

# Package ‘rdss’

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**Title** Companion Datasets and Functions for Research Design in the Social Sciences

**Version** 1.0.14

**Description** Helper functions to accompany the Blair, Coppock, and Humphreys (2022) ``Research Design in the Social Sciences: Declaration, Diagnosis, and Redesign'' <<https://book.declaredesign.org>>. ‘rdss’ includes datasets, helper functions, and plotting components to enable use and replication of the book.

**Imports** dplyr, rlang (>= 1.0.0), generics, ggplot2, tibble, tidyverse, readr, broom, purrr, estimatr, randomizr

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**Depends** R (>= 2.10)

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add\_parens*Add parentheses around standard error estimates*

---

**Description**

Add parentheses around standard error estimates

**Usage**

```
add_parens(x, digits = 3)
```

**Arguments**

x	Numeric vector
digits	Number of digits to retain

**Value**

A character vector with enclosing parentheses

**Examples**

```
std.error <- c(0.12, 0.001, 1.2)
add_parens(std.error)
```

---

best_predictor	<i>Best predictor function from causal_forest</i>
----------------	---

---

**Description**

Best predictor function from causal\_forest

**Usage**

```
best_predictor(data, covariate_names, cuts = 20)
```

**Arguments**

data	A data.frame of covariates
covariate_names	A character vector of covariates to assess
cuts	Either a numeric vector of two or more unique cut points or a single number (greater than or equal to 2) giving the number of intervals into which each covariate is to be cut.

**Value**

a data.frame of the best predictors

---

bonilla_tillery	<i>Replication data for Bonilla and Tillary (2020), American Political Science Review (obtained from Dataverse 10.7910/DVN/IUZDQI)</i>
-----------------	--

---

**Description**

Replication data for Bonilla and Tillary (2020), American Political Science Review (obtained from Dataverse 10.7910/DVN/IUZDQI)

**Usage**

```
bonilla_tillery
```

## Format

A data.frame

**causal\_forest\_handler** *Tidy helper function for causal\_forest function*

## Description

Runs estimates estimation function from interference package and returns tidy data frame output

## Usage

```
causal_forest_handler(data, covariate_names, share_train = 0.5, ...)
```

## Arguments

data	A data.frame
covariate_names	Names of covariates
share_train	Share of units to be used for training
...	Options to causal_forest

## Details

<https://draft.declaredesign.org/complex-designs.html#discovery-using-causal-forests>  
See ?causal\_forest for further details

## Value

a data.frame of estimates

## Examples

```
library(DeclareDesign)
library(ggplot2)

dat <- fabricate(
  N = 1000,
  A = rnorm(N),
  B = rnorm(N),
  Z = complete_rs(N),
  Y = A*Z + rnorm(N))

# note: remove num.threads = 1 to use more processors
estimates <- causal_forest_handler(data = dat, covariate_names = c("A", "B"), num.threads = 1)

ggplot(data = estimates, aes(A, pred)) + geom_point()
```

---

clingingsmith_eta	<i>Replication data for David Clingingsmith, Asim Ijaz Khwaja, Michael Kremer (2020): Estimating the Impact of The Hajj: Religion and Tolerance in Islam's Global Gathering. The Quarterly Journal of Economics, Volume 124, Issue 3, August 2009, Pages 1133-1170</i>
-------------------	--

---

### Description

Replication data for David Clingingsmith, Asim Ijaz Khwaja, Michael Kremer (2020): Estimating the Impact of The Hajj: Religion and Tolerance in Islam's Global Gathering. The Quarterly Journal of Economics, Volume 124, Issue 3, August 2009, Pages 1133-1170

### Usage

```
clingingsmith_eta
```

### Format

A data.frame

---

conjoint_assignment	<i>Conjoint experiment assignment handler: conducts complete random assignment of all attribute levels</i>
---------------------	--

---

### Description

See <https://book.declaredesign.org/experimental-descriptive.html#conjoint-experiments>

### Usage

```
conjoint_assignment(data, levels_list)
```

### Arguments

data	A data.frame
levels_list	List of conjoint levels to assign

### Value

a data.frame with random assignment added

`conjoint_inquiries`     *Conjoint experiment inquiries handler*

### Description

See <https://book.declaredesign.org/experimental-descriptive.html#conjoint-experiments>

### Usage

```
conjoint_inquiries(data, levels_list, utility_fn)
```

### Arguments

<code>data</code>	A data.frame
<code>levels_list</code>	List of conjoint levels
<code>utility_fn</code>	a function that takes data and returns an additional column called U, which represents the utility of the choice

### Value

a data.frame of estimand values

`conjoint_measurement`     *Conjoint experiment assignment handler: conducts complete random assignment of all attribute levels*

### Description

See <https://book.declaredesign.org/experimental-descriptive.html#conjoint-experiments>

### Usage

```
conjoint_measurement(data, utility_fn)
```

### Arguments

<code>data</code>	A data.frame
<code>utility_fn</code>	a function that takes data and returns an additional column called U, which represents the utility of the choice

### Value

a data.frame

---

**dd\_palette**

*Access color palette used in the book "Research Design: Declare, Diagnose, Redesign" (Blair, Coppock, Humphreys)*

---

## Description

Based on Karthik Ram's wesanderson package (<https://github.com/karthik/wesanderson>)

## Usage

```
dd_palette(name, n)
```

## Arguments

name	Color palette name (character)
n	Number of colors

## Details

Available color palettes:

```
color_palette = c("#72B4F3", "#F38672", "#C6227F")
grey_palette = c("#72B4F3", "#F38672", "#C6227F", gray(0.8))
dd_dark_blue = "#3564ED"
dd_light_blue = "#72B4F3"
dd_orange = "#F38672"
dd_purple = "#7E43B6"
dd_gray = gray(0.2)
dd_pink = "#C6227F"
dd_light_gray = gray(0.8)
dd_dark_blue_alpha = "#3564EDA0"
dd_light_blue_alpha = "#72B4F3A0"
```

## Value

character vector of colors

---

`did_multiplegt_tidy`    *Tidy helper function for did\_multiplegt*

---

**Description**

Runs did\_multiplegt estimation function and returns tidy data frame output

**Usage**

```
did_multiplegt_tidy(data, ...)
```

**Arguments**

<code>data</code>	a data.frame
<code>...</code>	options passed to did_multiplegt

**Details**

See <https://book.declaredesign.org/observational-causal.html#difference-in-differences>

**Value**

a data.frame of estimates

---

`estimator_AS_tidy`    *Tidy helper function for estimator\_AS function*

---

**Description**

Runs estimates estimation function from interference package and returns tidy data frame output

**Usage**

```
estimator_AS_tidy(data, permutatation_matrix, adj_matrix)
```

**Arguments**

<code>data</code>	a data.frame
<code>permutatation_matrix</code>	a permutation matrix of random assignments
<code>adj_matrix</code>	an adjacency matrix

## Details

The estimator\_AS\_tidy function requires the 'interference' package, which is not yet available on CRAN.

To use this function:

1. install the developer version of interference via remotes::install\_github('szonszein/interference') and
2. install the developer version of rdss via remotes::install\_github('DeclareDesign/rdss@remotes')

See <https://book.declaredesign.org/experimental-causal.html#experiments-over-networks>

## Value

a data.frame of estimates

---

fairfax

*Shapefile of Fairfax County, Virginia, voting precincts*

---

## Description

An sf object containing the boundaries of voting precincts for Fairfax County, Virginia as well as precinct ID, name, district, polling place name, address, city, zip code, area, length, and geometry (polygons)

## Usage

fairfax

## Format

An sf object with 236 rows and 10 variables:

---

foos\_etal

*Replication data for Foos, John, Muller, and Cunningham (2021), Journal of Politics (derived from from Dataverse 10.7910/DVN/NDPXND)*

---

## Description

Replication data for Foos, John, Muller, and Cunningham (2021), Journal of Politics (derived from from Dataverse 10.7910/DVN/NDPXND)

## Usage

foos\_etal

## Format

A data.frame

**format\_num***Round and pad a number to a specific decimal place***Description**

Round and pad a number to a specific decimal place

**Usage**

```
format_num(x, digits = 3)
```

**Arguments**

<b>x</b>	Numeric vector
<b>digits</b>	Number of digits to retain

**Value**

a character vector of formatted numbers

**Examples**

```
std.error <- c(0.12, 0.001, 1.2)
format_num(std.error)
```

**get\_exposure\_AS***Helper function to obtain the observed exposure for the Aronow and Samii estimator***Description**

See <https://book.declaredesign.org/experimental-causal.html#experiments-over-networks>

**Usage**

```
get_exposure_AS(obs_exposure)
```

**Arguments**

<b>obs_exposure</b>	A numeric vector
---------------------	------------------

**Value**

a data.frame of observed exposure to a treatment created using the interference package

---

`get_rdss_file`

*Download a replication file from the dataverse archive for Research Design in the Social Sciences: Declaration, Diagnosis, and Redesign*

---

## Description

See <https://dataverse.harvard.edu/dataset.xhtml?persistentId=doi:10.7910/DVN/HYVPO5> for further details and the code used to create these files.

## Usage

```
get_rdss_file(name, verbose = TRUE)
```

## Arguments

name	quoted name of the file on the dataverse archive
verbose	print declaration code if requesting a declaration

## Details

The available names include:

Design declaration objects:

declaration\_9.5  
declaration\_2.1  
declaration\_2.2  
declaration\_4.1  
declaration\_5.1  
declaration\_7.1  
declaration\_9.1  
declaration\_9.2  
declaration\_9.3  
declaration\_9.4  
declaration\_9.6  
declaration\_9.7  
declaration\_10.1  
declaration\_10.2  
declaration\_10.3  
declaration\_10.4  
declaration\_10a  
declaration\_11.1  
declaration\_11.2  
declaration\_11.3  
declaration\_11.4  
declaration\_11.5  
declaration\_12.1a  
declaration\_12.1b

declaration\_12.1c  
declaration\_12.1d  
declaration\_13.1  
declaration\_13.2  
declaration\_15.1  
declaration\_15.2  
declaration\_15.3a  
declaration\_15.3b  
declaration\_15.3c  
declaration\_15.4  
declaration\_15.5  
declaration\_15.6  
declaration\_16.1a  
declaration\_16.1b  
declaration\_16.2  
declaration\_16.3  
declaration\_16.4  
declaration\_16.5  
declaration\_16.6  
declaration\_17.1  
declaration\_17.2  
declaration\_17.3  
declaration\_17.4  
declaration\_17.5  
declaration\_17.6\_a  
declaration\_17.6\_b  
declaration\_18.1  
declaration\_18.2  
declaration\_18.3  
declaration\_18.4  
declaration\_18.5  
declaration\_18.6  
declaration\_18.7  
declaration\_18.8  
declaration\_18.9a  
declaration\_18.9b  
declaration\_18.9c  
declaration\_18.10  
declaration\_18.11  
declaration\_18.12  
declaration\_18.13  
declaration\_19.1  
declaration\_19.2  
declaration\_19.3  
declaration\_19.4  
declaration\_23.1a  
declaration\_23.1b  
declaration\_23.1c

declaration\_23.1d

Diagnosis objects:

diagnosis\_2.1  
diagnosis\_4.1  
diagnosis\_9.1  
diagnosis\_9.2  
diagnosis\_9.3  
diagnosis\_9.4  
diagnosis\_9.5  
diagnosis\_9.6  
diagnosis\_9.7  
simulation\_10.1  
diagnosis\_10.1  
diagnosis\_10.2  
diagnosis\_10.3  
diagnosis\_10.4  
diagnosis\_10.5  
diagnosis\_10a  
diagnosis\_11.1  
diagnosis\_11.2  
diagnosis\_11.3  
diagnosis\_11.4  
diagnosis\_11.5  
diagnosis\_12.1  
diagnosis\_12.2  
diagnosis\_13.1  
diagnosis\_15.1  
diagnosis\_15.2  
diagnosis\_15.3  
diagnosis\_15.4  
diagnosis\_15.5  
diagnosis\_16.1  
diagnosis\_16.2  
diagnosis\_16.3  
diagnosis\_16.4  
diagnosis\_16.5  
diagnosis\_17.1  
diagnosis\_17.2  
diagnosis\_17.3  
diagnosis\_17.4  
diagnosis\_17.5  
diagnosis\_18.1  
diagnosis\_18.10\_encouragment  
diagnosis\_18.10\_placebo  
diagnosis\_18.11  
diagnosis\_18.12  
diagnosis\_18.13

```
diagnosis_18.2
diagnosis_18.3
diagnosis_18.4
diagnosis_18.5
diagnosis_18.6
diagnosis_18.7
diagnosis_18.8
diagnosis_18.9
diagnosis_19.1
diagnosis_19.2
diagnosis_19.3
diagnosis_19.4
diagnosis_19a
diagnosis_21a
diagnosis_21b
diagnosis_23.1
diagnosis_23a
```

**Value**

an r object

**Examples**

```
## Not run:
# Requires internet access
if(curl::has_internet()) {
  diagnosis_2.1 <- get_rdss_file("diagnosis_2.1")
  diagnosis_2.1
}

## End(Not run)
```

**hex\_add\_alpha**

*Add alpha transparency to a color defined in hexadecimal*

**Description**

Add alpha transparency to a color defined in hexadecimal

**Usage**

```
hex_add_alpha(col, alpha)
```

**Arguments**

col	Original color code in hex
alpha	Level of alpha transparency to add

**Value**

color codes with alpha added

---

lag_by_group	<i>Generate lags in grouped data</i>
--------------	--------------------------------------

---

**Description**

See <https://book.declaredesign.org/observational-causal.html#difference-in-differences>

**Usage**

```
lag_by_group(x, groups, n = 1, order_by, default = NA)
```

**Arguments**

x	Vector of values
groups	Grouping variable
n	Positive integer of length 1, giving the number of positions to lead or lag by
order_by	Ordering variable within group (e.g., time)
default	Value used for non-existent rows. Defaults to NA.

**Value**

vector of lagged values

---

lapop_brazil	<i>Data used in student exercises for RDSS based on LAPOP survey of Brazil in 2018</i>
--------------	--

---

**Description**

These data were resampled with replacement from LAPOP data (to 10,000 rows) for a subset of variables. These data cannot be used for scientific inferences, and are only useful for teaching purposes. ID numbers were scrambled so that individuals and municipalities cannot easily be identified.

**Usage**

```
lapop_brazil
```

**Format**

A data.frame

## Details

Download the original data from <https://www.vanderbilt.edu/lapop/raw-data.php>  
 See <https://www.vanderbilt.edu/lapop/core-surveys.php> for survey questionnaire

<code>la_voter_file</code>	<i>Voter file sample for Los Angeles County</i>
----------------------------	---

## Description

A dataset containing the party registration, age, census tract number, and voter turnout in 2012 for 1,000 randomly-sampled registered voters in Los Angeles County, California.

## Usage

```
la_voter_file
```

## Format

A data frame with 1000 rows and 4 variables:

- party** political party registration
- age** age of voter in years
- census\_tract** US Census tract number
- voted\_2012** voter turnout in 2012 election

## Source

California Secretary of State.

<code>make_interval_entry</code>	<i>Format confidence intervals for nice printing</i>
----------------------------------	--

## Description

Format confidence intervals for nice printing

## Usage

```
make_interval_entry(conf.low, conf.high, digits = 2)
```

## Arguments

<code>conf.low</code>	a numeric vector of lower bounds
<code>conf.high</code>	a numeric vector of upper bounds
<code>digits</code>	number of digits to retain

**Value**

a character vector of intervals

**Examples**

```
conf.low <- c(-0.1652, 0.00304, -6.352)
conf.high <- c(0.3052, 0.00696, -1.648)

make_interval_entry(conf.low, conf.high)
```

---

make\_se\_entry

*Format estimates and standard errors for nice printing*

---

**Description**

Format estimates and standard errors for nice printing

**Usage**

```
make_se_entry(estimate, std.error, digits = 2)
```

**Arguments**

estimate	a numeric vector of parameter estimates
std.error	a numeric vector of standard error estimates
digits	number of digits to retain

**Value**

a character vector of formatted estimates and standard errors

**Examples**

```
estimate <- c(0.07, 0.005, -4)
std.error <- c(0.12, 0.001, 1.2)

make_se_entry(estimate, std.error)
```

`post_stratification_helper`

*Post stratification estimator helper*

## Description

Calculates predicted values from a multilevel regression and the post-stratified state-level estimates

## Usage

```
post_stratification_helper(model_fit, data, group, weights)
```

## Arguments

<code>model_fit</code>	a model fit object from, e.g., <code>glmer</code> or <code>lm_robust</code>
<code>data</code>	a <code>data.frame</code>
<code>group</code>	unquoted name of the group variable to construct estimates for
<code>weights</code>	unquoted name of post-stratification weights variable

## Details

Please see <https://book.declaredesign.org/observational-descriptive.html#multi-level-regression-and-poststratification>

## Value

`data.frame` of post-stratified group-level estimates

`process_tracing_estimator`

*Process tracing estimator*

## Description

Draw conclusions from a model given a query, data, and process tracing strategies

## Usage

```
process_tracing_estimator(causal_model, query, data, strategies)
```

## Arguments

<code>causal_model</code>	a model generated by <code>CausalQueries</code>
<code>query</code>	a causal query of interest
<code>data</code>	a single row dataset with data on nodes in the model
<code>strategies</code>	a vector describing sets of nodes to be examined e.g. <code>c("X", "X-Y")</code>

## Details

See <https://book.declaredesign.org/observational-causal.html#process-tracing>

## Value

a data.frame of estimates

## Examples

```
# Simple example showing ambiguity in attribution
process_tracing_estimator(
  causal_model = CausalQueries::make_model("X -> Y"),
  query = "Y[X=1] > Y[X=0]",
  data = data.frame(X=1, Y = 1),
  strategies = "X-Y")

# Example where M=1 acts as a hoop test
process_tracing_estimator(
  causal_model = CausalQueries::make_model("X -> M -> Y") |>
    CausalQueries::set_restrictions("Y[M=1] < Y[M=0]") |>
    CausalQueries::set_restrictions("M[X=1] < M[X=0]"),
  query = "Y[X=1] > Y[X=0]",
  data = data.frame(X=1, Y = 1, M = 0),
  strategies = c("Y", "X-Y", "X-M-Y"))
```

**rdrobust\_helper**

*Helper function for using rdrobust as a model in declare\_estimator*

## Description

Helper function for using rdrobust as a model in declare\_estimator

## Usage

```
rdrobust_helper(data, y, x, subset = NULL, ...)
```

## Arguments

data	a data.frame
y	unquoted name of the outcome variable
x	unquoted name of the running variable
subset	an optional vector specifying a subset of observations to be used in the fitting process
...	Other arguments to rdrobust

## Value

rdrobust model fit object

rdss

*rdss package***Description**

Companion datasets and functions for the book "Research Design in the Social Sciences: Declaration, Diagnosis, and Redesign" ([book.declaredesign.org](http://book.declaredesign.org))

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rma\_helper

*Helper function for rma function in metafor package***Description**

See <https://book.declaredesign.org/complex-designs.html#meta-analysis>

**Usage**

```
rma_helper(data, yi, sei, method = "REML", ...)
```

**Arguments**

data	a data.frame
yi	unquoted variable name of estimates used in meta-analysis
sei	unquoted variable name of standard errors used in meta-analysis
method	character string to specify whether a fixed- or a random/mixed-effects model should be fitted. A fixed-effects model (with or without moderators) is fitted when using method = "FE". Random/mixed-effects models are fitted by setting method equal to one of the following: "DL", "HE", "SJ", "ML", "REML", "EB", "HS", "HSk", or "GENQ". Default is "REML".
...	Further options to be passed to rma

**Details**

See ?rma for further details

**Value**

a data.frame of estimates

---

rma\_mu\_tau

*Extract mu and tau parameters from rma model fit*

---

## Description

See <https://book.declaredesign.org/complex-designs.html#meta-analysis>

## Usage

```
rma_mu_tau(fit)
```

## Arguments

fit                  Fit object from the rma function in the metafor package

## Value

a data.frame of estimates

---

theme\_dd

*ggplot Theme used in the book "Research Design: Declare, Diagnose, Redesign" (Blair, Coppock, Humphreys)*

---

## Description

ggplot Theme used in the book "Research Design: Declare, Diagnose, Redesign" (Blair, Coppock, Humphreys)

## Usage

```
theme_dd()
```

## Value

ggplot theme

**tidy.amce***Tidy estimates from the amce estimator***Description**

Runs amce estimation function and returns tidy data frame output

**Usage**

```
## S3 method for class 'amce'
tidy(x, alpha = 0.05, ...)
```

**Arguments**

x	an amce fit object from cjoint::amce
alpha	Confidence level
...	Extra arguments to pass to tidy

**Details**

See <https://book.declaredesign.org/experimental-descriptive.html#conjoint-experiments>

**Value**

a data.frame of estimates

**Examples**

```
library(cjoint)

data(immigrationconjoint)
data(immigrationdesign)

# Run AMCE estimator using all attributes in the design
results <- amce(Chosen_Immigrant ~ Gender + Education + `Language Skills` +
  `Country of Origin` + Job + `Job Experience` + `Job Plans` +
  `Reason for Application` + `Prior Entry`, data = immigrationconjoint,
  cluster = TRUE, respondent.id = "CaseID", design = immigrationdesign)

# Print summary
# tidy(results)
```

---

tidy.rdrobust	<i>Tidy helper function for rdrobust function</i>
---------------	---

---

## Description

Runs rdrobust estimation function and returns tidy data frame output

## Usage

```
## S3 method for class 'rdrobust'  
tidy(x, ...)
```

## Arguments

x	Model fit object from rdrobust
...	Other arguments (not used)

## Details

See <https://book.declaredesign.org/observational-causal.html#regression-discontinuity-designs>

## Value

a data.frame of estimates

---

tidy_stan	<i>Tidy results from a stanreg regression and exponentiate the estimated coefficient</i>
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## Description

Note no standard errors or other summary statistics are provided

This function is deprecated. Please use the 'tidy' function from the 'broom.mixed' package.

## Usage

```
tidy_stan(x, conf.int = FALSE, conf.level = 0.95, exponentiate = FALSE, ...)  
tidy_stan(x, conf.int = FALSE, conf.level = 0.95, exponentiate = FALSE, ...)
```

**Arguments**

x	A stanreg fit from stan_glm
conf.int	Logical indicating whether or not to include a confidence interval in the tidied output. Defaults to FALSE.
conf.level	The confidence level to use for the confidence interval if conf.int = TRUE. Must be strictly greater than 0 and less than 1. Defaults to 0.95, which corresponds to a 95 percent confidence interval.
exponentiate	Logical indicating whether or not to exponentiate the coefficient estimates. Defaults to FALSE.
...	Other arguments to broom.mixed::tidy

**Details**

See <https://book.declaredesign.org/choosing-an-answer-strategy.html#bayesian-formalizations>

See <https://book.declaredesign.org/choosing-an-answer-strategy.html#bayesian-formalizations>

**Value**

data.frame of results

data.frame of results

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