Recreating the DuBois Data Portraits

Atlanta University Debating Team, c. 1900

Women seated on steps of building at Atlanta University c. 1900

W.E.B. DuBois in Paris 1900

Exposition of the American Negro, Paris, 1900

Historical Context

"Black America" Fair

1895

Phila. Negro begins

1897

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

1898

The expert who is helping the railway commission to arrive at the value of the existing franchises.

RAGING GEORGIA MOBS LYNCH THREE NEGROES

Sam Hose, Preacher Strickland and Albert Sewell Met Horrible Deaths Near Palmetto.

The First Was Burned at the Stake and Cut to Pieces, the Second Mercilessly Hacked and Hanged and the Third

The Whole State Is in a Ferment, Public Sentiment Justifies the Horrors and

Lynchings Peak

1899

Paris Exposition

1900

We are here

This is who we are

This is how far we have come

EXPOSITION DES NÈGRES D'AMERIQUE
EXPOSITION UNIVERSELLE
PARIS 1900
GRAND PRIX

EXPOSITION DES NÈGRES D'AMERIQUE
EXPOSITION UNIVERSELLE
PARIS 1900
GRAND PRIX
THE GEORGIA NEGRO.
A SERIES OF STATISTICAL CHARTS, ILLUSTRA TIVE OF THE CONDITION OF THE DESCENDANTS OF FOR MER AFRICAN SLAVES NOW RESIDENT IN THE UNITED STATES OF AMERICA.

22”

28”

A SERIES OF STATISTICAL CHARTS, ILLUSTRATING THE CONDITION OF THE DESCENDANTS OF FORMER AFRICAN SLAVES NOW RESIDENT IN THE UNITED STATES OF AMERICA.
UNE SÉRIE DE CARTES ET DIAGRAMMES STATISTIQUES MONTRANT LA CONDITION PRÉSENTE DES DESCENDANTS DES ANCIENS ESCLAVES AFRICAINS ACTUELLEMENT ÉTABLIS DANS LES ETATS UNIS D'AMÉRIQUE.
PREPARED AND EXECUTED BY NEGRO STUDENTS UNDER THE DIRECTION OF ATLANTA UNIVERSITY, ATLANTA, GA., UNITED STATES OF AMERICA.
PRÉPARÉES ET EXECUTÉES PAR DES ÉTUDIANTS NÈGRES SOUS LA DIRECTION DE L'UNIVERSITÉ D'ATLANTA, ETAT DE GÉORGIE, ETATS UNIS D'AMERIQUE.
CENTRE OF NEGRO POPULATION.
ATLANTA UNIVERSITY.
THE UNIVERSITY WAS FOUNDED IN 1867. IT HAS INSTRUCTED 6000 NEGRO STUDENTS.
L'UNIVERSITÉ A ÉTÉ FONDÉE EN 1867. ELLE A DONNÉ L'INSTRUCTION A 6000 ÉTUDIANTS NÈGRES.
IT HAS GRADUATED 330 NEGROES AMONG WHOM ARE:
ELLE A DÉLIVRÉ DES DIPLOMES A 330 NÈGRES DONT:
TEACHERS
MINISTERS
GOVERNMENT SERVICE
BUSINESS
OTHER PROFESSIONS
HOUSE WIVES
58.5%
28.1%
4.3%
2.1%
3.2%
3.8%
PROFESSEURS ET INSTITUTEURS
MINISTRES DE L'EVANGILE
EMPLOYÉS DU GOUVERNMENT
MARCHANDS
MEDECINS, ADVOCATS, ET ÉTUDIANTS
MÈRES DE FAMILLE
THE UNIVERSITY HAS 20 PROFESSORS AND INSTRUCTORS AND 250 STUDENTS AT PRESENT.
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L'ACCOMPLISSEMENT DE CETTE ŒUVRE DEMANDE UNE DOTATION DE $500,000 (2,500,000 FRANCS).

Taxonomy

Bars	Maps	Blocks	Circles	Graphs
52.63%	15.79%	14.04%	12.28%	5.26%

Bars

STATES OF THE UNITED STATES ACCORDING TO THEIR NEGRO POPULATION.
GEORGIA
MISSISSIPPI
SOUTH CAROLINA
ALABAMA
VIRGINIA
NORTH CAROLINA
LOUISIANA
TEXAS
TENNESSEE
ARKANSAS
KENTUCKY
MARYLAND
FLORIDA
MISSOURI
PENNSYLVANIA
ALL OTHER STATES

NEGRO POPULATION OF GEORGIA.

AGE DISTRIBUTION OF GEORGIA NEGROES COMPARED WITH FRANCE.
NEGROES
FRANCE

CONJUGAL CONDITION
SINGLE
WIDOWED AND DIVORCED
MARRIED
AGE 15-40
40-60
60 AND OVER
GERMANY
NEGROES

SLAVE AND FREE NEGROES.

RACE AMALGAMATION IN GEORGIA.
BASED ON A STUDY OF 40,000 INDIVIDUALS OF NEGRO DESCENT
BLACK.
44%
BROWN.
40%
YELLOW.
16%

ILLITERACY.

NEGRO CHILDREN ENROLLED IN THE PUBLIC SCHOOLS.

NUMBER OF NEGRO STUDENTS TAKING THE VARIOUS COURSES OF STUDY OFFERED IN GEORGIA SCHOOLS.
BUSINESS
CLASSICAL
PROFESSIONAL
SCIENTIFIC
NORMAL
INDUSTRIAL

VALUE OF LAND OWNED BY GEORGIA NEGROES.

ACRES OF LAND OWNED BY NEGROES IN GEORGIA.

NEGRO PROPERTY IN TWO CITIES OF GEORGIA
OWNERS
PROPERTY
SAVANNAH
ATLANTA

VALUE OF FARMING TOOLS.

OCCUPATIONS OF GEORGIA NEGROES.
1890.

CONDITION OF 300 NEGRO FARM TENANTS AFTER 1 YEAR'S TOIL. 1898.
BANKRUPT
IN DEBT
CLEARED NOTHING
CLEARED LESS THAN $50
CLEARED $50-$75
CLEARED $75-$100
CLEARED $100 AND MORE

INCOME AND EXPENDITURE OF 150 NEGRO FAMILIES IN ATLANTA, GA.,U.S.A.

Increase of the Negro population in the United States of America

Occupations in which American Negroes are engaged.
BOTH SEXES.
MALES.
FEMALES.

Occupations in which 10,000 or more American Negroes are engaged.
1,006,728

Number of Negro teachers in the Public Schools of the United States
1886
1889
1892
1895

Illiteracy of the American Negroes compared with that of other nations.
Roumania
Servia
Russia
Negroes, U.S.A.
Hungary
Italy
Austria
Ireland
France
Spain

Enrollment in the Negro common school of the former slave States, of the United States
1876 - 7 - 571,506
1880 - 1 - 802,374
1885 - 6 - 1,048,655
1890 - 1,329,541
1895 6 - 1,429,712

PROPORTION OF TOTAL NEGRO CHILDREN OF SCHOOL AGE WHO ARE ENROLLED IN THE PUBLIC SCHOOLS.
1876
1886
1896
37.59%
55.66%
57.29%

THE RISE OF THE NEGROES FROM SLAVERY TO FREEDOM IN ONE GENERATION
1890
1860

CITY AND RURAL POPULATION AMONG AMERICAN NEGROES IN THE FORMER SLAVE STATES
1860
1870
1880
1890

Negro landowners in various States of the United States.
OWNERS
TENANTS
Virginia 27%
South Carolina 18%
Texas 22%
North Carolina 19%
Georgia 12%
Mississippi 13%
Tennessee 20%
Louisiana 12%
Arkansas 21%

Mortality of American Negroes.
UNITED STATES
PHILADELPHIA

Crime among American Negroes.
3250
CRIMES AGAINST GOVERNMENT
SOCIETY
PERSONS
PROPERTY
MISCELLANEOUS

Religion of American Negroes
Catholics
Protestants
Baptists
Methodists
Presbyterians
Congregationalists
Miscellaneous

Statistics of Negro Church Organizations
23,462
23,770
$ 26,626,448 OR 137,960,860 FRANCS.
2,673,977

Maps

THE GEORGIA NEGRO.
A SOCIAL STUDY
BY
W.E.BURGHARDT DU BOIS.
ROUTES OF THE AFRICAN SLAVE TRADE.
THIS CASE IS DEVOTED TO THE SERIES OF CHARTS,MAPS, AND OTHER DEVICES DESIGNED TO ILLUSTRATE THE DEVELOPMENT OF THE AMERICAN NEGRO IN A SINGLE TYPICAL STATE OF THE UNITED STATES
* THE PROBLEM OF THE 20TH CENTURY IS THE PROBLEM OF THE COLOR-LINE

RELATIVE NEGRO POPULATION OF THE STATES OF THE UNITED STATES.
750,000 NEGROES AND OVER
600,000 - 750,000
500,000 - 600,000
300,000 - 500,000
200,000 - 300,000
100,000 - 200,000
50,000 - 100,000
25,000 - 50,000
10,000 - 25,000
UNDER - 10,000

NEGRO POPULATION OF GEORGIA BY COUNTIES.
1890.
OVER 30,000 NEGROES
BETWEEN 20,000 AND 30,000
15,000 TO 20,000
10,000 TO 15,000
5,000 TO 10,000
2,500 TO 5,000
1,000 TO 2,500
UNDER 1,000

NEGRO POPULATION OF GEORGIA BY COUNTIES.
1870
1880
BETWEEN 20,000 AND 30,000
15,000 TO 20,000
10,000 TO 15,000
5,000 TO 10,000
2,500 TO 5,000
1,000 TO 2,500
UNDER 1,000

MIGRATION OF NEGROES.
1890.
PRESENT DWELLING PLACE OF NEGROES IN GEORGIA.
BIRTH PLACE OF NEGROES NOW PRESENT IN GEORGIA.

LAND OWNED BY NEGROES IN GEORGIA, U.S.A 1870-1900.
THE FIGURES INDICATE THE NUMBER OF ACRES OWNED IN EACH COUNTY IN 1899

DISTRIBUTION OF NEGROES IN THE UNITED STATES.
DISTRIBUTION DES NÈGRES DAN LES ETATS UNIS.
LESS THAN 1
1-4
4-8
8-15
15-20
NEGROES TO THE SQUARE MILE

NEGRO POPULATION OF THE UNITED STATES COMPARED WITH THE TOTAL POPULATION OF OTHER COUNTRIES.
POPULATION NÈGRE DES ETATS UNIS COMPARÉE À LA POPULATION TOTALE DES AUTRES PAYS.
ESPAÑA 17,500,000
AÜSTRALIA 3,096,070
NORVÈGE 2,000,000
SUÈDE 4,774,409
NEDERLANDE 4,500,000
LA BELGIQUE 6,000,000
NEGRO POPULATION POPULATION NOIRE 7,500,000
SUISSE 2,900,000
HONGRIE 17,500,000
BAYERN 6,800,000
ENGLAND 27,500,000

PROPORTION OF NEGROES IN THE TOTAL POPULATION OF THE UNITED STATES.
RAPPORT DES NÈGRE À LA POPULATION TOTALE DES ETATS UNIS.
1800
1830
ONE-FIFTH
ONE-SIXTH
1860
1890
ONE-SEVENTH
ONE-EIGHTH

Circles

CITY AND RURAL POPULATION.
1890.
79,139 NEGROES IN CITIES OF OVER 10,000 INHABITANTS
8,025
NEGROES IN CITIES FROM 5,000 TO 10,000
37,699 NEGROES IN CITIES FROM 2,500 TO 5,000
734,952
NEGROES LIVING IN THE COUNTRY AND VILLAGES

NEGRO TEACHERS IN GEORGIA PUBLIC SCHOOLS
2512
1886
2500
1889
3206
1893
3316
1897

ASSESSED VALUATION OF ALL TAXABLE PROPERTY OWNED BY GEORGIA NEGROES.
$ 5,393,885
$12,322,003
$2,541,230
$6,647,423
1875
1885
1890

ASSESSED VALUE OF HOUSEHOLD AND KITCHEN FURNITURE OWNED BY GEORGIA NEGROES.
1875 $ 21,186
1880 $ 498,532
1885 $ 736,178
1890 $ 1,173,624
1895 $ 1,322,694
1899 $ 1,434,975

OCCUPATIONS OF NEGROES AND WHITES IN GEORGIA.
NEGROES.
62%
28%
5%
4.5%
AGRICULTURE, FISHERIES AND MINING.
DOMESTIC AND PERSONAL SERVICE
PROFESSIONS.
TRADE AND TRANSPORTATION.
MANUFACTURING AND MECHANICAL INSTRUSTRIES.
4%
13%
13.5%
5.5%
64%
WHITES.

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ELLE A D'ÉLIVRE DES DIPLOMES A 330 NÉGRES DONT :
TEACHERS
MINISTERS
GOVERNMENT SERVICE
BUSINESS
OTHER PROFESSIONS
HOUSE WIVES
PROFESSEURS ET INSTITUTEURS
MINISTRES DE L'EVANGLE
EMPLOYÉS DU GOUVERNEMENT
MARCHANDS
MÉDICINS, ADVOCATS, ÉTUDIANTS
MÈRES DE FAMILLE
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28.1%
4.3%
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3.2%
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L'ACCOMPLISSEMENT DE CETTE OEUVRE DEMANDE UNE DOTATION DE $500,000 (2,500,000 FRANCS)

Proportion of Whites and Negroes in the different classes occupation in the United States
Proportion des blancs et des Nègres dans les diverses especes d' occupations en Amerique
Done by Atlanta University
ALL OCCUPATIONS
MANUFACTURING AND MECHANICAL INDUSTRIES
TRADE AND TRANSPORTATION
DOMESTIC AND PERSONAL SERVICE
PROFESSIONS
AGRICULTURE

Blocks

PROPORTION OF FREEMEN AND SLAVES AMONG AMERICAN NEGROES.
PROPORTION DES NÈGRES LIBRES ET DES ESCLAVES EN AMÉRIQUE.
DONE BY ATLANTA UNIVERSITY.
1790 1800 1810 1820 1830 1840 1850 1860 1870
FREE - LIBRE
8% 11% 13.5% 13% 14% 13% 12% 11% 100%
SLAVES
ESCLAVES

Conjugal condition of American Negroes according to age periods.
Condition conjugale des Nègres Americains au point del vue le l'age
AGES OVER 65
MALES.
FEMALES.
WIDOWED
MARRIED
SINGLE
55 - 60
50 - 55
45 - 50
35 - 40
30 - 35
25 - 30
20 - 25
15 - 20
0 - 15
100 90 80 70 60 50 40 30 20 10 10 20 30 40 50 60 70 80 90 100
PER CENTS.

Amalgamation of the White and Black elements of the population in the United States
Amalgamation des elements blancs et noirs parmi la population Americaine
Done by Atlanta University
1800
1840
1860
3.542,147
90%
411,613
10%
NEGROES
MULATTOES
WHITES
1890
6,337,980
85%
1,115,063
15%

Negro business men in the United States
Nègres Americains dans les affairs
Estimated capital
$ 8,784,637
45,516,254 FRANCS
General merchandise stores
Grocers
Bankers
Undertakers
Building contractors
Druggists
Publishers
Building and loan associations

American Negro newspapers and periodicals
Journaux et publications périodiques Nègres aux Etats Unis.
MAGAZINES
3
DAILY
3
PAPERS
SCHOOL
11
PAPERS
WEEKLY PAPERS
TOTAL
136
GRAND TOTAL
153

THE DECREASE OF ILLITERACY AMONG THE BLACK FREEDMEN OF THE UNITED STATES
DECROISSEMENT DES ILLETTRES PARMI LES NEGRES AFFRANCHIS DANS LES ETATS UNIS
DONE BY ATLANTA UNIVERSITY
1860 1870 1880 1890
READ AND WRITE
SACHANT LIRE ET ECRIRE
90%
81%
70%
56%
ILLITERATE

Proprietes contribuables des Nègres dans trois Etats des Etats Unis
Done by Atlanta University
VIRGINIA
1895
$ 13,933,998
NORTH CAROLINA
1891
$ 8,018,446
GEORGIA
1895
$ 12,941,230
TOTAL
$ 34,893,684
OR
180,796,290 FRANCS.

Pauperism among American Negroes.
Pauperisme parmi les Nègres Americains
Done by Atlanta University
PROPORTION OF ALMSHOUSE PAUPERS IN EVERY 100,000 NEGROES.
100,000
86
PAUPERS
MALE
FEMALE

Graphs

COMPARATIVE INCREASE OF WHITE AND COLORED POPULATION OF GEORGIA.
1890
1880
1870
1860
1850
1840
1830
1820
1810
1800
1790
100 95 90 85 80 75 70 65 60 55 50 45 40 35 30 25 20 15 10 5 0
PERCENTS
= COLORED
= WHITE

VALUATION OF TOWN AND CITY PROPERTY OWNED BY GEORGIA NEGROES
4,000,000
3,000,000
2,000,000
1,000,000
RISE OF THE NEW "INDUSTRIALISM"
DISFRANCHISMENT AND PROSCRIPTIVE LAWS
POLITICAL UNREST
LYNCHING
KU-KLUX-KLANISM
FINANCIAL PANIC
1870
1875
1880
1885
1890
1895
1900

Comparative rate of increase of the White and Negro elements population of the United States
Accroissement proportionnel des elements blancs et noirs aus Etats Unis
Done by Atlanta University
MILLIONS
50
45
40
35
30
25
20
15
10
5
0
WHITE — BLANCHE —
BLACK — NOIRE —
SMALL FIGURES = PERCENTAGE OF INCREASE PER DECADE
LES PETITE CHIFFRES INDIQUENT L'ACCROISSEMENT PROPORTIONAL PAR DIX ANS
1790 1800 1810 1820 1830 1840 1850 1860 1870 1880 1890

Color Palette

black	brown	tan	gold	pink	red	green	blue
#000000	#654321	#d2b48c	#ffd700	#ffc0cb	#dc143c	#00aa00	#4682b4

Typography

Public Sans

Charter

DU BOIS

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

THE COLOR LINE AT THE TURN OF THE TWENTIETH CENTURY

WHITNEY BATTLE-BAPTISTE *and* BRITT RUSERT, *editors*

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63

Pen, Ink, Watercolor, Paper, Expos

1900

Scripting, Digital Fonts, PDF, Internet

2019

Plate 27 This circle chart is one of the most visually economical designs in the Georgia study. Radially sliced wedges are filled with a primary color palette that is accented with a light brown and beige that may refer to skin tones. Two sets of larger wedges representing Negroes and whites hover cantilevered at the chart's center point. Du Bois builds dynamic tension by cascading color

look as i
over the "White
of spatial economy and
of intact circles is tucked within the
space, both echoing and stabilizing the over
composition.

Plate 27 This circle chart is one of the most visually economical designs in the Georgia study.[18] Radially sliced wedges are filled with a primary color palette that is accented with a light brown and beige that may refer to skin tones. Two sets of larger wedges representing Negroes and whites hover cantilevered at the chart's center point. Du Bois builds dynamic tension by cascading color around the chart in opposing clockwise and counterclockwise directions, making the diagram look as if the "Negro" wedges might collapse over the "White" wedges at any moment. In a feat of spatial economy and visual wit, the key made of intact circles is tucked within the negative space, both echoing and stabilizing the overall composition.

P 1187

Occupations in which American Negroes are engaged.

Occupations et industries des Nègres Americains.

P 1187

Occupations in which American Negroes are engaged.

Occupations et industries des Nègres Americains.

Done by Atlanta University.

decksh

Structure

Text

Lists

Arrows

Images

Graphics

Charts

Loops

Data

Utility

Percent Grid

occupation.dsh - Visual Studio Code

File Edit Selection View Go Run Terminal Help

occupation.dsh

```
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
```

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f.pdf - 1/1 (60.2857 dpi)

original-plate-27.jpg (~/dubois-data-portraits/plate27) - Photos

Code

Output

Reference

INCOME AND EXPENDITURE OF 150 NEGRO FAMILIES IN ATLANTA, GA.,U.S.A.

ANNUAL EXPENDITURE FOR

ANNUAL INCOME

RENT

FOOD

DIETARY OF WELL-TO-DO NEGRO FAMILY FROM BULLETIN U.S. DEPARTMENT OF AGRICULTURE NO. 71

CLOTHES

DIRECT TAXES

THE STATE TAX RATE IS:
1880 - $3.50 PER 1,000
1885 - $3.50 " "
1890 - $3.96 " "
1895 - $4.56 " "
1899 - $5.38 " "

STATE AND COUNTY TAXES RAISE THIS TO $21 PER $1,000 IN ATLANTA

OTHER EXPENSES AND SAVINGS

THE HIGHER LIFE.
RELIGION.
ART.
EDUCATION
SICKNESS
SAVINGS
AMUSEMENTS
BOOKS AND PAPERS.
TRAVEL

INCOME AND EXPENDITURE OF 150 NEGRO FAMILIES IN ATLANTA, GA.,U.S.A.
ANNUAL EXPENDITURE FOR
ANNUAL INCOME
RENT
FOOD
DIETARY OF WELL-TO-DO NEGRO FAMILY FROM BULLETIN U.S. DEPARTMENT OF AGRICULTURE NO. 71
CLOTHES
DIRECT TAXES
THE STATE TAX RATE IS:
1880 - $3.50 PER 1,000
1885 - $3.50 " "
1890 - $3.96 " "
1895 - $4.56 " "
1899 - $5.38 " "
STATE AND COUNTY TAXES RAISE THIS TO $21 PER $1,000 IN ATLANTA
OTHER EXPENSES AND SAVINGS
THE HIGHER LIFE.
RELIGION.
ART.
EDUCATION
SICKNESS
SAVINGS
AMUSEMENTS
BOOKS AND PAPERS.
TRAVEL
CLASS
ACTUAL AVG.
$100-200
$139.10
19.0%
43.0%
28.0%
9.9%
0.1%
POOR
$200-300
$249.45
22.0%
47.0%
23.0%
4.0%
4.0%
$300-400
$335.86
23.0%
43.0%
18.0%
4.5%
11.5%
FAIR
$400-500
$433.82
18.0%
37.0%
15.0%
5.5%
24.5%
$500-750
$547
13.0%
31.0%
17.0%
5.0%
34.0%
COMFORTABLE
$750-1000
$880
37.0%
19.0%
8.0%
36.0%
1,000 AND OVER
$1125
29.0%
16.0%
4.5%
50.5%
WELL-TO-DO

Title
Categories
Income
Charts

Plates:	57
Total LoC:	6,492
Average LoC:	98.37

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
```

Examples

```
1750 - 220,000    220000
1760 - 310,000    310000
1770 - 462,000    462000
1780 - 562,000    562000
1790 - 757,208    757208
1800 - 1,002,037    1002037
1810 - 1,377,808    1377808
1820 - 1,771,656    1771656
1830 - 2,328,642    2328642
1840 - 2,873,648    2873648
1850 - 3,638,808    3638808
1860 - 4,441,830    4441830
1870 - 4,880,009    4880009
1880 - 6,580,793    6580793
1890 - 7,470,040    7470040
```

```
// Plate 39, Increase of the Negro population
deck
    opts="-fulldeck=f -hbar -color red -val=f -ls 3.5"
    slide
        ctext "Increase of the Negro population in the United States of America" 50 95 2.5 "serif" "rgb(100,100,100)"
        ctext "Accroissement de la population Negre aux États-Unis d'Amérique"   50 90 1.5 "serif" "gray"
        dchart opts pop.d
    eslide
edeck
```

```
deck
    slide
        h1=3
        h2=h1*0.70
        h3=h1*0.5

        // Top matter
        ctext "Pauperism among American Negroes."       50 97 h1 "serif"
        ctext "Pauperisme parmi les Nègres Americains"  50 92 h2 "serif"
        ctext "Done by Atlanta University"              50 87 h3 "serif"
        ctext "PROPORTION OF ALMSHOUSE PAUPERS IN EVERY 100,000 NEGROES." 50 75 h2
        hline 40 90 20 0.075
        hline 40 85 20 0.075

        // Population and Paupers
        ctext "100,000" 50 70 h2
        arc 50 30 50 50 0 180 50 "rgb(101,67,33)"
        arc 50 30 1.5 1.5 0 180 2 "crimson"
        ctext "86"      50 28 h2
        ctext "PAUPERS" 50 26 h2

        ctext "MALE"    25 19 h2
        hline 0  15 55 8 "green"

        ctext "FEMALE"  75 19 h2
        hline 55 15 45 8 "gold"

        ubrace 50 25 50 2 2
    eslide
edeck
```

```
barwidth=30
freecolor="darkgreen"
slavecolor="black"
peasantcolor="maroon"
tenantcolor=freecolor

// left-hand bar
left1=25
bot1=5
h1=30
top1=bot1+h1
len1=top1-bot1
slave1=len1*0.89
free=len1*0.11
f1=bot1+slave1

// right-hand bar
left2=80
bot2=20
h2=60
top2=bot2+h2
len2=top2-bot2
prop=len2*0.19
p1=top2-prop

vline left1 bot1 len1 barwidth slavecolor
vline left1 f1   free barwidth freecolor

vline left2 bot2 len2 barwidth freecolor
vline left2 p1   prop barwidth peasantcolor
```

Modern Data

Student Debt and Racial Disparities

VizE Lab at Princeton

ACCESS TO HIGHER EDUCATION IN THE UNITED STATES.

ATTAINMENT OF BA DEGREE OR HIGHER

SOURCE: National Center for Educational Statistics (nces.ed.gov).
NOTES: Includes people of Hispanic ethnicity for years prior to 1980. Data for years prior to 1993 are for persons with 4 or more years of college. Estimates for 1940 are based on Census Bureau reverse projection of 1940 census data on education by age.

AVERAGE STUDENT DEBT AND DEFAULTS FOUR YEARS AFTER GRADUATION.

2008 COHORT

Adapted from: Judith Scott-Clayton and Jing Li. 2016. "Black-White Disparity in Student Loan Debt More Than Triples After Graduation." Evidence Speaks Reports. Brookings Institution.

DEBT AND SELF-CONCEPT.

3,079 YOUNG ADULTS WITH COLLEGE EXPERIENCE
AGES 18-34 (MEDIAN AGE = 22)

Adapted from: Rachel E. Dwyer, Laura McCloud, and Randy Hodgson. 2011. "Youth Debt, Mastery, and Self-Esteem: Class-Stratified Effects of Indebtedness on Self-Concept. Social Science Research 40: 727-741.

OCCUPATIONS OF NEGROES AND WHITES IN GEORGIA.

OCCUPATIONS OF AFRICAN AMERICANS AND WHITES IN THE USA (2019).

Source: US Bureau of Labor Statistics, Labor Force Statistics from the Current Population Survey

Original and Modern: Expenditures

Data from the Social Sciences

FOR-PROFIT ENROLLMENT BY OWNERSHIP.

Between 1990 and 2015 the enrollment of publicly-traded for-profit institutions outstripped their private counterparts, with the sharpest growth occurring from 2005-2011. During this period publicly traded enrollment was 2-3 times greater than privately held institutions.

Repos

github.com/ajstarks/dubois-data-portraits

github.com/ajstarks/modern-dubois-viz

#DuboisChallenge

#DuboisChallenge

#DuboisChallenge

Ijeamaka A
@ijeamaka_a

#TidyTuesday and #DuBoisChallenge

I decided to recreate challenge 07 using only coord_polar. It is not a perfect recreation, but I am happy with it (mostly because I didn't have to use my very rusty trigonometry knowledge).

Charlie Eaton
@CharlieEatonPhD

I'm thrilled that any @Stata user can now add the Du Bois graphing scheme to their machine using the *ssc install dubois* command. After installing, check *help dubois* for tips to use the scheme for the #DuBoisChallenge or modern replications like this one!

Marisa Henry
@marisalyn

had lots of fun learning more about W.E.B DuBois and attempting to recreate one of his figures for the #DuBoisChallenge and #TidyTuesday this week!

💾: github.com/marisalyn/tidy...

https://github.com/ajstarks/dubois-data-portraits/tree/master/challenge

Links and Resources

Presentation	https://speakerdeck.com/ajstarks/recreating-the-dubois-data-portraits
Catalog	https://speakerdeck.com/ajstarks/recreations-of-w-dot-e-b-du-bois-data-portraits
Repo	https://github.com/ajstarks/dubois-data-portraits
Dubois Style/Modern Data	https://github.com/ajstarks/modern-dubois-viz
"The" Book	https://www.amazon.com/W-Boiss-Data-Portraits-Visualizing/dp/1616897066
Library of Congress Collection	https://www.loc.gov/collections/african-american-photographs-1900-paris-exposition/
Style Guide	https://github.com/ajstarks/dubois-data-portraits/blob/master/dubois-style.pdf
decksh Code	https://github.com/ajstarks/decksh
decksh Presentation	https://speakerdeck.com/ajstarks/decksh-a-little-language-for-decks
Dignity and Debt	https://www.dignityanddebt.org/projects/student-debt-racial-disparities/
Black America, 1895	https://publicdomainreview.org/essay/black-america-1895
Nightingale Article	https://medium.com/nightingale/recreating-w-e-b-du-boiss-data-portraits-87dd36096f34
#DuboisChallenge	https://github.com/ajstarks/dubois-data-portraits/blob/master/challenge/README.md

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Art + Code

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speakerdeck.com/ajstarks

@duboisviz

Catalog

THE GEORGIA NEGRO.

A SOCIAL STUDY
BY
W.E.BURGHARDT DU BOIS.

ROUTES OF THE AFRICAN SLAVE TRADE.

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

* THE PROBLEM OF THE 20TH CENTURY IS THE PROBLEM OF THE COLOR-LINE

Plate 1

RELATIVE NEGRO POPULATION OF THE STATES OF THE UNITED STATES.

Plate 2

Plate 3

Plate 4

NEGRO POPULATION OF GEORGIA BY COUNTIES. 1890.

- OVER 30,000 NEGROES
- BETWEEN 20,000 AND 30,000
- 15,000 TO 20,000
- 10,000 TO 15,000
- 5,000 TO 10,000
- 2,500 TO 5,000
- 1,000 TO 2,500
- UNDER 1,000

Plate 5

NEGRO POPULATION OF GEORGIA BY COUNTIES.

1870

- BETWEEN 20,000 AND 30,000
- 15,000 TO 20,000
- 10,000 TO 15,000

1880

- 5,000 TO 10,000
- 2,500 TO 5,000
- 1,000 TO 2,500
- UNDER 1,000

Plate 6

COMPARATIVE INCREASE OF WHITE AND COLORED POPULATION OF GEORGIA.

Plate 7

MIGRATION OF NEGROES. 1890.

PRESENT DWELLING PLACE OF NEGROES IN GEORGIA.

BIRTH PLACE OF NEGROES NOW PRESENT IN GEORGIA.

Plate 8

Plate 9

Plate 10

CITY AND RURAL POPULATION. 1890.

Plate 11

SLAVE AND FREE NEGROES.

Plate 12

RACE AMALGAMATION IN GEORGIA.

BASED ON A STUDY OF 40,000 INDIVIDUALS OF NEGRO DESCENT

Plate 13

ILLITERACY.

Plate 14

NEGRO CHILDREN ENROLLED IN THE PUBLIC SCHOOLS.

Plate 15

NEGRO TEACHERS IN GEORGIA PUBLIC SCHOOLS

Plate 16

NUMBER OF NEGRO STUDENTS TAKING THE VARIOUS COURSES OF STUDY OFFERED IN GEORGIA SCHOOLS.

Plate 17

VALUE OF LAND OWNED BY GEORGIA NEGROES.

Plate 18

ACRES OF LAND OWNED BY NEGROES IN GEORGIA.

Plate 19

LAND OWNED BY NEGROES IN GEORGIA, U.S.A 1870-1900.

Plate 20

VALUATION OF TOWN AND CITY PROPERTY OWNED BY GEORGIA NEGROES

Plate 21

ASSESSED VALUATION OF ALL TAXABLE PROPERTY OWNED BY GEORGIA NEGROES.

Plate 22

NEGRO PROPERTY IN TWO CITIES OF GEORGIA

Plate 23

VALUE OF FARMING TOOLS.

Plate 24

ASSESSED VALUE OF HOUSEHOLD AND KITCHEN FURNITURE OWNED BY GEORGIA NEGROES.

Plate 25

OCCUPATIONS OF GEORGIA NEGROES.

MALES OVER 10

Plate 26

Plate 27

Plate 30

INCOME AND EXPENDITURE OF 150 NEGRO FAMILIES IN ATLANTA, GA.,U.S.A.

ANNUAL EXPENDITURE FOR

ANNUAL INCOME

RENT

FOOD

DIETARY OF WELL-TO-DO NEGRO FAMILY FROM BULLETIN U.S. DEPARTMENT OF AGRICULTURE NO. 71

CLOTHES

DIRECT TAXES

THE STATE TAX RATE IS:
1880 - $3.50 PER 1,000
1885 - $3.50 " "
1890 - $3.96 " "
1895 - $4.56 " "
1899 - $5.28 " "

STATE AND COUNTY TAXES RAISE THIS TO $21 PER $1,000 IN ATLANTA

OTHER EXPENSES AND SAVINGS

THE HIGHER LIFE.
RELIGION.
ART.
EDUCATION
SICKNESS
SAVINGS
AMUSEMENTS
BOOKS AND PAPERS.
TRAVEL

Plate 31

A SERIES OF STATISTICAL CHARTS, ILLUSTRATING THE CONDITIONS OF THE DESCENDANTS OF FORMER AFRICAN SLAVES NOW RESIDENT IN THE UNITED STATES OF AMERICA.

UNE SÉRIE DE CARTES ET DIAGRAMMES STATISTIQUES MONTRANT LA CONDITION PRÉSENTE DES DESCENDANTS DES ANCIENS ESCLAVES AFRICAINS ACTEULLMENT ÉTABLIS DANS LES ETATS UNIS D'AMÉRIQUE.

PREPARED AND EXECUTED BY
NEGRO STUDENTS UNDER THE
DIRECTION OF
ATLANTA UNIVERSITY
ATLANTA, GA.
UNITED STATES OF AMERICA

PREPARE ET EXECUTE PAR
NÈGRES ÉTUDIANTS SOUS
LA DIRECTION DE L'UNIVERSITÉ ATLANTA
D'ATLANTA
ETAT DE GEORGIA
ETATS UNIS D'AMERIQUE

THE UNIVERSITY WAS FOUNDED IN 1867. IT HAS INSTRUCTED 6000 NEGRO STUDENTS
L'UNIVERSITÉ A ÉTÉ FONDÉE EN 1867. LA DONNÉ L'INSTRUCTION A'6000 ÉTUDIANTS NÈGRES
IT HAS GRADUATED 330 NEGROES AMONG WHOM ARE:
ELLE A D'ÉLIVRE DES DIPLOMES A 330 NÈGRES DONT :

THE UNIVERSITY HAS 20 PROFESSORS AND INSTRUTORS AND 250 STUDENTS AT PRESENT.
IT HAS FIVE BUILDING, 60 ACRES OF CAMPUS AND A LIBRARY OF 11,000 VOLUMES. IT AIMS TO RAISE AND CIVILIZE THE SONS OF THE FREEDMEN BY TRAINING THEIR MORE CAPABLE MEMBERS IN THE LIBERAL ARTS ACCORDING TO THE BEST STANDARDS OF THE DAY.
THE PROPER ACCOMPLISHMENT OF THIS WORK DEMANDS AN ENDOWMENT FUND OF $500,000.

L'UNIVERSITÉ A ACTUELLEMENT 20 PROFESSEURS ET INSTRUCTEURS ET 250 ÉTUDIANTS
ELLE EST COMPOSEE DE CINC BÂTIMENTS, 60 ACRES (ENVIRON 26 HECTARES) DE TERRAIN SERVANT DE COUR ET DE CHAMP DE RÉCREATION, ET D'UNE BIBLIOTHÈQUE CONTENANT 11,000 VOLUMES.
SON BUT EST D'ÉLEVER ET DE CIVILISER LES FILS DES NEGRES AFFRANCHS EN DONNANT AUX MEUX DOUES UNE ÉDUCATION DANS LES ARTS LIBÉRAUX EN ACCORD AVEC LES IDÉES LES PLUS PROGRESSISTES DE L'EPOQUE.
L'ACCOMPLISSEMENT DE CETTE OEUVRE DEMANDE UNE DOTATION DE $500,000 (2,500,000 FRANCS)

Plate 37

DISTRIBUTION OF NEGROES IN THE UNITED STATES.

DISTRIBUTION DES NÈGRES DAN LES ETATS UNIS.

Plate 38

Increase of the Negro population in the United States of America

Accroissement de la population Negre aux États-Unis d'Amérique

Plate 39

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

Accroissement proportionnel des elements blancs et noirs aus Etats Unis

Done by Atlanta University

Plate 40

NEGRO POPULATION OF THE UNITED STATES COMPARED WITH THE TOTAL POPULATION OF OTHER COUNTRIES.

POPULATION NÈGRE DES ETATS UNIS COMPAREÉ À LA POPULATION TOTALE DES AUTRES PAYS.

Plate 41

PROPORTION OF NEGROES IN THE TOTAL POPULATION OF THE UNITED STATES.

RAPPORT DES NÈGRE À LA POPULATION TOTALE DES ETATS UNIS.

1800

ONE-FIFTH

1830

ONE-SIXTH

1860

ONE-SEVENTH

1890

ONE-EIGHTH

Plate 42

Occupations in which American Negroes are engaged.

Occupations et industries des Nègres Americains.

Done by Atlanta University.

Plate 43

Proportion of Whites and Negroes in the different classes occupation in the United States

Proportion des blancs et des Nègres dans les diverses especes d' occupations en Amerique

Done by Atlanta University

Plate 44

Occupations in which 10,000 or more American Negroes are engaged.

Emplois occupant au mois 10,000 Nègres Americains

Done by Atlanta University

Plate 45

Number of Negro teachers in the Public Schools of the United States

Nombre d' institueurs et de professuers Nègres dans les écoles publiques des Etats Unis

Done by Atlanta University

Plate 46

Illiteracy of the American Negroes compared with that of other nations.

Proportion d' illettrés les Nègres Americains comparée à celle des autres nations.

Done by Atlanta University.

Plate 47

Plate 48

Plate 49

THE RISE OF THE NEGROES FROM SLAVERY TO FREEDOM IN ONE GENERATION

PROGRÈS GRADUEL DES NEGROES DE L'ESCLAVAGE À LA LIBERTÉ EN UNE GÉNÉRATION

IN 1890 NEARLY ONE FIFTH OF THEM OWNED THEIR OWN HOMES AND FARMS. THIS ADVANCE WAS ACCOMPLISHED ENTIRELY WITHOUT STATE AID, AND IN THE FACE OF PROSCRIPTIVE LAWS.

EN 1890, ENVIRON UN CINQUIÈME ÉTAIENT PROPRIÉTAIRES DE LEURS HABITATIONS ET DE LEURS FERMES. CE PROGRÈS C'EST ACCOMPLI SANS SECOURS AUCUN DE D'ÉTAT ET FN PRÉSENCE LOIS DÉFAVORABLES.

IN 1860 NEARLY 90% OF THE BLACKS WERE SLAVES.

EN 1860 ENVIRON 90% DES NÈGRES ÉTAIENT ESCLAVES.

Plate 50

PROPORTION OF FREEMEN AND SLAVES AMONG AMERICAN NEGROES.

PROPORTION DES NÈGRES LIBRES ET DES ESCLAVES EN AMÉRIQUE.

DONE BY ATLANTA UNIVERSITY.

Plate 51

Plate 52

Plate 53

Amalgamation of the White and Black elements of the population in the United States

Amalgamation des elements blancs et noirs parmi la population Americaine

Done by Atlanta University

Plate 54

Proprietes contribuables des Nègres dans trois Etats des Etats Unis

Done by Atlanta University

Plate 55

Negro landowners in various States of the United States.

Proprietaires foncier Nègres dans plusieurs Etats.

Plate 56

Negro business men in the United States

Nègres Americains dans les affairs

Plate 57

Plate 58

Plate 59

Crime among American Negroes.

Criminalitè parmi les Nègres Americains

Done by Atlanta University

Plate 60

American Negro newspapers and periodicals

Journaux et publications périodiques Nègres aux Etats Unis.

Plate 61

Religion of American Negroes

Religion des Nègres Americains

Done by Atlanta University

Plate 62

Statistics of Negro Church Organizations

Statistiques des oranisations religieuses les Nègres

Done by Atlanta University

Number of Organizations	*23,462*
Number of Church Offices	*23,770*
Value of Church property	*$ 26,626,448 OR 137,960,860 FRANCS.*
Number of Commuicants	*2,673,977*

Plate 63

THE DECREASE OF ILLITERACY AMONG THE BLACK FREEDMEN OF THE UNITED STATES

DECROISSEMENT DES ILLETTRES PARMI LES NEGRES AFFRANCHIS DANS LES ETATS UNIS

DONE BY ATLANTA UNIVERSITY

Plate XX