Age Group Analysis with Income Filter:
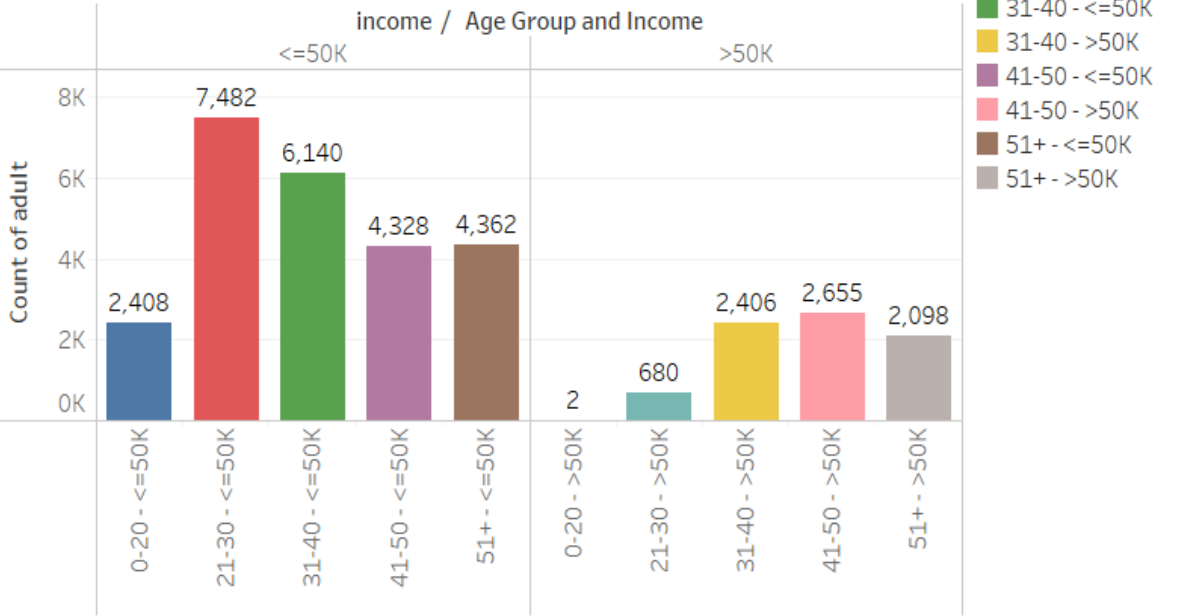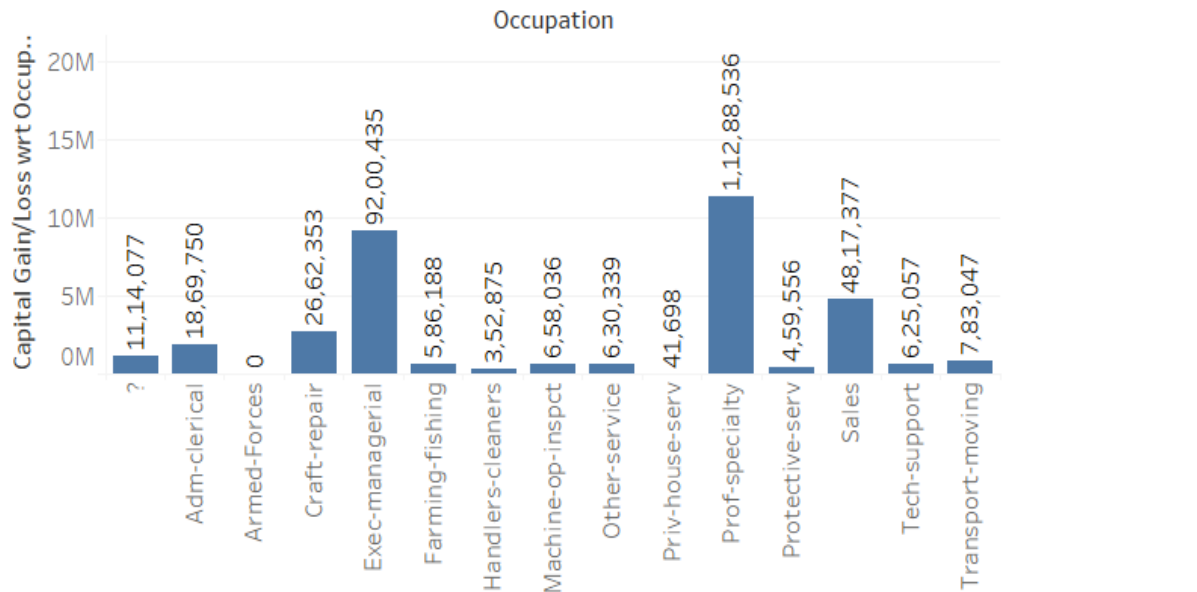## How does the income distribution vary across different age groups?
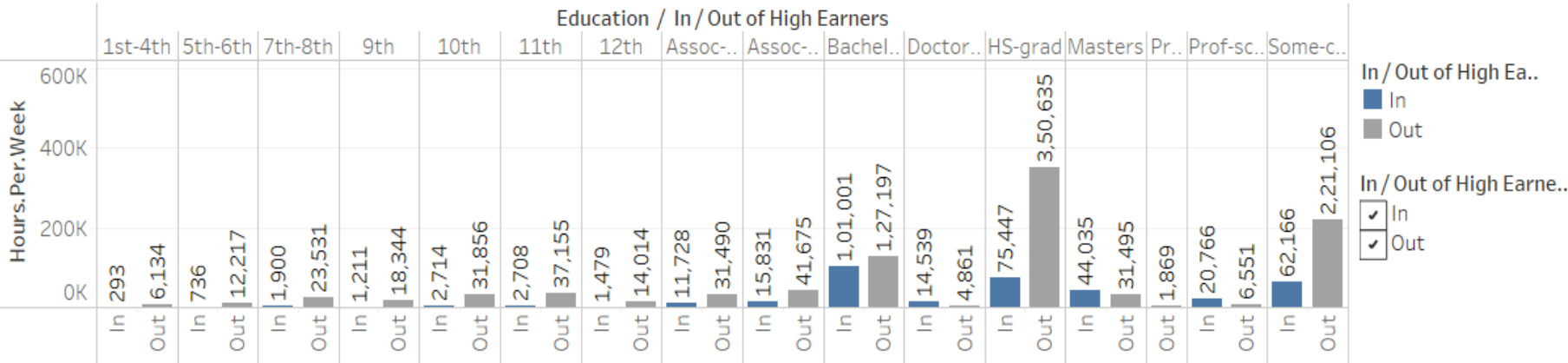
income / Age Group and Income

Age Group and Inc..
- 0-20 - <=50K
- 0-20 - >50K
- 21-30 - <=50K
- 21-30 - >50K
- 31-40 - <=50K
- 31-40 - >50K
- 41-50 - <=50K
- 41-50 - >50K
- 51+ - <=50K
- 51+ - >50K

<=50K
- 0-20 - <=50K: 2,408
- 21-30 - <=50K: 7,482
- 31-40 - <=50K: 6,140
- 41-50 - <=50K: 4,328
- 51+ - <=50K: 4,362

>50K
- 0-20 - >50K: 2
- 21-30 - >50K: 680
- 31-40 - >50K: 2,406
- 41-50 - >50K: 2,655
- 51+ - >50K: 2,098

Count of adult

Occupation Comparison with Grouping and Parameter:
How does the distribution of capital gain and loss vary across different occupations?

Capital Gain/Loss
- ● Capital Gain
- ○ Capital Loss

Occupation

Capital Gain/Loss wrt Occup..

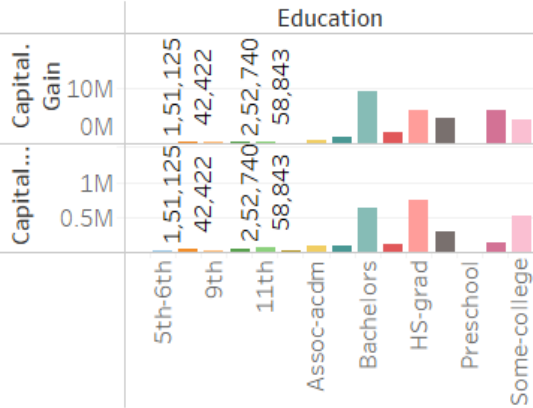| Occupation	Value
?	11,14,077
Adm-clerical	18,69,750
Armed-Forces	0
Craft-repair	26,62,353
Exec-managerial	92,00,435
Farming-fishing	5,86,188
Handlers-cleaners	3,52,875
Machine-op-inspct	6,58,036
Other-service	6,30,339
Priv-house-serv	41,698
Prof-specialty	1,12,88,536
Protective-serv	4,59,556
Sales	48,17,377
Tech-support	6,25,057
Transport-moving	7,83,047

Education and Hours Worked Interaction with Sets:
How does the relationship between education and hours worked per week differ for those earning over 50K?
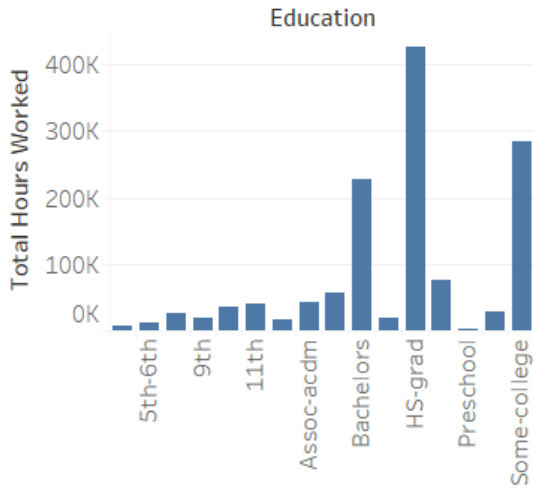
Education / In / Out of High Earners

In / Out of High Ea..
- ■ In
- ■ Out

In / Out of High Earne..
- ✔ In
- ✔ Out

Hours.Per.Week

Education	In	Out
1st-4th	293	6,134
5th-6th	736	12,217
7th-8th	1,900	23,531
9th	1,211	18,344
10th	2,714	31,856
11th	2,708	37,155
12th	1,479	14,014
Assoc-..	11,728	31,490
Assoc-..	15,831	41,675
Bachel..	1,01,001	1,27,197
Doctor..	14,539	4,861
HS-grad	75,447	3,50,635
Masters	44,035	31,495
Pr..		1,869
Prof-sc..	20,766	6,551
Some-c..	62,166	2,21,106

What is the ditribution of income among the different education levels?

Education

Count of adult

5th-6th: 16
9th: 27
10th: 62
12th: 33
Assoc-acdm: 265
Assoc-voc: 361
Doctorate: 306
Masters: 959
Prof-school: 423
Some-college: 1,387
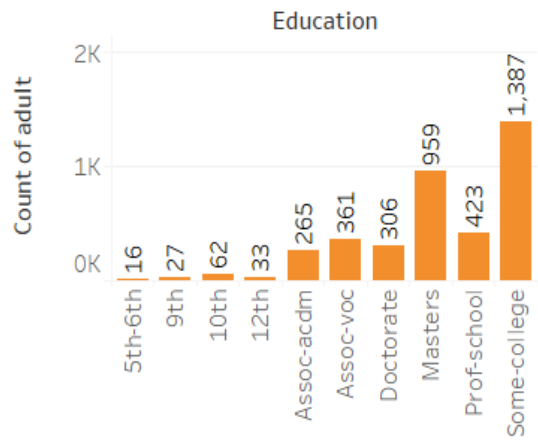
Which occupations have the highest representation of a particular race?

Occupation

White (labeled on bars: Adm-clerical, Craft-repair, Machine-op-ins.., Priv-house-serv, Protective-serv, Tech-support)
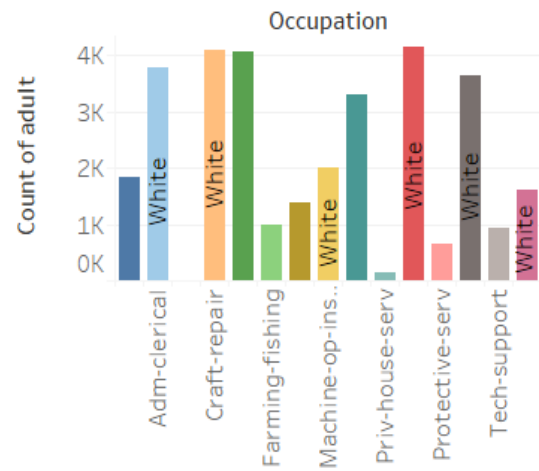
How does workclass relate to the average hours worked per week for different races?

Workclass

average hours worked per week

? : 31.92
Federal-.. : 41.38
Local-gov : 40.98
Never-.. : 28.43
Private : 40.27
Self-em.. : 48.82
Self-em.. : 44.42
State-g.. : 39.03
Withou.. : 32.71

Income
<=50K
✔ >50K

Education
1st-4th
✔ 5th-6th
7th-8th
✔ 9th
✔ 10th

Income
>50K

Income
<=50K
✔ >50K

Race
✔ Amer-Indian-Esk..
✔ Asian-Pac-Island..
✔ Black
✔ Other
✔ White
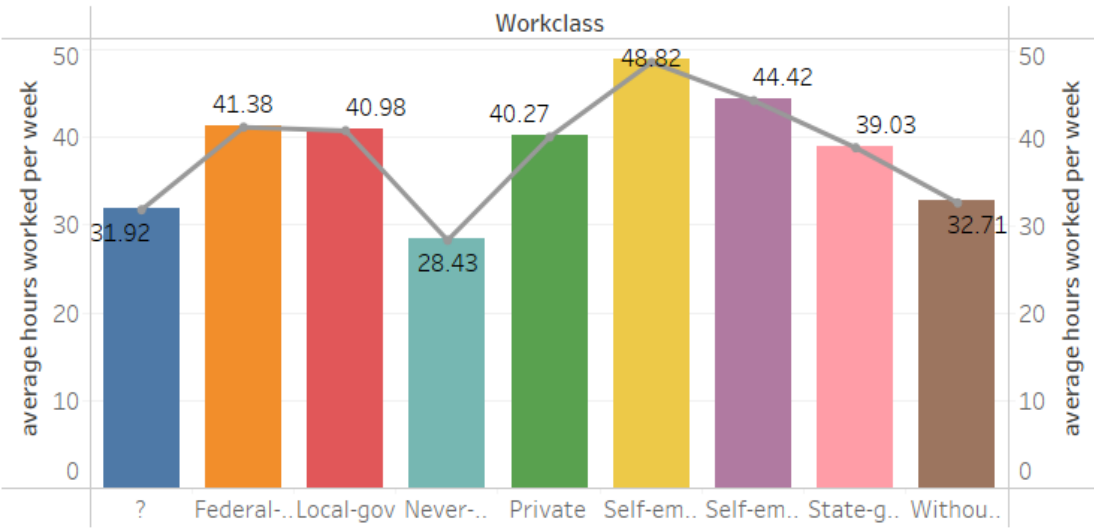
Dual Axis between Workclass, Age and Hours worked

Workclass

average hours worked per week / Age

Never-.. : 28.43 / 144
? : 31.92 / 75,203
Withou.. : 32.71 / 669
State-.. : 39.03 / 51,188
Private : 40.27 / 8,35,158
Local-g.. : 40.98 / 87,385
Federa.. : 41.38 / 40,887
Self-e.. : 44.42 / 1,14,268
Self-e.. : 48.82 / 51,355
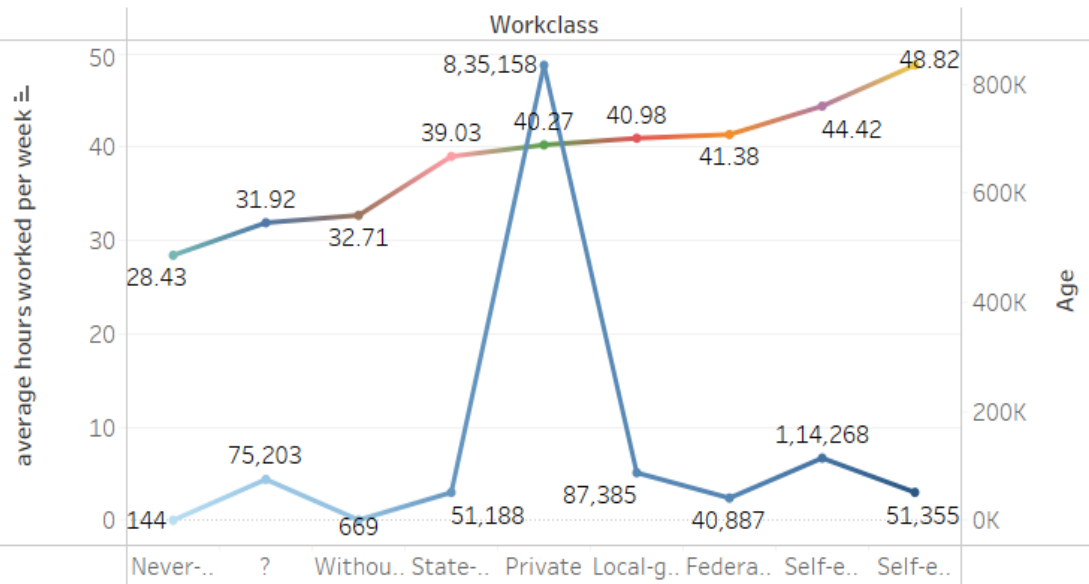
Which native countries have the highest concentration of individuals earning above 50K?

Income
>50K

Canada
United-States
Peru
Portugal
Greece
Iran
India
Japan

© 2023 Mapbox © OpenStreetMap

Occupation
■ ?
■ Adm-clerical
■ Armed-Forces
■ Craft-repair
■ Exec-managerial

average hours work..
28.43 ——— 48.82

Workclass
■ ?
■ Federal-gov
■ Local-gov
■ Never-worked
■ Private