tmp.r

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rm(list=ls())  
#pre-reqs  
require(stringr)

## Loading required package: stringr

require(tidyr)

## Loading required package: tidyr

require(dplyr)

## Loading required package: dplyr  
##   
## Attaching package: 'dplyr'  
##   
## The following object is masked from 'package:stats':  
##   
## filter  
##   
## The following objects are masked from 'package:base':  
##   
## intersect, setdiff, setequal, union

require(repmis)

## Loading required package: repmis

require(vegan)

## Loading required package: vegan  
## Loading required package: permute  
## Loading required package: lattice  
## This is vegan 2.2-1

require(ggplot2)

## Loading required package: ggplot2

# d  
  
dwell\_sizes <- read.csv("data/derived/dwellings\_by\_size.csv") %>% tbl\_df  
greater\_glasgow\_dzs <- read.csv("data/geographies/dzs\_in\_greater\_glasgow.csv") %>% tbl\_df   
tenure <- read.csv("data/derived/tenure\_by\_dz.csv") %>% tbl\_df# note this is glasgow only   
  
tenure <- tenure %>%  
 select(datazone=dz\_2001, all\_households, social, rented, owned)  
  
tenure <- tenure %>%  
 mutate(  
 social\_tertile=ntile(social, 3),  
 social=social \* all\_households,   
 rented=rented \* all\_households,   
 owned=owned \* all\_households  
 ) %>%  
 select(-all\_households)  
  
tenure$diversity <- diversity(  
 as.matrix(tenure[,2:4])  
)  
  
tenure <- tenure %>%  
 mutate(diversity\_tertile=ntile(diversity, 3))  
  
dwell\_sizes <- dwell\_sizes %>%  
 inner\_join(greater\_glasgow\_dzs, by=c("datazone"="dz\_2001")) %>%  
 select(-chp) %>%  
 filter(year==2006)

## Warning: joining factors with different levels, coercing to character  
## vector

combined <- tenure %>%  
 inner\_join(dwell\_sizes)

## Joining by: "datazone"

## Warning: joining factor and character vector, coercing into character  
## vector

ggplot(data=combined) +   
 facet\_grid(social\_tertile ~ diversity\_tertile) +   
 geom\_boxplot(aes(x=factor(num\_of\_rooms), y=count)) +   
 labs(x="number of rooms", y="count")

