Dr. Lecy Example on xwalk

head(vars1990)

grep( "Spec Rent-occ HUs", vars1990$label, value=TRUE )

substr( vars1990$name, start=1, stop=4 ) %>% table %>% sort()

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x1 <- c( "P0030001", "P0050001", "P0050002" )

x2 <- c( "TotalPop", "Male", "Female")

new.names <- paste0( x1, "=", x2 )

new.names

dat <- rename( dat, new.names )

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Rules for creating the crosswalk

1. If a tract-id was split from xxxx-00 to xxxx-01 and xxxx-02 then asssign xxxx-00 to both.
2. If a tract-id was split from xxxx-08 to xxxx-08 and xxxx-09 then assign xxxx-08 to both.

Basically you need to assign 1990 data from the combined tract to all of the new tracts.

These files were created as follows:

library( dplyr )

library( geojsonio )

library( sp )

url <- "https://raw.githubusercontent.com/lecy/neighborhood\_change\_phx/master/shapefiles/county.geojson"

phx <- geojson\_read( url, method = "local", what="sp" )

dat <- read.csv( "https://raw.githubusercontent.com/lecy/neighborhood\_change\_phx/master/data/1990\_race\_data.csv",

stringsAsFactors=F, colClasses="character" )

geoid <- paste0( dat$state, dat$county, dat$tract )

crosswalk <- phx@data[ c("STATEFP00", "COUNTYFP00", "TRACTCE00","X") ]

crosswalk$X <- is.na(crosswalk$X)

crosswalk$TRACT4 <- substr( crosswalk$TRACTCE00, 1, 4 )

crosswalk$TRACT2 <- substr( crosswalk$TRACTCE00, 5, 6 )

crosswalk$GEOID\_1990 <- crosswalk$TRACTCE00

crosswalk$GEOID\_1990[ is.na(phx@data$X) ] <- NA

crosswalk <- crosswalk[c("STATEFP00", "COUNTYFP00", "TRACT4", "TRACT2", "X",

"TRACTCE00","GEOID\_1990")]

names(crosswalk) <-

c("STATEFP00", "COUNTYFP00", "TRACT4", "TRACT2",

"MISSING", "TRACTCE00", "GEOID\_1990")

crosswalk <- arrange( crosswalk, TRACT4, TRACT2 )

write.csv( crosswalk, "Tract-Crosswalk-1990-to-2010.csv", row.names=F )

these <- setdiff( dat$geoid, phx$CTIDFP00 )

void.1990 <- data.frame( GEOID=these, TRACT4=substr(these,6,9), TRACT2=substr(these,10,11) )

write.csv( void.1990, "Void-1990-Tract-IDs.csv", row.names=F )

these <- intersect( dat$geoid, phx$CTIDFP00 )

active.1990 <- data.frame( GEOID=these, TRACT4=substr(these,6,9), TRACT2=substr(these,10,11) )

write.csv( active.1990, "Valid-1990-Tract-IDs.csv", row.names=F )