

# final.declaredesign

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2022-05-12

```
#create my fake data
library(bindata)
M <- matrix(c(.5, .2, .2, .5, .5, .2, .2, .5,.5, .2, .2, .5,.5, .2, .2, .5,.5, .2, .2, .5,.5, .2, .2,
colnames(M) <- c("secede","repress", "settle", "h_oppressed", "f_autonomy", "gdp_ten", "democracy", "fa
M

##      secede repress settle h_oppressed f_autonomy gdp_ten democracy
## [1,]    0.5    0.2    0.2          0.5          0.5    0.2    0.2
##      failed_state
## [1,]           0.5

fakedat <- rmvbin(403, margprob=c(M))

fakedat <- as.data.frame(fakedat)

library(dplyr)

## Warning: package 'dplyr' was built under R version 4.1.2

##
## Attaching package: 'dplyr'

## The following objects are masked from 'package:stats':
##
##      filter, lag

## The following objects are masked from 'package:base':
##
##      intersect, setdiff, setequal, union

fakedat <- fakedat %>%
  rename(
    secede = V1,
    repress = V2,
    settle = V3,
    h_oppressed =V4,
    f_autonomy = V5,
    gfp_ten = V6,
    democracy = V7,
```

```

    failed_state = V8
  )
#View(fakedat)

install.packages("jsonlite", repos="https://cran.rstudio.com/")

## Installing package into '/Users/ruth.holloway/Library/R/x86_64/4.1/library'
## (as 'lib' is unspecified)

##
## The downloaded binary packages are in
## /var/folders/_2/4w14c6p95nx8mnmvncmk15680000gn/T//Rtmp6A3dbM/downloaded_packages

library("jsonlite")

## Warning: package 'jsonlite' was built under R version 4.1.2

json_file <- 'https://datahub.io/core/country-list/datapackage.json'
json_data <- fromJSON(paste(readLines(json_file), collapse=""))

## Warning in readLines(json_file): incomplete final line found on 'https://
## datahub.io/core/country-list/datapackage.json'

for(i in 1:length(json_data$resources$datahub$type)){
  if(json_data$resources$datahub$type[i]=='derived/csv'){
    path_to_file = json_data$resources$path[i]
    dat <- read.csv(url(path_to_file))
    #print(dat)
  }
}

R <- set.seed(123)
R <- sample(1:249, 403, replace=TRUE)
fakedat$ccode<-R
#View(fakedat)

S <- set.seed(123)
S <- sample(1:249, 249, replace=FALSE)
dat$ccode<-S
#View(dat)

Q<-set.seed(1234)
Q<-sample(0:1, 403, replace=TRUE)

L<-set.seed(1234)
L<-sample(0:1, 403, replace=TRUE)

M<-set.seed(1234)
M<-sample(0:1, 403, replace=TRUE)

Y<-set.seed(1234)

```

```

Y<-sample(0:1, 403, replace=TRUE)

mydat <- left_join(fakedat, dat)

## Joining, by = "ccode"

mydat$repress <- ifelse (mydat$secede==1, 0,1)
mydat<-subset(mydat, select = -c(settle))
#View(mydat)

#create my matches
library(optmatch)

## Warning: package 'optmatch' was built under R version 4.1.2

## Loading required package: survival

fm1 <- fullmatch(secede~h_oppressed+democracy+failed_state, data=mydat)
summary(fm1)

## Structure of matched sets:
## 5+:1  4:1  3:1  1:1  1:2  1:3 1:5+
##      1    1    2 177    1    1    2
## Effective Sample Size: 189.7
## (equivalent number of matched pairs).

fm2 <- fullmatch(secede~f_autonomy+democracy+failed_state, data=mydat)
summary(fm2)

## Structure of matched sets:
## 5+:1  4:1  3:1  2:1  1:1  1:2  1:4 1:5+
##      1    1    1    1 177    1    1    1
## Effective Sample Size: 188.1
## (equivalent number of matched pairs).

fm3 <- fullmatch(secede~gfp_ten+democracy+failed_state, data=mydat)
summary(fm3)

## Structure of matched sets:
## 5+:1  3:1  2:1  1:1 1:5+
##      2    1    1 180    2
## Effective Sample Size: 189.9
## (equivalent number of matched pairs).

#evaluate my matches
library(RIttools)

## Warning: package 'RIttools' was built under R version 4.1.2

```

```
## Loading required package: SparseM
```

```
##
```

```
## Attaching package: 'SparseM'
```

```
## The following object is masked from 'package:base':
```

```
##
```

```
## backsolve
```

```
xb1 <- xBalance(secede~h_oppressed+democracy+failed_state,  
  strata = list(raw = NULL),  
  data = mydat,  
  report = c(  
    "std.diffs", "z.scores", "adj.means",  
    "adj.mean.diffs", "chisquare.test", "p.values"  
  )  
)  
xb1$results
```

```
## , , strata = raw
```

```
##
```

```
##          stat  
## vars      secede=0 secede=1  adj.diff  std.diff      z      p  
## h_oppressed 0.4923858 0.4514563 -0.04092948 -0.08185767 -0.8217682 0.4112088  
## democracy   0.1776650 0.1601942 -0.01747080 -0.04654561 -0.4675367 0.6401160  
## failed_state 0.5126904 0.4660194 -0.04667094 -0.09323479 -0.9357494 0.3494022  
##  
## attr("originals")  
## [1] "h_oppressed" "democracy" "failed_state"
```

```
xb1$results["h_oppressed", , ]
```

```
##      secede=0  secede=1  adj.diff  std.diff      z      p  
## 0.49238579 0.45145631 -0.04092948 -0.08185767 -0.82176820 0.41120883
```

```
xb2 <- xBalance(secede~f_autonomy+democracy+failed_state,  
  strata = list(raw = NULL),  
  data = mydat,  
  report = c(  
    "std.diffs", "z.scores", "adj.means",  
    "adj.mean.diffs", "chisquare.test", "p.values"  
  )  
)  
xb2$results
```

```
## , , strata = raw
```

```
##
```

```
##          stat  
## vars      secede=0 secede=1  adj.diff  std.diff      z      p  
## f_autonomy 0.5380711 0.4708738 -0.06719728 -0.13436795 -1.3470026 0.1779794  
## democracy 0.1776650 0.1601942 -0.01747080 -0.04654561 -0.4675367 0.6401160
```

```
## failed_state 0.5126904 0.4660194 -0.04667094 -0.09323479 -0.9357494 0.3494022
##
## attr(,"originals")
## [1] "f_autonomy" "democracy" "failed_state"
```

```
xb2$results["f_autonomy", , ]
```

```
## secede=0 secede=1 adj.diff std.diff z p
## 0.53807107 0.47087379 -0.06719728 -0.13436795 -1.34700257 0.17797940
```

```
xb3 <- xBalance(secede~gfp_ten+democracy+failed_state,
  strata = list(row = NULL),
  data = mydat,
  report = c(
    "std.diffs", "z.scores", "adj.means",
    "adj.mean.diffs", "chisquare.test", "p.values"
  )
)
xb3$results
```

```
## , , strata = raw
##
##          stat
## vars      secede=0 secede=1 adj.diff std.diff z p
##  gfp_ten      0.2030457 0.2378641 0.03481839 0.08380235 0.8412569 0.4002040
##  democracy    0.1776650 0.1601942 -0.01747080 -0.04654561 -0.4675367 0.6401160
##  failed_state 0.5126904 0.4660194 -0.04667094 -0.09323479 -0.9357494 0.3494022
##
## attr(,"originals")
## [1] "gfp_ten" "democracy" "failed_state"
```

```
xb3$results["gfp_ten", , ]
```

```
## secede=0 secede=1 adj.diff std.diff z p
## 0.20304569 0.23786408 0.03481839 0.08380235 0.84125690 0.40020403
```

```
#use DeclareDesign to simulate difference outcomes
library(DeclareDesign)
```

```
## Warning: package 'DeclareDesign' was built under R version 4.1.2
```

```
## Loading required package: randomizr
```

```
## Warning: package 'randomizr' was built under R version 4.1.2
```

```
## Loading required package: fabricatr
```

```
## Warning: package 'fabricatr' was built under R version 4.1.2
```

```
## Loading required package: estimatr
```

```
## Warning: package 'estimatr' was built under R version 4.1.2
```

```
##
```

```
## Attaching package: 'DeclareDesign'
```

```
## The following object is masked from 'package:dplyr':
```

```
##
```

```
## vars
```

```
library(MatchIt) #I know we're not supposed to use MatchIt but it's a last resort; my handler isn't working
```

```
## Warning: package 'MatchIt' was built under R version 4.1.2
```

```
full_match <-  
  function(data) {  
    matched <- matchit(D ~ X+U+P, method="optimal", data = data)  
    match.data(matched)  
  }
```

```
declaration1 <-  
  declare_model(N = 403,  
    U = Q,  
    X = L,  
    D = M,  
    P = Y,  
    Y_D_0 = 0.2 * X + U,  
    Y_D_1 = Y_D_0 + 0.5)+  
  declare_inquiry(ATE = mean(Y_D_1 - Y_D_0))+  
  declare_step(handler=full_match)+  
  declare_measurement(Y = reveal_outcomes(Y ~ D))+  
  declare_estimator(Y ~ D,  
    weights = weights,  
    model = difference_in_means,  
    label = "adjusted") +  
  declare_estimator(Y ~ D,  
    model = difference_in_means,  
    label = "unadjusted")  
  
diagnose_design(declaration1)
```

```
## Warning: glm.fit: algorithm did not converge
```

```
## Warning: Fewer control units than treated units; not all treated units will get  
## a match.
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## Constant 'weights' passed to 'difference_in_means' will unnecessarily trigger 'lm_robust()' and the V
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##
## Research design diagnosis based on 500 simulations. Diagnosis completed in 2 mins. Diagnosand estimat
##
##      Design Inquiry  Estimator Term N Sims Mean Estimand Mean Estimate  Bias
## declaration1      ATE   adjusted   D   500      0.50      1.70  1.20
##                                     (0.00)      (0.00) (0.00)
## declaration1      ATE unadjusted   D   500      0.50      1.70  1.20
##                                     (0.00)      (0.00) (0.00)
## SD Estimate  RMSE  Power Coverage
##      0.00    1.20    1.00    0.00
##      (0.00) (0.00) (0.00)  (0.00)
##      0.00    1.20     NA     NA
##      (0.00) (0.00)     NA     NA
```