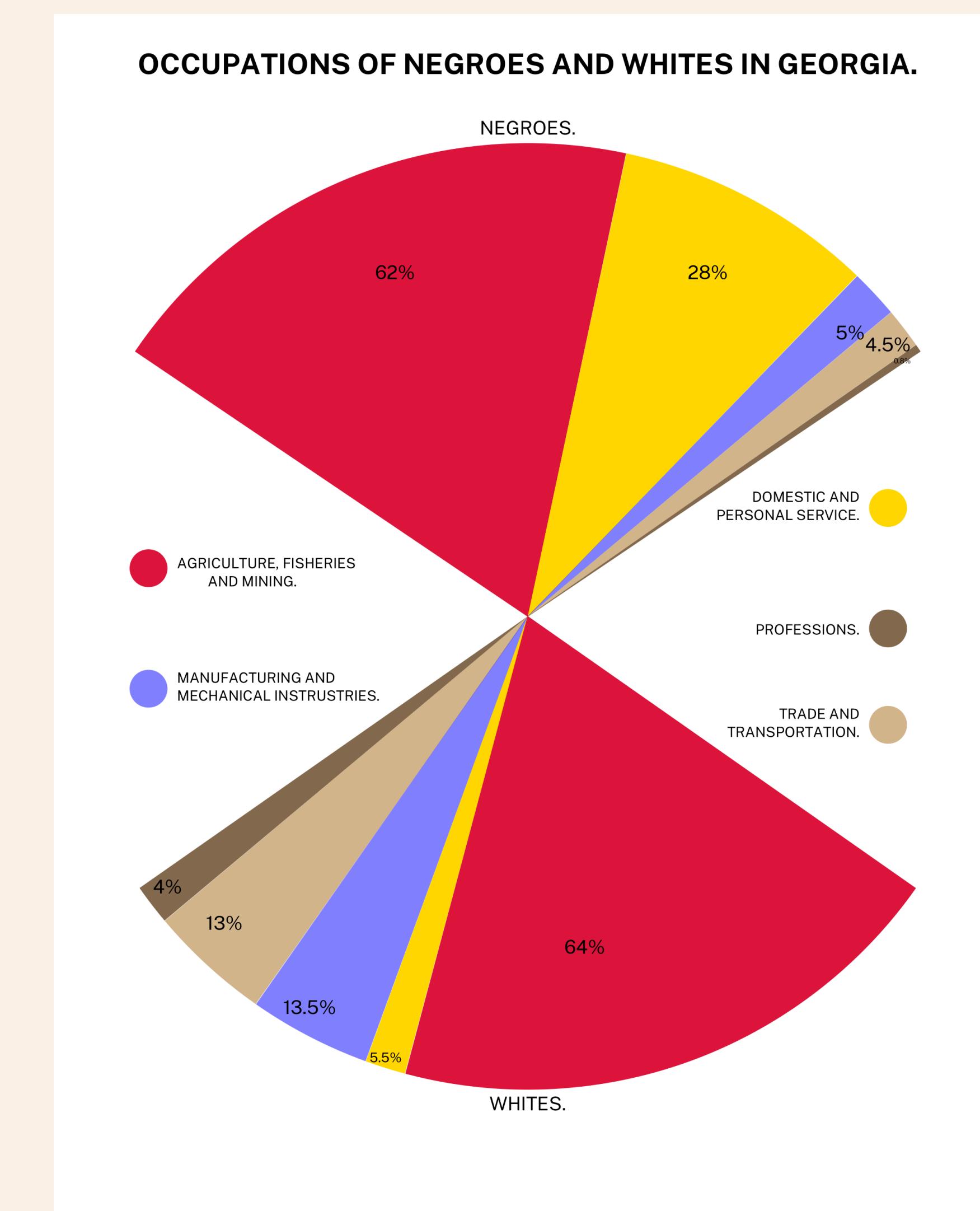


# Pen, Ink, Watercolor, Paper, Expos

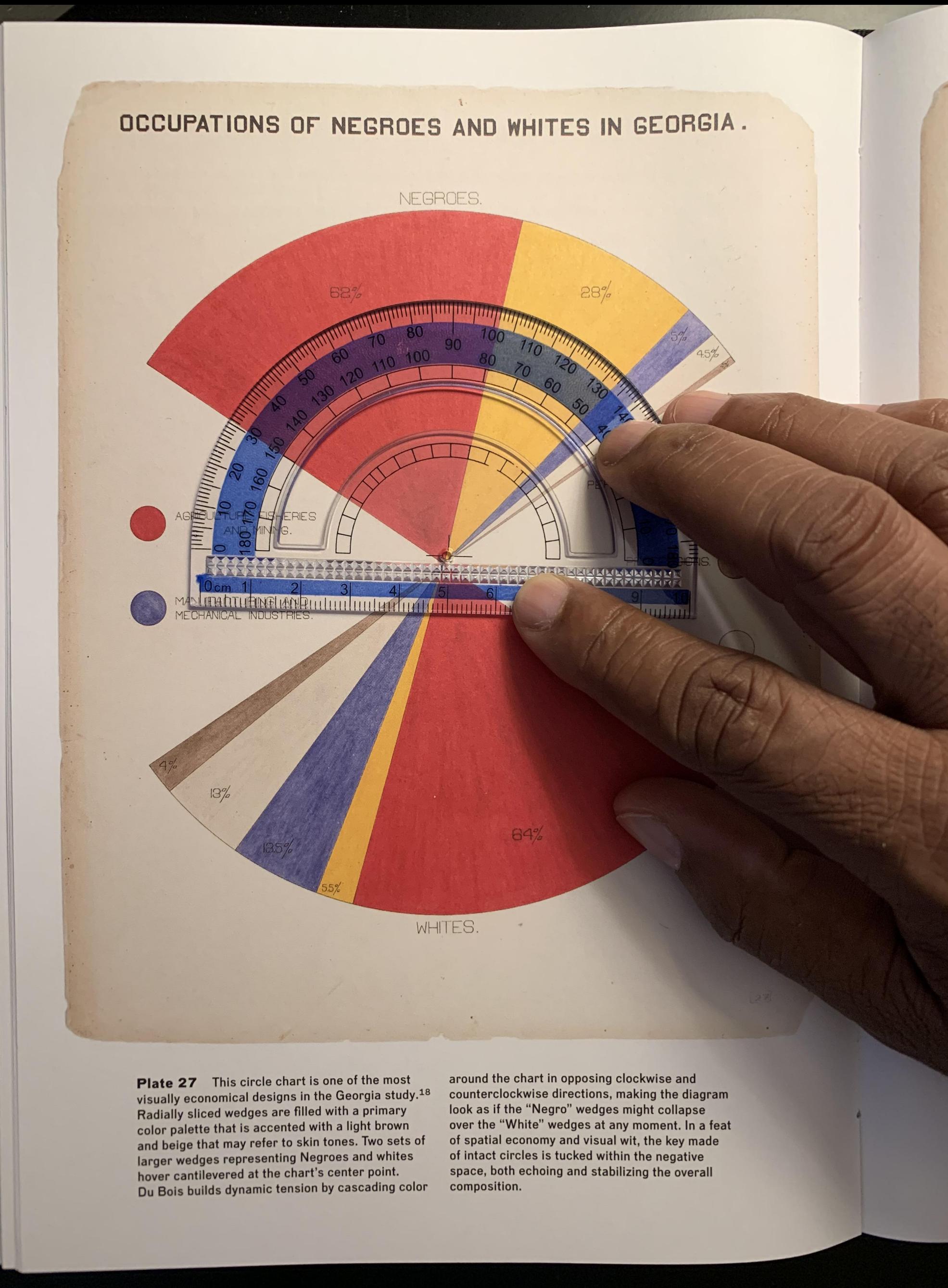
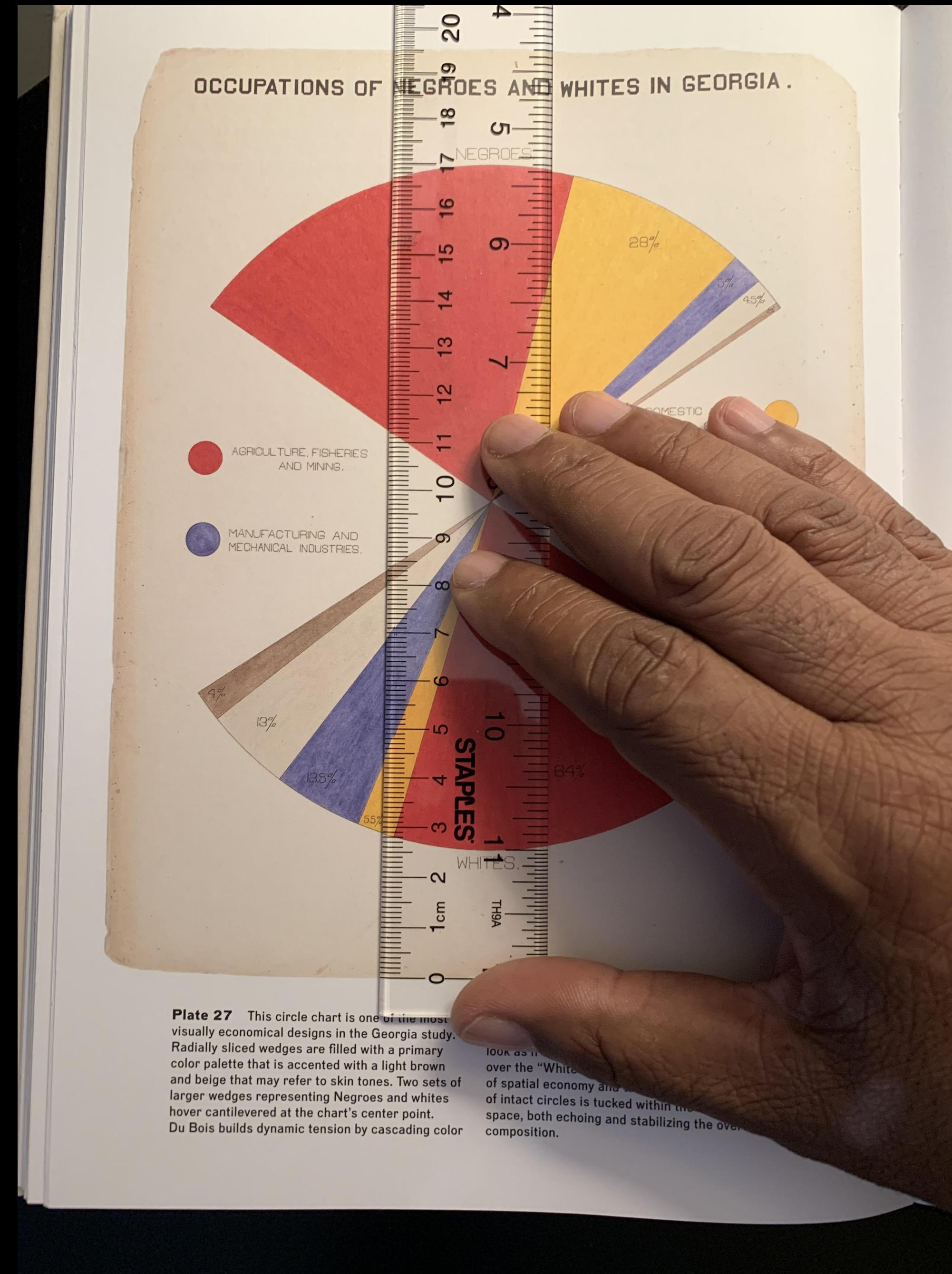


1900

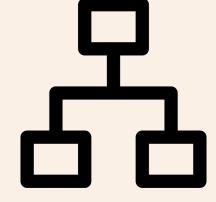
# Scripting, Digital Fonts, PDF, Internet



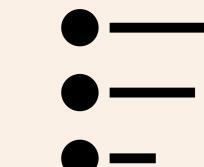
2019



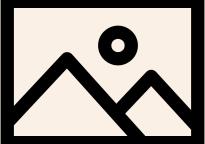
# decksh

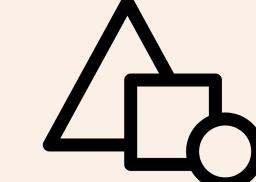
 Structure

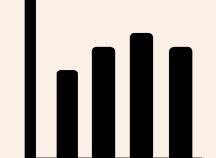
 Text

 Lists

 Arrows

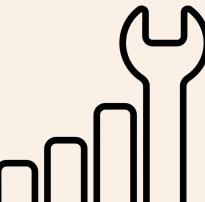
 Images

 Graphics

 Charts

 Loops

 Data

 Utility

# Percent Grid

90

80

70

60

50

40

30

20

10

10

20

30

40

50

60

70

80

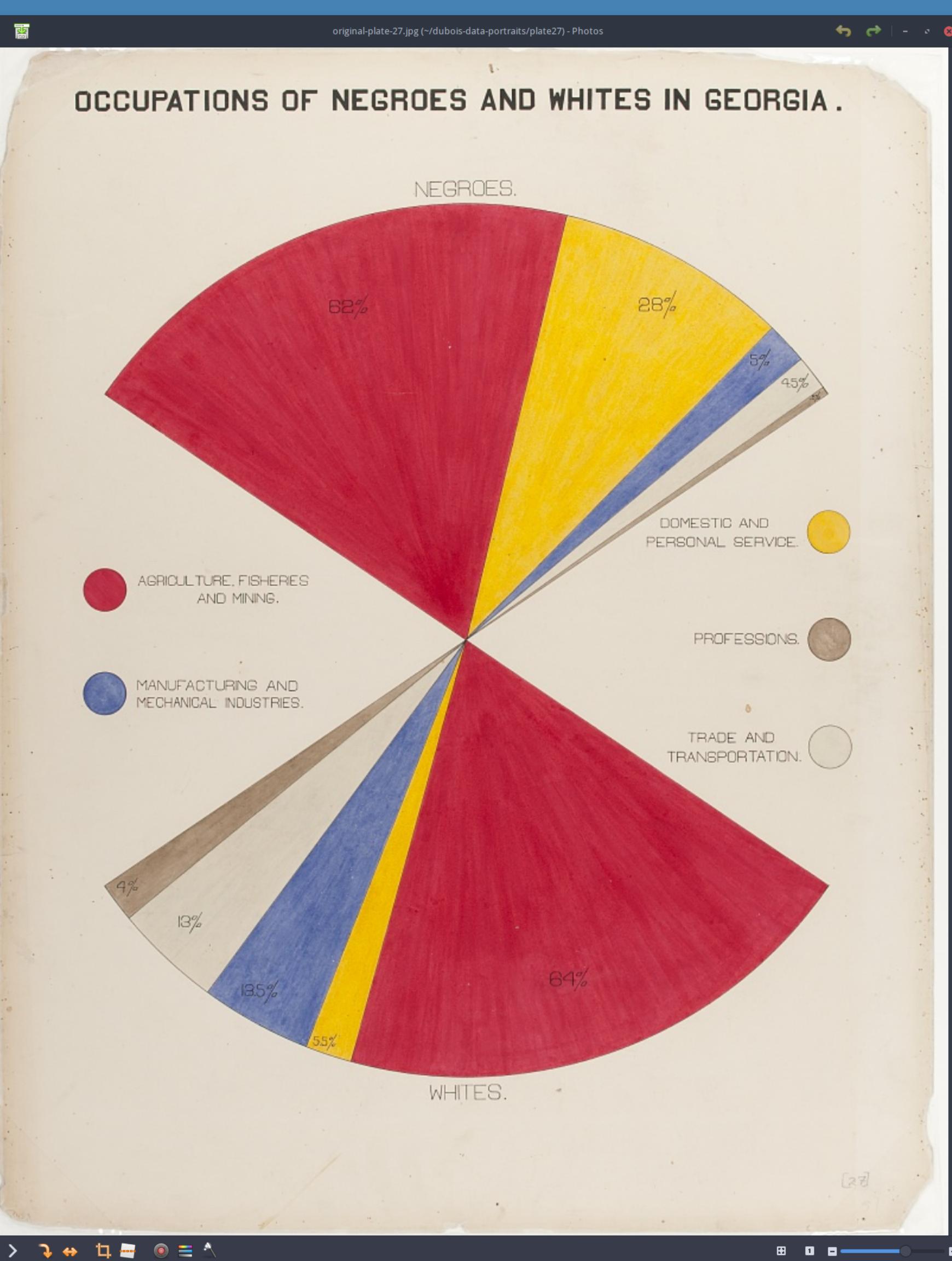
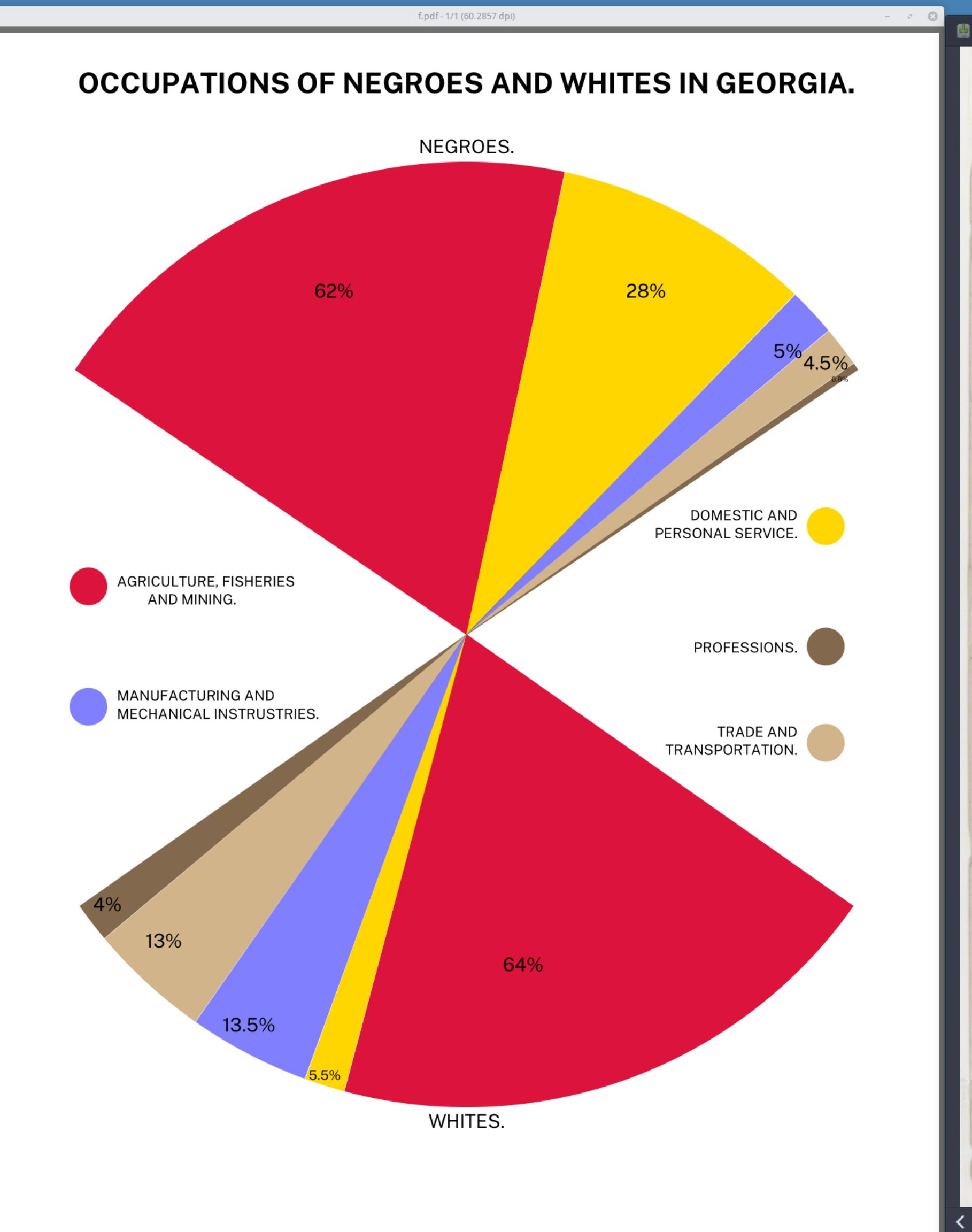
90

# 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

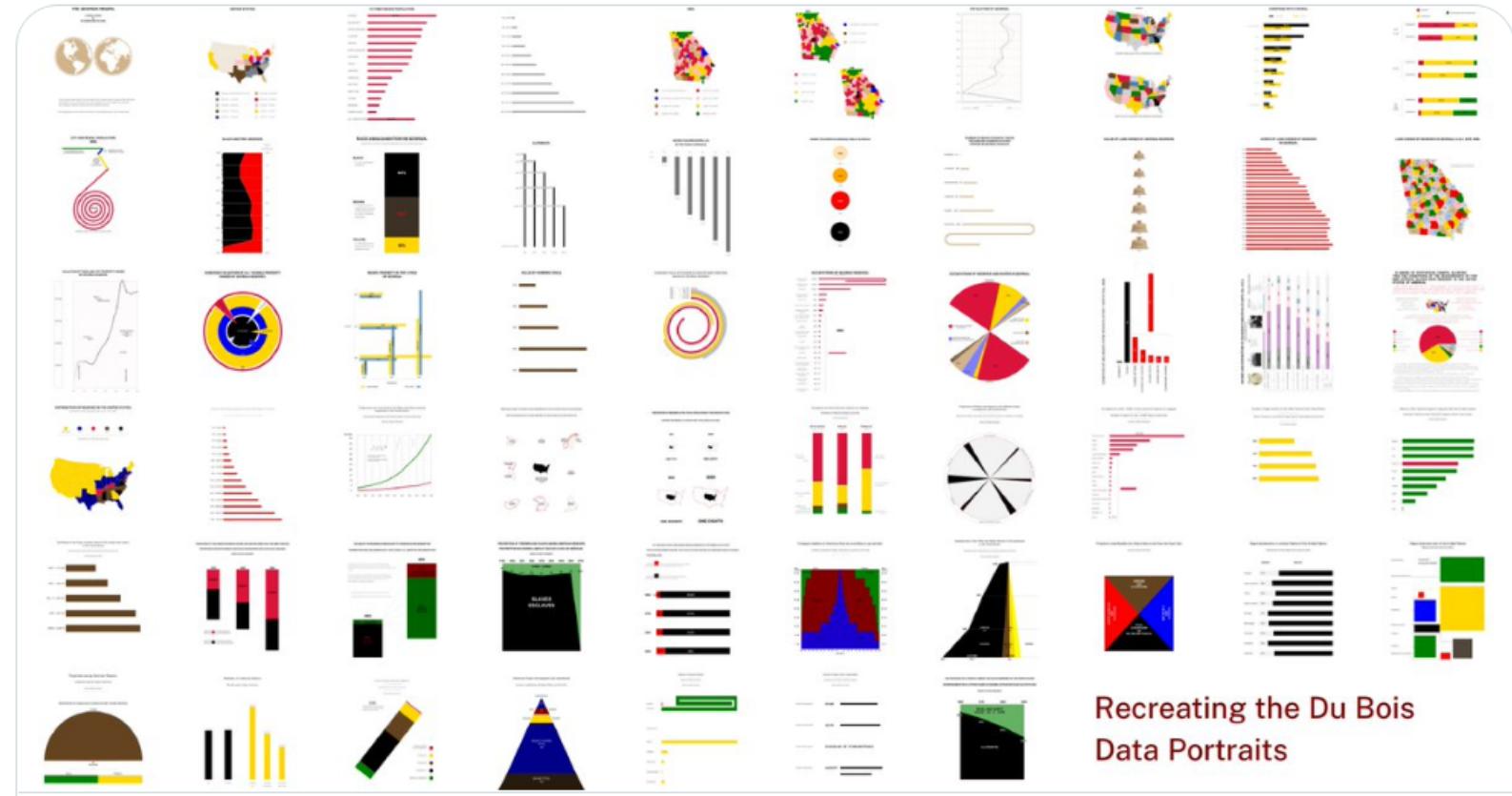
To customize your presentation URL, upgrade to PRO.

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

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# Publishing

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**Upload a new deck**

Your deck has been processed  
1 slides created

**Name**  
**Human Freedom (remix)**

**Description**  
A re-mix of a visualization from [@gsutters](#) on the Human Freedom Index (original is here): <https://behance.net/gallery/136022015/The-Human-Freedom-Index-2021-meets-das-Bauhaus>

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

Custom URL [Upgrade](#)

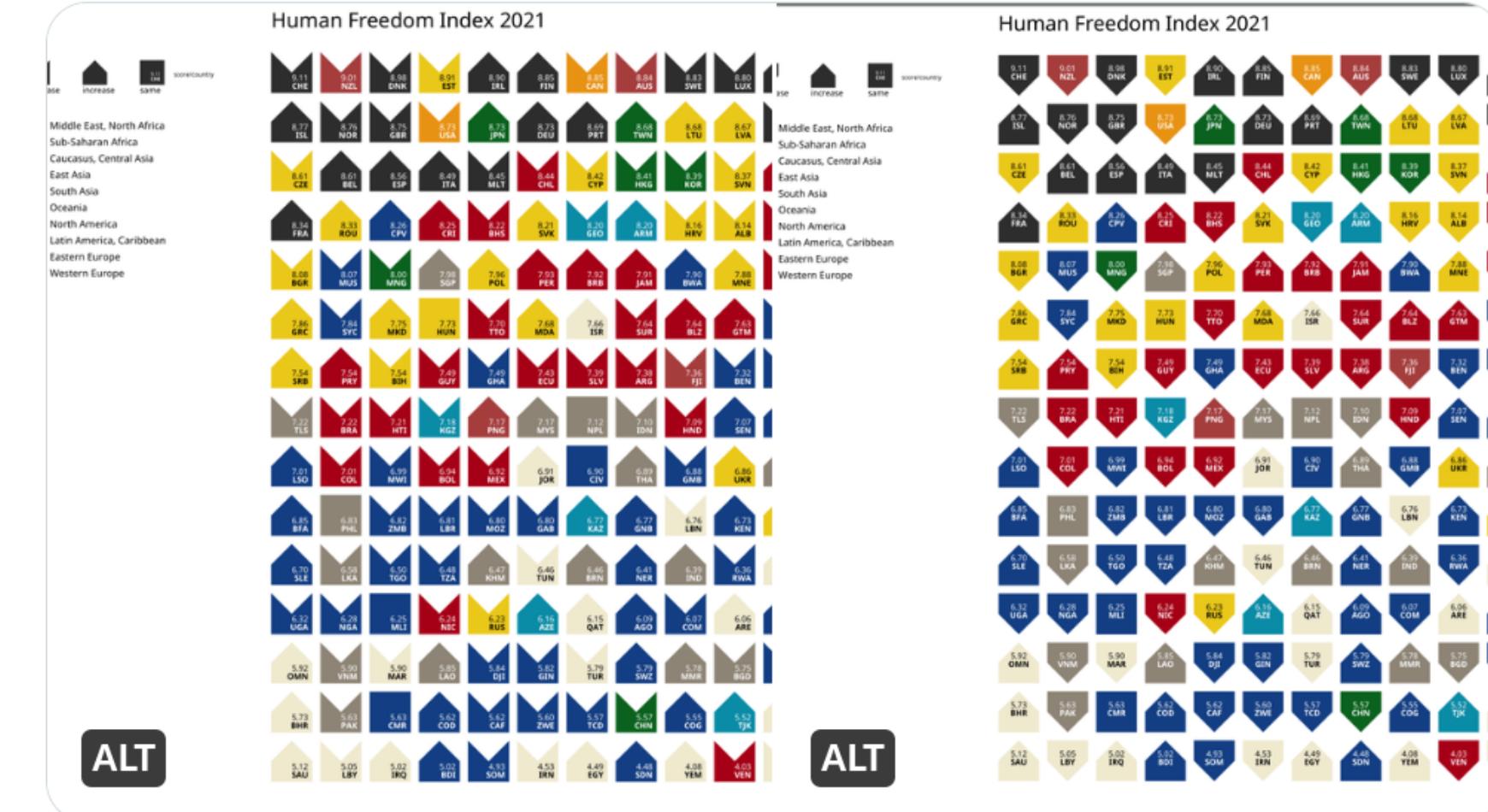
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**Save this deck**

Need a hand?

Anthony Starks  
@ajstarks

Here are two variations of a re-mix of a visualization from [@gsutters](#) on the Human Freedom Index (original is here): [behance.net/gallery/136022...](https://behance.net/gallery/136022...)



Human Freedom Index 2021

Human Freedom Index 2021

4:11 PM · Apr 22, 2022 · Twitter Web App

View Tweet analytics

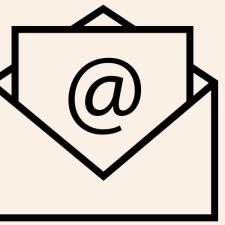
1 Retweet 5 Likes

# Links and Resources

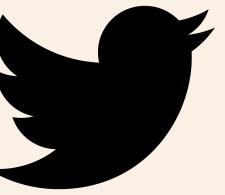
Challenge Repo	<a href="https://github.com/ajstarks/dubois-data-portraits/tree/master/challenge/2022#readme">https://github.com/ajstarks/dubois-data-portraits/tree/master/challenge/2022#readme</a>
Twitter Hashtag	<a href="https://twitter.com/search?q=%23DuBoisChallenge2022&amp;src=typed_query&amp;f=top">https://twitter.com/search?q=%23DuBoisChallenge2022&amp;src=typed_query&amp;f=top</a>
Nightingale Article	<a href="https://nightingaledvs.com/the-dubois-challenge/">https://nightingaledvs.com/the-dubois-challenge/</a>
Du Bois Data Portraits Book	<a href="https://www.amazon.com/W-Boiss-Data-Portraits-Visualizing/dp/1616897066">https://www.amazon.com/W-Boiss-Data-Portraits-Visualizing/dp/1616897066</a>
LoC Collection	<a href="https://www.loc.gov/collections/african-american-photographs-1900-paris-exposition">https://www.loc.gov/collections/african-american-photographs-1900-paris-exposition</a>

# Anthony J. Starks

## Art + Code



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



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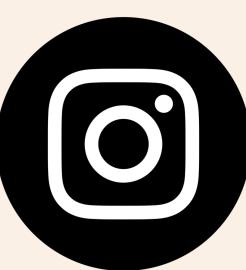
[github.com/ajstarks](https://github.com/ajstarks)



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



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



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