

Exploring African American Firsts

Group 10

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Scrapping Data to Visualizations

Two-step approach in creating visualizations

1

Data Scrapping & Wrangling

2

EDA & Visualizations

Data Source:
Wikipedia

Data Source:
Wikipedia

African
American
Firsts

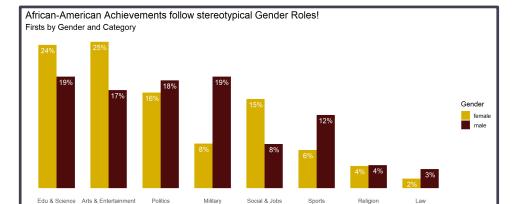
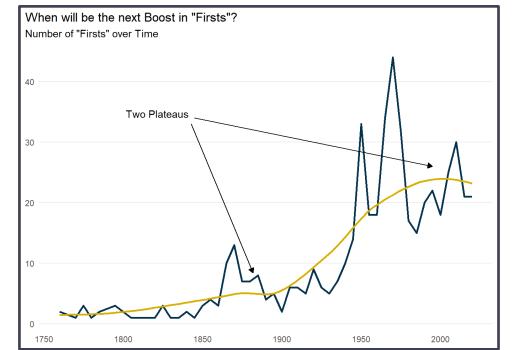
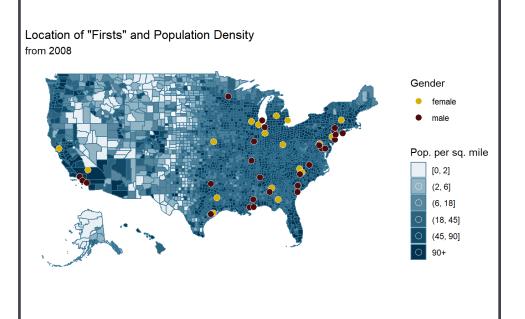
Individual
Demographic
Information

Clean
Data

Enriching
Data by
Adding
Location &
Gender

Clean Data &
Add Shape
Files

EDA

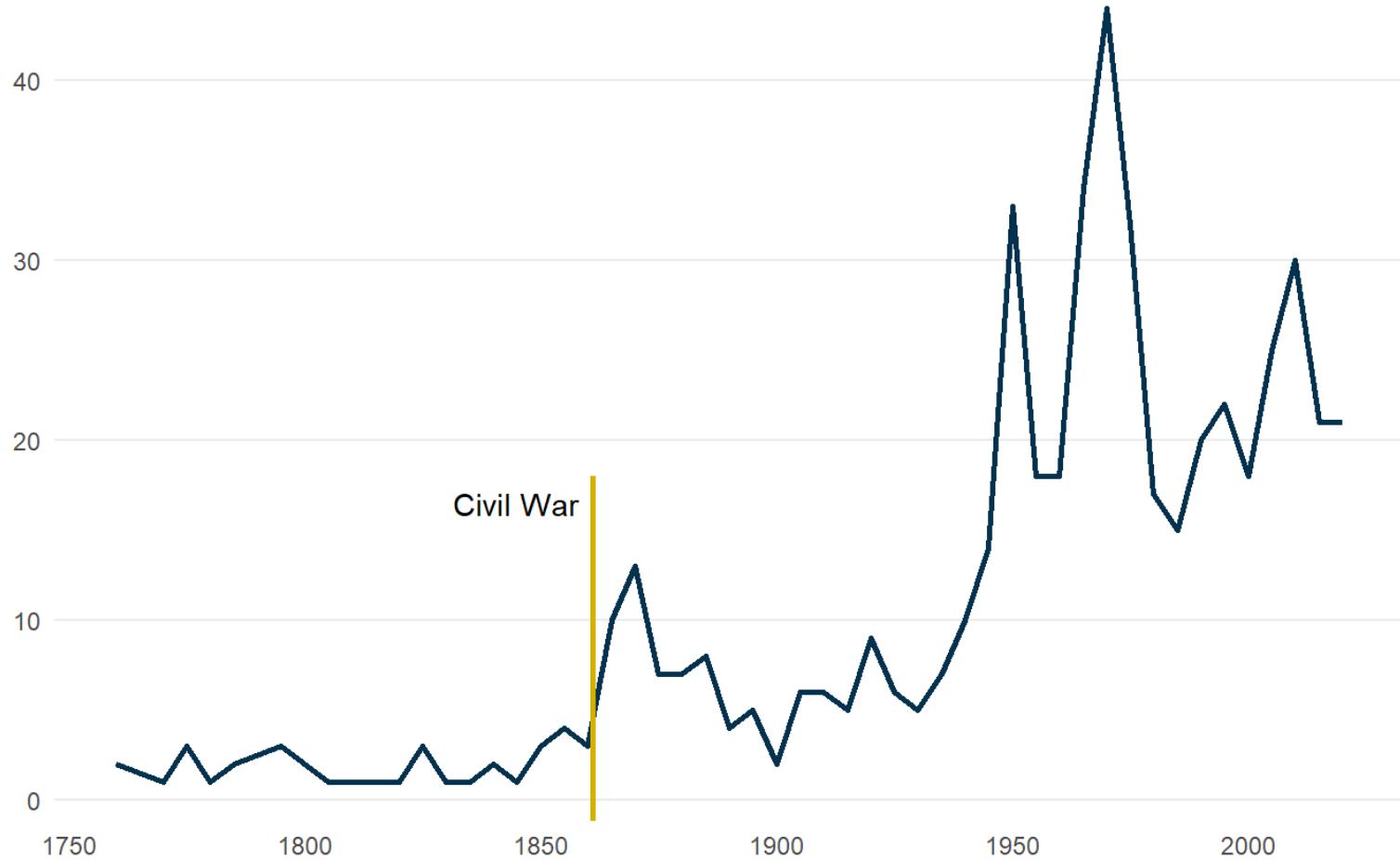


Low Number of Firsts Before the Civil War

Number of Firsts Averaged at Less Than 5 Firsts Before 1861

A Stroll through American History

Number of "Firsts" over Time

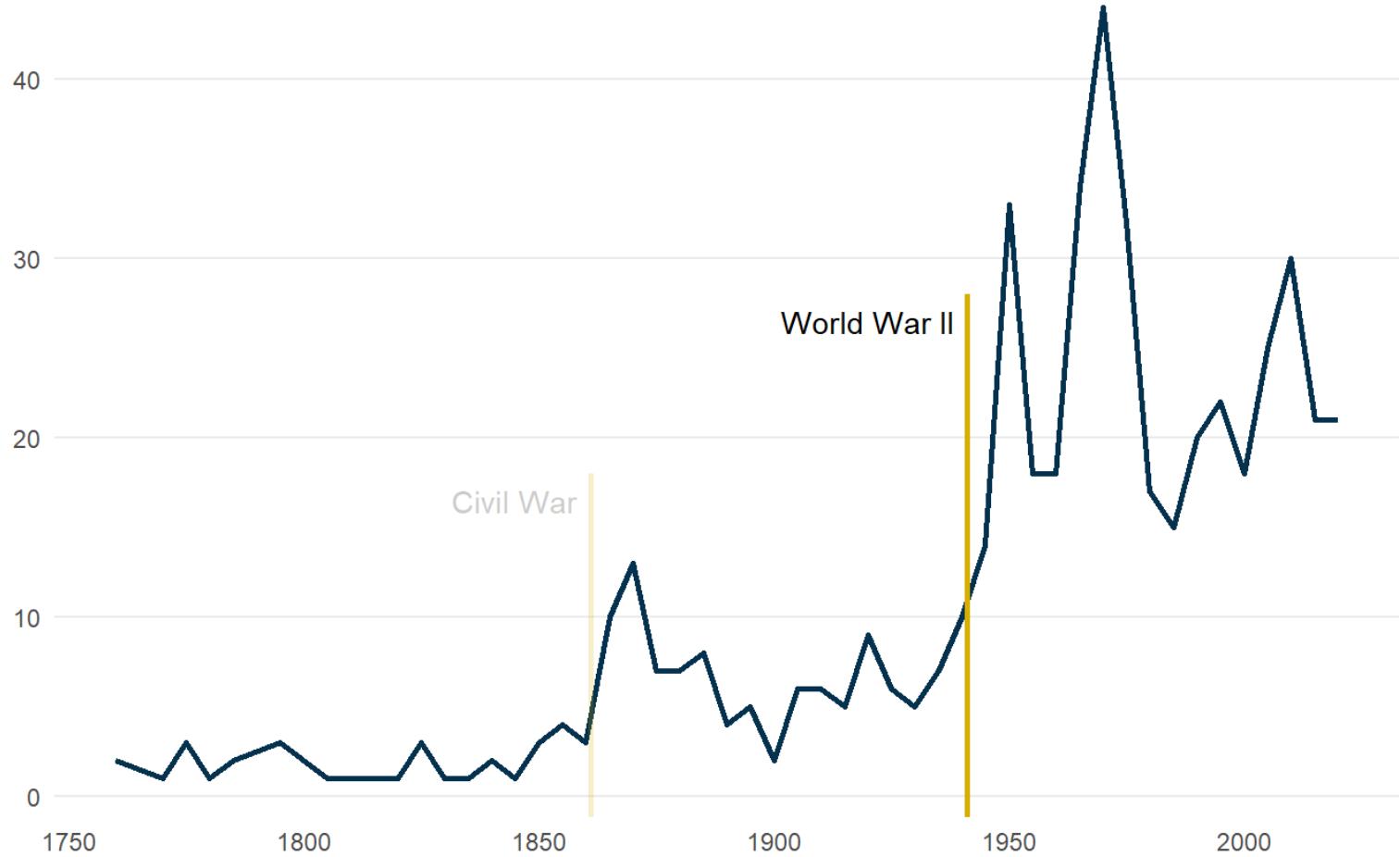


Number of Firsts Dramatically Increase After WWII

Average of Number of Firsts Increase to ~ 25 After WWII

A Stroll through American History

Number of "Firsts" over Time

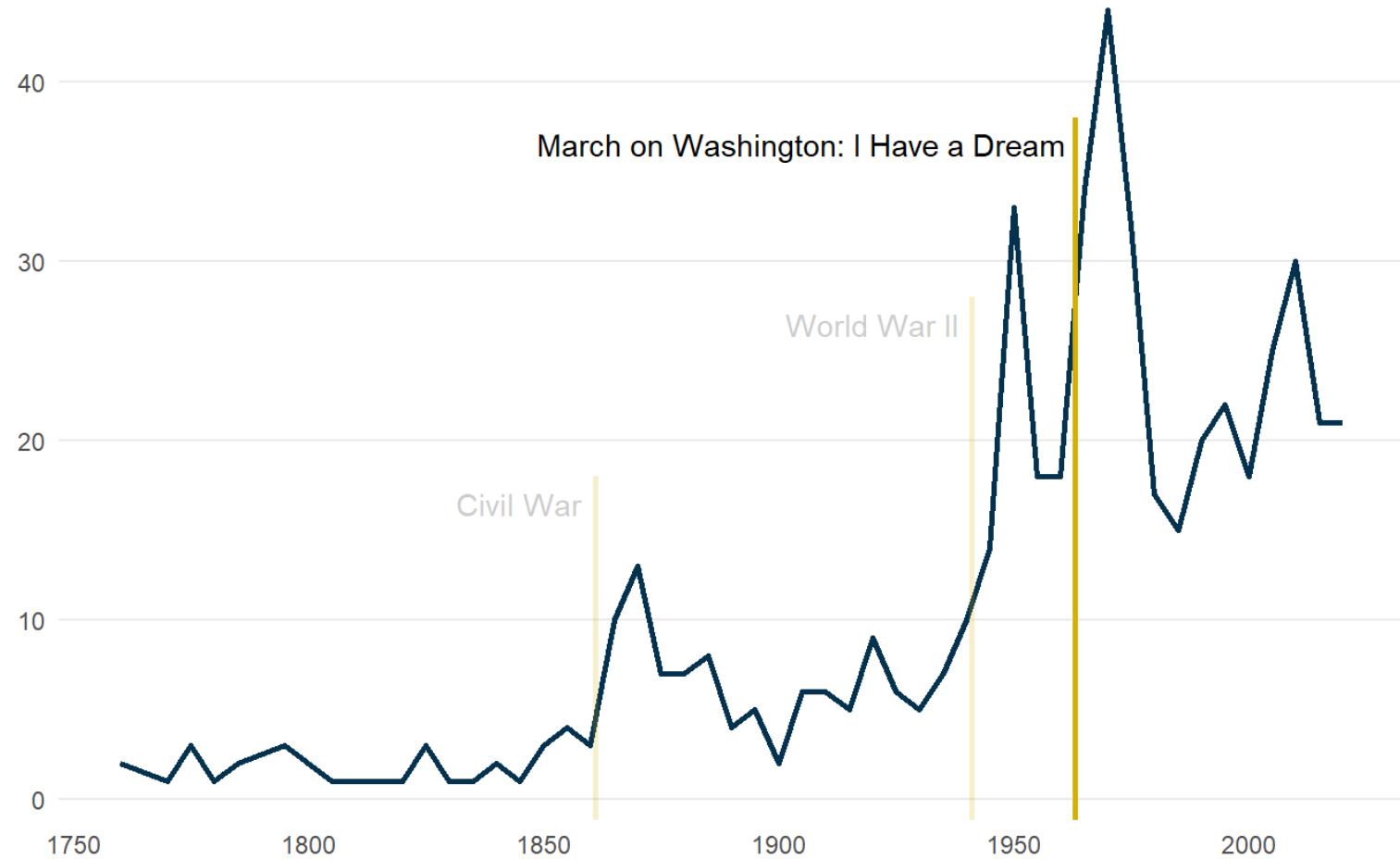


MLK's Speech Revolutionized The African Movement

Average of Number of Firsts Increase to ~ 35 After MLK's Speech

A Stroll through American History

Number of "Firsts" over Time



Number of Firsts Plateau After Obama's Election

Average of Number of Firsts Plateaus at ~ 30 After Obama's Election

A Stroll through American History

Number of "Firsts" over Time

50

40

30

20

10

0

First Black President: Barack Obama

March on Washington: I Have a Dream

World War II

Civil War

1750

1800

1850

1900

1950

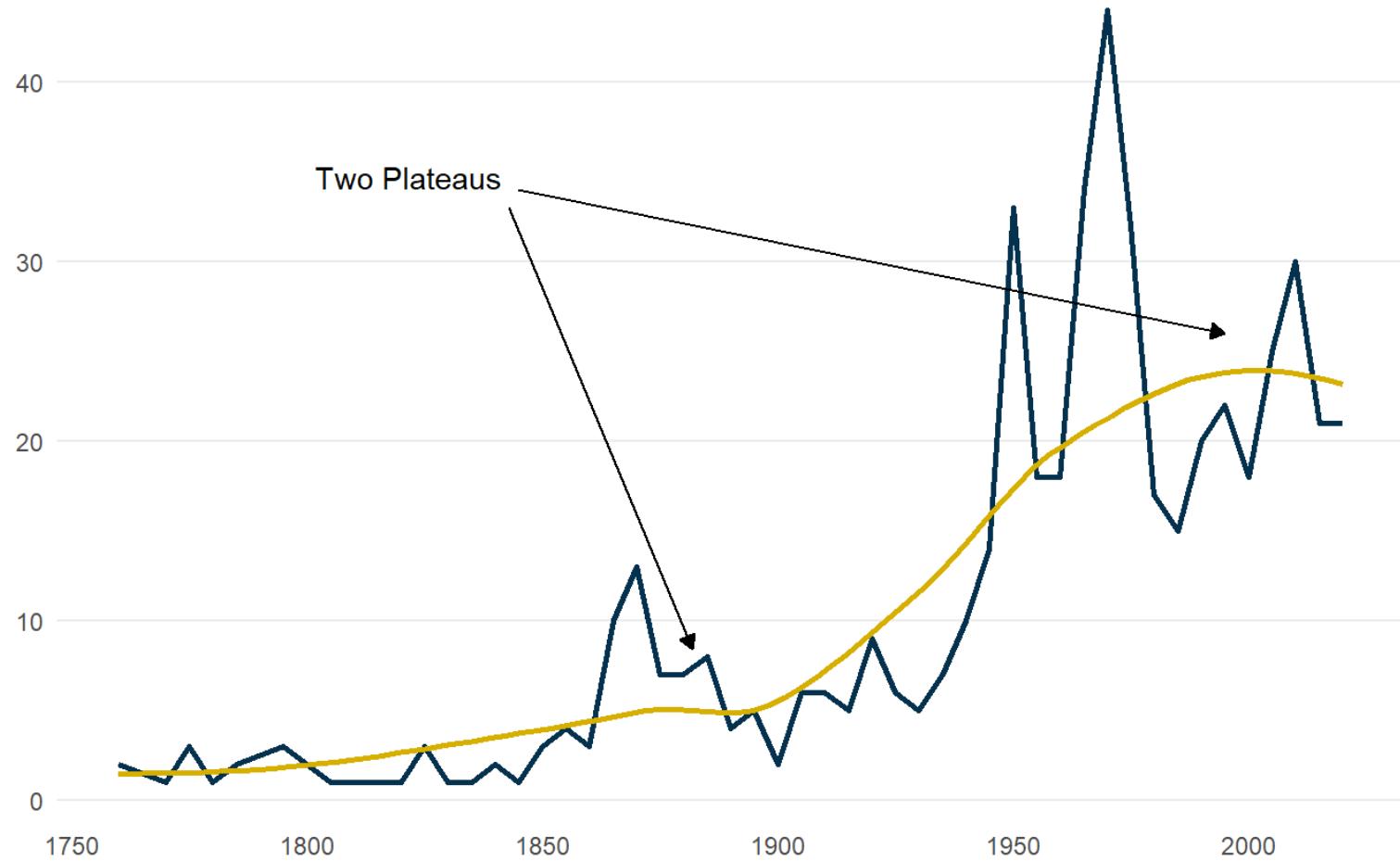
2000

Will the Number of Firsts Plateau or Increase?

Two Plateaus can be seen since 1750

When will be the next Boost in "Firsts"?

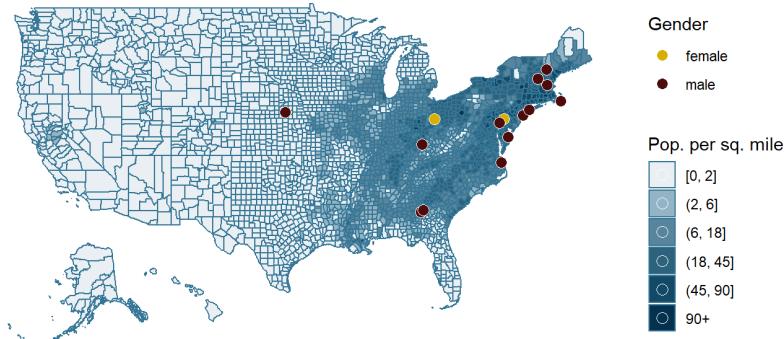
Number of "Firsts" over Time



High Growth in Number of Firsts in High Density Areas

Migration of African American Firsts Follows Migration of Population

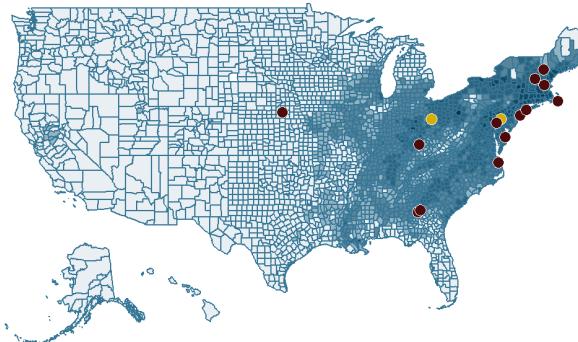
Location of "Firsts" and Population Density
before 1861



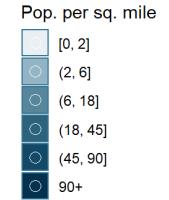
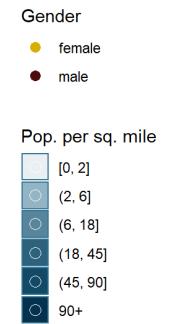
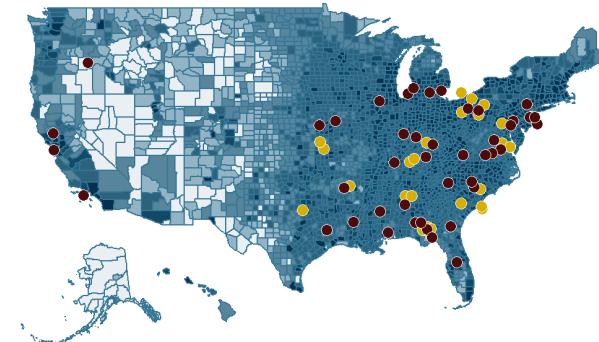
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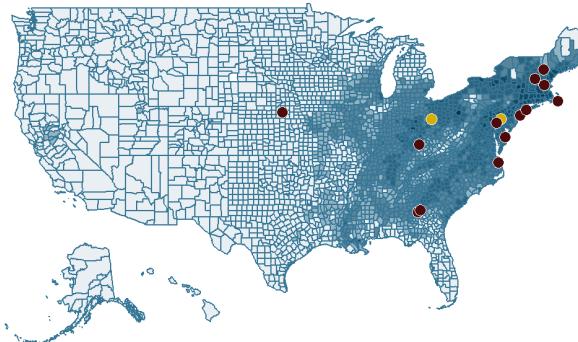
Location of "Firsts" and Population Density
1941 - 1962



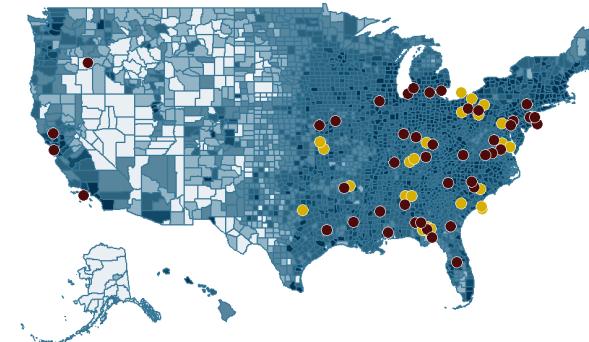
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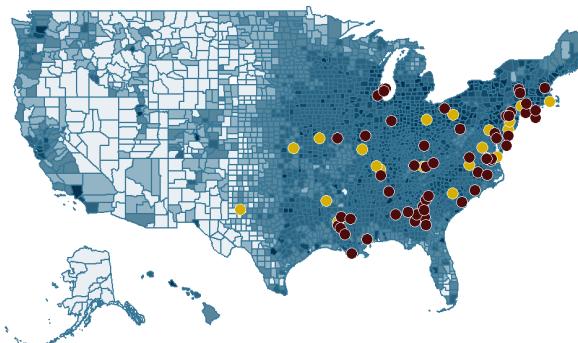
Location of "Firsts" and Population Density
before 1861



Location of "Firsts" and Population Density
1941 - 1962



Location of "Firsts" and Population Density
1861 - 1940



Gender

- yellow female
- dark red male

Pop. per sq. mile

[0, 2]
(2, 6]
(6, 18]
(18, 45]
(45, 90]
90+

Gender

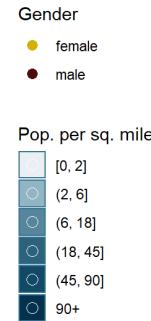
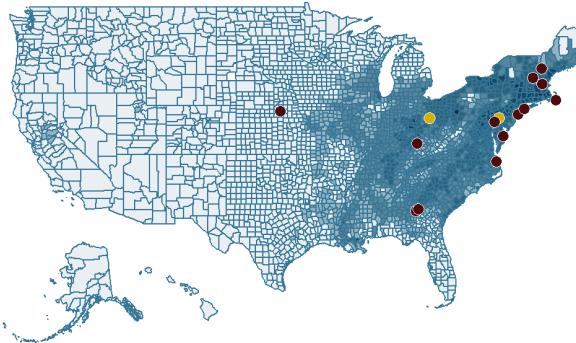
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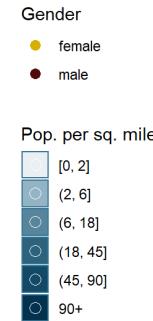
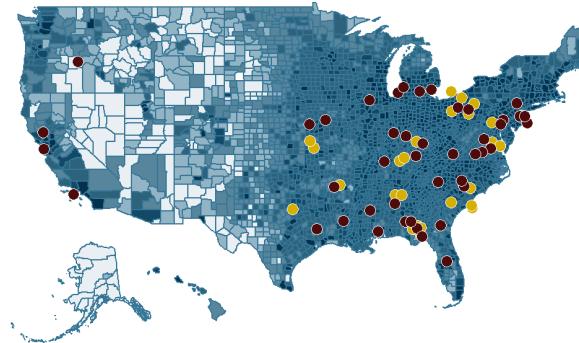
High Growth in Number of Firsts in High Density Areas

Migration of African American Firsts Follows Migration of Population

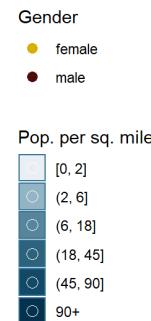
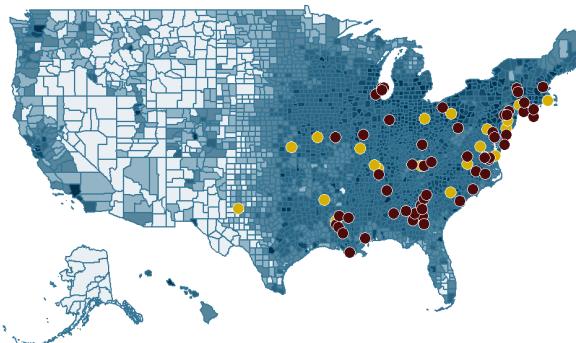
Location of "Firsts" and Population Density
before 1861



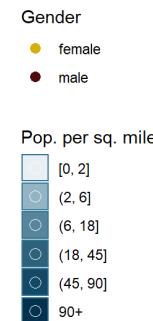
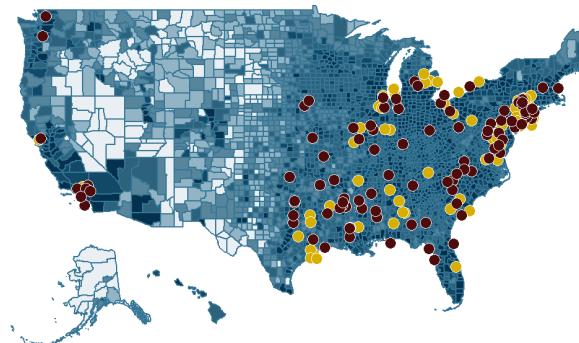
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1941 - 1962



Location of "Firsts" and Population Density
1861 - 1940



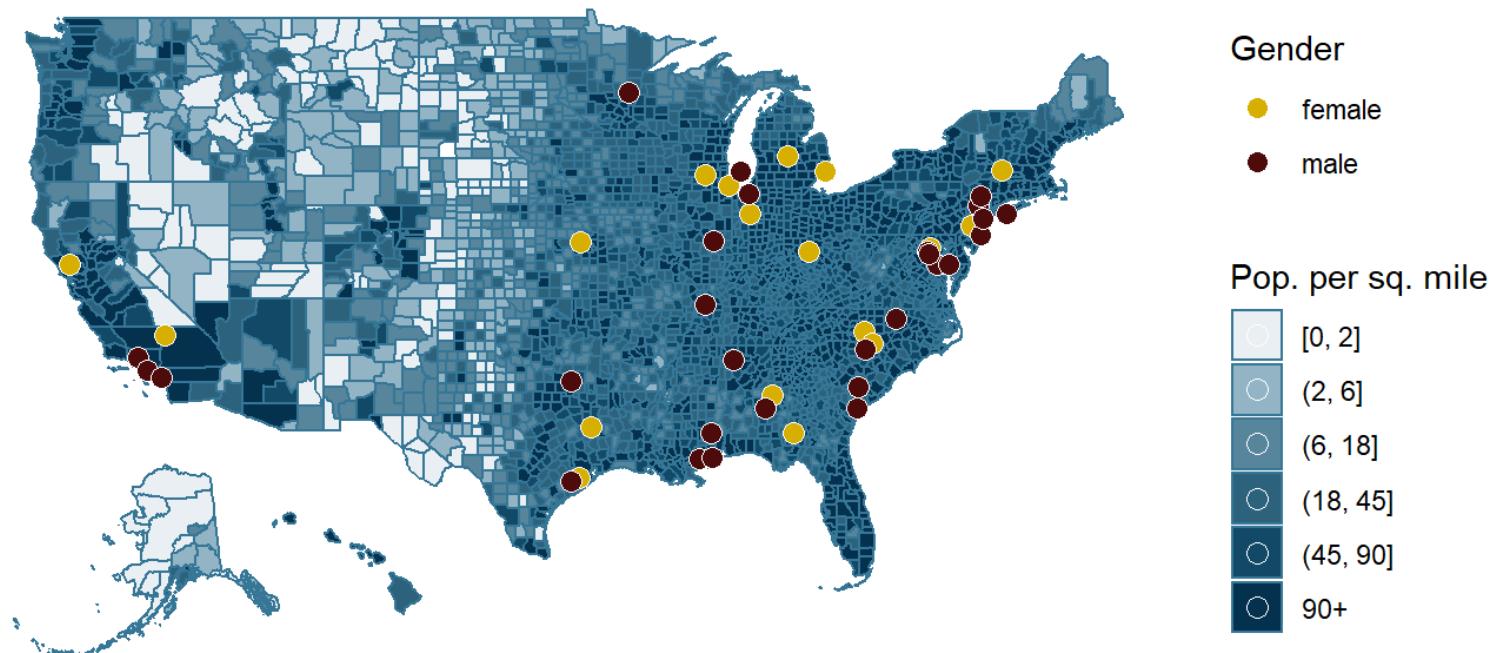
Location of "Firsts" and Population Density
1963 - 2007



Dispersion of Firsts have Stabilized over the Decade

Unequal Number of Female and Male Firsts Still Persists

Location of "Firsts" and Population Density
from 2008

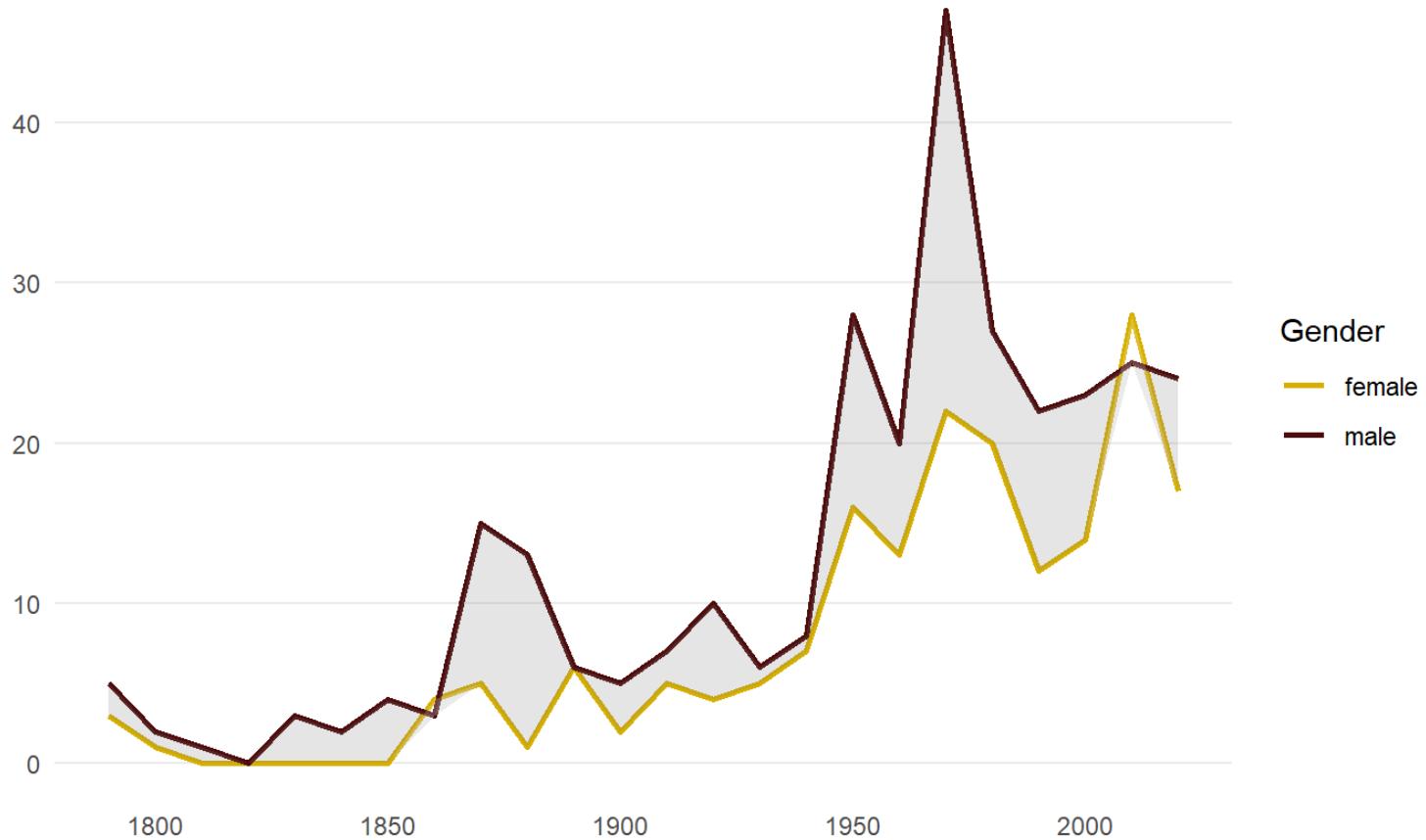


Gender Disparity Greatest for 1975

Number of Male Firsts have Exceeded Number of Women Firsts in Most Years

Gender Gap persists over Time

Number of "Firsts" by Gender

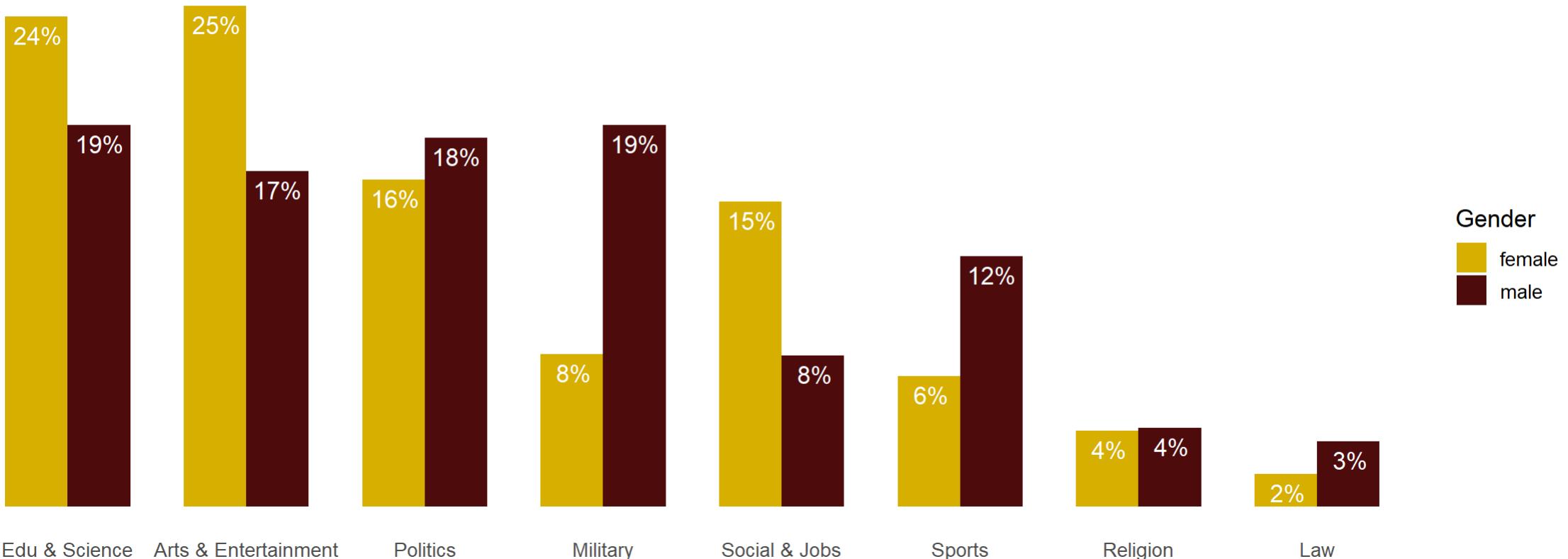


Decision Roles Has Largest Number of Male Firsts

Number of Male First Surpass Number of Female First Most for Politics and Military

African-American Achievements follow stereotypical Gender Roles!

FIRSTS by Gender and Category



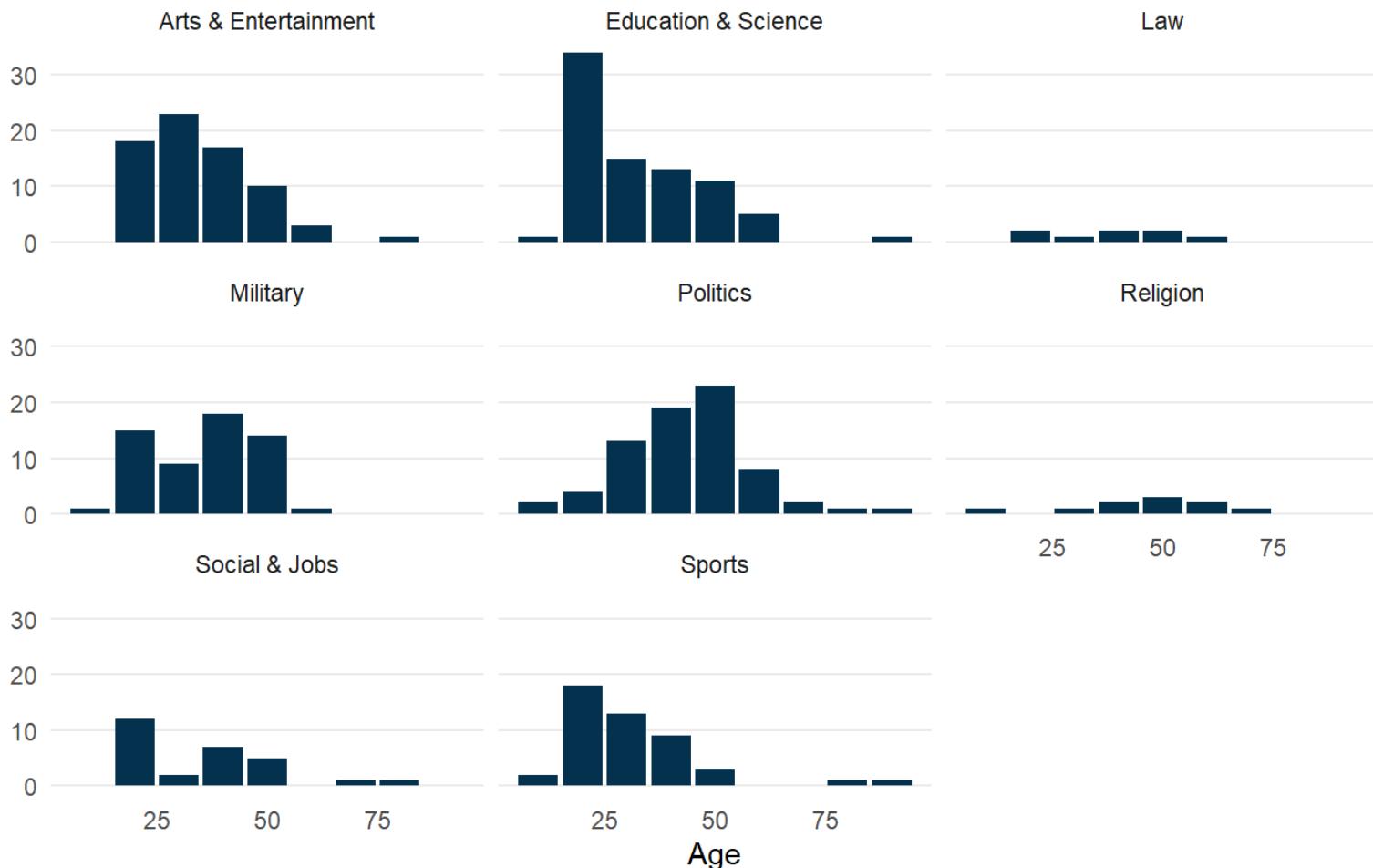
Backup

Stark Difference in Ages Between Categories

Politics have Eldest Firsts Amongst Other Categories

Different "Firsts" are typically achieved with different ages!

Number of "Firsts" by Age and Category

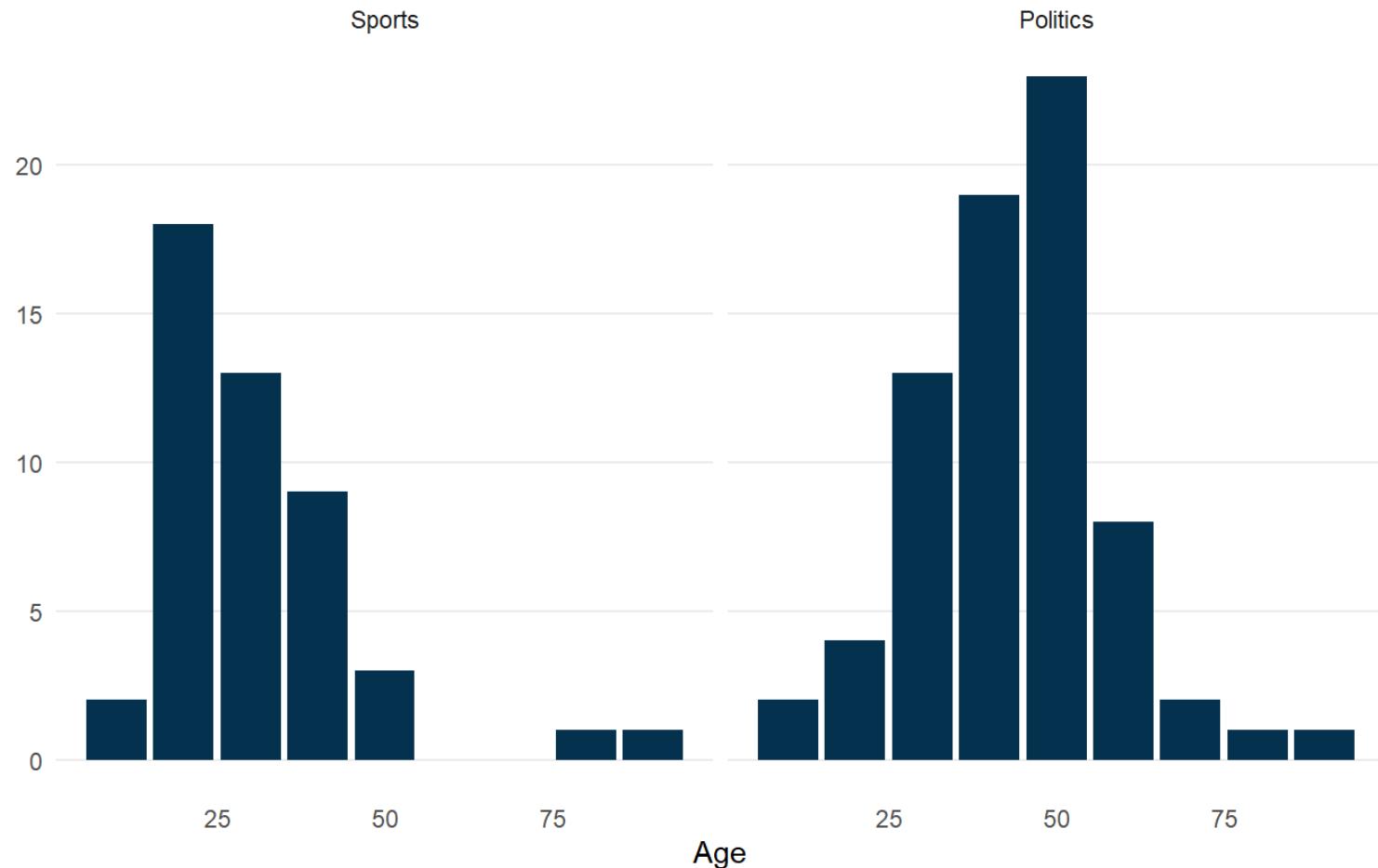


Differences in Age Distribution in Sports and Politics

Highest Spike of Sports First Occur at 20 and at 45 for Politics

"Firsts" in Sports are generally achieved in a younger age than "Firsts" in Politics

Number of "Firsts" by Age and Category

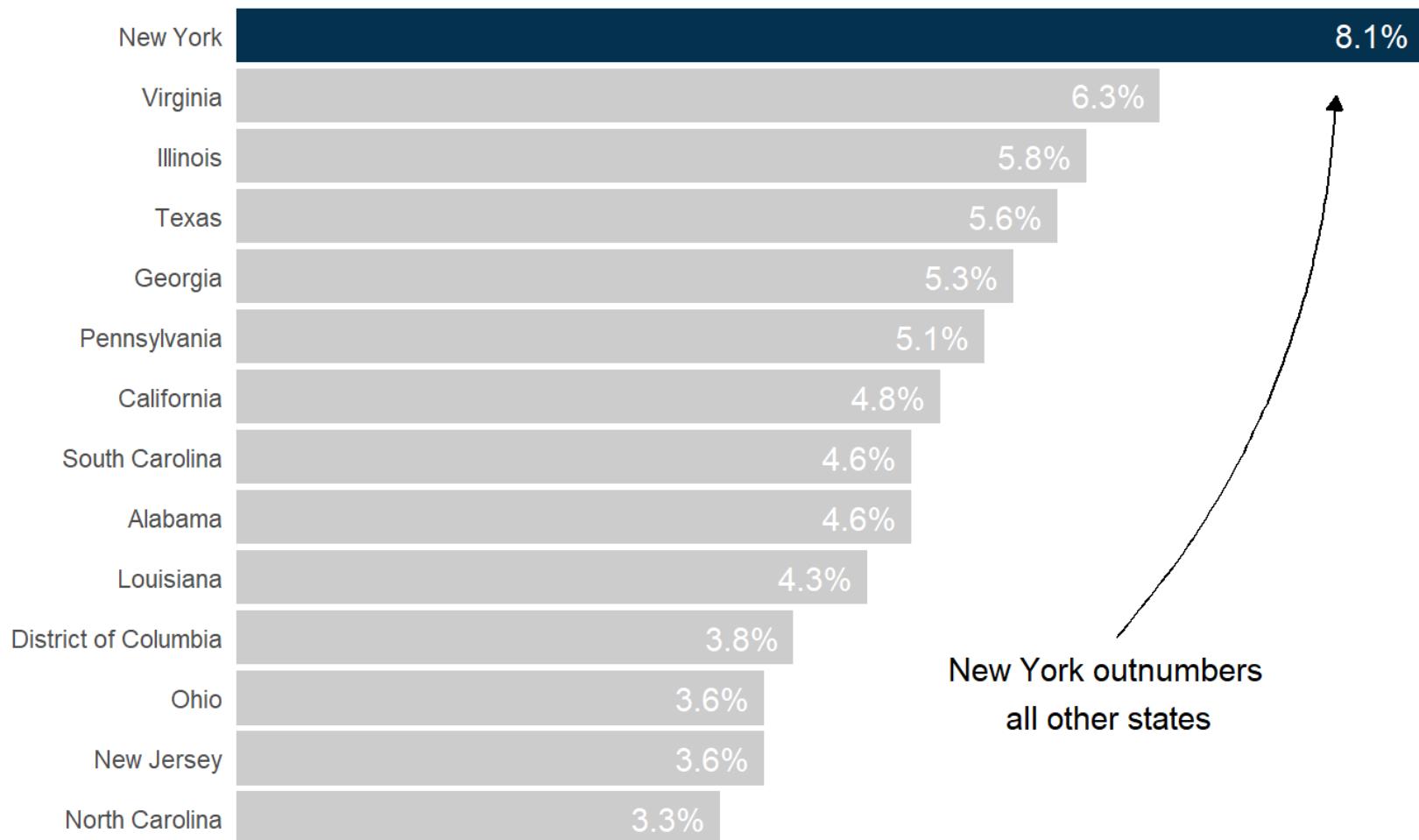


New York has Highest Number of Firsts

8.1% of the Firsts Occur in the State of New York

The most liberal States take the highest number of "Firsts"

Percentage of "Firsts" per State



**Thank you!
Any Questions?**