SNAP Penetration Rate by Tract, by Ethnicity

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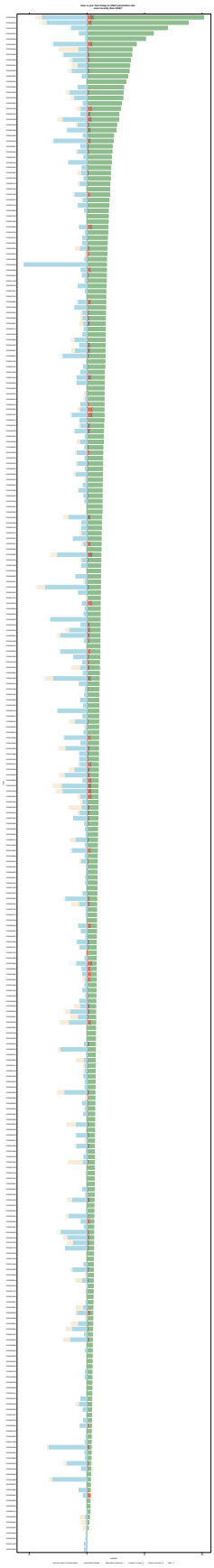
Read & Clean Data

```
library(tidyr)
library(HH)
library(tidyverse)
snap_analysis <- read.csv("~/Downloads/snap_analysis.csv", stringsAsFactors=TRUE)

# select the wanted columns/variables:
newdf<-snap_analysis[c('elig_month','tract','race_ethnicity','snap_perc_by_adjusted_income')]

# select latest snap performance availabie:
newdata <- newdf[ which(newdf['elig_month']=='2019-12-01'), ]

# change data from long to wide:
dfw<- spread(newdata, race_ethnicity, snap_perc_by_adjusted_income)

# add a new column - 'race_sums' aggregates SNAP rates for all races in that tract and use this column
# cratirie for ranking the graph below
dfw$race_sums <- rowSums(dfw[,c('American Indian or Alaskan Native','Asian/Pacific Islander','Black/Afri
df<-dfw %>% arrange(desc(race_sums))
df11<-df[c('tract','American Indian or Alaskan Native','Asian/Pacific Islander','Black/African American
df1=df11[,-8]
```

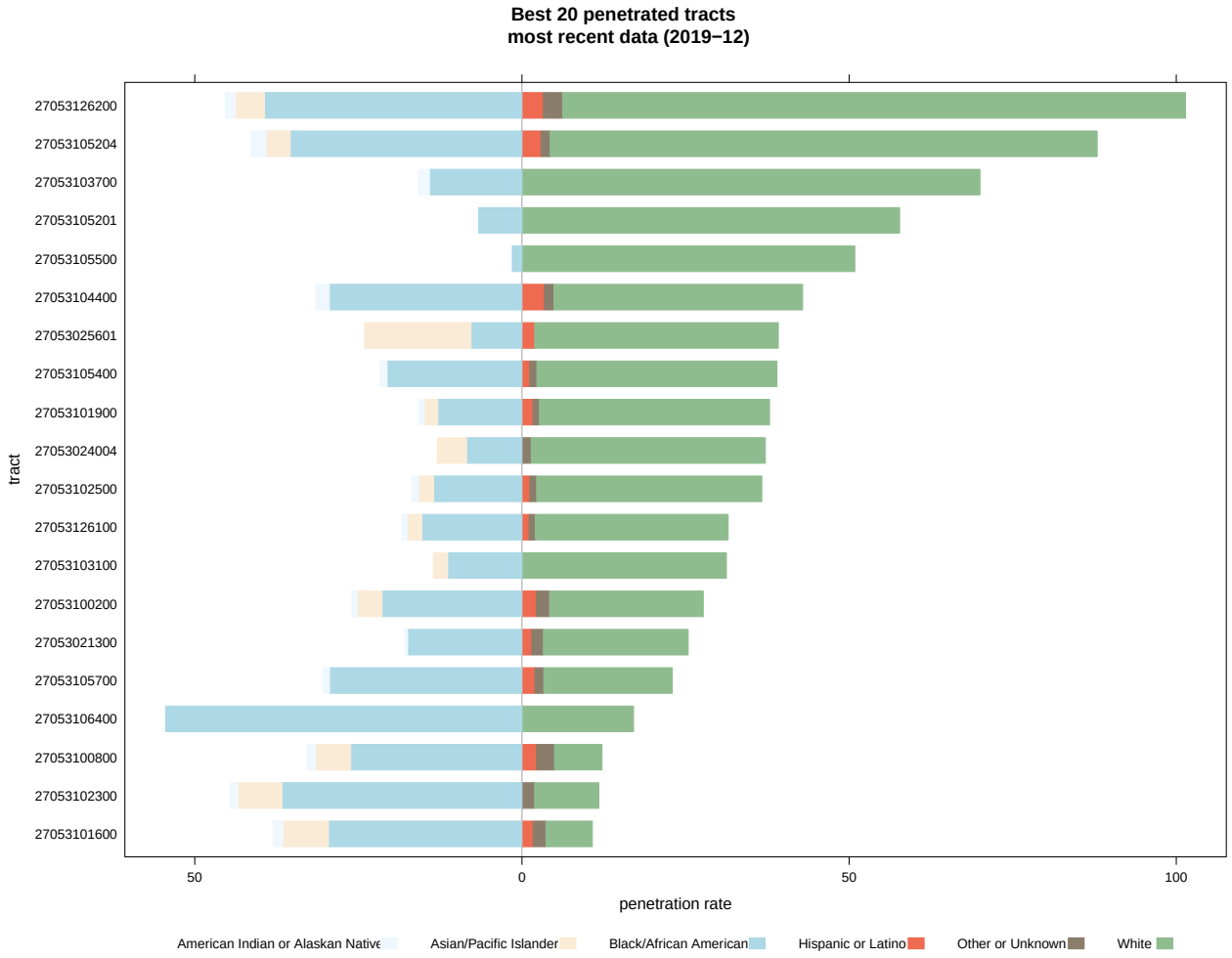
Graph SNAP rate by race by each tract, ordered from highest penatration to the lowest:

```
HH::likert(tract ~ ., df1, main="How is your tract doing on SNAP penetration rate \nmost recently (Dec 1
```



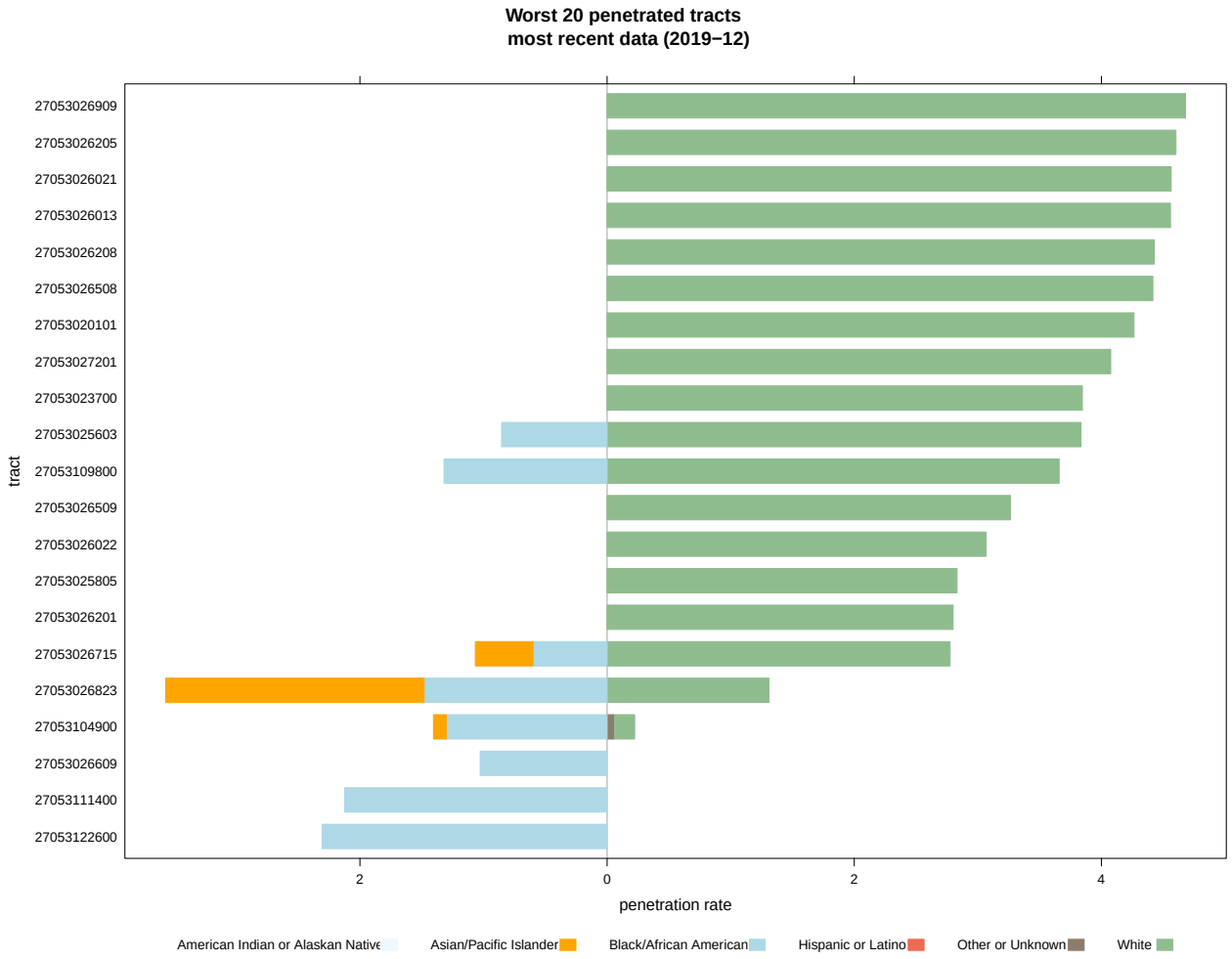
Top 20 tracts:

```
HH::likert(tract ~ ., df1[c(1:20),], main="Best 20 penetrated tracts  \nmost recent data (2019-12)", x
```



Bottom 20 tracts:

```
df2<-df1[c(266:286),]
  HH::likert(tract ~ ., df2, main="Worst 20 penetrated tracts  \nmost recent data (2019-12)", xlab='pene
```


Worst 20 penetrated tracts
most recent data (2019−12)
tract
27053026909
27053026205
27053026021
27053026013
27053026208
27053026508
27053020101
27053027201
27053023700
27053025603
27053109800
27053026509
27053026022
27053025805
27053026201
27053026715
27053026823
27053104900
27053026609
27053111400
27053122600
2
0
2
4
penetration rate
American Indian or Alaskan Native
Asian/Pacific Islander
Black/African American
Hispanic or Latino
Other or Unknown
White