

# Package ‘metasurvey’

May 8, 2026

**Title** Reproducible Survey Data Processing with Step Pipelines

**Version** 0.0.21

**URL** <https://metasurveyr.github.io/metasurvey/>,  
<https://github.com/metasurveyr/metasurvey>

**BugReports** <https://github.com/metasurveyr/metasurvey/issues>

**Description** Provides a step-based pipeline for reproducible survey data processing, building on the 'survey' package for complex sampling designs. Supports rotating panels with bootstrap replicate weights, and provides a recipe system for sharing and reproducing data transformation workflows across survey editions.

**License** GPL (>= 3)

**Imports** data.table (>= 1.14.2), cli (>= 3.0.0), glue (>= 1.6.0), lifecycle (>= 1.0.0), jsonlite (>= 1.7.2), R6 (>= 2.5.0), survey (>= 4.2.1), methods

**Suggests** archive, convey, htr2 (>= 1.0.0), haven, openxlsx, visNetwork (>= 2.0.9), roxygen2 (>= 7.1.2), testthat (>= 3.0.0), tibble (>= 3.1.3), dplyr (>= 1.0.7), knitr (>= 1.33), foreign (>= 0.8-81), rmarkdown (>= 2.11), parallel, rio (>= 0.5.27), here (>= 1.0.1), gt (>= 0.10.0), magrittr, shiny (>= 1.7.0), bslib (>= 0.5.0), bsicons (>= 0.1.0), htmltools (>= 0.5.0), xml2 (>= 1.3.0), eph, PNADcIBGE, ipumsr

**Config/testthat/edition** 3

**Encoding** UTF-8

**RoxygenNote** 7.3.3

**Depends** R (>= 4.1)

**VignetteBuilder** knitr

**NeedsCompilation** no

**Author** Mauro Loprete [aut, cre] (ORCID: <https://orcid.org/0000-0003-1560-0183>),  
Natalia da Silva [aut] (ORCID: <https://orcid.org/0000-0002-6031-7451>),  
Fabricio Machado [aut] (ORCID: <https://orcid.org/0009-0008-2653-9166>)

**Maintainer** Mauro Loprete <mauro.loprete@icloud.com>

**Repository** CRAN

**Date/Publication** 2026-02-25 10:30:07 UTC

## Contents

add_category . . . . .	4
add_recipe . . . . .	5
add_replicate . . . . .	6
add_weight . . . . .	8
anda_download_microdata . . . . .	9
anda_variables . . . . .	11
api_comment_recipe . . . . .	11
api_comment_workflow . . . . .	12
api_delete_comment . . . . .	13
api_get_anda_variables . . . . .	14
api_get_recipe . . . . .	14
api_get_recipe_comments . . . . .	15
api_get_recipe_dependents . . . . .	16
api_get_recipe_stars . . . . .	16
api_get_workflow . . . . .	17
api_get_workflow_comments . . . . .	18
api_get_workflow_stars . . . . .	18
api_list_recipes . . . . .	19
api_list_workflows . . . . .	20
api_login . . . . .	21
api_logout . . . . .	22
api_me . . . . .	22
api_publish_recipe . . . . .	23
api_publish_workflow . . . . .	23
api_refresh_token . . . . .	24
api_register . . . . .	25
api_star_recipe . . . . .	26
api_star_workflow . . . . .	26
bake_recipes . . . . .	27
bake_steps . . . . .	28
cat_design . . . . .	29
cat_design_type . . . . .	30
certify_recipe . . . . .	31
configure_api . . . . .	32
default_categories . . . . .	32
evaluate_cv . . . . .	33
explore_recipes . . . . .	34
extract_surveys . . . . .	35
extract_time_pattern . . . . .	37
filter_recipes . . . . .	38
filter_workflows . . . . .	39

find_workflows_for_recipe . . . . .	40
get_backend . . . . .	40
get_data . . . . .	41
get_engine . . . . .	42
get_follow_up . . . . .	42
get_implantation . . . . .	44
get_metadata . . . . .	45
get_recipe . . . . .	46
get_steps . . . . .	48
get_workflow_backend . . . . .	49
group_dates . . . . .	50
has_design . . . . .	50
has_recipes . . . . .	51
has_steps . . . . .	52
is_baked . . . . .	52
lazy_default . . . . .	53
list_recipes . . . . .	54
list_workflows . . . . .	54
load_panel_survey . . . . .	55
load_survey . . . . .	57
load_survey_example . . . . .	59
parse_do_file . . . . .	60
parse_stata_labels . . . . .	61
PoolSurvey . . . . .	62
print.metasurvey_provenance . . . . .	63
print.metasurvey_provenance_diff . . . . .	64
print.Recipe . . . . .	65
print.RecipeWorkflow . . . . .	66
provenance . . . . .	67
provenance_diff . . . . .	68
provenance_to_json . . . . .	69
publish_recipe . . . . .	69
publish_workflow . . . . .	70
rank_recipes . . . . .	71
rank_workflows . . . . .	72
read_recipe . . . . .	72
read_workflow . . . . .	73
recipe . . . . .	74
Recipe-class . . . . .	76
RecipeCategory . . . . .	80
RecipeCertification . . . . .	82
RecipeUser . . . . .	84
RecipeWorkflow-class . . . . .	86
recipe_category . . . . .	90
recipe_certification . . . . .	91
recipe_user . . . . .	92
remove_category . . . . .	93
reproduce_workflow . . . . .	94

resolve_weight_spec . . . . .	95
RotativePanelSurvey . . . . .	96
save_recipe . . . . .	99
save_workflow . . . . .	100
search_recipes . . . . .	101
search_workflows . . . . .	102
set_backend . . . . .	102
set_data . . . . .	103
set_engine . . . . .	104
set_lazy_processing . . . . .	105
set_user_info . . . . .	105
set_use_copy . . . . .	106
set_version . . . . .	107
set_workflow_backend . . . . .	108
show_engines . . . . .	109
steps_to_recipe . . . . .	109
step_compute . . . . .	110
step_filter . . . . .	112
step_join . . . . .	113
step_recode . . . . .	115
step_remove . . . . .	117
step_rename . . . . .	119
step_validate . . . . .	120
Survey . . . . .	122
survey_empty . . . . .	127
survey_to_datatable . . . . .	128
survey_to_data_frame . . . . .	129
survey_to_tibble . . . . .	129
transpile_coverage . . . . .	130
transpile_stata . . . . .	131
transpile_stata_module . . . . .	132
use_copy_default . . . . .	133
validate_time_pattern . . . . .	134
view_graph . . . . .	134
workflow . . . . .	135
workflow_from_list . . . . .	137
workflow_table . . . . .	138

**Index****140**


---

add_category	<i>Add a category to a recipe</i>
--------------	-----------------------------------

---

**Description**

Pipe-friendly function to add a category to a Recipe object. Accepts either a category name (string) or a [RecipeCategory](#) object.

**Usage**

```
add_category(recipe, category, description = "")
```

**Arguments**

recipe	A Recipe object.
category	Character category name or RecipeCategory object.
description	Character. Description for the category (used when category is a string). Defaults to empty.

**Value**

The modified Recipe object (invisibly for piping).

**See Also**

[remove\\_category](#), [recipe\\_category](#), [default\\_categories](#)

Other tidy-api: [RecipeCategory](#), [RecipeCertification](#), [RecipeUser](#), [certify\\_recipe\(\)](#), [default\\_categories\(\)](#), [filter\\_recipes\(\)](#), [filter\\_workflows\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_recipes\(\)](#), [list\\_workflows\(\)](#), [rank\\_recipes\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_category\(\)](#), [recipe\\_certification\(\)](#), [recipe\\_user\(\)](#), [remove\\_category\(\)](#), [search\\_recipes\(\)](#), [search\\_workflows\(\)](#), [set\\_user\\_info\(\)](#), [set\\_version\(\)](#)

**Examples**

```
r <- recipe(
  name = "Example", user = "Test",
  svy = survey_empty(type = "ech", edition = "2023"),
  description = "Example recipe"
)
r <- r |>
  add_category("labor_market", "Labor market indicators") |>
  add_category("income")
```

---

add\_recipe

*Add a recipe to a Survey*

---

**Description**

Tidy wrapper for `svy$add_recipe(recipe)`.

**Usage**

```
add_recipe(svy, recipe, bake = lazy_default())
```

**Arguments**

svy	Survey object
recipe	A Recipe object
bake	Logical; whether to bake immediately (default: lazy_default())

**Value**

The Survey object (invisibly), modified in place

**See Also**

Other recipes: [Recipe-class](#), [bake\\_recipes\(\)](#), [explore\\_recipes\(\)](#), [get\\_recipe\(\)](#), [print.Recipe\(\)](#), [publish\\_recipe\(\)](#), [read\\_recipe\(\)](#), [recipe\(\)](#), [save\\_recipe\(\)](#), [steps\\_to\\_recipe\(\)](#)

**Examples**

```
svy <- survey_empty(type = "ech", edition = "2023")
r <- recipe(
  name = "Example", user = "test",
  svy = svy, description = "Example"
)
svy <- add_recipe(svy, r)
```

---

add\_replicate

*Configure replicate weights for variance estimation*

---

**Description**

This function configures replicate weights (bootstrap, jackknife, etc.) that allow estimation of variance for complex statistics in surveys with complex sampling designs. It is essential for obtaining correct standard errors in population estimates.

**Usage**

```
add_replicate(
  weight,
  replicate_pattern,
  replicate_path = NULL,
  replicate_id = NULL,
  replicate_type
)
```

**Arguments**

weight	String with the name of the main weight variable in the survey (e.g., "pesoano", "pesomes")
replicate_pattern	String with regex pattern to identify replicate weight columns. Examples: "wr\d+" for columns wr1, wr2, etc.
replicate_path	Path to the file containing replicate weights. If NULL, assumes they are in the same main dataset
replicate_id	Named vector specifying how to join between the main dataset and replicate file. Format: c("main_var" = "replicate_var")
replicate_type	Type of replication used. Options: "bootstrap", "jackknife", "BRR" (Balanced Repeated Replication)

**Details**

Replicate weights are essential for:

- Correctly estimating variance in complex designs
- Calculating appropriate confidence intervals
- Obtaining reliable coefficients of variation
- Performing valid statistical tests

The regex pattern must exactly match the replicate weight column names in the file. For example, if columns are named "wr001", "wr002", etc., use the pattern "wr\d+".

This function is typically used within `add_weight()` for more complex weight configurations.

**Value**

List with replicate configuration that will be used by the sampling design for variance estimation

**See Also**

[add\\_weight](#) for complete weight configuration [svrepdesign](#) for replicate design in survey package [load\\_survey](#) where this configuration is used

Other weights: [add\\_weight\(\)](#), [resolve\\_weight\\_spec\(\)](#)

**Examples**

```
# Basic configuration with external file
annual_replicates <- add_replicate(
  weight = "pesoano",
  replicate_pattern = "wr\d+",
  replicate_path = "bootstrap_weights_2023.xlsx",
  replicate_id = c("ID_HOGAR" = "ID"),
  replicate_type = "bootstrap"
)

# With replicates in same dataset
```

```

integrated_replicates <- add_replicate(
  weight = "main_weight",
  replicate_pattern = "rep\\d{3}",
  replicate_type = "jackknife"
)

# Use within add_weight
weight_config <- add_weight(
  annual = add_replicate(
    weight = "pesoano",
    replicate_pattern = "wr\\d+",
    replicate_path = "bootstrap_annual.xlsx",
    replicate_id = c("numero" = "ID_HOGAR"),
    replicate_type = "bootstrap"
  ),
  monthly = "pesomes"
)

```

---

add\_weight

*Configure weights by periodicity for Survey objects*


---

## Description

This function creates a weight structure that allows specifying different weight variables according to estimation periodicity. It is essential for proper functioning of workflows with multiple temporal estimation types.

## Usage

```
add_weight(monthly = NULL, annual = NULL, quarterly = NULL, biannual = NULL)
```

## Arguments

monthly	String with monthly weight variable name, or replicate list created with <a href="#">add_replicate</a> for monthly weights
annual	String with annual weight variable name, or replicate list for annual weights
quarterly	String with quarterly weight variable name, or replicate list for quarterly weights
biannual	String with biannual weight variable name, or replicate list for biannual weights

## Details

This function is fundamental for surveys that require different weights according to temporal estimation type. For example, Uruguay's ECH has specific weights for monthly, quarterly, and annual estimations.

Each parameter can be:

- A simple string with the weight variable name

- A replicate structure created with `add_replicate()` for bootstrap or jackknife estimations

Weights are automatically selected in `workflow()` according to the specified `estimation_type` parameter.

### Value

Named list with weight configuration by periodicity, which will be used by `load_survey` and `workflow` to automatically select the appropriate weight

### See Also

`add_replicate` to configure bootstrap/jackknife replicates `load_survey` where this configuration is used `workflow` that automatically selects weights

Other weights: `add_replicate()`, `resolve_weight_spec()`

### Examples

```
# Basic configuration with simple weight variables
ech_weights <- add_weight(
  monthly = "pesomes",
  quarterly = "pesotri",
  annual = "pesoano"
)

# With bootstrap replicates for variance estimation
weights_with_replicates <- add_weight(
  monthly = add_replicate(
    weight = "pesomes",
    replicate_pattern = "wr\\d+",
    replicate_path = "monthly_replicate_weights.xlsx",
    replicate_id = c("ID_HOGAR" = "ID"),
    replicate_type = "bootstrap"
  ),
  annual = "pesoano"
)
```

---

anda\_download\_microdata

*Download ECH microdata from ANDA5*

---

### Description

#### [Experimental]

Downloads microdata files for a given ECH edition from INE Uruguay's ANDA5 catalog. Automatically accepts the terms of use, parses available resources, and downloads the appropriate file.

For editions  $\geq 2022$ , ANDA provides separate files for implantation, monthly follow-ups, and bootstrap replicate weights. Use the resource parameter to select which file to download.

**Usage**

```
anda_download_microdata(
  edition,
  resource = "implantation",
  dest_dir = tempdir(),
  base_url = "https://www4.ine.gub.uy/Anda5"
)
```

**Arguments**

edition	Character year (e.g., "2023")
resource	Character type of resource to download. One of: <b>"implantation"</b> (default) Main implantation file. For editions < 2022, downloads the main microdata file. <b>"monthly"</b> Monthly follow-up files (editions >= 2022 only). Returns a character vector of paths, one per month. <b>"bootstrap_annual"</b> Annual bootstrap replicate weights. <b>"bootstrap_monthly"</b> Monthly bootstrap replicate weights. <b>"bootstrap_quarterly"</b> Quarterly bootstrap replicate weights. <b>"bootstrap_semestral"</b> Semestral bootstrap replicate weights. <b>"poverty"</b> Poverty line microdata (Microdatos_LP).
dest_dir	Character directory where to save files. Defaults to a temporary directory.
base_url	Character base URL of the ANDA5 instance

**Value**

Character path (or vector of paths for monthly) to the downloaded file(s), ready to pass to `load_survey()` or `data.table::fread()`.

**See Also**

Other anda: [anda\\_variables\(\)](#), [api\\_get\\_anda\\_variables\(\)](#)

**Examples**

```
## Not run:
path <- anda_download_microdata("2023", resource = "implantation")
svy <- load_survey(path, svy_type = "ech", svy_edition = "2023")

## End(Not run)
```

---

anda_variables	<i>Query ANDA variable metadata from the API</i>
----------------	--

---

**Description****[Experimental]**

Fetches variable metadata (labels, types, value labels) from the metasurvey API's ANDA endpoint.

**Usage**

```
anda_variables(survey_type = "ech", var_names = NULL)
```

**Arguments**

survey_type	Character survey type (default "ech")
var_names	Character vector of variable names to look up. If NULL, returns all variables for the survey type.

**Value**

A data.frame with columns: name, label, type

**See Also**

Other anda: [anda\\_download\\_microdata\(\)](#), [api\\_get\\_anda\\_variables\(\)](#)

**Examples**

```
## Not run:  
anda_variables("ech", c("pobpcoac", "e27"))  
  
## End(Not run)
```

---

api_comment_recipe	<i>Add a comment to a recipe</i>
--------------------	----------------------------------

---

**Description**

Post a text comment on a recipe. Requires authentication.

**Usage**

```
api_comment_recipe(id, text)
```

**Arguments**

id	Recipe ID
text	Comment text (max 2000 characters)

**Value**

Invisibly, the API response.

**See Also**

Other api-comments: [api\\_comment\\_workflow\(\)](#), [api\\_delete\\_comment\(\)](#), [api\\_get\\_recipe\\_comments\(\)](#), [api\\_get\\_workflow\\_comments\(\)](#)

**Examples**

```
## Not run:  
api_comment_recipe("r_1739654400_742", "Great recipe!")  
  
## End(Not run)
```

---

api\_comment\_workflow *Add a comment to a workflow*

---

**Description**

Post a text comment on a workflow. Requires authentication.

**Usage**

```
api_comment_workflow(id, text)
```

**Arguments**

id	Workflow ID
text	Comment text (max 2000 characters)

**Value**

Invisibly, the API response.

**See Also**

Other api-comments: [api\\_comment\\_recipe\(\)](#), [api\\_delete\\_comment\(\)](#), [api\\_get\\_recipe\\_comments\(\)](#), [api\\_get\\_workflow\\_comments\(\)](#)

**Examples**

```
## Not run:  
api_comment_workflow("w_1739654400_123", "Very useful workflow!")  
  
## End(Not run)
```

---

api_delete_comment	<i>Delete a comment</i>
--------------------	-------------------------

---

**Description**

Delete a comment by its ID. Only the comment author can delete it. Requires authentication.

**Usage**

```
api_delete_comment(comment_id)
```

**Arguments**

comment_id	Comment ID
------------	------------

**Value**

Invisibly, the API response.

**See Also**

Other api-comments: [api\\_comment\\_recipe\(\)](#), [api\\_comment\\_workflow\(\)](#), [api\\_get\\_recipe\\_comments\(\)](#), [api\\_get\\_workflow\\_comments\(\)](#)

**Examples**

```
## Not run:  
api_delete_comment("c_abc123")  
  
## End(Not run)
```

---

`api_get_anda_variables`*Get ANDA variable metadata from the API*

---

**Description**

Get ANDA variable metadata from the API

**Usage**

```
api_get_anda_variables(survey_type = "ech", var_names = NULL)
```

**Arguments**

<code>survey_type</code>	Character survey type (default "ech")
<code>var_names</code>	Character vector of variable names. If NULL, returns all.

**Value**

A list of variable metadata objects

**See Also**

Other anda: [anda\\_download\\_microdata\(\)](#), [anda\\_variables\(\)](#)

**Examples**

```
## Not run:  
api_get_anda_variables("ech", c("pobpcoac", "e27"))  
  
## End(Not run)
```

---

`api_get_recipe`*Get recipe(s) by ID*

---

**Description**

Retrieve one or more recipes from the API by their IDs.

**Usage**

```
api_get_recipe(id)
```

**Arguments**

<code>id</code>	Character vector of recipe ID(s). If length > 1, returns a list.
-----------------	--

**Value**

A single Recipe object (or NULL) when `length(id) == 1`. A list of Recipe objects when `length(id) > 1` (NULLs are dropped).

**See Also**

Other api-recipes: [api\\_get\\_recipe\\_dependents\(\)](#), [api\\_list\\_recipes\(\)](#), [api\\_publish\\_recipe\(\)](#)

**Examples**

```
## Not run:  
api_get_recipe("r_1739654400_742")  
  
## End(Not run)
```

---

api\_get\_recipe\_comments

*Get comments for a recipe*

---

**Description**

List all comments on a recipe, sorted by creation date.

**Usage**

```
api_get_recipe_comments(id)
```

**Arguments**

id	Recipe ID
----	-----------

**Value**

List of comment objects.

**See Also**

Other api-comments: [api\\_comment\\_recipe\(\)](#), [api\\_comment\\_workflow\(\)](#), [api\\_delete\\_comment\(\)](#), [api\\_get\\_workflow\\_comments\(\)](#)

**Examples**

```
## Not run:  
api_get_recipe_comments("r_1739654400_742")  
  
## End(Not run)
```

---

`api_get_recipe_dependents`*Get recipes that depend on a recipe*

---

**Description**

Find all recipes whose depends\_on\_recipes field references the given recipe ID (backlinks).

**Usage**

```
api_get_recipe_dependents(id)
```

**Arguments**

id	Recipe ID
----	-----------

**Value**

List of recipe summaries (id, name, user).

**See Also**

Other api-recipes: [api\\_get\\_recipe\(\)](#), [api\\_list\\_recipes\(\)](#), [api\\_publish\\_recipe\(\)](#)

**Examples**

```
## Not run:  
api_get_recipe_dependents("r_1739654400_742")  
  
## End(Not run)
```

---

`api_get_recipe_stars` *Get star summary for a recipe*

---

**Description**

Returns average rating, count, and the current user's rating (if authenticated).

**Usage**

```
api_get_recipe_stars(id)
```

**Arguments**

id	Recipe ID
----	-----------

**Value**

List with average, count, and optionally user\_value.

**See Also**

Other api-stars: [api\\_get\\_workflow\\_stars\(\)](#), [api\\_star\\_recipe\(\)](#), [api\\_star\\_workflow\(\)](#)

**Examples**

```
## Not run:  
api_get_recipe_stars("r_1739654400_742")  
  
## End(Not run)
```

---

api_get_workflow	<i>Get a single workflow by ID</i>
------------------	------------------------------------

---

**Description**

Retrieve a workflow from the API by its ID.

**Usage**

```
api_get_workflow(id)
```

**Arguments**

id	Workflow ID
----	-------------

**Value**

RecipeWorkflow object or NULL

**See Also**

Other api-workflows: [api\\_list\\_workflows\(\)](#), [api\\_publish\\_workflow\(\)](#)

**Examples**

```
## Not run:  
api_get_workflow("w_1739654400_123")  
  
## End(Not run)
```

api\_get\_workflow\_comments  
*Get comments for a workflow*

---

**Description**

List all comments on a workflow, sorted by creation date.

**Usage**

```
api_get_workflow_comments(id)
```

**Arguments**

id	Workflow ID
----	-------------

**Value**

List of comment objects.

**See Also**

Other api-comments: [api\\_comment\\_recipe\(\)](#), [api\\_comment\\_workflow\(\)](#), [api\\_delete\\_comment\(\)](#), [api\\_get\\_recipe\\_comments\(\)](#)

**Examples**

```
## Not run:  
api_get_workflow_comments("w_1739654400_123")  
  
## End(Not run)
```

---

api\_get\_workflow\_stars  
*Get star summary for a workflow*

---

**Description**

Returns average rating, count, and the current user's rating (if authenticated).

**Usage**

```
api_get_workflow_stars(id)
```

**Arguments**

id	Workflow ID
----	-------------

**Value**

List with average, count, and optionally user\_value.

**See Also**

Other api-stars: [api\\_get\\_recipe\\_stars\(\)](#), [api\\_star\\_recipe\(\)](#), [api\\_star\\_workflow\(\)](#)

**Examples**

```
## Not run:  
api_get_workflow_stars("w_1739654400_123")  
  
## End(Not run)
```

---

api_list_recipes	<i>List recipes from API</i>
------------------	------------------------------

---

**Description**

Fetch recipes with optional search and filters.

**Usage**

```
api_list_recipes(  
  search = NULL,  
  survey_type = NULL,  
  topic = NULL,  
  certification = NULL,  
  user = NULL,  
  limit = 50,  
  offset = 0  
)
```

**Arguments**

search	Text search (matches name/description)
survey_type	Filter by survey type (e.g., "ech")
topic	Filter by topic
certification	Filter by certification level
user	Filter by author email
limit	Maximum results (default 50)
offset	Skip first N results (default 0)

**Value**

List of Recipe objects

**See Also**

Other api-recipes: [api\\_get\\_recipe\(\)](#), [api\\_get\\_recipe\\_dependents\(\)](#), [api\\_publish\\_recipe\(\)](#)

**Examples**

```
## Not run:
configure_api("https://metasurvey-api.example.com")
recipes <- api_list_recipes(survey_type = "ech")

## End(Not run)
```

---

api\_list\_workflows      *List workflows from API*

---

**Description**

Fetch workflows with optional search and filters.

**Usage**

```
api_list_workflows(
  search = NULL,
  survey_type = NULL,
  recipe_id = NULL,
  user = NULL,
  limit = 50,
  offset = 0
)
```

**Arguments**

search	Text search
survey_type	Filter by survey type
recipe_id	Filter workflows that reference this recipe
user	Filter by author email
limit	Maximum results
offset	Skip first N results

**Value**

List of RecipeWorkflow objects

**See Also**

Other api-workflows: [api\\_get\\_workflow\(\)](#), [api\\_publish\\_workflow\(\)](#)

**Examples**

```
## Not run:  
api_list_workflows(survey_type = "ech")  
  
## End(Not run)
```

---

api_login	<i>Login</i>
-----------	--------------

---

**Description**

Authenticate with the metasurvey API. On success the JWT token is stored automatically.

**Usage**

```
api_login(email, password)
```

**Arguments**

email	Email address
password	Password

**Value**

Invisibly, the API response.

**See Also**

Other api-auth: [api\\_logout\(\)](#), [api\\_me\(\)](#), [api\\_refresh\\_token\(\)](#), [api\\_register\(\)](#), [configure\\_api\(\)](#)

**Examples**

```
## Not run:  
api_login("ana@example.com", "s3cret")  
  
## End(Not run)
```

---

api_logout	<i>Logout</i>
------------	---------------

---

**Description**

Clear the stored API token from memory and the environment.

**Usage**

```
api_logout()
```

**Value**

Invisibly, NULL.

**See Also**

Other api-auth: [api\\_login\(\)](#), [api\\_me\(\)](#), [api\\_refresh\\_token\(\)](#), [api\\_register\(\)](#), [configure\\_api\(\)](#)

**Examples**

```
api_logout()
```

---

api_me	<i>Get current user profile</i>
--------	---------------------------------

---

**Description**

Returns profile info for the currently authenticated user.

**Usage**

```
api_me()
```

**Value**

List with user fields (name, email, user\_type, etc.)

**See Also**

Other api-auth: [api\\_login\(\)](#), [api\\_logout\(\)](#), [api\\_refresh\\_token\(\)](#), [api\\_register\(\)](#), [configure\\_api\(\)](#)

**Examples**

```
## Not run:  
api_me()  
  
## End(Not run)
```

---

api\_publish\_recipe     *Publish a recipe*

---

**Description**

Publish a Recipe object to the API. Requires authentication (call `api_login()` first).

**Usage**

```
api_publish_recipe(recipe)
```

**Arguments**

recipe             A Recipe object

**Value**

Invisibly, the API response with the assigned ID.

**See Also**

Other api-recipes: [api\\_get\\_recipe\(\)](#), [api\\_get\\_recipe\\_dependents\(\)](#), [api\\_list\\_recipes\(\)](#)

**Examples**

```
## Not run:  
api_publish_recipe(my_recipe)  
  
## End(Not run)
```

---

api\_publish\_workflow     *Publish a workflow*

---

**Description**

Publish a RecipeWorkflow object to the API. Requires authentication.

**Usage**

```
api_publish_workflow(workflow)
```

**Arguments**

workflow             A RecipeWorkflow object

**Value**

Invisibly, the API response.

**See Also**

Other api-workflows: [api\\_get\\_workflow\(\)](#), [api\\_list\\_workflows\(\)](#)

**Examples**

```
## Not run:  
api_publish_workflow(my_workflow)  
  
## End(Not run)
```

---

api_refresh_token	<i>Refresh JWT token</i>
-------------------	--------------------------

---

**Description**

Request a new JWT token using the current (still valid) token. The new token is stored automatically. This is called internally by `api_request()` when the current token is close to expiry (within 5 minutes).

**Usage**

```
api_refresh_token()
```

**Value**

The new token string (invisibly), or NULL if refresh fails.

**See Also**

Other api-auth: [api\\_login\(\)](#), [api\\_logout\(\)](#), [api\\_me\(\)](#), [api\\_register\(\)](#), [configure\\_api\(\)](#)

**Examples**

```
## Not run:  
api_refresh_token()  
  
## End(Not run)
```

---

`api_register`*Register a new user*

---

### Description

Create an account on the metasurvey API. On success the JWT token is stored automatically via `options(metasurvey.api_token)`.

### Usage

```
api_register(  
  name,  
  email,  
  password,  
  user_type = "individual",  
  institution = NULL  
)
```

### Arguments

<code>name</code>	Display name
<code>email</code>	Email address
<code>password</code>	Password
<code>user_type</code>	One of "individual", "institutional_member", "institution"
<code>institution</code>	Institution name (required for "institutional_member")

### Value

Invisibly, the API response (list with ok, token, user).

### See Also

Other api-auth: [api\\_login\(\)](#), [api\\_logout\(\)](#), [api\\_me\(\)](#), [api\\_refresh\\_token\(\)](#), [configure\\_api\(\)](#)

### Examples

```
## Not run:  
configure_api("https://metasurvey-api.example.com")  
api_register("Ana Garcia", "ana@example.com", "s3cret")  
  
## End(Not run)
```

---

api_star_recipe	<i>Rate a recipe</i>
-----------------	----------------------

---

**Description**

Give a star rating (1-5) to a recipe. Requires authentication. Each user can have one rating per recipe (upserts on subsequent calls).

**Usage**

```
api_star_recipe(id, value)
```

**Arguments**

id	Recipe ID
value	Integer rating from 1 to 5

**Value**

Invisibly, the API response.

**See Also**

Other api-stars: [api\\_get\\_recipe\\_stars\(\)](#), [api\\_get\\_workflow\\_stars\(\)](#), [api\\_star\\_workflow\(\)](#)

**Examples**

```
## Not run:  
api_star_recipe("r_1739654400_742", 5)  
  
## End(Not run)
```

---

api_star_workflow	<i>Rate a workflow</i>
-------------------	------------------------

---

**Description**

Give a star rating (1-5) to a workflow. Requires authentication.

**Usage**

```
api_star_workflow(id, value)
```

**Arguments**

id	Workflow ID
value	Integer rating from 1 to 5

**Value**

Invisibly, the API response.

**See Also**

Other api-stars: [api\\_get\\_recipe\\_stars\(\)](#), [api\\_get\\_workflow\\_stars\(\)](#), [api\\_star\\_recipe\(\)](#)

**Examples**

```
## Not run:  
api_star_workflow("w_1739654400_123", 4)  
  
## End(Not run)
```

---

bake\_recipes

*Bake recipes*

---

**Description**

Bake recipes

**Usage**

```
bake_recipes(svy)
```

**Arguments**

svy                      Survey object

**Value**

Survey object with all recipes applied

**See Also**

Other recipes: [Recipe-class](#), [add\\_recipe\(\)](#), [explore\\_recipes\(\)](#), [get\\_recipe\(\)](#), [print.Recipe\(\)](#), [publish\\_recipe\(\)](#), [read\\_recipe\(\)](#), [recipe\(\)](#), [save\\_recipe\(\)](#), [steps\\_to\\_recipe\(\)](#)

**Examples**

```
dt <- data.table::data.table(id = 1:20, x = rnorm(20), w = runif(20, 0.5, 2))  
svy <- Survey$new(  
  data = dt, edition = "2023", type = "demo",  
  psu = NULL, engine = "data.table",  
  weight = add_weight(annual = "w")  
)  
r <- recipe(  
  name = "Demo", user = "test", svy = svy,  
  description = "Demo recipe"
```

```
)
svy <- add_recipe(svy, r)
processed <- bake_recipes(svy)
```

---

bake\_steps

*Execute all pending steps*


---

### Description

Iterates over all pending (lazy) steps attached to a Survey or RotativePanelSurvey and executes them sequentially, mutating the underlying data.table. Each step is validated before execution (checks that required variables exist).

### Usage

```
bake_steps(svy)
```

### Arguments

svy                    A Survey or RotativePanelSurvey object with pending steps

### Details

Steps are executed in the order they were added. Each step's expressions can reference variables created by previous steps.

For RotativePanelSurvey objects, steps are applied to both the implantation and all follow-up surveys.

### Value

The same object with all steps materialized in the data and each step marked as bake = TRUE.

### See Also

Other steps: [get\\_steps\(\)](#), [step\\_compute\(\)](#), [step\\_filter\(\)](#), [step\\_join\(\)](#), [step\\_recode\(\)](#), [step\\_remove\(\)](#), [step\\_rename\(\)](#), [step\\_validate\(\)](#), [view\\_graph\(\)](#)

### Examples

```
dt <- data.table::data.table(id = 1:5, age = c(15, 30, 45, 50, 70), w = 1)
svy <- Survey$new(
  data = dt, edition = "2023", type = "test",
  psu = NULL, engine = "data.table", weight = add_weight(annual = "w")
)
svy <- step_compute(svy, age2 = age * 2)
svy <- bake_steps(svy)
get_data(svy)
```

---

cat_design	<i>Display survey design information</i>
------------	--

---

## Description

Pretty-prints the sampling design configuration for each estimation type in a Survey object, showing PSU, strata, weights, and other design elements in a color-coded, readable format.

## Usage

```
cat_design(self)
```

## Arguments

`self` Survey object containing design information

## Details

This function displays design information including:

- Primary Sampling Units (PSU/clusters)
- Stratification variables
- Weight variables for each estimation type
- Finite Population Correction (FPC) if used
- Calibration formulas if applied
- Overall design type classification

Output is color-coded for better readability in supporting terminals.

## Value

Invisibly returns NULL; called for side effect of printing design info

## See Also

[cat\\_design\\_type](#) for design type classification

Other survey-objects: [Survey](#), [cat\\_design\\_type\(\)](#), [get\\_data\(\)](#), [get\\_metadata\(\)](#), [has\\_design\(\)](#), [has\\_recipes\(\)](#), [has\\_steps\(\)](#), [is\\_baked\(\)](#), [set\\_data\(\)](#), [survey\\_empty\(\)](#), [survey\\_to\\_data\\_frame\(\)](#), [survey\\_to\\_datatable\(\)](#), [survey\\_to\\_tibble\(\)](#)

**Examples**

```
dt <- data.table::data.table(id = 1:20, x = rnorm(20), w = runif(20, 0.5, 2))
svy <- Survey$new(
  data = dt, edition = "2023", type = "demo",
  psu = NULL, engine = "data.table",
  weight = add_weight(annual = "w")
)
cat_design(svy)
```

---

cat_design_type	<i>cat_design_type</i>
-----------------	------------------------

---

**Description**

Cast design type from survey

**Usage**

```
cat_design_type(self, design_name)
```

**Arguments**

self	Object of class Survey
design_name	Name of design

**Value**

Character string describing the design type, or "None".

**See Also**

Other survey-objects: [Survey](#), [cat\\_design\(\)](#), [get\\_data\(\)](#), [get\\_metadata\(\)](#), [has\\_design\(\)](#), [has\\_recipes\(\)](#), [has\\_steps\(\)](#), [is\\_baked\(\)](#), [set\\_data\(\)](#), [survey\\_empty\(\)](#), [survey\\_to\\_data\\_frame\(\)](#), [survey\\_to\\_datatable\(\)](#), [survey\\_to\\_tibble\(\)](#)

**Examples**

```
dt <- data.table::data.table(id = 1:20, x = rnorm(20), w = runif(20, 0.5, 2))
svy <- Survey$new(
  data = dt, edition = "2023", type = "demo",
  psu = NULL, engine = "data.table",
  weight = add_weight(annual = "w")
)
svy$ensure_design()
cat_design_type(svy, "annual")
```

---

certify_recipe	<i>Certify a recipe</i>
----------------	-------------------------

---

## Description

Pipe-friendly function to certify a Recipe at a given quality level.

## Usage

```
certify_recipe(recipe, user, level)
```

## Arguments

recipe	A Recipe object.
user	RecipeUser who is certifying.
level	Character. Certification level: "reviewed" or "official".

## Value

The modified Recipe object.

## See Also

[recipe\\_certification](#), [recipe\\_user](#)

Other tidy-api: [RecipeCategory](#), [RecipeCertification](#), [RecipeUser](#), [add\\_category\(\)](#), [default\\_categories\(\)](#), [filter\\_recipes\(\)](#), [filter\\_workflows\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_recipes\(\)](#), [list\\_workflows\(\)](#), [rank\\_recipes\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_category\(\)](#), [recipe\\_certification\(\)](#), [recipe\\_user\(\)](#), [remove\\_category\(\)](#), [search\\_recipes\(\)](#), [search\\_workflows\(\)](#), [set\\_user\\_info\(\)](#), [set\\_version\(\)](#)

## Examples

```
r <- recipe(  
  name = "Example", user = "Test",  
  svy = survey_empty(type = "ech", edition = "2023"),  
  description = "Example recipe"  
)  
inst <- recipe_user("IECON", type = "institution")  
r <- r |> certify_recipe(inst, "official")
```

---

configure_api	<i>Configure metasurvey API</i>
---------------	---------------------------------

---

**Description**

Set API base URL and optionally load stored credentials. The URL can also be set via the METASURVEY\_API\_URL environment variable, and the token via METASURVEY\_TOKEN.

**Usage**

```
configure_api(url)
```

**Arguments**

url	API base URL (e.g., "https://metasurvey-api.example.com")
-----	---

**Value**

Invisibly, the previous URL (for restoring).

**See Also**

Other api-auth: [api\\_login\(\)](#), [api\\_logout\(\)](#), [api\\_me\(\)](#), [api\\_refresh\\_token\(\)](#), [api\\_register\(\)](#)

**Examples**

```
configure_api(url = "https://metasurvey-api.example.com")
```

---

default_categories	<i>Default recipe categories</i>
--------------------	----------------------------------

---

**Description**

Returns a list of standard built-in categories for recipe classification.

**Usage**

```
default_categories()
```

**Value**

List of RecipeCategory objects

**See Also**

Other tidy-api: [RecipeCategory](#), [RecipeCertification](#), [RecipeUser](#), [add\\_category\(\)](#), [certify\\_recipe\(\)](#), [filter\\_recipes\(\)](#), [filter\\_workflows\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_recipes\(\)](#), [list\\_workflows\(\)](#), [rank\\_recipes\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_category\(\)](#), [recipe\\_certification\(\)](#), [recipe\\_user\(\)](#), [remove\\_category\(\)](#), [search\\_recipes\(\)](#), [search\\_workflows\(\)](#), [set\\_user\\_info\(\)](#), [set\\_version\(\)](#)

**Examples**

```
cats <- default_categories()
vapply(cats, function(c) c$name, character(1))
```

---

evaluate\_cv

*Evaluate estimation with Coefficient of Variation*

---

**Description**

Evaluate estimation with Coefficient of Variation

**Usage**

```
evaluate_cv(cv)
```

**Arguments**

cv                    Numeric coefficient of variation value.

**Value**

Character string with the quality category (e.g. "Excellent", "Good").

**See Also**

Other workflows: [RecipeWorkflow-class](#), [print.RecipeWorkflow\(\)](#), [publish\\_workflow\(\)](#), [read\\_workflow\(\)](#), [reproduce\\_workflow\(\)](#), [save\\_workflow\(\)](#), [workflow\(\)](#), [workflow\\_from\\_list\(\)](#), [workflow\\_table\(\)](#)

**Examples**

```
evaluate_cv(3) # "Excellent"
evaluate_cv(12) # "Good"
evaluate_cv(30) # "Use with caution"
```

---

`explore_recipes`*Launch the Recipe Explorer Shiny App*

---

## Description

Opens an interactive web application to explore, search, and browse metasurvey recipes with visual documentation cards. Supports user registration and login via MongoDB Atlas.

## Usage

```
explore_recipes(port = NULL, host = "127.0.0.1", launch.browser = TRUE)
```

## Arguments

<code>port</code>	Integer port number, or NULL for automatic.
<code>host</code>	Character. The host to listen on. Defaults to "127.0.0.1" for local use. Set to "0.0.0.0" for server deployments (Railway, etc.).
<code>launch.browser</code>	Logical. Open the app in a browser?

## Value

NULL (called for side effect of launching the app).

## See Also

Other recipes: [Recipe-class](#), [add\\_recipe\(\)](#), [bake\\_recipes\(\)](#), [get\\_recipe\(\)](#), [print.Recipe\(\)](#), [publish\\_recipe\(\)](#), [read\\_recipe\(\)](#), [recipe\(\)](#), [save\\_recipe\(\)](#), [steps\\_to\\_recipe\(\)](#)

## Examples

```
## Not run:  
# Local / RStudio viewer  
explore_recipes()  
  
# Server deployment (Railway, Docker, etc.)  
explore_recipes(host = "0.0.0.0", port = 3838, launch.browser = FALSE)  
  
## End(Not run)
```

---

extract_surveys	<i>Extract surveys by periodicity from a rotating panel</i>
-----------------	---

---

### Description

Extracts subsets of surveys from a `RotativePanelSurvey` object based on temporal criteria. Allows obtaining surveys for different types of analysis (monthly, quarterly, annual) respecting the rotating panel's temporal structure.

### Usage

```
extract_surveys(
  RotativePanelSurvey,
  index = NULL,
  monthly = NULL,
  annual = NULL,
  quarterly = NULL,
  biannual = NULL,
  use.parallel = FALSE
)
```

### Arguments

<code>RotativePanelSurvey</code>	A <code>RotativePanelSurvey</code> object containing the rotating panel surveys organized temporally
<code>index</code>	Integer vector specifying survey indices to extract. If a single value, returns that survey; if a vector, returns a list
<code>monthly</code>	Integer vector specifying which months to extract for monthly analysis (1-12)
<code>annual</code>	Integer vector specifying which years to extract for annual analysis
<code>quarterly</code>	Integer vector specifying which quarters to extract for quarterly analysis (1-4)
<code>biannual</code>	Integer vector specifying which semesters to extract for biannual analysis (1-2)
<code>use.parallel</code>	Logical indicating whether to use parallel processing for intensive operations. Default FALSE

### Details

This function is essential for working with rotating panels because:

- Enables periodicity-based analysis: Extract data for different types of temporal estimations
- Preserves temporal structure: Respects temporal relationships between different panel waves
- Optimizes memory: Only loads surveys needed for the analysis
- Facilitates comparisons: Extract specific periods for comparative analysis
- Supports parallelization: For operations with large data volumes

Extraction criteria are interpreted according to survey frequency:

- For monthly ECH: `monthly=c(1,3,6)` extracts January, March and June
- For annual analysis: `annual=1` typically extracts the first available year
- For quarterly analysis: `quarterly=c(1,4)` extracts Q1 and Q4

If no criteria are specified, the function returns the implantation survey with a warning.

### Value

A list of Survey objects matching the specified criteria, or a single Survey object if a single index is specified

### See Also

[load\\_panel\\_survey](#) for loading rotating panels [get\\_implantation](#) for obtaining implantation data [get\\_follow\\_up](#) for obtaining follow-up data [workflow](#) for using extracted surveys in analysis

Other panel-surveys: [PoolSurvey](#), [RotativePanelSurvey](#), [get\\_follow\\_up\(\)](#), [get\\_implantation\(\)](#)

### Examples

```
## Not run:
# Load rotating panel
panel_ech <- load_panel_survey(
  path = "ech_panel_2023.dta",
  svy_type = "ech_panel",
  svy_edition = "2023"
)

# Extract specific monthly surveys
ech_q1 <- extract_surveys(
  panel_ech,
  monthly = c(1, 2, 3) # January, February, March
)

# Extract by index
ech_first <- extract_surveys(panel_ech, index = 1)
ech_several <- extract_surveys(panel_ech, index = c(1, 3, 6))

# Quarterly analysis
ech_Q1_Q4 <- extract_surveys(
  panel_ech,
  quarterly = c(1, 4)
)

# Annual analysis (typically all surveys for the year)
ech_annual <- extract_surveys(
  panel_ech,
  annual = 1
)
```

```
# With parallel processing for large volumes
ech_full <- extract_surveys(
  panel_ech,
  monthly = 1:12,
  use.parallel = TRUE
)

# Use in workflow
results <- workflow(
  survey = extract_surveys(panel_ech, quarterly = c(1, 2)),
  svymean(~unemployed, na.rm = TRUE),
  estimation_type = "quarterly"
)

## End(Not run)
```

---

extract\_time\_pattern *Extract time pattern*

---

## Description

Extract time pattern

## Usage

```
extract_time_pattern(svy_edition)
```

## Arguments

svy\_edition      Survey edition string (e.g. "2023", "2023-06", "2023\_Q1").

## Value

List with components: periodicity, year, month (when applicable).

## See Also

Other survey-loading: [group\\_dates\(\)](#), [load\\_panel\\_survey\(\)](#), [load\\_survey\(\)](#), [load\\_survey\\_example\(\)](#), [validate\\_time\\_pattern\(\)](#)

## Examples

```
# Annual edition
extract_time_pattern("2023")

# Monthly edition
extract_time_pattern("2023-06")
```

---

filter_recipes	<i>Filter recipes by criteria</i>
----------------	-----------------------------------

---

### Description

Filter recipes in the active backend by survey type, edition, category, or certification level.

### Usage

```
filter_recipes(  
  survey_type = NULL,  
  edition = NULL,  
  category = NULL,  
  certification_level = NULL  
)
```

### Arguments

survey_type	Character survey type or NULL.
edition	Character edition or NULL.
category	Character category name or NULL.
certification_level	Character certification level or NULL.

### Value

List of matching Recipe objects.

### See Also

[search\\_recipes](#), [rank\\_recipes](#)

Other tidy-api: [RecipeCategory](#), [RecipeCertification](#), [RecipeUser](#), [add\\_category\(\)](#), [certify\\_recipe\(\)](#), [default\\_categories\(\)](#), [filter\\_workflows\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_recipes\(\)](#), [list\\_workflows\(\)](#), [rank\\_recipes\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_category\(\)](#), [recipe\\_certification\(\)](#), [recipe\\_user\(\)](#), [remove\\_category\(\)](#), [search\\_recipes\(\)](#), [search\\_workflows\(\)](#), [set\\_user\\_info\(\)](#), [set\\_version\(\)](#)

### Examples

```
set_backend("local", path = tempfile(fileext = ".json"))  
ech_recipes <- filter_recipes(survey_type = "ech")  
length(ech_recipes)
```

---

filter_workflows	<i>Filter workflows by criteria</i>
------------------	-------------------------------------

---

### Description

Filter workflows in the active backend by survey type, edition, recipe ID, or certification level.

### Usage

```
filter_workflows(  
  survey_type = NULL,  
  edition = NULL,  
  recipe_id = NULL,  
  certification_level = NULL  
)
```

### Arguments

survey_type	Character survey type or NULL (default NULL).
edition	Character edition or NULL (default NULL).
recipe_id	Character recipe ID or NULL (default NULL). Find workflows using this recipe.
certification_level	Character certification level or NULL (default NULL).

### Value

List of matching RecipeWorkflow objects.

### See Also

[search\\_workflows](#), [find\\_workflows\\_for\\_recipe](#)

Other tidy-api: [RecipeCategory](#), [RecipeCertification](#), [RecipeUser](#), [add\\_category\(\)](#), [certify\\_recipe\(\)](#), [default\\_categories\(\)](#), [filter\\_recipes\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_recipes\(\)](#), [list\\_workflows\(\)](#), [rank\\_recipes\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_category\(\)](#), [recipe\\_certification\(\)](#), [recipe\\_user\(\)](#), [remove\\_category\(\)](#), [search\\_recipes\(\)](#), [search\\_workflows\(\)](#), [set\\_user\\_info\(\)](#), [set\\_version\(\)](#)

### Examples

```
set_workflow_backend("local", path = tempfile(fileext = ".json"))  
ech_wf <- filter_workflows(survey_type = "ech")  
length(ech_wf)
```

---

```
find_workflows_for_recipe
```

*Find workflows that use a specific recipe*

---

### Description

Cross-reference query: find all workflows that reference a given recipe ID.

### Usage

```
find_workflows_for_recipe(recipe_id)
```

### Arguments

`recipe_id`      Character recipe ID to search for.

### Value

List of RecipeWorkflow objects that reference this recipe.

### See Also

[filter\\_workflows](#)

Other tidy-api: [RecipeCategory](#), [RecipeCertification](#), [RecipeUser](#), [add\\_category\(\)](#), [certify\\_recipe\(\)](#), [default\\_categories\(\)](#), [filter\\_recipes\(\)](#), [filter\\_workflows\(\)](#), [list\\_recipes\(\)](#), [list\\_workflows\(\)](#), [rank\\_recipes\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_category\(\)](#), [recipe\\_certification\(\)](#), [recipe\\_user\(\)](#), [remove\\_category\(\)](#), [search\\_recipes\(\)](#), [search\\_workflows\(\)](#), [set\\_user\\_info\(\)](#), [set\\_version\(\)](#)

### Examples

```
set_workflow_backend("local", path = tempfile(fileext = ".json"))
wfs <- find_workflows_for_recipe("recipe_001")
length(wfs)
```

---

```
get_backend
```

*Get recipe backend*

---

### Description

Returns the currently configured recipe backend. Defaults to "api" if not configured.

### Usage

```
get_backend()
```

**Value**

RecipeBackend object

**See Also**

Other backends: [get\\_workflow\\_backend\(\)](#), [set\\_backend\(\)](#), [set\\_workflow\\_backend\(\)](#)

**Examples**

```
set_backend("local", path = tempfile(fileext = ".json"))
backend <- get_backend()
backend
```

---

get\_data

*get\_data*

---

**Description**

Get data from survey

**Usage**

```
get_data(svy)
```

**Arguments**

svy                      Survey object

**Value**

A data.table (or data.frame) containing the survey microdata.

**See Also**

Other survey-objects: [Survey](#), [cat\\_design\(\)](#), [cat\\_design\\_type\(\)](#), [get\\_metadata\(\)](#), [has\\_design\(\)](#), [has\\_recipes\(\)](#), [has\\_steps\(\)](#), [is\\_baked\(\)](#), [set\\_data\(\)](#), [survey\\_empty\(\)](#), [survey\\_to\\_data\\_frame\(\)](#), [survey\\_to\\_datatable\(\)](#), [survey\\_to\\_tibble\(\)](#)

**Examples**

```
dt <- data.table::data.table(
  id = 1:5, age = c(25, 30, 45, 50, 60),
  w = rep(1, 5)
)
svy <- Survey$new(
  data = dt, edition = "2023", type = "ech",
  psu = NULL, engine = "data.table", weight = add_weight(annual = "w")
)
head(get_data(svy))
```

---

get_engine	<i>Get the current survey data engine</i>
------------	---

---

**Description**

Retrieves the currently configured engine for loading surveys from system options or environment variables.

**Usage**

```
get_engine()
```

**Value**

Character vector with the name of the configured engine.

**See Also**

Other options: [lazy\\_default\(\)](#), [set\\_engine\(\)](#), [set\\_lazy\\_processing\(\)](#), [set\\_use\\_copy\(\)](#), [show\\_engines\(\)](#), [use\\_copy\\_default\(\)](#)

**Examples**

```
get_engine()
```

---

get_follow_up	<i>Get follow-up surveys from a rotating panel</i>
---------------	--

---

**Description**

Extracts one or more follow-up surveys (waves after the implantation) from a RotativePanelSurvey object. Follow-up surveys represent subsequent data collections and are essential for longitudinal and temporal change analysis.

**Usage**

```
get_follow_up(  
  RotativePanelSurvey,  
  index = seq_along(RotativePanelSurvey$follow_up)  
)
```

**Arguments**

RotativePanelSurvey

A RotativePanelSurvey object from which to extract the follow-up surveys

index

Integer vector specifying which follow-up surveys to extract. Defaults to all available (1:length(follow\_up)). Can be a single index or a vector of indices

## Details

Follow-up surveys are fundamental in rotating panels because:

- Enable longitudinal analysis: Track the same units over time
- Capture temporal changes: Evolution of economic, social, and demographic variables
- Maintain representativeness: Each wave preserves population representativeness through controlled rotation
- Optimize resources: Reuse information from previous waves to reduce collection costs
- Facilitate comparisons: Consistent temporal structure for trend analysis

In rotating panels like ECH:

- Each follow-up wave covers a specific period (monthly/quarterly)
- Units rotate gradually maintaining temporal overlap
- Indices correspond to the chronological collection order
- Each follow-up maintains methodological consistency with implantation

## Value

A list of Survey objects corresponding to the specified follow-up surveys. If a single index is specified, returns a list with one element

## See Also

[get\\_implantation](#) for obtaining the implantation survey [extract\\_surveys](#) for extracting surveys by temporal criteria [load\\_panel\\_survey](#) for loading rotating panels [workflow](#) for analysis with follow-up surveys

Other panel-surveys: [PoolSurvey](#), [RotativePanelSurvey](#), [extract\\_surveys\(\)](#), [get\\_implantation\(\)](#)

## Examples

```
impl <- Survey$new(  
  data = data.table::data.table(id = 1:5, w = 1),  
  edition = "2023", type = "test", psu = NULL,  
  engine = "data.table", weight = add_weight(annual = "w")  
)  
fu1 <- Survey$new(  
  data = data.table::data.table(id = 1:5, w = 1),  
  edition = "2023_01", type = "test", psu = NULL,  
  engine = "data.table", weight = add_weight(annual = "w")  
)  
fu2 <- Survey$new(  
  data = data.table::data.table(id = 1:5, w = 1),  
  edition = "2023_02", type = "test", psu = NULL,  
  engine = "data.table", weight = add_weight(annual = "w")  
)  
panel <- RotativePanelSurvey$new(  
  implantation = impl, follow_up = list(fu1, fu2),  
  type = "test", default_engine = "data.table",
```

```
    steps = list(), recipes = list(), workflows = list(), design = NULL
  )
  get_follow_up(panel, index = 1)
  get_follow_up(panel)
```

---

get\_implantation      *Get implantation survey from a rotating panel*

---

## Description

Extracts the implantation (baseline) survey from a RotativePanelSurvey object. The implantation survey represents the first data collection wave and is essential for establishing the baseline and structural characteristics of the panel.

## Usage

```
get_implantation(RotativePanelSurvey)
```

## Arguments

RotativePanelSurvey

A RotativePanelSurvey object from which to extract the implantation survey

## Details

The implantation survey is special in a rotating panel because:

- Establishes the baseline: Defines initial characteristics of all panel units
- Contains the full sample: Includes all units that will participate in the different panel waves
- Defines temporal structure: Establishes rotation and follow-up patterns
- Configures metadata: Contains information about periodicity, key variables, and stratification
- Serves as tracking reference: Basis for unit tracking in subsequent waves

This function is essential for analysis requiring:

- Temporal comparisons from the baseline
- Analysis of the complete panel structure
- Configuration of longitudinal models
- Evaluation of sampling design quality

## Value

A Survey object containing the implantation survey with all its metadata, data, and design configuration

**See Also**

[get\\_follow\\_up](#) for obtaining follow-up surveys [extract\\_surveys](#) for extracting multiple surveys by criteria [load\\_panel\\_survey](#) for loading rotating panels [workflow](#) for analysis with the implantation survey

Other panel-surveys: [PoolSurvey](#), [RotativePanelSurvey](#), [extract\\_surveys\(\)](#), [get\\_follow\\_up\(\)](#)

**Examples**

```
impl <- Survey$new(
  data = data.table::data.table(id = 1:5, w = 1),
  edition = "2023", type = "test", psu = NULL,
  engine = "data.table", weight = add_weight(annual = "w")
)
fu <- Survey$new(
  data = data.table::data.table(id = 1:5, w = 1),
  edition = "2023_01", type = "test", psu = NULL,
  engine = "data.table", weight = add_weight(annual = "w")
)
panel <- RotativePanelSurvey$new(
  implantation = impl, follow_up = list(fu),
  type = "test", default_engine = "data.table",
  steps = list(), recipes = list(), workflows = list(), design = NULL
)
get_implantation(panel)
```

---

get\_metadata

*get\_metadata*


---

**Description**

Get metadata from survey

**Usage**

```
get_metadata(self)
```

**Arguments**

`self`                    Object of class Survey

**Value**

NULL (called for side effect: prints metadata to console).

**See Also**

Other survey-objects: [Survey](#), [cat\\_design\(\)](#), [cat\\_design\\_type\(\)](#), [get\\_data\(\)](#), [has\\_design\(\)](#), [has\\_recipes\(\)](#), [has\\_steps\(\)](#), [is\\_baked\(\)](#), [set\\_data\(\)](#), [survey\\_empty\(\)](#), [survey\\_to\\_data\\_frame\(\)](#), [survey\\_to\\_datatable\(\)](#), [survey\\_to\\_tibble\(\)](#)

**Examples**

```
dt <- data.table::data.table(
  id = 1:5, age = c(25, 30, 45, 50, 60),
  w = rep(1, 5)
)
svy <- Survey$new(
  data = dt, edition = "2023", type = "ech",
  psu = NULL, engine = "data.table", weight = add_weight(annual = "w")
)
get_metadata(svy)
```

get\_recipe

*Get recipe from repository or API***Description**

This function retrieves data transformation recipes from the metasurvey repository or API, based on specific criteria such as survey type, edition, and topic. It is the primary way to access predefined and community-validated recipes.

**Usage**

```
get_recipe(
  svy_type = NULL,
  svy_edition = NULL,
  topic = NULL,
  allowMultiple = TRUE
)
```

**Arguments**

svy_type	String specifying the survey type. Examples: "ech", "eaii", "eai", "eph"
svy_edition	String specifying the survey edition. Supported formats: "YYYY", "YYYYMM", "YYYY-YYYY"
topic	String specifying the recipe topic. Examples: "labor_market", "poverty", "income", "demographics"
allowMultiple	Logical indicating whether multiple recipes are allowed. If FALSE and multiple matches exist, returns the most recent one

**Details**

This function is essential for:

- Accessing official recipes: Get validated and maintained recipes by specialized teams
- Reproducibility: Ensure different users apply the same standard transformations
- Automation: Integrate recipes into automatic pipelines

- Collaboration: Share methodologies between teams and organizations
- Versioning: Access different recipe versions according to edition

The function queries the metasurvey API to retrieve recipes. **Internet connection is required.** If the API is unavailable or you need to work offline:

#### Working Offline:

- Don't call `get_recipe()` - work directly with steps
- Set `options(metasurvey.skip_recipes = TRUE)` to disable API calls
- Load recipes from local files using `read_recipe()`
- Create custom recipes with `recipe()`

Search criteria are combined with AND operator, so all specified criteria must match for a recipe to be returned.

#### Value

Recipe object or list of Recipe objects according to the specified criteria and the value of `allowMultiple`

#### See Also

[recipe](#) to create custom recipes [save\\_recipe](#) to save recipes locally [read\\_recipe](#) to read recipes from file [publish\\_recipe](#) to publish recipes to the repository [load\\_survey](#) where recipes are used

Other recipes: [Recipe-class](#), [add\\_recipe\(\)](#), [bake\\_recipes\(\)](#), [explore\\_recipes\(\)](#), [print.Recipe\(\)](#), [publish\\_recipe\(\)](#), [read\\_recipe\(\)](#), [recipe\(\)](#), [save\\_recipe\(\)](#), [steps\\_to\\_recipe\(\)](#)

#### Examples

```
## Not run:
# Get specific recipe for ECH 2023
ech_recipe <- get_recipe(
  svy_type = "ech",
  svy_edition = "2023"
)

# Recipe for specific topic
labor_recipe <- get_recipe(
  svy_type = "ech",
  svy_edition = "2023",
  topic = "labor_market"
)

# Allow multiple recipes
available_recipes <- get_recipe(
  svy_type = "eai",
  svy_edition = "2019-2021",
  allowMultiple = TRUE
)

# Use recipe in load_survey
```

```
ech_with_recipe <- load_survey(  
  path = "ech_2023.dta",  
  svy_type = "ech",  
  svy_edition = "2023",  
  recipes = get_recipe("ech", "2023"),  
  bake = TRUE  
)  
  
# Working offline - don't use recipes  
ech_offline <- load_survey(  
  path = "ech_2023.dta",  
  svy_type = "ech",  
  svy_edition = "2023",  
  svy_weight = add_weight(annual = "PESOANO")  
)  
  
# Disable recipe API globally  
options(metasurvey.skip_recipes = TRUE)  
# Now get_recipe() will return NULL with a warning  
  
# For year ranges  
panel_recipe <- get_recipe(  
  svy_type = "ech_panel",  
  svy_edition = "2020-2023"  
)  
  
## End(Not run)
```

---

get\_steps

*get\_steps*

---

### Description

Get steps from survey

### Usage

```
get_steps(svy)
```

### Arguments

svy                      Survey object

### Value

List of Step objects

**See Also**

Other steps: [bake\\_steps\(\)](#), [step\\_compute\(\)](#), [step\\_filter\(\)](#), [step\\_join\(\)](#), [step\\_recode\(\)](#), [step\\_remove\(\)](#), [step\\_rename\(\)](#), [step\\_validate\(\)](#), [view\\_graph\(\)](#)

**Examples**

```
dt <- data.table::data.table(  
  id = 1:5, age = c(25, 30, 45, 50, 60),  
  w = rep(1, 5)  
)  
svy <- Survey$new(  
  data = dt, edition = "2023", type = "ech",  
  psu = NULL, engine = "data.table", weight = add_weight(annual = "w")  
)  
svy <- step_compute(svy, age2 = age * 2)  
get_steps(svy) # list of Step objects
```

---

get\_workflow\_backend *Get workflow backend*

---

**Description**

Returns the currently configured workflow backend. Defaults to "local" if not configured.

**Usage**

```
get_workflow_backend()
```

**Value**

WorkflowBackend object

**See Also**

Other backends: [get\\_backend\(\)](#), [set\\_backend\(\)](#), [set\\_workflow\\_backend\(\)](#)

**Examples**

```
backend <- get_workflow_backend()
```

---

group_dates	<i>Group dates</i>
-------------	--------------------

---

**Description**

Group dates

**Usage**

```
group_dates(dates, type = c("monthly", "quarterly", "biannual"))
```

**Arguments**

dates	Vector of Date objects.
type	Grouping type: "monthly", "quarterly", or "biannual".

**Value**

Integer vector of group indices (e.g. 1-12 for monthly, 1-4 for quarterly).

**See Also**

Other survey-loading: [extract\\_time\\_pattern\(\)](#), [load\\_panel\\_survey\(\)](#), [load\\_survey\(\)](#), [load\\_survey\\_example\(\)](#), [validate\\_time\\_pattern\(\)](#)

**Examples**

```
dates <- as.Date(c(
  "2023-01-15", "2023-04-20",
  "2023-07-10", "2023-11-05"
))
group_dates(dates, "quarterly")
group_dates(dates, "biannual")
```

---

has_design	<i>Check if survey has a design</i>
------------	-------------------------------------

---

**Description**

Check if survey has a design

**Usage**

```
has_design(svy)
```

**Arguments**

svy                    A Survey object.

**Value**

Logical.

**See Also**

Other survey-objects: [Survey](#), [cat\\_design\(\)](#), [cat\\_design\\_type\(\)](#), [get\\_data\(\)](#), [get\\_metadata\(\)](#), [has\\_recipes\(\)](#), [has\\_steps\(\)](#), [is\\_baked\(\)](#), [set\\_data\(\)](#), [survey\\_empty\(\)](#), [survey\\_to\\_data\\_frame\(\)](#), [survey\\_to\\_datatable\(\)](#), [survey\\_to\\_tibble\(\)](#)

**Examples**

```
svy <- survey_empty(type = "test", edition = "2023")
has_design(svy) # FALSE
```

---

has_recipes	<i>Check if survey has recipes</i>
-------------	------------------------------------

---

**Description**

Check if survey has recipes

**Usage**

```
has_recipes(svy)
```

**Arguments**

svy                    A Survey or RotativePanelSurvey object.

**Value**

Logical.

**See Also**

Other survey-objects: [Survey](#), [cat\\_design\(\)](#), [cat\\_design\\_type\(\)](#), [get\\_data\(\)](#), [get\\_metadata\(\)](#), [has\\_design\(\)](#), [has\\_steps\(\)](#), [is\\_baked\(\)](#), [set\\_data\(\)](#), [survey\\_empty\(\)](#), [survey\\_to\\_data\\_frame\(\)](#), [survey\\_to\\_datatable\(\)](#), [survey\\_to\\_tibble\(\)](#)

**Examples**

```
svy <- survey_empty(type = "test", edition = "2023")
has_recipes(svy) # FALSE
```

---

has_steps	<i>Check if survey has steps</i>
-----------	----------------------------------

---

**Description**

Check if survey has steps

**Usage**

```
has_steps(svy)
```

**Arguments**

svy                    A Survey or RotativePanelSurvey object.

**Value**

Logical.

**See Also**

Other survey-objects: [Survey](#), [cat\\_design\(\)](#), [cat\\_design\\_type\(\)](#), [get\\_data\(\)](#), [get\\_metadata\(\)](#), [has\\_design\(\)](#), [has\\_recipes\(\)](#), [is\\_baked\(\)](#), [set\\_data\(\)](#), [survey\\_empty\(\)](#), [survey\\_to\\_data\\_frame\(\)](#), [survey\\_to\\_datatable\(\)](#), [survey\\_to\\_tibble\(\)](#)

**Examples**

```
svy <- survey_empty(type = "test", edition = "2023")
has_steps(svy) # FALSE
```

---

is_baked	<i>Check if all steps are baked</i>
----------	-------------------------------------

---

**Description**

Returns TRUE when every step attached to the survey has been executed (bake == TRUE), or when there are no steps.

**Usage**

```
is_baked(svy)
```

**Arguments**

svy                    A Survey or RotativePanelSurvey object.

**Value**

Logical.

**See Also**

Other survey-objects: [Survey](#), [cat\\_design\(\)](#), [cat\\_design\\_type\(\)](#), [get\\_data\(\)](#), [get\\_metadata\(\)](#), [has\\_design\(\)](#), [has\\_recipes\(\)](#), [has\\_steps\(\)](#), [set\\_data\(\)](#), [survey\\_empty\(\)](#), [survey\\_to\\_data\\_frame\(\)](#), [survey\\_to\\_datatable\(\)](#), [survey\\_to\\_tibble\(\)](#)

**Examples**

```
svy <- survey_empty(type = "test", edition = "2023")
is_baked(svy) # TRUE (no steps)
```

---

lazy\_default

*Lazy processing*

---

**Description**

Lazy processing

**Usage**

```
lazy_default()
```

**Value**

Logical indicating the current lazy processing setting.

**See Also**

Other options: [get\\_engine\(\)](#), [set\\_engine\(\)](#), [set\\_lazy\\_processing\(\)](#), [set\\_use\\_copy\(\)](#), [show\\_engines\(\)](#), [use\\_copy\\_default\(\)](#)

**Examples**

```
# Check current lazy processing default
lazy_default()
```

---

list_recipes	<i>List all recipes</i>
--------------	-------------------------

---

**Description**

List all recipes from the active backend.

**Usage**

```
list_recipes()
```

**Value**

List of all Recipe objects.

**See Also**

[search\\_recipes](#), [filter\\_recipes](#)

Other tidy-api: [RecipeCategory](#), [RecipeCertification](#), [RecipeUser](#), [add\\_category\(\)](#), [certify\\_recipe\(\)](#), [default\\_categories\(\)](#), [filter\\_recipes\(\)](#), [filter\\_workflows\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_workflows\(\)](#), [rank\\_recipes\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_category\(\)](#), [recipe\\_certification\(\)](#), [recipe\\_user\(\)](#), [remove\\_category\(\)](#), [search\\_recipes\(\)](#), [search\\_workflows\(\)](#), [set\\_user\\_info\(\)](#), [set\\_version\(\)](#)

**Examples**

```
set_backend("local", path = tempfile(fileext = ".json"))
all <- list_recipes()
length(all)
```

---

list_workflows	<i>List all workflows</i>
----------------	---------------------------

---

**Description**

List all workflows from the active workflow backend.

**Usage**

```
list_workflows()
```

**Value**

List of all RecipeWorkflow objects.

**See Also**

[search\\_workflows](#), [filter\\_workflows](#)

Other tidy-api: [RecipeCategory](#), [RecipeCertification](#), [RecipeUser](#), [add\\_category\(\)](#), [certify\\_recipe\(\)](#), [default\\_categories\(\)](#), [filter\\_recipes\(\)](#), [filter\\_workflows\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_recipes\(\)](#), [rank\\_recipes\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_category\(\)](#), [recipe\\_certification\(\)](#), [recipe\\_user\(\)](#), [remove\\_category\(\)](#), [search\\_recipes\(\)](#), [search\\_workflows\(\)](#), [set\\_user\\_info\(\)](#), [set\\_version\(\)](#)

**Examples**

```
set_workflow_backend("local", path = tempfile(fileext = ".json"))
all <- list_workflows()
length(all)
```

---

load_panel_survey	<i>Read panel survey files from different formats and create a RotativePanelSurvey object</i>
-------------------	---

---

**Description**

Read panel survey files from different formats and create a RotativePanelSurvey object

**Usage**

```
load_panel_survey(
  path_implantation,
  path_follow_up,
  svy_type,
  svy_weight_implantation,
  svy_weight_follow_up,
  svy_strata = NULL,
  ...
)
```

**Arguments**

path_implantation	Survey implantation path, file can be in different formats, csv, xlsx, dta, sav and rds
path_follow_up	Path with all the needed files with only survey valid files but also can be character vector with path files.
svy_type	String with the survey type, supported types; "ech" (Encuesta Continua de Hogares, Uruguay), "eph" (Encuesta Permanente de Hogares, Argentina), "eai" (Encuesta de Actividades de Innovacion, Uruguay)

```

svy_weight_implantation
    List with survey implantation weights information specifying periodicity and the
    name of the weight variable. Recommended to use the helper function add_weight().
svy_weight_follow_up
    List with survey follow_up weights information specifying periodicity and the
    name of the weight variable. Recommended to use the helper function add_weight().
svy_strata
    Stratification variable name (character or NULL). Passed to Survey$new(strata
    = ...).
...
    Further arguments to be passed to load_panel_survey

```

**Value**

RotativePanelSurvey object

**See Also**

Other survey-loading: [extract\\_time\\_pattern\(\)](#), [group\\_dates\(\)](#), [load\\_survey\(\)](#), [load\\_survey\\_example\(\)](#), [validate\\_time\\_pattern\(\)](#)

**Examples**

```

## Not run:
# example code
path_dir <- here::here("example-data", "ech", "ech_2023")
ech_2023 <- load_panel_survey(
  path_implantation = file.path(
    path_dir,
    "ECH_implantacion_2023.csv"
  ),
  path_follow_up = file.path(
    path_dir,
    "seguimiento"
  ),
  svy_type = "ECH_2023",
  svy_weight_implantation = add_weight(
    annual = "W_ANO"
  ),
  svy_weight_follow_up = add_weight(
    monthly = add_replicate(
      "W",
      replicate_path = file.path(
        path_dir,
        c(
          "Pesos replicados Bootstrap mensuales enero_junio 2023",
          "Pesos replicados Bootstrap mensuales julio_diciembre 2023"
        )
      ),
      c(
        "Pesos replicados mensuales enero_junio 2023",
        "Pesos replicados mensuales Julio_diciembre 2023"
      )
    )
  ),
)

```

```

        replicate_id = c("ID" = "ID"),
        replicate_pattern = "wr[0-9]+",
        replicate_type = "bootstrap"
    )
)
)

## End(Not run)
## Not run:
# Example of loading a panel survey
panel_survey <- load_panel_survey(
  path_implantation = "path/to/implantation.csv",
  path_follow_up = "path/to/follow_up",
  svy_type = "ech",
  svy_weight_implantation = add_weight(annual = "w_ano"),
  svy_weight_follow_up = add_weight(monthly = "w_monthly")
)
print(panel_survey)

## End(Not run)

```

---

load\_survey

*Load survey from file and create Survey object*


---

## Description

This function reads survey files in multiple formats and creates a Survey object with all necessary metadata for subsequent analysis. Supports various survey types with specific configurations for each one.

## Usage

```

load_survey(
  path = NULL,
  svy_type = NULL,
  svy_edition = NULL,
  svy_weight = NULL,
  svy_psu = NULL,
  svy_strata = NULL,
  ...,
  bake = FALSE,
  recipes = NULL
)

```

## Arguments

**path** Path to the survey file. Supports multiple formats: csv, xlsx, dta (Stata), sav (SPSS), rds (R). If NULL, survey arguments must be specified to create an empty object

svy_type	Survey type as string. Supported types: <ul style="list-style-type: none"> <li>• "ech": Encuesta Continua de Hogares (Uruguay)</li> <li>• "eph": Encuesta Permanente de Hogares (Argentina)</li> <li>• "eai": Encuesta de Actividades de Innovación (Uruguay)</li> <li>• "eaii": Encuesta de Actividades de Innovación e I+D (Uruguay)</li> </ul>
svy_edition	Survey edition as string. Supports different temporal patterns: <ul style="list-style-type: none"> <li>• "YYYY": Year (e.g., "2023")</li> <li>• "YYYYMM" or "MMYYYY": Year-month (e.g., "202301" or "012023")</li> <li>• "YYYY-YYYY": Year range (e.g., "2020-2022")</li> </ul>
svy_weight	List with weight information specifying periodicity and weight variable name. Use helper function <a href="#">add_weight</a>
svy_psu	Primary sampling unit (PSU) variable as string
svy_strata	Stratification variable name as string (optional). Used in <a href="#">survey::svydesign()</a> for stratified sampling designs.
...	Additional arguments passed to specific reading functions
bake	Logical indicating whether recipes are processed automatically when loading data. Defaults to FALSE
recipes	Recipe object obtained with <a href="#">get_recipe</a> . If <code>bake=TRUE</code> , these recipes are applied automatically

### Details

The function automatically detects file format and uses the appropriate reader. For each survey type, it applies specific configurations such as standard variables, data types, and validations.

When `bake=TRUE` is specified, recipes are applied immediately after loading the data, creating an analysis-ready object.

If no path is provided, an empty Survey object is created that can be used to build step pipelines without initial data.

### Value

Survey object with structure:

- data: Survey data
- metadata: Information about type, edition, weights
- steps: History of applied transformations
- recipes: Available recipes
- design: Sample design information

### See Also

[add\\_weight](#) to specify weights [get\\_recipe](#) to get available recipes [load\\_survey\\_example](#) to load example data [load\\_panel\\_survey](#) for panel surveys

Other survey-loading: [extract\\_time\\_pattern\(\)](#), [group\\_dates\(\)](#), [load\\_panel\\_survey\(\)](#), [load\\_survey\\_example\(\)](#), [validate\\_time\\_pattern\(\)](#)

## Examples

```
## Not run:
# Load ECH 2023 with recipes
ech_2023 <- load_survey(
  path = "data/ech_2023.csv",
  svy_type = "ech",
  svy_edition = "2023",
  svy_weight = add_weight(annual = "pesoano"),
  recipes = get_recipe("ech", "2023"),
  bake = TRUE
)

# Load monthly survey
ech_january <- load_survey(
  path = "data/ech_202301.dta",
  svy_type = "ech",
  svy_edition = "202301",
  svy_weight = add_weight(monthly = "pesomes")
)

# Create empty object for pipeline
pipeline <- load_survey(
  svy_type = "ech",
  svy_edition = "2023"
) %>%
  step_compute(new_var = operation)

# With included example data
ech_example <- load_survey(
  path = load_survey_example("ech", "ech_2022"),
  svy_type = "ech",
  svy_edition = "2022",
  svy_weight = add_weight(annual = "pesoano")
)

## End(Not run)
```

---

load\_survey\_example    *Load survey example data*

---

## Description

Downloads and loads example survey data from the metasurvey data repository. This function provides access to sample datasets for testing and demonstration purposes, including ECH (Continuous Household Survey) and other survey types.

## Usage

```
load_survey_example(svy_type, svy_edition)
```

**Arguments**

svy\_type            Character string specifying the survey type (e.g., "ech")  
 svy\_edition        Character string specifying the survey edition/year (e.g., "2023")

**Details**

This function downloads example data from the official metasurvey data repository on GitHub. The data is cached locally in a temporary file to avoid repeated downloads in the same session.

Available survey types and editions can be found at: [https://github.com/metasurveyr/metasurvey\\_data](https://github.com/metasurveyr/metasurvey_data)

**Value**

Character string with the path to the downloaded CSV file containing the example survey data

**See Also**

[load\\_survey](#) for loading the downloaded data

Other survey-loading: [extract\\_time\\_pattern\(\)](#), [group\\_dates\(\)](#), [load\\_panel\\_survey\(\)](#), [load\\_survey\(\)](#), [validate\\_time\\_pattern\(\)](#)

**Examples**

```
## Not run:
# Load ECH 2023 example data
ech_path <- load_survey_example("ech", "2023")

# Use with load_survey
ech_data <- load_survey(
  path = load_survey_example("ech", "2023"),
  svy_type = "ech",
  svy_edition = "2023"
)

## End(Not run)
```

---

 parse\_do\_file

---

*Parse a STATA .do file into structured commands*


---

**Description**

Reads a .do file and returns a list of parsed command objects. Handles comment stripping, line continuation, loop expansion, and command tokenization.

**Usage**

```
parse_do_file(do_file, encoding = "latin1")
```

**Arguments**

do\_file            Path to a STATA .do file  
encoding          File encoding (default "latin1" for legacy STATA files)

**Value**

A list of StataCommand lists, each with fields: cmd, args, if\_clause, options, raw\_line, line\_num, capture

**See Also**

Other transpiler: [parse\\_stata\\_labels\(\)](#), [transpile\\_coverage\(\)](#), [transpile\\_stata\(\)](#), [transpile\\_stata\\_module\(\)](#)

**Examples**

```
tf <- tempfile(fileext = ".do")  
writeLines(c("gen age2 = edad^2", "replace sexo = 1 if sexo == ."), tf)  
cmds <- parse_do_file(tf)  
length(cmds)  
cmds[[1]]$cmd
```

---

parse\_stata\_labels      *Parse STATA label commands from source lines*

---

**Description**

Extracts variable labels, value label definitions, and value label assignments from label commands.

**Usage**

```
parse_stata_labels(lines)
```

**Arguments**

lines              Character vector of source lines (already comment-stripped)

**Value**

A list with var\_labels (named list) and val\_labels (named list of named lists)

**See Also**

Other transpiler: [parse\\_do\\_file\(\)](#), [transpile\\_coverage\(\)](#), [transpile\\_stata\(\)](#), [transpile\\_stata\\_module\(\)](#)

## Examples

```
lines <- c(
  'label variable edad "Age in years"',
  'label define sexo_lbl 1 "Male" 2 "Female"',
  "label values sexo sexo_lbl"
)
labels <- parse_stata_labels(lines)
labels$var_labels
labels$val_labels
```

---

PoolSurvey

*PoolSurvey Class*

---

## Description

This class represents a collection of surveys grouped by specific periods (e.g., monthly, quarterly, annual). It provides methods to access and manipulate the grouped surveys.

## Value

An object of class PoolSurvey.

## Public fields

`surveys` A list containing the grouped surveys.

## Methods

### Public methods:

- `PoolSurvey$new()`
- `PoolSurvey$get_surveys()`
- `PoolSurvey$print()`
- `PoolSurvey$clone()`

**Method** `new()`: Initializes a new instance of the PoolSurvey class.

*Usage:*

```
PoolSurvey$new(surveys)
```

*Arguments:*

`surveys` A list containing the grouped surveys.

**Method** `get_surveys()`: Retrieves surveys for a specific period.

*Usage:*

```
PoolSurvey$get_surveys(period = NULL)
```

*Arguments:*

period A string specifying the period to retrieve (e.g., "monthly", "quarterly").

Returns: A list of surveys for the specified period.

**Method** print(): Prints metadata about the PoolSurvey object.

Usage:

```
PoolSurvey$print()
```

**Method** clone(): The objects of this class are cloneable with this method.

Usage:

```
PoolSurvey$clone(deep = FALSE)
```

Arguments:

deep Whether to make a deep clone.

### See Also

Other panel-surveys: [RotativePanelSurvey](#), [extract\\_surveys\(\)](#), [get\\_follow\\_up\(\)](#), [get\\_implantation\(\)](#)

### Examples

```
s1 <- Survey$new(
  data = data.table::data.table(id = 1:3, w = 1),
  edition = "2023", type = "test", psu = NULL,
  engine = "data.table", weight = add_weight(annual = "w")
)
s2 <- Survey$new(
  data = data.table::data.table(id = 4:6, w = 1),
  edition = "2023", type = "test", psu = NULL,
  engine = "data.table", weight = add_weight(annual = "w")
)
pool <- PoolSurvey$new(list(annual = list("group1" = list(s1, s2))))
```

---

```
print.metasurvey_provenance
```

*Print provenance information*

---

### Description

Print provenance information

### Usage

```
## S3 method for class 'metasurvey_provenance'
print(x, ...)
```

**Arguments**

x                    A metasurvey\_provenance list.  
...                  Additional arguments (unused).

**Value**

Invisibly returns x.

**See Also**

Other provenance: [print.metasurvey\\_provenance\\_diff\(\)](#), [provenance\(\)](#), [provenance\\_diff\(\)](#), [provenance\\_to\\_json\(\)](#)

**Examples**

```
s <- survey_empty("ech", "2023")
s <- set_data(s, data.table::data.table(age = 18:65))
s <- step_compute(s, age2 = age * 2)
s <- bake_steps(s)
print(provenance(s))
```

---

```
print.metasurvey_provenance_diff
      Print provenance diff
```

---

**Description**

Print provenance diff

**Usage**

```
## S3 method for class 'metasurvey_provenance_diff'
print(x, ...)
```

**Arguments**

x                    A metasurvey\_provenance\_diff list.  
...                  Additional arguments (unused).

**Value**

Invisibly returns x.

**See Also**

Other provenance: [print.metasurvey\\_provenance\(\)](#), [provenance\(\)](#), [provenance\\_diff\(\)](#), [provenance\\_to\\_json\(\)](#)

## Examples

```
s1 <- survey_empty("ech", "2022")
s1 <- set_data(s1, data.table::data.table(age = 18:65))
s1 <- step_compute(s1, age2 = age * 2)
s1 <- bake_steps(s1)

s2 <- survey_empty("ech", "2023")
s2 <- set_data(s2, data.table::data.table(age = 20:70))
s2 <- step_compute(s2, age2 = age * 2)
s2 <- bake_steps(s2)

diff_result <- provenance_diff(provenance(s1), provenance(s2))
print(diff_result)
```

---

print.Recipe	<i>Print method for Recipe objects</i>
--------------	--

---

## Description

Displays a formatted recipe card showing metadata, required variables, pipeline steps, and produced variables.

## Usage

```
## S3 method for class 'Recipe'
print(x, ...)
```

## Arguments

x	A Recipe object
...	Additional arguments (currently unused)

## Value

Invisibly returns the Recipe object

## See Also

Other recipes: [Recipe-class](#), [add\\_recipe\(\)](#), [bake\\_recipes\(\)](#), [explore\\_recipes\(\)](#), [get\\_recipe\(\)](#), [publish\\_recipe\(\)](#), [read\\_recipe\(\)](#), [recipe\(\)](#), [save\\_recipe\(\)](#), [steps\\_to\\_recipe\(\)](#)

## Examples

```
rec <- Recipe$new(  
  id = "r1", name = "Example", user = "tester",  
  edition = "2023", survey_type = "test",  
  default_engine = "data.table", depends_on = list(),  
  description = "Demo recipe", steps = list()  
)  
print(rec)
```

---

print.RecipeWorkflow *Print method for RecipeWorkflow objects*

---

## Description

Print method for RecipeWorkflow objects

## Usage

```
## S3 method for class 'RecipeWorkflow'  
print(x, ...)
```

## Arguments

x	A RecipeWorkflow object
...	Additional arguments (unused)

## Value

Invisibly returns the object

## See Also

Other workflows: [RecipeWorkflow-class](#), [evaluate\\_cv\(\)](#), [publish\\_workflow\(\)](#), [read\\_workflow\(\)](#), [reproduce\\_workflow\(\)](#), [save\\_workflow\(\)](#), [workflow\(\)](#), [workflow\\_from\\_list\(\)](#), [workflow\\_table\(\)](#)

## Examples

```
wf <- RecipeWorkflow$new(  
  id = "w1", name = "Example Workflow", user = "tester",  
  edition = "2023", survey_type = "test",  
  recipe_ids = "r1",  
  calls = list(), description = "Demo"  
)  
print(wf)
```

---

provenance	<i>Get provenance from a survey or workflow result</i>
------------	--

---

### Description

Returns the provenance metadata recording the full data lineage: source file, step history with row counts, and environment info.

### Usage

```
provenance(x, ...)  
  
## S3 method for class 'Survey'  
provenance(x, ...)  
  
## S3 method for class 'data.table'  
provenance(x, ...)  
  
## Default S3 method:  
provenance(x, ...)
```

### Arguments

x	A <a href="#">Survey</a> object or a <code>data.table</code> from <a href="#">workflow()</a> .
...	Additional arguments (unused).

### Value

A `metasurvey_provenance` list, or `NULL` if no provenance is available.

### See Also

Other provenance: [print.metasurvey\\_provenance\(\)](#), [print.metasurvey\\_provenance\\_diff\(\)](#), [provenance\\_diff\(\)](#), [provenance\\_to\\_json\(\)](#)

### Examples

```
svy <- Survey$new(  
  data = data.table::data.table(id = 1:10, age = 20:29, w = 1),  
  edition = "2023", type = "test", psu = NULL,  
  engine = "data.table", weight = add_weight(annual = "w")  
)  
provenance(svy)
```

---

provenance_diff	<i>Compare two provenance objects</i>
-----------------	---------------------------------------

---

### Description

Shows differences between two provenance records, useful for comparing processing across survey editions.

### Usage

```
provenance_diff(prov1, prov2)
```

### Arguments

prov1	First provenance list.
prov2	Second provenance list.

### Value

A `metasurvey_provenance_diff` list with detected differences.

### See Also

Other provenance: [print.metasurvey\\_provenance\(\)](#), [print.metasurvey\\_provenance\\_diff\(\)](#), [provenance\(\)](#), [provenance\\_to\\_json\(\)](#)

### Examples

```
svy1 <- Survey$new(  
  data = data.table::data.table(id = 1:5, w = rep(1, 5)),  
  edition = "2023", type = "test",  
  engine = "data.table", weight = add_weight(annual = "w")  
)  
svy2 <- Survey$new(  
  data = data.table::data.table(id = 1:5, w = rep(2, 5)),  
  edition = "2024", type = "test",  
  engine = "data.table", weight = add_weight(annual = "w")  
)  
provenance_diff(provenance(svy1), provenance(svy2))
```

---

provenance_to_json	<i>Export provenance to JSON</i>
--------------------	----------------------------------

---

**Description**

Serializes a provenance object to JSON format, optionally writing to a file.

**Usage**

```
provenance_to_json(prov, path = NULL)
```

**Arguments**

prov	A metasurvey_provenance list.
path	File path to write JSON. If NULL, returns the JSON string.

**Value**

JSON string (invisibly if path is provided).

**See Also**

Other provenance: [print.metasurvey\\_provenance\(\)](#), [print.metasurvey\\_provenance\\_diff\(\)](#), [provenance\(\)](#), [provenance\\_diff\(\)](#)

**Examples**

```
svy <- Survey$new(  
  data = data.table::data.table(id = 1:5, w = rep(1, 5)),  
  edition = "2023", type = "test",  
  engine = "data.table", weight = add_weight(annual = "w")  
)  
prov <- provenance(svy)  
provenance_to_json(prov)
```

---

publish_recipe	<i>Publish Recipe</i>
----------------	-----------------------

---

**Description**

Publishes a Recipe object to the active backend (local JSON registry or remote API).

**Usage**

```
publish_recipe(recipe)
```

**Arguments**

recipe            A Recipe object.

**Value**

The Recipe object (invisibly).

**See Also**

Other recipes: [Recipe-class](#), [add\\_recipe\(\)](#), [bake\\_recipes\(\)](#), [explore\\_recipes\(\)](#), [get\\_recipe\(\)](#), [print.Recipe\(\)](#), [read\\_recipe\(\)](#), [recipe\(\)](#), [save\\_recipe\(\)](#), [steps\\_to\\_recipe\(\)](#)

**Examples**

```
set_backend("local", path = tempfile(fileext = ".json"))
r <- recipe(
  name = "Example", user = "Test",
  svy = survey_empty(type = "ech", edition = "2023"),
  description = "Example recipe"
)
publish_recipe(r)
length(list_recipes())
```

---

publish_workflow	<i>Publish a workflow to the active backend</i>
------------------	---

---

**Description**

Publishes a RecipeWorkflow to the configured workflow backend.

**Usage**

```
publish_workflow(wf)
```

**Arguments**

wf                A RecipeWorkflow object.

**Value**

NULL (called for side effect).

**See Also**

[set\\_workflow\\_backend](#), [RecipeWorkflow](#)

Other workflows: [RecipeWorkflow-class](#), [evaluate\\_cv\(\)](#), [print.RecipeWorkflow\(\)](#), [read\\_workflow\(\)](#), [reproduce\\_workflow\(\)](#), [save\\_workflow\(\)](#), [workflow\(\)](#), [workflow\\_from\\_list\(\)](#), [workflow\\_table\(\)](#)

**Examples**

```
set_workflow_backend("local", path = tempfile(fileext = ".json"))
wf <- RecipeWorkflow$new(
  name = "Example", description = "Test",
  survey_type = "ech", edition = "2023",
  recipe_ids = "r_001", estimation_type = "svymean"
)
publish_workflow(wf)
```

rank\_recipes

*Rank recipes by downloads***Description**

Get the top recipes ranked by download count from the active backend.

**Usage**

```
rank_recipes(n = NULL)
```

**Arguments**

**n** Integer. Maximum number of recipes to return, or NULL for all.

**Value**

List of Recipe objects sorted by downloads (descending).

**See Also**

[search\\_recipes](#), [filter\\_recipes](#)

Other tidy-api: [RecipeCategory](#), [RecipeCertification](#), [RecipeUser](#), [add\\_category\(\)](#), [certify\\_recipe\(\)](#), [default\\_categories\(\)](#), [filter\\_recipes\(\)](#), [filter\\_workflows\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_recipes\(\)](#), [list\\_workflows\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_category\(\)](#), [recipe\\_certification\(\)](#), [recipe\\_user\(\)](#), [remove\\_category\(\)](#), [search\\_recipes\(\)](#), [search\\_workflows\(\)](#), [set\\_user\\_info\(\)](#), [set\\_version\(\)](#)

**Examples**

```
set_backend("local", path = tempfile(fileext = ".json"))
top10 <- rank_recipes(n = 10)
```

---

rank_workflows	<i>Rank workflows by downloads</i>
----------------	------------------------------------

---

**Description**

Get the top workflows ranked by download count.

**Usage**

```
rank_workflows(n = NULL)
```

**Arguments**

n Integer or NULL (default NULL). Maximum number to return, or NULL for all.

**Value**

List of RecipeWorkflow objects sorted by downloads.

**See Also**

[search\\_workflows](#), [filter\\_workflows](#)

Other tidy-api: [RecipeCategory](#), [RecipeCertification](#), [RecipeUser](#), [add\\_category\(\)](#), [certify\\_recipe\(\)](#), [default\\_categories\(\)](#), [filter\\_recipes\(\)](#), [filter\\_workflows\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_recipes\(\)](#), [list\\_workflows\(\)](#), [rank\\_recipes\(\)](#), [recipe\\_category\(\)](#), [recipe\\_certification\(\)](#), [recipe\\_user\(\)](#), [remove\\_category\(\)](#), [search\\_recipes\(\)](#), [search\\_workflows\(\)](#), [set\\_user\\_info\(\)](#), [set\\_version\(\)](#)

**Examples**

```
set_workflow_backend("local", path = tempfile(fileext = ".json"))
top5 <- rank_workflows(n = 5)
length(top5)
```

---

read_recipe	<i>Read Recipe</i>
-------------	--------------------

---

**Description**

Reads a Recipe object from a JSON file.

**Usage**

```
read_recipe(file)
```

**Arguments**

file                    A character string specifying the file path.

**Details**

This function reads a JSON file and decodes it into a Recipe object.

**Value**

A Recipe object.

**See Also**

Other recipes: [Recipe-class](#), [add\\_recipe\(\)](#), [bake\\_recipes\(\)](#), [explore\\_recipes\(\)](#), [get\\_recipe\(\)](#), [print.Recipe\(\)](#), [publish\\_recipe\(\)](#), [recipe\(\)](#), [save\\_recipe\(\)](#), [steps\\_to\\_recipe\(\)](#)

**Examples**

```
r <- recipe(
  name = "Example", user = "Test",
  svy = survey_empty(type = "ech", edition = "2023"),
  description = "Example recipe"
)
f <- tempfile(fileext = ".json")
save_recipe(r, f)
r2 <- read_recipe(f)
r2
```

---

read\_workflow

*Read a RecipeWorkflow from a JSON file*

---

**Description**

Read a RecipeWorkflow from a JSON file

**Usage**

```
read_workflow(file)
```

**Arguments**

file                    Character file path

**Value**

A RecipeWorkflow object

**See Also**

Other workflows: [RecipeWorkflow-class](#), [evaluate\\_cv\(\)](#), [print.RecipeWorkflow\(\)](#), [publish\\_workflow\(\)](#), [reproduce\\_workflow\(\)](#), [save\\_workflow\(\)](#), [workflow\(\)](#), [workflow\\_from\\_list\(\)](#), [workflow\\_table\(\)](#)

**Examples**

```
wf <- RecipeWorkflow$new(
  name = "Example", description = "Test",
  survey_type = "ech", edition = "2023",
  recipe_ids = "r_001", estimation_type = "svymean"
)
f <- tempfile(fileext = ".json")
save_workflow(wf, f)
wf2 <- read_workflow(f)
```

---

 recipe

---

*Create a survey data transformation recipe*


---

**Description**

Creates a Recipe object that encapsulates a sequence of data transformations that can be applied to surveys in a reproducible manner. Recipes allow documenting, sharing, and reusing data processing workflows.

**Usage**

```
recipe(...)
```

**Arguments**

... Required metadata and optional steps. Required parameters:

- name: Descriptive name for the recipe
- user: User/author creating the recipe
- svy: Base Survey object (use `survey_empty()` for generic recipes)
- description: Detailed description of the recipe's purpose

Optional parameters include data transformation steps.

**Details**

Recipes are essential for:

- **Reproducibility:** Ensure transformations are applied consistently
- **Documentation:** Keep a record of what transformations are performed and why
- **Collaboration:** Share workflows between users and teams
- **Versioning:** Maintain different processing versions for different editions
- **Automation:** Apply complex transformations automatically

Steps included in the recipe can be any combination of `step_compute`, `step_recode`, or other transformation steps.

Recipes can be saved with `save_recipe()`, loaded with `read_recipe()`, and applied automatically with `bake_recipes()`.

### Value

A Recipe object containing metadata, transformation steps, dependency information, and default engine configuration.

### See Also

[Recipe](#) for class definition [save\\_recipe](#) to save recipes [read\\_recipe](#) to load recipes [get\\_recipe](#) to retrieve recipes from repository [bake\\_recipes](#) to apply recipes to data

Other recipes: [Recipe-class](#), [add\\_recipe\(\)](#), [bake\\_recipes\(\)](#), [explore\\_recipes\(\)](#), [get\\_recipe\(\)](#), [print.Recipe\(\)](#), [publish\\_recipe\(\)](#), [read\\_recipe\(\)](#), [save\\_recipe\(\)](#), [steps\\_to\\_recipe\(\)](#)

### Examples

```
# Basic recipe without steps
r <- recipe(
  name = "Basic ECH Indicators",
  user = "Analyst",
  svy = survey_empty(type = "ech", edition = "2023"),
  description = "Basic labor indicators for ECH 2023"
)
r

# Recipe with steps using local data
dt <- data.table::data.table(
  id = 1:50, age = sample(18:65, 50, TRUE),
  income = runif(50, 1000, 5000), w = runif(50, 0.5, 2)
)
svy <- Survey$new(
  data = dt, edition = "2023", type = "demo",
  psu = NULL, engine = "data.table",
  weight = add_weight(annual = "w")
)
svy <- svy |>
  step_compute(income_cat = ifelse(income > 3000, "high", "low")) |>
  step_recode(age_group, age < 30 ~ "young", .default = "adult")
r2 <- recipe(
  name = "Demo", user = "test", svy = svy,
  description = "Demo recipe", steps = get_steps(svy)
)
r2
```

---

 Recipe-class

*Recipe R6 class*


---

**Description**

Recipe R6 class

Recipe R6 class

**Format**

An R6 class generator (R6ClassGenerator)

**Details**

R6 class representing a reproducible data transformation recipe for surveys. It encapsulates meta-data, declared dependencies, and a list of transformation steps to be applied to a Survey object.

**Value**

An object of class Recipe.

**Methods**

**\$new(name, edition, survey\_type, default\_engine, depends\_on, user, description, steps, id, doi, topic)**

Class constructor.

**\$doc()** Auto-generate documentation from recipe steps. Returns a list with metadata, input\_variables, output\_variables, and pipeline information.

**\$validate(svy)** Validate that a survey object has all required input variables.

**Public fields**

name Descriptive name of the recipe (character).

edition Target edition/period (character or Date).

survey\_type Survey type (character), e.g., "ech", "eaii".

default\_engine Default evaluation engine (character).

depends\_on Vector/list of dependencies declared by the steps.

user Author/owner (character).

description Recipe description (character).

id Unique identifier (character/numeric).

steps List of step calls that make up the workflow.

doi DOI or external identifier (character|NULL).

bake Logical flag indicating whether it has been applied.

topic Recipe topic (character|NULL).

step\_objects List of Step R6 objects (list(NULL)), used for documentation generation.  
 categories List of RecipeCategory objects for classification.  
 downloads Integer download/usage count.  
 certification RecipeCertification object (default community).  
 user\_info RecipeUser object or NULL.  
 version Recipe version string.  
 depends\_on\_recipes List of recipe IDs that must be applied before this one.  
 data\_source List with S3 bucket info (s3\_bucket, s3\_prefix, file\_pattern, provider) or NULL.  
 labels List with variable and value labels (var\_labels, val\_labels) or NULL.

## Methods

### Public methods:

- [Recipe\\$new\(\)](#)
- [Recipe\\$increment\\_downloads\(\)](#)
- [Recipe\\$certify\(\)](#)
- [Recipe\\$add\\_category\(\)](#)
- [Recipe\\$remove\\_category\(\)](#)
- [Recipe\\$to\\_list\(\)](#)
- [Recipe\\$doc\(\)](#)
- [Recipe\\$validate\(\)](#)
- [Recipe\\$clone\(\)](#)

**Method new():** Create a Recipe object

*Usage:*

```
Recipe$new(
  name,
  edition,
  survey_type,
  default_engine,
  depends_on,
  user,
  description,
  steps,
  id,
  doi = NULL,
  topic = NULL,
  step_objects = NULL,
  cached_doc = NULL,
  categories = list(),
  downloads = 0L,
  certification = NULL,
  user_info = NULL,
  version = "1.0.0",
```

```

    depends_on_recipes = list(),
    data_source = NULL,
    labels = NULL
)

```

*Arguments:*

**name** Descriptive name of the recipe (character)  
**edition** Target edition/period (character or Date)  
**survey\_type** Survey type (character), e.g., "ech", "eaii"  
**default\_engine** Default evaluation engine (character)  
**depends\_on** Vector or list of declared dependencies  
**user** Author or owner of the recipe (character)  
**description** Detailed description of the recipe (character)  
**steps** List of step calls that make up the workflow  
**id** Unique identifier (character or numeric)  
**doi** DOI or external identifier (character or NULL)  
**topic** Recipe topic (character or NULL)  
**step\_objects** List of Step R6 objects (optional, used for doc generation)  
**cached\_doc** Pre-computed documentation (optional, used when loading from JSON)  
**categories** List of RecipeCategory objects (optional)  
**downloads** Integer download count (default 0)  
**certification** RecipeCertification object (optional, default community)  
**user\_info** RecipeUser object (optional)  
**version** Recipe version string (default "1.0.0")  
**depends\_on\_recipes** List of recipe IDs that must be applied before this one (optional)  
**data\_source** List with S3 bucket info (optional)  
**labels** List with var\_labels and val\_labels (optional)

**Method** `increment_downloads()`: Increment the download counter

*Usage:*

```
Recipe$increment_downloads()
```

**Method** `certify()`: Certify the recipe at a given level

*Usage:*

```
Recipe$certify(user, level)
```

*Arguments:*

**user** RecipeUser who is certifying  
**level** Character certification level ("reviewed" or "official")

**Method** `add_category()`: Add a category to the recipe

*Usage:*

```
Recipe$add_category(category)
```

*Arguments:*

**category** RecipeCategory to add

**Method** `remove_category()`: Remove a category by name

*Usage:*

```
Recipe$remove_category(name)
```

*Arguments:*

name Character category name to remove

**Method** `to_list()`: Serialize Recipe to a plain list suitable for JSON/API publishing. Steps are encoded as character strings via `deparse()`.

*Usage:*

```
Recipe$to_list()
```

*Returns:* A named list with all recipe fields.

**Method** `doc()`: Auto-generate documentation from recipe steps

*Usage:*

```
Recipe$doc()
```

*Returns:* A list with metadata, `input_variables`, `output_variables`, and pipeline information

**Method** `validate()`: Validate that a survey has all required input variables

*Usage:*

```
Recipe$validate(svy)
```

*Arguments:*

svy A Survey object

*Returns:* TRUE if valid, otherwise stops with error listing missing variables

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
Recipe$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

## See Also

[recipe](#), [save\\_recipe](#), [read\\_recipe](#), [bake\\_recipes](#)

Other recipes: [add\\_recipe\(\)](#), [bake\\_recipes\(\)](#), [explore\\_recipes\(\)](#), [get\\_recipe\(\)](#), [print.Recipe\(\)](#), [publish\\_recipe\(\)](#), [read\\_recipe\(\)](#), [recipe\(\)](#), [save\\_recipe\(\)](#), [steps\\_to\\_recipe\(\)](#)

## Examples

```
# Use the recipe() constructor:
svy <- survey_empty(type = "ech", edition = "2023")
r <- recipe(
  name = "Example", user = "Test", svy = svy,
  description = "Example recipe"
)
```

---

RecipeCategory	<i>RecipeCategory</i>
----------------	-----------------------

---

### Description

Standardized taxonomy for classifying recipes by domain. Supports hierarchical categories with parent-child relationships.

### Value

An object of class RecipeCategory.

### Methods

**\$new(name, description, parent)** Constructor for creating a new category

**\$is\_subcategory\_of(ancestor\_name)** Check if this category is a subcategory of another

**\$get\_path()** Get full hierarchical path

**\$equals(other)** Check equality by name

**\$to\_list()** Serialize to list for JSON

**\$print(...)** Print category information

**\$from\_list(list)** Class method to reconstruct from list (see details)

### Public fields

name Character. Category identifier.

description Character. Human-readable description.

parent RecipeCategory or NULL. Parent category for hierarchy.

### Methods

#### Public methods:

- [RecipeCategory\\$new\(\)](#)
- [RecipeCategory\\$is\\_subcategory\\_of\(\)](#)
- [RecipeCategory\\$get\\_path\(\)](#)
- [RecipeCategory\\$equals\(\)](#)
- [RecipeCategory\\$to\\_list\(\)](#)
- [RecipeCategory\\$print\(\)](#)
- [RecipeCategory\\$from\\_list\(\)](#)
- [RecipeCategory\\$clone\(\)](#)

**Method new():** Create a new RecipeCategory

*Usage:*

```
RecipeCategory$new(name, description, parent = NULL)
```

*Arguments:*

name Character. Category identifier (non-empty string).

description Character. Description of the category.

parent RecipeCategory or NULL. Parent category.

**Method** `is_subcategory_of()`: Check if this category is a subcategory of another

*Usage:*

```
RecipeCategory$is_subcategory_of(ancestor_name)
```

*Arguments:*

ancestor\_name Character. Name of the potential ancestor category.

*Returns:* Logical

**Method** `get_path()`: Get full hierarchical path

*Usage:*

```
RecipeCategory$get_path()
```

*Returns:* Character string with slash-separated path

**Method** `equals()`: Check equality by name

*Usage:*

```
RecipeCategory$equals(other)
```

*Arguments:*

other RecipeCategory to compare with.

*Returns:* Logical

**Method** `to_list()`: Serialize to list for JSON

*Usage:*

```
RecipeCategory$to_list()
```

*Returns:* List representation

**Method** `print()`: Print category

*Usage:*

```
RecipeCategory$print(...)
```

*Arguments:*

... Additional arguments (not used)

**Method** `from_list()`: Deserialize a RecipeCategory from a list

*Usage:*

```
RecipeCategory$from_list(lst)
```

*Arguments:*

lst List with name, description, parent fields, or NULL

*Returns:* RecipeCategory object or NULL

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
RecipeCategory$clone(deep = FALSE)
```

*Arguments:*

deep Whether to make a deep clone.

**See Also**

Other tidy-api: [RecipeCertification](#), [RecipeUser](#), [add\\_category\(\)](#), [certify\\_recipe\(\)](#), [default\\_categories\(\)](#), [filter\\_recipes\(\)](#), [filter\\_workflows\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_recipes\(\)](#), [list\\_workflows\(\)](#), [rank\\_recipes\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_category\(\)](#), [recipe\\_certification\(\)](#), [recipe\\_user\(\)](#), [remove\\_category\(\)](#), [search\\_recipes\(\)](#), [search\\_workflows\(\)](#), [set\\_user\\_info\(\)](#), [set\\_version\(\)](#)

**Examples**

```
# Use recipe_category() for the public API:
cat <- recipe_category(
  "economics", "Economic indicators"
)
sub <- recipe_category(
  "labor_market", "Labor market",
  parent = "economics"
)
```

---

RecipeCertification    *RecipeCertification*

---

**Description**

Quality certification for recipes with three tiers: community (default), reviewed (peer-reviewed by institutional member), and official (certified by institution).

**Value**

An object of class `RecipeCertification`.

**Public fields**

`level` Character. Certification level.  
`certified_by` `RecipeUser` or `NULL`. The certifying user.  
`certified_at` `POSIXct`. Timestamp of certification.  
`notes` Character or `NULL`. Additional notes.

**Methods****Public methods:**

- [RecipeCertification\\$new\(\)](#)
- [RecipeCertification\\$numeric\\_level\(\)](#)
- [RecipeCertification\\$is\\_at\\_least\(\)](#)
- [RecipeCertification\\$to\\_list\(\)](#)
- [RecipeCertification\\$print\(\)](#)

- [RecipeCertification\\$clone\(\)](#)

**Method** `new()`: Create a new RecipeCertification

*Usage:*

```
RecipeCertification$new(  
  level,  
  certified_by = NULL,  
  notes = NULL,  
  certified_at = NULL  
)
```

*Arguments:*

`level` Character. One of "community", "reviewed", "official".  
`certified_by` RecipeUser or NULL. Required for reviewed/official.  
`notes` Character or NULL. Additional notes.  
`certified_at` POSIXct or NULL. Auto-set if NULL.

**Method** `numeric_level()`: Get numeric level for ordering (1=community, 2=reviewed, 3=official)

*Usage:*

```
RecipeCertification$numeric_level()
```

*Returns:* Integer

**Method** `is_at_least()`: Check if certification is at least a given level

*Usage:*

```
RecipeCertification$is_at_least(level)
```

*Arguments:*

`level` Character. Level to compare against.

*Returns:* Logical

**Method** `to_list()`: Serialize to list for JSON

*Usage:*

```
RecipeCertification$to_list()
```

*Returns:* List representation

**Method** `print()`: Print certification badge

*Usage:*

```
RecipeCertification$print(...)
```

*Arguments:*

`...` Additional arguments (not used)

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
RecipeCertification$clone(deep = FALSE)
```

*Arguments:*

`deep` Whether to make a deep clone.

**See Also**

Other tidy-api: [RecipeCategory](#), [RecipeUser](#), [add\\_category\(\)](#), [certify\\_recipe\(\)](#), [default\\_categories\(\)](#), [filter\\_recipes\(\)](#), [filter\\_workflows\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_recipes\(\)](#), [list\\_workflows\(\)](#), [rank\\_recipes\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_category\(\)](#), [recipe\\_certification\(\)](#), [recipe\\_user\(\)](#), [remove\\_category\(\)](#), [search\\_recipes\(\)](#), [search\\_workflows\(\)](#), [set\\_user\\_info\(\)](#), [set\\_version\(\)](#)

**Examples**

```
# Use recipe_certification() for the public API:
cert <- recipe_certification()
inst <- recipe_user("IECON", type = "institution")
official <- recipe_certification("official", certified_by = inst)
```

---

 RecipeUser

*RecipeUser*


---

**Description**

User identity for the recipe ecosystem. Supports three account types: `individual`, `institutional_member`, and `institution`.

**Value**

An object of class `RecipeUser`.

**Public fields**

`name` Character. User or institution name.

`email` Character or NULL. Email address.

`user_type` Character. One of "individual", "institutional\_member", "institution".

`affiliation` Character or NULL. Organizational affiliation.

`institution` `RecipeUser` or NULL. Parent institution (for `institutional_member`).

`url` Character or NULL. Institution URL.

`verified` Logical. Whether the account is verified.

`review_status` Character. One of "approved", "pending", "rejected".

**Methods****Public methods:**

- [RecipeUser\\$new\(\)](#)
- [RecipeUser\\$trust\\_level\(\)](#)
- [RecipeUser\\$can\\_certify\(\)](#)
- [RecipeUser\\$to\\_list\(\)](#)

- [RecipeUser#print\(\)](#)
- [RecipeUser\\$clone\(\)](#)

**Method new():** Create a new RecipeUser

*Usage:*

```
RecipeUser$new(  
  name,  
  user_type,  
  email = NULL,  
  affiliation = NULL,  
  institution = NULL,  
  url = NULL,  
  verified = FALSE,  
  review_status = "approved"  
)
```

*Arguments:*

name Character. User or institution name.

user\_type Character. One of "individual", "institutional\_member", "institution".

email Character or NULL. Email address.

affiliation Character or NULL. Organizational affiliation.

institution RecipeUser or NULL. Parent institution for institutional\_member.

url Character or NULL. Institution URL.

verified Logical. Whether account is verified.

review\_status Character. "approved", "pending", or "rejected".

**Method trust\_level():** Get trust level (1=individual, 2=member, 3=institution)

*Usage:*

```
RecipeUser$trust_level()
```

*Returns:* Integer trust level

**Method can\_certify():** Check if user can certify at a given level

*Usage:*

```
RecipeUser$can_certify(level)
```

*Arguments:*

level Character. Certification level ("reviewed" or "official").

*Returns:* Logical

**Method to\_list():** Serialize to list for JSON

*Usage:*

```
RecipeUser$to_list()
```

*Returns:* List representation

**Method print():** Print user card

*Usage:*

```
RecipeUser$print(...)
```

*Arguments:*

... Additional arguments (not used)

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
RecipeUser$clone(deep = FALSE)
```

*Arguments:*

`deep` Whether to make a deep clone.

### See Also

Other tidy-api: [RecipeCategory](#), [RecipeCertification](#), [add\\_category\(\)](#), [certify\\_recipe\(\)](#), [default\\_categories\(\)](#), [filter\\_recipes\(\)](#), [filter\\_workflows\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_recipes\(\)](#), [list\\_workflows\(\)](#), [rank\\_recipes\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_category\(\)](#), [recipe\\_certification\(\)](#), [recipe\\_user\(\)](#), [remove\\_category\(\)](#), [search\\_recipes\(\)](#), [search\\_workflows\(\)](#), [set\\_user\\_info\(\)](#), [set\\_version\(\)](#)

### Examples

```
# Use recipe_user() for the public API:
user <- recipe_user("Juan Perez", email = "juan@example.com")
inst <- recipe_user("IECON", type = "institution")
member <- recipe_user(
  "Maria",
  type = "institutional_member",
  institution = inst
)
```

---

RecipeWorkflow-class *RecipeWorkflow R6 class*

---

### Description

RecipeWorkflow R6 class

RecipeWorkflow R6 class

### Format

An R6 class generator (R6ClassGenerator)

### Details

R6 class representing a publishable workflow that captures statistical estimations applied to survey data. Workflows reference the recipes they use and document the estimation calls made.

**Value**

An object of class RecipeWorkflow.

**Methods**

**\$new(...)** Class constructor.

**\$doc()** Generate documentation for the workflow.

**\$to\_list()** Serialize to a plain list for JSON export.

**\$increment\_downloads()** Increment the download counter.

**\$add\_category(category)** Add a category.

**\$certify(user, level)** Certify the workflow.

**Public fields**

id Unique identifier (character).

name Descriptive name (character).

description Workflow description (character).

user Author/owner (character).

user\_info RecipeUser object or NULL.

survey\_type Survey type (character).

edition Survey edition (character).

estimation\_type Character vector of estimation types used.

recipe\_ids Character vector of recipe IDs referenced.

calls List of deparsed call strings.

call\_metadata List of lists with type, formula, by, description fields.

categories List of RecipeCategory objects.

downloads Integer download count.

certification RecipeCertification object.

version Version string.

doi DOI or external identifier (character|NULL).

created\_at Creation timestamp (character).

weight\_spec Named list with weight configuration per periodicity (list|NULL).

**Methods****Public methods:**

- [RecipeWorkflow\\$new\(\)](#)
- [RecipeWorkflow\\$doc\(\)](#)
- [RecipeWorkflow\\$to\\_list\(\)](#)
- [RecipeWorkflow\\$increment\\_downloads\(\)](#)
- [RecipeWorkflow\\$certify\(\)](#)

- [RecipeWorkflow\\$add\\_category\(\)](#)
- [RecipeWorkflow\\$remove\\_category\(\)](#)
- [RecipeWorkflow\\$clone\(\)](#)

**Method** `new()`: Create a RecipeWorkflow object

*Usage:*

```
RecipeWorkflow$new(
  id = NULL,
  name,
  description = "",
  user = "Unknown",
  user_info = NULL,
  survey_type = "Unknown",
  edition = "Unknown",
  estimation_type = character(0),
  recipe_ids = character(0),
  calls = list(),
  call_metadata = list(),
  categories = list(),
  downloads = 0L,
  certification = NULL,
  version = "1.0.0",
  doi = NULL,
  created_at = NULL,
  weight_spec = NULL
)
```

*Arguments:*

`id` Unique identifier  
`name` Descriptive name  
`description` Workflow description  
`user` Author name  
`user_info` RecipeUser object or NULL  
`survey_type` Survey type  
`edition` Survey edition  
`estimation_type` Character vector of estimation types  
`recipe_ids` Character vector of recipe IDs  
`calls` List of deparsed call strings  
`call_metadata` List of call metadata lists  
`categories` List of RecipeCategory objects  
`downloads` Integer download count  
`certification` RecipeCertification or NULL  
`version` Version string  
`doi` DOI or NULL  
`created_at` Timestamp string or NULL (auto-generated)  
`weight_spec` Named list with weight configuration per periodicity

**Method** `doc()`: Generate documentation for this workflow

*Usage:*

```
RecipeWorkflow$doc()
```

*Returns:* List with meta, recipe\_ids, estimations, and estimation\_types

**Method** `to_list()`: Serialize to a plain list for JSON export

*Usage:*

```
RecipeWorkflow$to_list()
```

*Returns:* A list suitable for `jsonlite::write_json`

**Method** `increment_downloads()`: Increment the download counter

*Usage:*

```
RecipeWorkflow$increment_downloads()
```

**Method** `certify()`: Certify the workflow at a given level

*Usage:*

```
RecipeWorkflow$certify(user, level)
```

*Arguments:*

`user` RecipeUser who is certifying

`level` Character certification level

**Method** `add_category()`: Add a category to the workflow

*Usage:*

```
RecipeWorkflow$add_category(category)
```

*Arguments:*

`category` RecipeCategory to add

**Method** `remove_category()`: Remove a category by name

*Usage:*

```
RecipeWorkflow$remove_category(name)
```

*Arguments:*

`name` Character category name to remove

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

```
RecipeWorkflow$clone(deep = FALSE)
```

*Arguments:*

`deep` Whether to make a deep clone.

## See Also

[save\\_workflow](#), [read\\_workflow](#), [workflow](#)

Other workflows: [evaluate\\_cv\(\)](#), [print.RecipeWorkflow\(\)](#), [publish\\_workflow\(\)](#), [read\\_workflow\(\)](#), [reproduce\\_workflow\(\)](#), [save\\_workflow\(\)](#), [workflow\(\)](#), [workflow\\_from\\_list\(\)](#), [workflow\\_table\(\)](#)

**Examples**

```
wf <- RecipeWorkflow$new(
  name = "Labor workflow", description = "Unemployment rate",
  user = "test", survey_type = "ech", edition = "2023",
  estimation_type = "annual", recipe_ids = "r_001",
  calls = list("svymean(~desocupado, na.rm = TRUE)")
)
```

---

<code>recipe_category</code>	<i>Create a recipe category</i>
------------------------------	---------------------------------

---

**Description**

Creates a [RecipeCategory](#) object for classifying recipes.

**Usage**

```
recipe_category(name, description = "", parent = NULL)
```

**Arguments**

<code>name</code>	Character. Category identifier (e.g. "labor_market").
<code>description</code>	Character. Human-readable description. Defaults to empty.
<code>parent</code>	<a href="#">RecipeCategory</a> object or character parent category name (default NULL). If a string is provided, it creates a parent category with that name.

**Value**

A [RecipeCategory](#) object.

**See Also**

[RecipeCategory](#), [add\\_category](#), [default\\_categories](#)

Other tidy-api: [RecipeCategory](#), [RecipeCertification](#), [RecipeUser](#), [add\\_category\(\)](#), [certify\\_recipe\(\)](#), [default\\_categories\(\)](#), [filter\\_recipes\(\)](#), [filter\\_workflows\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_recipes\(\)](#), [list\\_workflows\(\)](#), [rank\\_recipes\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_certification\(\)](#), [recipe\\_user\(\)](#), [remove\\_category\(\)](#), [search\\_recipes\(\)](#), [search\\_workflows\(\)](#), [set\\_user\\_info\(\)](#), [set\\_version\(\)](#)

## Examples

```
cat <- recipe_category("labor_market", "Labor market indicators")

# With parent hierarchy
sub <- recipe_category(
  "employment", "Employment stats",
  parent = "labor_market"
)
```

---

recipe\_certification *Create a recipe certification*

---

## Description

Creates a [RecipeCertification](#) object. Typically you would use [certify\\_recipe](#) to certify a recipe in a pipeline instead.

## Usage

```
recipe_certification(level = "community", certified_by = NULL, notes = NULL)
```

## Arguments

level	Character. One of "community" (default), "reviewed", or "official".
certified_by	RecipeUser or NULL (default NULL). Required for reviewed/official.
notes	Character or NULL (default NULL). Additional notes.

## Value

A [RecipeCertification](#) object.

## See Also

[RecipeCertification](#), [certify\\_recipe](#)

Other tidy-api: [RecipeCategory](#), [RecipeCertification](#), [RecipeUser](#), [add\\_category\(\)](#), [certify\\_recipe\(\)](#), [default\\_categories\(\)](#), [filter\\_recipes\(\)](#), [filter\\_workflows\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_recipes\(\)](#), [list\\_workflows\(\)](#), [rank\\_recipes\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_category\(\)](#), [recipe\\_user\(\)](#), [remove\\_category\(\)](#), [search\\_recipes\(\)](#), [search\\_workflows\(\)](#), [set\\_user\\_info\(\)](#), [set\\_version\(\)](#)

**Examples**

```
# Default community certification
cert <- recipe_certification()

# Official certification
inst <- recipe_user("IECON", type = "institution")
cert <- recipe_certification("official", certified_by = inst)
```

---

`recipe_user`*Create a recipe user*

---

**Description**

Creates a [RecipeUser](#) object with a simple functional interface.

**Usage**

```
recipe_user(
  name,
  type = "individual",
  email = NULL,
  affiliation = NULL,
  institution = NULL,
  url = NULL,
  verified = FALSE
)
```

**Arguments**

<code>name</code>	Character. User or institution name.
<code>type</code>	Character. One of "individual" (default), "institutional_member", or "institution".
<code>email</code>	Character or NULL (default NULL). Email address.
<code>affiliation</code>	Character or NULL (default NULL). Organizational affiliation.
<code>institution</code>	RecipeUser object or character institution name. Required for "institutional_member" type. If a string is provided, it creates an institution user with that name automatically.
<code>url</code>	Character or NULL (default NULL). Institution URL.
<code>verified</code>	Logical (default FALSE). Whether the account is verified.

**Value**

A [RecipeUser](#) object.

**See Also**

[RecipeUser](#), [set\\_user\\_info](#), [certify\\_recipe](#)

Other tidy-api: [RecipeCategory](#), [RecipeCertification](#), [RecipeUser](#), [add\\_category\(\)](#), [certify\\_recipe\(\)](#), [default\\_categories\(\)](#), [filter\\_recipes\(\)](#), [filter\\_workflows\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_recipes\(\)](#), [list\\_workflows\(\)](#), [rank\\_recipes\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_category\(\)](#), [recipe\\_certification\(\)](#), [remove\\_category\(\)](#), [search\\_recipes\(\)](#), [search\\_workflows\(\)](#), [set\\_user\\_info\(\)](#), [set\\_version\(\)](#)

**Examples**

```
# Individual user
user <- recipe_user("Juan Perez", email = "juan@example.com")

# Institution
inst <- recipe_user(
  "Instituto de Economia",
  type = "institution", verified = TRUE
)

# Member linked to institution
member <- recipe_user(
  "Maria",
  type = "institutional_member",
  institution = inst
)

# Member with institution name shortcut
member2 <- recipe_user(
  "Pedro",
  type = "institutional_member",
  institution = "IECON"
)
```

---

remove_category	<i>Remove a category from a recipe</i>
-----------------	--

---

**Description**

Pipe-friendly function to remove a category from a Recipe by name.

**Usage**

```
remove_category(recipe, name)
```

**Arguments**

recipe	A Recipe object.
name	Character. Category name to remove.

**Value**

The modified Recipe object.

**See Also**

[add\\_category](#)

Other tidy-api: [RecipeCategory](#), [RecipeCertification](#), [RecipeUser](#), [add\\_category\(\)](#), [certify\\_recipe\(\)](#), [default\\_categories\(\)](#), [filter\\_recipes\(\)](#), [filter\\_workflows\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_recipes\(\)](#), [list\\_workflows\(\)](#), [rank\\_recipes\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_category\(\)](#), [recipe\\_certification\(\)](#), [recipe\\_user\(\)](#), [search\\_recipes\(\)](#), [search\\_workflows\(\)](#), [set\\_user\\_info\(\)](#), [set\\_version\(\)](#)

**Examples**

```
r <- recipe(
  name = "Example", user = "Test",
  svy = survey_empty(type = "ech", edition = "2023"),
  description = "Example recipe"
)
r <- r |>
  add_category("labor_market") |>
  remove_category("labor_market")
```

---

reproduce_workflow	<i>Reproduce a workflow from its published specification</i>
--------------------	--

---

**Description**

Given a RecipeWorkflow (typically fetched from the registry), downloads the data, resolves the weight configuration, fetches referenced recipes, and returns a Survey object ready for workflow() estimation.

**Usage**

```
reproduce_workflow(wf, data_path = NULL, dest_dir = tempdir())
```

**Arguments**

wf	RecipeWorkflow object
data_path	Character path to survey microdata. If NULL, attempts to download from ANDA for ECH surveys.
dest_dir	Character directory for downloaded files

**Value**

Survey object with recipes applied and weight configuration set

**See Also**

Other workflows: [RecipeWorkflow-class](#), [evaluate\\_cv\(\)](#), [print.RecipeWorkflow\(\)](#), [publish\\_workflow\(\)](#), [read\\_workflow\(\)](#), [save\\_workflow\(\)](#), [workflow\(\)](#), [workflow\\_from\\_list\(\)](#), [workflow\\_table\(\)](#)

**Examples**

```
## Not run:
wf <- api_get_workflow("w_123")
svy <- reproduce_workflow(wf)

## End(Not run)
```

---

resolve_weight_spec	<i>Resolve a portable weight specification to a usable weight configuration</i>
---------------------	---

---

**Description**

Converts the portable weight\_spec from a RecipeWorkflow back into the format expected by load\_survey() and add\_weight(). For replicate weights with ANDA sources, automatically downloads the replicate file.

**Usage**

```
resolve_weight_spec(weight_spec, dest_dir = tempdir())
```

**Arguments**

weight_spec	Named list from RecipeWorkflow\$weight_spec
dest_dir	Character directory for downloaded files (default: tempdir())

**Value**

Named list compatible with add\_weight() output

**See Also**

Other weights: [add\\_replicate\(\)](#), [add\\_weight\(\)](#)

**Examples**

```
## Not run:
wf <- api_get_workflow("w_123")
weight <- resolve_weight_spec(wf$weight_spec)

## End(Not run)
```

---

RotativePanelSurvey    *RotativePanelSurvey Class*

---

### Description

This class represents a rotative panel survey, which includes implantation and follow-up surveys. It provides methods to access and manipulate survey data, steps, recipes, workflows, and designs.

### Value

An object of class RotativePanelSurvey.

### Public fields

`implantation` A survey object representing the implantation survey.

`follow_up` A list of survey objects representing the follow-up surveys.

`type` A string indicating the type of the survey.

`default_engine` A string specifying the default engine used for processing.

`steps` A list of steps applied to the survey.

`recipes` A list of recipes associated with the survey.

`workflows` A list of workflows associated with the survey.

`design` A design object for the survey.

`periodicity` A list containing the periodicity of the implantation and follow-up surveys.

### Methods

#### Public methods:

- [RotativePanelSurvey\\$new\(\)](#)
- [RotativePanelSurvey\\$get\\_implantation\(\)](#)
- [RotativePanelSurvey\\$get\\_follow\\_up\(\)](#)
- [RotativePanelSurvey\\$get\\_type\(\)](#)
- [RotativePanelSurvey\\$get\\_default\\_engine\(\)](#)
- [RotativePanelSurvey\\$get\\_steps\(\)](#)
- [RotativePanelSurvey\\$get\\_recipes\(\)](#)
- [RotativePanelSurvey\\$get\\_workflows\(\)](#)
- [RotativePanelSurvey\\$get\\_design\(\)](#)
- [RotativePanelSurvey#print\(\)](#)
- [RotativePanelSurvey\\$clone\(\)](#)

**Method** `new()`: Initializes a new instance of the RotativePanelSurvey class.

*Usage:*

```

RotativePanelSurvey$new(
  implantation,
  follow_up,
  type,
  default_engine,
  steps,
  recipes,
  workflows,
  design
)

```

*Arguments:*

*implantation* A survey object representing the implantation survey.

*follow\_up* A list of survey objects representing the follow-up surveys.

*type* A string indicating the type of the survey.

*default\_engine* A string specifying the default engine used for processing.

*steps* A list of steps applied to the survey.

*recipes* A list of recipes associated with the survey.

*workflows* A list of workflows associated with the survey.

*design* A design object for the survey.

**Method** `get_implantation()`: Retrieves the implantation survey.

*Usage:*

```
RotativePanelSurvey$get_implantation()
```

*Returns:* A survey object representing the implantation survey.

**Method** `get_follow_up()`: Retrieves the follow-up surveys.

*Usage:*

```

RotativePanelSurvey$get_follow_up(
  index = length(self$follow_up),
  monthly = NULL,
  quarterly = NULL,
  semiannual = NULL,
  annual = NULL
)

```

*Arguments:*

*index* An integer specifying the index of the follow-up survey to retrieve.

*monthly* A vector of integers specifying monthly intervals.

*quarterly* A vector of integers specifying quarterly intervals.

*semiannual* A vector of integers specifying semiannual intervals.

*annual* A vector of integers specifying annual intervals.

*Returns:* A list of follow-up surveys matching the specified criteria.

**Method** `get_type()`: Retrieves the type of the survey.

*Usage:*

`RotativePanelSurvey$get_type()`

*Returns:* A string indicating the type of the survey.

**Method** `get_default_engine()`: Retrieves the default engine used for processing.

*Usage:*

`RotativePanelSurvey$get_default_engine()`

*Returns:* A string specifying the default engine.

**Method** `get_steps()`: Retrieves the steps applied to the survey.

*Usage:*

`RotativePanelSurvey$get_steps()`

*Returns:* A list containing the steps for the implantation and follow-up surveys.

**Method** `get_recipes()`: Retrieves the recipes associated with the survey.

*Usage:*

`RotativePanelSurvey$get_recipes()`

*Returns:* A list of recipes.

**Method** `get_workflows()`: Retrieves the workflows associated with the survey.

*Usage:*

`RotativePanelSurvey$get_workflows()`

*Returns:* A list of workflows.

**Method** `get_design()`: Retrieves the design object for the survey.

*Usage:*

`RotativePanelSurvey$get_design()`

*Returns:* A design object.

**Method** `print()`: Prints metadata about the `RotativePanelSurvey` object.

*Usage:*

`RotativePanelSurvey$print()`

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

`RotativePanelSurvey$clone(deep = FALSE)`

*Arguments:*

`deep` Whether to make a deep clone.

### See Also

Other panel-surveys: [PoolSurvey](#), [extract\\_surveys\(\)](#), [get\\_follow\\_up\(\)](#), [get\\_implantation\(\)](#)

## Examples

```
impl <- Survey$new(  
  data = data.table::data.table(id = 1:5, w = 1),  
  edition = "2023", type = "ech", psu = NULL,  
  engine = "data.table", weight = add_weight(annual = "w")  
)  
fu1 <- Survey$new(  
  data = data.table::data.table(id = 1:5, w = 1),  
  edition = "2023_01", type = "ech", psu = NULL,  
  engine = "data.table", weight = add_weight(annual = "w")  
)  
panel <- RotativePanelSurvey$new(  
  implantation = impl, follow_up = list(fu1),  
  type = "ech", default_engine = "data.table",  
  steps = list(), recipes = list(), workflows = list(), design = NULL  
)
```

---

save\_recipe

*Save Recipe*

---

## Description

Saves a Recipe object to a file in JSON format.

## Usage

```
save_recipe(recipe, file)
```

## Arguments

recipe	A Recipe object.
file	A character string specifying the file path.

## Details

This function encodes the Recipe object and writes it to a JSON file.

## Value

NULL.

## See Also

Other recipes: [Recipe-class](#), [add\\_recipe\(\)](#), [bake\\_recipes\(\)](#), [explore\\_recipes\(\)](#), [get\\_recipe\(\)](#), [print.Recipe\(\)](#), [publish\\_recipe\(\)](#), [read\\_recipe\(\)](#), [recipe\(\)](#), [steps\\_to\\_recipe\(\)](#)

## Examples

```
r <- recipe(
  name = "Example", user = "Test",
  svy = survey_empty(type = "ech", edition = "2023"),
  description = "Example recipe"
)
f <- tempfile(fileext = ".json")
save_recipe(r, f)
```

---

save_workflow	<i>Save a RecipeWorkflow to a JSON file</i>
---------------	---

---

## Description

Save a RecipeWorkflow to a JSON file

## Usage

```
save_workflow(wf, file)
```

## Arguments

wf	A RecipeWorkflow object
file	Character file path

## Value

NULL (called for side-effect)

## See Also

Other workflows: [RecipeWorkflow-class](#), [evaluate\\_cv\(\)](#), [print.RecipeWorkflow\(\)](#), [publish\\_workflow\(\)](#), [read\\_workflow\(\)](#), [reproduce\\_workflow\(\)](#), [workflow\(\)](#), [workflow\\_from\\_list\(\)](#), [workflow\\_table\(\)](#)

## Examples

```
wf <- RecipeWorkflow$new(
  name = "Example", description = "Test",
  survey_type = "ech", edition = "2023",
  recipe_ids = "r_001", estimation_type = "svymean"
)
f <- tempfile(fileext = ".json")
save_workflow(wf, f)
```

---

search_recipes	<i>Search recipes</i>
----------------	-----------------------

---

## Description

Search for recipes by name or description in the active backend.

## Usage

```
search_recipes(query)
```

## Arguments

query            Character search string.

## Value

List of matching Recipe objects.

## See Also

[filter\\_recipes](#), [rank\\_recipes](#), [set\\_backend](#)

Other tidy-api: [RecipeCategory](#), [RecipeCertification](#), [RecipeUser](#), [add\\_category\(\)](#), [certify\\_recipe\(\)](#), [default\\_categories\(\)](#), [filter\\_recipes\(\)](#), [filter\\_workflows\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_recipes\(\)](#), [list\\_workflows\(\)](#), [rank\\_recipes\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_category\(\)](#), [recipe\\_certification\(\)](#), [recipe\\_user\(\)](#), [remove\\_category\(\)](#), [search\\_workflows\(\)](#), [set\\_user\\_info\(\)](#), [set\\_version\(\)](#)

## Examples

```
set_backend("local", path = tempfile(fileext = ".json"))
r <- recipe(
  name = "Labor Market", user = "Test",
  svy = survey_empty(type = "ech", edition = "2023"),
  description = "Labor market indicators"
)
publish_recipe(r)
results <- search_recipes("labor")
length(results)
```

---

search_workflows	<i>Search workflows</i>
------------------	-------------------------

---

**Description**

Search for workflows by name or description in the active workflow backend.

**Usage**

```
search_workflows(query)
```

**Arguments**

query            Character search string.

**Value**

List of matching RecipeWorkflow objects.

**See Also**

[filter\\_workflows](#), [rank\\_workflows](#)

Other tidy-api: [RecipeCategory](#), [RecipeCertification](#), [RecipeUser](#), [add\\_category\(\)](#), [certify\\_recipe\(\)](#), [default\\_categories\(\)](#), [filter\\_recipes\(\)](#), [filter\\_workflows\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_recipes\(\)](#), [list\\_workflows\(\)](#), [rank\\_recipes\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_category\(\)](#), [recipe\\_certification\(\)](#), [recipe\\_user\(\)](#), [remove\\_category\(\)](#), [search\\_recipes\(\)](#), [set\\_user\\_info\(\)](#), [set\\_version\(\)](#)

**Examples**

```
set_workflow_backend("local", path = tempfile(fileext = ".json"))
results <- search_workflows("labor market")
length(results)
```

---

set_backend	<i>Set recipe backend</i>
-------------	---------------------------

---

**Description**

Configure the active recipe backend via options.

**Usage**

```
set_backend(type, path = NULL)
```

**Arguments**

type            Character. "local" or "api" (also accepts "mongo" for backward compat).  
 path            Character. File path for local backend.

**Value**

Invisibly, the RecipeBackend object created.

**See Also**

Other backends: [get\\_backend\(\)](#), [get\\_workflow\\_backend\(\)](#), [set\\_workflow\\_backend\(\)](#)

**Examples**

```
set_backend("local", path = tempfile(fileext = ".json"))
```

---

set_data	<i>Set data on a Survey</i>
----------	-----------------------------

---

**Description**

Tidy wrapper for `svy$set_data(data)`.

**Usage**

```
set_data(svy, data, .copy = FALSE)
```

**Arguments**

svy            Survey object  
 data           A data.frame or data.table with survey microdata  
 .copy          Logical; if TRUE, clone the Survey before modifying (default FALSE)

**Value**

The Survey object (invisibly). If `.copy=TRUE`, returns a new clone.

**See Also**

Other survey-objects: [Survey](#), [cat\\_design\(\)](#), [cat\\_design\\_type\(\)](#), [get\\_data\(\)](#), [get\\_metadata\(\)](#), [has\\_design\(\)](#), [has\\_recipes\(\)](#), [has\\_steps\(\)](#), [is\\_baked\(\)](#), [survey\\_empty\(\)](#), [survey\\_to\\_data\\_frame\(\)](#), [survey\\_to\\_datatable\(\)](#), [survey\\_to\\_tibble\(\)](#)

## Examples

```
dt <- data.table::data.table(id = 1:5, x = rnorm(5), w = rep(1, 5))
svy <- Survey$new(
  data = dt, edition = "2023", type = "test",
  psu = NULL, engine = "data.table", weight = add_weight(annual = "w")
)
new_dt <- data.table::data.table(id = 1:3, x = rnorm(3), w = rep(1, 3))
svy <- set_data(svy, new_dt)
```

---

set\_engine

*Configure the survey data engine*

---

## Description

Configures the engine to be used for loading surveys. Checks if the provided engine is supported, sets the default engine if none is specified, and generates a message indicating the configured engine. If the engine is not supported, it throws an error.

## Usage

```
set_engine(.engine = show_engines())
```

## Arguments

`.engine` Character vector with the name of the engine to configure. By default, the engine returned by the `show_engines()` function is used.

## Value

Invisibly, the previous engine name (for restoring).

## See Also

Other options: [get\\_engine\(\)](#), [lazy\\_default\(\)](#), [set\\_lazy\\_processing\(\)](#), [set\\_use\\_copy\(\)](#), [show\\_engines\(\)](#), [use\\_copy\\_default\(\)](#)

## Examples

```
old <- set_engine("data.table")
get_engine()
```

---

set_lazy_processing	<i>Set lazy processing</i>
---------------------	----------------------------

---

**Description**

Set lazy processing

**Usage**

```
set_lazy_processing(lazy)
```

**Arguments**

lazy                    Logical. If TRUE, steps are deferred until `bake_steps()` is called.

**Value**

Invisibly, the previous value.

**See Also**

Other options: [get\\_engine\(\)](#), [lazy\\_default\(\)](#), [set\\_engine\(\)](#), [set\\_use\\_copy\(\)](#), [show\\_engines\(\)](#), [use\\_copy\\_default\(\)](#)

**Examples**

```
old <- lazy_default()
set_lazy_processing(FALSE)
lazy_default() # now FALSE
set_lazy_processing(old) # restore
```

---

set_user_info	<i>Set user info on a recipe</i>
---------------	----------------------------------

---

**Description**

Pipe-friendly function to assign a [RecipeUser](#) to a Recipe.

**Usage**

```
set_user_info(recipe, user)
```

**Arguments**

recipe                    A Recipe object.  
user                      A RecipeUser object.

**Value**

The modified Recipe object.

**See Also**

[recipe\\_user](#)

Other tidy-api: [RecipeCategory](#), [RecipeCertification](#), [RecipeUser](#), [add\\_category\(\)](#), [certify\\_recipe\(\)](#), [default\\_categories\(\)](#), [filter\\_recipes\(\)](#), [filter\\_workflows\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_recipes\(\)](#), [list\\_workflows\(\)](#), [rank\\_recipes\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_category\(\)](#), [recipe\\_certification\(\)](#), [recipe\\_user\(\)](#), [remove\\_category\(\)](#), [search\\_recipes\(\)](#), [search\\_workflows\(\)](#), [set\\_version\(\)](#)

**Examples**

```
r <- recipe(
  name = "Example", user = "Test",
  svy = survey_empty(type = "ech", edition = "2023"),
  description = "Example recipe"
)
user <- recipe_user("Juan Perez", email = "juan@example.com")
r <- r |> set_user_info(user)
```

---

set\_use\_copy

*Set data copy option*

---

**Description**

Configures whether survey operations should create copies of the data or modify existing data in place. This setting affects memory usage and performance across the metasurvey package.

**Usage**

```
set_use_copy(use_copy)
```

**Arguments**

`use_copy` Logical value: TRUE to create data copies (safer), FALSE to modify data in place (more efficient)

**Details**

Setting `use_copy` affects all subsequent survey operations:

- TRUE (default): Operations create data copies, preserving original data
- FALSE: Operations modify data in place, reducing memory usage

Use FALSE for large datasets where memory is a concern, but ensure you don't need the original data after operations.

**Value**

Invisibly, the previous value (for restoring).

**See Also**

[use\\_copy\\_default](#) to check current setting

Other options: [get\\_engine\(\)](#), [lazy\\_default\(\)](#), [set\\_engine\(\)](#), [set\\_lazy\\_processing\(\)](#), [show\\_engines\(\)](#), [use\\_copy\\_default\(\)](#)

**Examples**

```
# Set to use copies (default behavior)
set_use_copy(TRUE)
use_copy_default()

# Set to modify in place for better performance
set_use_copy(FALSE)
use_copy_default()

# Reset to default
set_use_copy(TRUE)
```

---

 set\_version

*Set version on a recipe*


---

**Description**

Pipe-friendly function to set the version string on a Recipe.

**Usage**

```
set_version(recipe, version)
```

**Arguments**

recipe	A Recipe object.
version	Character version string (e.g. "2.0.0").

**Value**

The modified Recipe object.

**See Also**

Other tidy-api: [RecipeCategory](#), [RecipeCertification](#), [RecipeUser](#), [add\\_category\(\)](#), [certify\\_recipe\(\)](#), [default\\_categories\(\)](#), [filter\\_recipes\(\)](#), [filter\\_workflows\(\)](#), [find\\_workflows\\_for\\_recipe\(\)](#), [list\\_recipes\(\)](#), [list\\_workflows\(\)](#), [rank\\_recipes\(\)](#), [rank\\_workflows\(\)](#), [recipe\\_category\(\)](#), [recipe\\_certification\(\)](#), [recipe\\_user\(\)](#), [remove\\_category\(\)](#), [search\\_recipes\(\)](#), [search\\_workflows\(\)](#), [set\\_user\\_info\(\)](#)

## Examples

```
r <- recipe(  
  name = "Example", user = "Test",  
  svy = survey_empty(type = "ech", edition = "2023"),  
  description = "Example recipe"  
)  
r <- r |> set_version("2.0.0")
```

---

set\_workflow\_backend *Set workflow backend*

---

## Description

Configure the active workflow backend via options.

## Usage

```
set_workflow_backend(type, path = NULL)
```

## Arguments

type	Character. "local" or "api" (also accepts "mongo" for backward compat).
path	Character. File path for local backend.

## Value

Invisibly, the WorkflowBackend object created.

## See Also

Other backends: [get\\_backend\(\)](#), [get\\_workflow\\_backend\(\)](#), [set\\_backend\(\)](#)

## Examples

```
set_workflow_backend("local", path = tempfile(fileext = ".json"))
```

---

show_engines	<i>List available survey data engines</i>
--------------	---

---

**Description**

Returns a character vector of available engines that can be used for loading surveys.

**Usage**

```
show_engines()
```

**Value**

Character vector with the names of the available engines.

**See Also**

Other options: [get\\_engine\(\)](#), [lazy\\_default\(\)](#), [set\\_engine\(\)](#), [set\\_lazy\\_processing\(\)](#), [set\\_use\\_copy\(\)](#), [use\\_copy\\_default\(\)](#)

**Examples**

```
show_engines()
```

---

steps_to_recipe	<i>Convert a list of steps to a recipe</i>
-----------------	--

---

**Description**

Convert a list of steps to a recipe

**Usage**

```
steps_to_recipe(  
  name,  
  user,  
  svy = survey_empty(type = "eaii", edition = "2019-2021"),  
  description,  
  steps,  
  doi = NULL,  
  topic = NULL  
)
```

**Arguments**

name	A character string with the name of the recipe
user	A character string with the user of the recipe
svy	A Survey object
description	A character string with the description of the recipe
steps	A list with the steps of the recipe
doi	A character string with the DOI of the recipe
topic	A character string with the topic of the recipe

**Value**

A Recipe object

**See Also**

Other recipes: [Recipe-class](#), [add\\_recipe\(\)](#), [bake\\_recipes\(\)](#), [explore\\_recipes\(\)](#), [get\\_recipe\(\)](#), [print.Recipe\(\)](#), [publish\\_recipe\(\)](#), [read\\_recipe\(\)](#), [recipe\(\)](#), [save\\_recipe\(\)](#)

**Examples**

```
dt <- data.table::data.table(
  id = 1:20, age = sample(18:65, 20, TRUE),
  w = runif(20, 0.5, 2)
)
svy <- Survey$new(
  data = dt, edition = "2023", type = "demo",
  psu = NULL, engine = "data.table",
  weight = add_weight(annual = "w")
)
svy <- step_compute(svy, age2 = age^2)
my_recipe <- steps_to_recipe(
  name = "age_vars", user = "analyst",
  svy = svy, description = "Age-derived variables",
  steps = get_steps(svy)
)
my_recipe
```

---

step\_compute

*Create computation steps for survey variables*

---

**Description**

This function uses optimized expression evaluation with automatic dependency detection and error prevention. All computations are validated before execution.

**Usage**

```
step_compute(
  svy = NULL,
  ...,
  .by = NULL,
  .copy = use_copy_default(),
  comment = "Compute step",
  .level = "auto",
  use_copy = deprecated()
)
```

**Arguments**

svy	A Survey or RotativePanelSurvey object. If NULL, creates a step that can be applied later using the pipe operator ( <code>%&gt;%</code> )
...	Computation expressions with automatic optimization. Names are assigned using <code>new_var = expression</code>
.by	Vector of variables to group computations by. The system automatically validates these variables exist before execution
.copy	Logical indicating whether to create a copy of the object before applying transformations. Defaults to <code>use_copy_default()</code>
comment	Descriptive text for the step for documentation and traceability. Compatible with Markdown syntax. Defaults to "Compute step"
.level	For RotativePanelSurvey objects (default "auto"), specifies the level where computations are applied: "implantation", "follow_up", "quarter", "month", or "auto"
use_copy	<b>[Deprecated]</b> Use <code>.copy</code> instead.

**Details**

**Lazy evaluation (default):** By default, steps are recorded but **not executed** until `bake_steps()` is called. This allows building a full pipeline before materializing any changes. Set `options(metasurvey.lazy_processing = FALSE)` to apply steps immediately.

**Expression processing:** Expressions are evaluated using `data.table`'s `:=` operator. Variable dependencies are detected automatically via `all.vars()`. Missing variables are caught before execution.

**Grouped computations:** Use `.by` to compute aggregated values (e.g., group means) that are automatically joined back to the data.

For RotativePanelSurvey objects, `.level` controls where computations are applied:

- "auto" (default): applies to both implantation and follow-ups
- "implantation": household/dwelling level only
- "follow\_up": individual/person level only

**Value**

Same type of input object (Survey or RotativePanelSurvey) with new computed variables and the step added to the history

**See Also**

[step\\_recode](#) for categorical recodings [bake\\_steps](#) to execute all pending steps

Other steps: [bake\\_steps\(\)](#), [get\\_steps\(\)](#), [step\\_filter\(\)](#), [step\\_join\(\)](#), [step\\_recode\(\)](#), [step\\_remove\(\)](#), [step\\_rename\(\)](#), [step\\_validate\(\)](#), [view\\_graph\(\)](#)

**Examples**

```
# Basic computation
dt <- data.table::data.table(
  id = 1:5, age = c(25, 30, 45, 50, 60), w = 1
)
svy <- Survey$new(
  data = dt, edition = "2023", type = "test",
  psu = NULL, engine = "data.table", weight = add_weight(annual = "w")
)
svy <- svy |> step_compute(age_squared = age^2, comment = "Age squared")
svy <- bake_steps(svy)
get_data(svy)
```

```
# ECH example: labor indicator
# ech <- ech |>
#   step_compute(
#     unemployed = ifelse(POBPCOAC %in% 3:5, 1, 0),
#     comment = "Unemployment indicator")
```

---

step\_filter

*Filter rows from survey data*


---

**Description**

Creates a step that filters (subsets) rows from the survey data based on logical conditions. Multiple conditions are combined with AND.

**Usage**

```
step_filter(
  svy,
  ...,
  .by = NULL,
  .copy = use_copy_default(),
  comment = "Filter step",
  .level = "auto"
)
```

**Arguments**

svy	A <a href="#">Survey</a> or <a href="#">RotativePanelSurvey</a> object.
...	Logical expressions evaluated against the data. Each must return a logical vector. Multiple conditions are combined with AND.
.by	Optional grouping variable(s) for within-group filtering.
.copy	Whether to operate on a copy (default: <a href="#">use_copy_default()</a> ).
comment	Descriptive text for the step (default "Filter step").
.level	For <a href="#">RotativePanelSurvey</a> , the level to apply (default "auto"): "implantation", "follow_up", or "auto" (both).

**Details**

**Lazy evaluation (default):** Like all steps, filter is recorded but **not executed** until [bake\\_steps\(\)](#) is called.

**Value**

The survey object with rows filtered and the step recorded.

**See Also**

Other steps: [bake\\_steps\(\)](#), [get\\_steps\(\)](#), [step\\_compute\(\)](#), [step\\_join\(\)](#), [step\\_recode\(\)](#), [step\\_remove\(\)](#), [step\\_rename\(\)](#), [step\\_validate\(\)](#), [view\\_graph\(\)](#)

**Examples**

```
svy <- Survey$new(
  data = data.table::data.table(
    id = 1:10, age = c(15, 25, 35, 45, 55, 65, 75, 20, 30, 40), w = 1
  ),
  edition = "2023", type = "test", psu = NULL,
  engine = "data.table", weight = add_weight(annual = "w")
)
svy <- svy |> step_filter(age >= 18) |> bake_steps()
nrow(get_data(svy))
```

---

step\_join

*Join external data into survey (step)*


---

**Description**

Creates a step that joins additional data into a [Survey](#) or [RotativePanelSurvey](#).

**Usage**

```
step_join(
  svy,
  x,
  by = NULL,
  type = c("left", "inner", "right", "full"),
  suffixes = c("", ".y"),
  .copy = use_copy_default(),
  comment = "Join step",
  use_copy = deprecated(),
  lazy = lazy_default(),
  record = TRUE
)
```

**Arguments**

svy	A Survey or RotativePanelSurvey object. If NULL, returns a step call
x	A data.frame/data.table or a Survey to join into svy
by	Character vector of join keys. Named vector for different names between svy and x (names are keys in svy, values are keys in x). If NULL, tries to infer common column names
type	Join type: "left" (default), "inner", "right", or "full"
suffixes	Length-2 character vector of suffixes for conflicting columns from svy and x respectively. Defaults to c("", ".y")
.copy	Whether to operate on a copy (default: use_copy_default())
comment	Optional description for the step (default "Join step").
use_copy	<b>[Deprecated]</b> Use .copy instead.
lazy	Internal. Whether to delay execution (default lazy_default()).
record	Internal. Whether to record the step (default TRUE).

**Details**

**Lazy evaluation (default):** By default, steps are recorded but **not executed** until `bake_steps()` is called.

Supports left, inner, right, and full joins. Allows named by mapping (e.g., `c("id" = "code")`) or a simple character vector. Conflicting column names are resolved by appending suffixes to the right-hand side columns.

**Value**

Modified survey object with the join recorded as a step (and applied immediately when baked). For RotativePanelSurvey, the join is applied to implantation and every follow\_up survey.

**See Also**

Other steps: [bake\\_steps\(\)](#), [get\\_steps\(\)](#), [step\\_compute\(\)](#), [step\\_filter\(\)](#), [step\\_recode\(\)](#), [step\\_remove\(\)](#), [step\\_rename\(\)](#), [step\\_validate\(\)](#), [view\\_graph\(\)](#)

**Examples**

```

# With data.frame
s <- Survey$new(
  data = data.table::data.table(id = 1:3, w = 1, a = c("x", "y", "z")),
  edition = "2023", type = "ech", psu = NULL, engine = "data.table",
  weight = add_weight(annual = "w")
)
info <- data.frame(id = c(1, 2), b = c(10, 20))
s2 <- step_join(s, info, by = "id", type = "left")
s2 <- bake_steps(s2)

# With another Survey
s_right <- Survey$new(
  data = data.table::data.table(id = c(2, 3), b = c(200, 300), w2 = 1),
  edition = "2023", type = "ech", psu = NULL, engine = "data.table",
  weight = add_weight(annual = "w2")
)
s3 <- step_join(s, s_right, by = c("id" = "id"), type = "inner")
s3 <- bake_steps(s3)

```

---

step\_recode

---

*Create recoding steps for categorical variables*


---

**Description**

This function uses optimized expression evaluation for all recoding conditions. All conditional expressions are validated and optimized for efficient execution.

**Usage**

```

step_recode(
  svy,
  new_var,
  ...,
  .default = NA_character_,
  .name_step = NULL,
  ordered = FALSE,
  .copy = use_copy_default(),
  comment = "Recode step",
  .to_factor = FALSE,
  .level = "auto",
  use_copy = deprecated()
)

```

**Arguments**

svy	A Survey or RotativePanelSurvey object. If NULL, creates a step that can be applied later using the pipe operator ( <code>%&gt;%</code> )
new_var	Name of the new variable to create (unquoted)
...	Sequence of two-sided formulas defining recoding rules. Left-hand side (LHS) is a conditional expression, right-hand side (RHS) defines the replacement value. Format: <code>condition ~ value</code>
.default	Default value assigned when no condition is met. Defaults to <code>NA_character_</code>
.name_step	<b>[Deprecated]</b> Custom name for the step in the history. Now auto-generated from the variable name. Use comment for user-facing documentation instead.
ordered	Logical indicating whether the new variable should be an ordered factor. Defaults to FALSE
.copy	Logical indicating whether to create a copy of the object before applying transformations. Defaults to <code>use_copy_default()</code>
comment	Descriptive text for the step for documentation and traceability. Compatible with Markdown syntax. Defaults to "Recode step"
.to_factor	Logical indicating whether the new variable should be converted to a factor. Defaults to FALSE
.level	For RotativePanelSurvey objects (default "auto"), specifies the level where recoding is applied: "implantation", "follow_up", "quarter", "month", or "auto"
use_copy	<b>[Deprecated]</b> Use <code>.copy</code> instead.

**Details**

**Lazy evaluation (default):** By default, steps are recorded but **not executed** until `bake_steps()` is called. This allows building a full pipeline before materializing any changes.

**Condition evaluation:** Conditions are two-sided formulas evaluated in order. The first matching condition determines the assigned value. If no condition matches, `.default` is used.

Condition examples:

- Simple: `variable == 1 ~ "Yes"`
- Complex: `age >= 18 & income > 12000 ~ "High"`
- Vectorized: `variable %in% c(1, 2, 3) ~ "Group A"`
- Logical: `!is.na(education) ~ "Has education"`

**Value**

Same type of input object (Survey or RotativePanelSurvey) with the new recoded variable and the step added to the history

**See Also**

[step\\_compute](#) for more complex calculations [bake\\_steps](#) to execute all pending steps [get\\_steps](#) to view step history

Other steps: [bake\\_steps\(\)](#), [get\\_steps\(\)](#), [step\\_compute\(\)](#), [step\\_filter\(\)](#), [step\\_join\(\)](#), [step\\_remove\(\)](#), [step\\_rename\(\)](#), [step\\_validate\(\)](#), [view\\_graph\(\)](#)

**Examples**

```
# Basic recode: categorize ages
dt <- data.table::data.table(
  id = 1:6, age = c(10, 25, 45, 60, 70, 80), w = 1
)
svy <- Survey$new(
  data = dt, edition = "2023", type = "test",
  psu = NULL, engine = "data.table",
  weight = add_weight(annual = "w")
)
svy <- svy |>
  step_recode(
    age_group,
    age < 18 ~ "Under 18",
    age >= 18 & age < 65 ~ "Working age",
    age >= 65 ~ "Senior",
    .default = "Unknown"
  )
svy <- bake_steps(svy)
get_data(svy)

# ECH example: labor force status
# ech <- ech |>
#   step_recode(labor_status,
#     POBPCOAC == 2 ~ "Employed",
#     POBPCOAC %in% 3:5 ~ "Unemployed",
#     .default = "Missing")
```

---

step\_remove

*Remove variables from survey data (step)*

---

**Description**

Creates a step that removes one or more variables from the survey data when baked.

**Usage**

```
step_remove(
  svy,
  ...,
  vars = NULL,
  .copy = use_copy_default(),
  comment = "Remove variables",
  use_copy = deprecated(),
  lazy = lazy_default(),
  record = TRUE
)
```

**Arguments**

svy	A Survey or RotativePanelSurvey object
...	Unquoted variable names to remove, or a character vector
vars	Character vector of variable names to remove. Alternative to ... for programmatic use.
.copy	Whether to operate on a copy (default: use_copy_default())
comment	Descriptive text for the step for documentation and traceability (default "Remove variables").
use_copy	<b>[Deprecated]</b> Use .copy instead.
lazy	Internal. Whether to delay execution (default lazy_default()).
record	Internal. Whether to record the step (default TRUE).

**Details**

**Lazy evaluation (default):** By default, steps are recorded but **not executed** until `bake_steps()` is called.

Variables can be specified in two ways:

- **Unquoted names:** `step_remove(svy, age, income)`
- **Character vector:** `step_remove(svy, vars = c("age", "income"))`

Variables that don't exist in the data produce a warning (not an error), allowing pipelines to be robust to missing columns.

**Value**

Survey object with the specified variables removed (or queued for removal).

**See Also**

Other steps: [bake\\_steps\(\)](#), [get\\_steps\(\)](#), [step\\_compute\(\)](#), [step\\_filter\(\)](#), [step\\_join\(\)](#), [step\\_recode\(\)](#), [step\\_rename\(\)](#), [step\\_validate\(\)](#), [view\\_graph\(\)](#)

**Examples**

```
dt <- data.table::data.table(
  id = 1:5, age = c(25, 30, 45, 50, 60),
  w = rep(1, 5)
)
svy <- Survey$new(
  data = dt, edition = "2023", type = "ech",
  psu = NULL, engine = "data.table", weight = add_weight(annual = "w")
)
svy2 <- step_remove(svy, age)
svy2 <- bake_steps(svy2)
"age" %in% names(get_data(svy2)) # FALSE
```

---

step_rename	<i>Rename variables in survey data (step)</i>
-------------	---

---

**Description**

Creates a step that renames variables in the survey data when baked.

**Usage**

```
step_rename(
  svy,
  ...,
  mapping = NULL,
  .copy = use_copy_default(),
  comment = "Rename variables",
  use_copy = deprecated(),
  lazy = lazy_default(),
  record = TRUE
)
```

**Arguments**

svy	A Survey or RotativePanelSurvey object
...	Pairs in the form new_name = old_name (unquoted).
mapping	A named character vector of the form c(new_name = "old_name"). Alternative to ... for programmatic use.
.copy	Whether to operate on a copy (default: use_copy_default())
comment	Descriptive text for the step for documentation and traceability (default "Rename variables").
use_copy	<b>[Deprecated]</b> Use .copy instead.
lazy	Internal. Whether to delay execution (default lazy_default()).
record	Internal. Whether to record the step (default TRUE).

## Details

**Lazy evaluation (default):** By default, steps are recorded but **not executed** until `bake_steps()` is called.

Variables can be renamed in two ways:

- **Unquoted pairs:** `step_rename(svy, new_name = old_name)`
- **Named character vector:** `step_rename(svy, mapping = c(new_name = "old_name"))`

Variables that don't exist in the data cause an error, unlike `step_remove()` which issues a warning.

## Value

Survey object with the specified variables renamed (or queued for renaming).

## See Also

Other steps: `bake_steps()`, `get_steps()`, `step_compute()`, `step_filter()`, `step_join()`, `step_recode()`, `step_remove()`, `step_validate()`, `view_graph()`

## Examples

```
dt <- data.table::data.table(
  id = 1:5, age = c(25, 30, 45, 50, 60),
  w = rep(1, 5)
)
svy <- Survey$new(
  data = dt, edition = "2023", type = "ech",
  psu = NULL, engine = "data.table", weight = add_weight(annual = "w")
)
svy2 <- step_rename(svy, edad = age)
svy2 <- bake_steps(svy2)
"edad" %in% names(get_data(svy2)) # TRUE
```

---

step\_validate

*Validate data during the step pipeline*

---

## Description

Creates a non-mutating step that checks data invariants when `bake_steps` is called. Each check is a logical expression evaluated row-wise against the survey data. If any row fails a check, the pipeline stops (or warns).

**Usage**

```
step_validate(
  svy,
  ...,
  .action = c("stop", "warn"),
  .min_n = NULL,
  .copy = use_copy_default(),
  comment = "Validate step"
)
```

**Arguments**

svy	A Survey or RotativePanelSurvey object
...	Logical expressions evaluated against the data. Each must return a logical vector with one value per row. Named expressions use the name in error messages; unnamed expressions use the deparsed code. Examples: <code>income &gt; 0</code> , <code>!is.na(age)</code> , <code>sex %in% c(1, 2)</code> .
.action	What to do when a check fails: "stop" (default) raises an error, "warn" issues a warning and continues.
.min_n	Minimum number of rows required. Checked before row-level expressions.
.copy	Whether to operate on a copy (default: <code>use_copy_default()</code> )
comment	Descriptive text for the step for documentation and traceability (default "Validate step").

**Details**

**Lazy evaluation (default):** Like all steps, validation checks are recorded but **not executed** until `bake_steps` is called. This means `step_validate` can reference variables created by preceding `step_compute` calls.

The validate step does **not** modify the data in any way. It only inspects the current state of the `data.table` and raises an error or warning if any check fails.

**Value**

The survey object with a validate step recorded (no data mutation).

**See Also**

Other steps: `bake_steps()`, `get_steps()`, `step_compute()`, `step_filter()`, `step_join()`, `step_recode()`, `step_remove()`, `step_rename()`, `view_graph()`

**Examples**

```
dt <- data.table::data.table(
  id = 1:5, age = c(25, 30, 45, 50, 60),
  income = c(1000, 2000, 3000, 4000, 5000), w = 1
)
svy <- Survey$new(
```

```

data = dt, edition = "2023", type = "test",
psu = NULL, engine = "data.table", weight = add_weight(annual = "w")
)

# Validate that all ages are positive and income is not NA
svy <- svy |>
  step_validate(age > 0, !is.na(income), .min_n = 3) |>
  bake_steps()

```

---

Survey

*Survey R6 class*

---

### Description

Survey R6 class

Survey R6 class

### Format

An R6 class generator (R6ClassGenerator)

### Details

R6 class that encapsulates survey data, metadata (type, edition, periodicity), sampling design (simple/replicate), steps/recipes/workflows, and utilities to manage them.

Only copies the data; reuses design objects and other metadata. Much faster than `clone(deep=TRUE)` but design objects are shared.

### Value

R6 class generator for Survey.

### Main methods

**\$new(data, edition, type, psu, strata, engine, weight, design = NULL, steps = NULL, recipes = list())**  
 Constructor.

**\$set\_data(data)** Set data.

**\$set\_edition(edition)** Set edition.

**\$set\_type(type)** Set type.

**\$set\_weight(weight)** Set weight specification.

**\$print()** Print summarized metadata.

**\$add\_step(step)** Add a step and invalidate design.

**\$add\_recipe(recipe)** Add a recipe (validates type and dependencies).

**\$add\_workflow(workflow)** Add a workflow.

- \$bake()** Apply recipes and return updated Survey.
- \$ensure\_design()** Lazily initialize the sampling design.
- \$update\_design()** Update design variables with current data.
- \$shallow\_clone()** Efficient copy (shares design, copies data).

### Public fields

- data** Survey data (data.frame/data.table).
- edition** Reference edition or period.
- type** Survey type, e.g., "ech" (character).
- periodicity** Periodicity detected by `validate_time_pattern`.
- default\_engine** Default engine (character).
- weight** List with weight specifications per estimation type.
- steps** List of steps applied to the survey.
- recipes** List of [Recipe](#) objects associated.
- workflows** List of workflows.
- design** List of survey design objects (survey/surveyrep).
- psu** Primary Sampling Unit specification (formula or character).
- strata** Stratification variable name (character or NULL).
- design\_initialized** Logical flag for lazy design initialization.
- provenance** Data lineage metadata (see [provenance\(\)](#)).

### Active bindings

- design\_active** Deprecated. Use `ensure_design()` instead.

### Methods

#### Public methods:

- [Survey\\$new\(\)](#)
- [Survey\\$get\\_data\(\)](#)
- [Survey\\$get\\_edition\(\)](#)
- [Survey\\$get\\_type\(\)](#)
- [Survey\\$set\\_data\(\)](#)
- [Survey\\$set\\_edition\(\)](#)
- [Survey\\$set\\_type\(\)](#)
- [Survey\\$set\\_weight\(\)](#)
- [Survey\\$print\(\)](#)
- [Survey\\$add\\_step\(\)](#)
- [Survey\\$add\\_recipe\(\)](#)
- [Survey\\$add\\_workflow\(\)](#)
- [Survey\\$bake\(\)](#)

- `Survey$head()`
- `Survey$str()`
- `Survey$set_design()`
- `Survey$ensure_design()`
- `Survey$update_design()`
- `Survey$shallow_clone()`
- `Survey$clone()`

**Method `new()`:** Create a Survey object

*Usage:*

```
Survey$new(
  data,
  edition,
  type,
  psu = NULL,
  strata = NULL,
  engine,
  weight,
  design = NULL,
  steps = NULL,
  recipes = list()
)
```

*Arguments:*

`data` Survey data  
`edition` Edition or period  
`type` Survey type (character)  
`psu` PSU variable or formula (optional)  
`strata` Stratification variable name (optional)  
`engine` Default engine  
`weight` Weight specification(s) per estimation type  
`design` Pre-built design (optional)  
`steps` Initial steps list (optional)  
`recipes` List of Recipe (optional)

**Method `get_data()`:** Return the underlying data

*Usage:*

```
Survey$get_data()
```

**Method `get_edition()`:** Return the survey edition/period

*Usage:*

```
Survey$get_edition()
```

**Method `get_type()`:** Return the survey type identifier

*Usage:*

```
Survey$get_type()
```

**Method** `set_data()`: Set the underlying data

*Usage:*

```
Survey$set_data(data)
```

*Arguments:*

data New survey data

**Method** `set_edition()`: Set the survey edition/period

*Usage:*

```
Survey$set_edition(edition)
```

*Arguments:*

edition New edition or period

**Method** `set_type()`: Set the survey type

*Usage:*

```
Survey$set_type(type)
```

*Arguments:*

type New type identifier

**Method** `set_weight()`: Set weight specification(s) per estimation type

*Usage:*

```
Survey$set_weight(weight)
```

*Arguments:*

weight Weight specification list or character

**Method** `print()`: Print summarized metadata to console

*Usage:*

```
Survey$print()
```

**Method** `add_step()`: Add a step and invalidate design

*Usage:*

```
Survey$add_step(step)
```

*Arguments:*

step Step object

**Method** `add_recipe()`: Add a recipe

*Usage:*

```
Survey$add_recipe(recipe, bake = lazy_default())
```

*Arguments:*

recipe Recipe object

bake Whether to bake lazily (internal flag)

**Method** `add_workflow()`: Add a workflow to the survey

*Usage:*

`Survey$add_workflow(workflow)`

*Arguments:*

`workflow` Workflow object

**Method** `bake()`: Apply recipes and return updated Survey

*Usage:*

`Survey$bake()`

**Method** `head()`: Return the head of the underlying data

*Usage:*

`Survey$head()`

**Method** `str()`: Display the structure of the underlying data

*Usage:*

`Survey$str()`

**Method** `set_design()`: Set the survey design object

*Usage:*

`Survey$set_design(design)`

*Arguments:*

`design` Survey design object or list

**Method** `ensure_design()`: Ensure survey design is initialized (lazy initialization)

*Usage:*

`Survey$ensure_design()`

*Returns:* Invisibly returns self

**Method** `update_design()`: Update design variables using current data and weight

*Usage:*

`Survey$update_design()`

**Method** `shallow_clone()`: Create a shallow copy of the Survey (optimized for performance)

*Usage:*

`Survey$shallow_clone()`

*Returns:* New Survey object with copied data but shared design

**Method** `clone()`: The objects of this class are cloneable with this method.

*Usage:*

`Survey$clone(deep = FALSE)`

*Arguments:*

`deep` Whether to make a deep clone.

**See Also**

[survey\\_empty](#), [bake\\_recipes](#), [cat\\_design](#), [cat\\_recipes](#)

Other survey-objects: [cat\\_design\(\)](#), [cat\\_design\\_type\(\)](#), [get\\_data\(\)](#), [get\\_metadata\(\)](#), [has\\_design\(\)](#), [has\\_recipes\(\)](#), [has\\_steps\(\)](#), [is\\_baked\(\)](#), [set\\_data\(\)](#), [survey\\_empty\(\)](#), [survey\\_to\\_data\\_frame\(\)](#), [survey\\_to\\_datatable\(\)](#), [survey\\_to\\_tibble\(\)](#)

**Examples**

```
dt <- data.table::data.table(id = 1:5, x = rnorm(5), w = rep(1, 5))
svy <- Survey$new(
  data = dt, edition = "2023", type = "test",
  psu = NULL, engine = "data.table", weight = add_weight(annual = "w")
)
svy
```

---

survey\_empty

*survey\_empty*

---

**Description**

Create an empty survey

**Usage**

```
survey_empty(
  edition = NULL,
  type = NULL,
  weight = NULL,
  engine = NULL,
  psu = NULL,
  strata = NULL
)
```

**Arguments**

edition	Edition of survey
type	Type of survey
weight	Weight of survey
engine	Engine of survey
psu	PSU variable or formula (optional)
strata	Stratification variable name (optional)

**Value**

Survey object

**See Also**

Other survey-objects: [Survey](#), [cat\\_design\(\)](#), [cat\\_design\\_type\(\)](#), [get\\_data\(\)](#), [get\\_metadata\(\)](#), [has\\_design\(\)](#), [has\\_recipes\(\)](#), [has\\_steps\(\)](#), [is\\_baked\(\)](#), [set\\_data\(\)](#), [survey\\_to\\_data\\_frame\(\)](#), [survey\\_to\\_datatable\(\)](#), [survey\\_to\\_tibble\(\)](#)

**Examples**

```
empty <- survey_empty(edition = "2023", type = "test")
empty_typed <- survey_empty(edition = "2023", type = "ech")
```

---

survey\_to\_datatable     *Convert survey to data.table*

---

**Description**

Extracts the survey microdata as a `data.table`.

**Usage**

```
survey_to_datatable(svy)

survey_to_data.table(svy)
```

**Arguments**

`svy`                      Survey object.

**Value**

A `data.table`.

**See Also**

Other survey-objects: [Survey](#), [cat\\_design\(\)](#), [cat\\_design\\_type\(\)](#), [get\\_data\(\)](#), [get\\_metadata\(\)](#), [has\\_design\(\)](#), [has\\_recipes\(\)](#), [has\\_steps\(\)](#), [is\\_baked\(\)](#), [set\\_data\(\)](#), [survey\\_empty\(\)](#), [survey\\_to\\_data\\_frame\(\)](#), [survey\\_to\\_tibble\(\)](#)

**Examples**

```
dt <- data.table::data.table(
  id = 1:5, age = c(25, 30, 45, 50, 60),
  w = rep(1, 5)
)
svy <- Survey$new(
  data = dt, edition = "2023", type = "ech",
  psu = NULL, engine = "data.table", weight = add_weight(annual = "w")
)
result <- survey_to_datatable(svy)
data.table::is.data.table(result) # TRUE
```

---

survey\_to\_data\_frame    *survey\_to\_data\_frame*

---

**Description**

Convert survey to data.frame

**Usage**

```
survey_to_data_frame(svy)
```

**Arguments**

svy                      Survey object

**Value**

data.frame

**See Also**

Other survey-objects: [Survey](#), [cat\\_design\(\)](#), [cat\\_design\\_type\(\)](#), [get\\_data\(\)](#), [get\\_metadata\(\)](#), [has\\_design\(\)](#), [has\\_recipes\(\)](#), [has\\_steps\(\)](#), [is\\_baked\(\)](#), [set\\_data\(\)](#), [survey\\_empty\(\)](#), [survey\\_to\\_datatable\(\)](#), [survey\\_to\\_tibble\(\)](#)

**Examples**

```
dt <- data.table::data.table(
  id = 1:5, age = c(25, 30, 45, 50, 60),
  w = rep(1, 5)
)
svy <- Survey$new(
  data = dt, edition = "2023", type = "ech",
  psu = NULL, engine = "data.table", weight = add_weight(annual = "w")
)
df <- survey_to_data_frame(svy)
class(df) # "data.frame"
```

---

survey\_to\_tibble            *survey\_to\_tibble*

---

**Description**

Convert survey to tibble

**Usage**

```
survey_to_tibble(svy)
```

**Arguments**

svy                    Survey object

**Value**

A tibble (`tbl_df`) containing the survey data.

**See Also**

Other survey-objects: [Survey](#), [cat\\_design\(\)](#), [cat\\_design\\_type\(\)](#), [get\\_data\(\)](#), [get\\_metadata\(\)](#), [has\\_design\(\)](#), [has\\_recipes\(\)](#), [has\\_steps\(\)](#), [is\\_baked\(\)](#), [set\\_data\(\)](#), [survey\\_empty\(\)](#), [survey\\_to\\_data\\_frame\(\)](#), [survey\\_to\\_datatable\(\)](#)

**Examples**

```
dt <- data.table::data.table(
  id = 1:5, age = c(25, 30, 45, 50, 60),
  w = rep(1, 5)
)
svy <- Survey$new(
  data = dt, edition = "2023", type = "ech",
  psu = NULL, engine = "data.table", weight = add_weight(annual = "w")
)
tbl <- survey_to_tibble(svy)
class(tbl)
```

---

transpile\_coverage      *Analyze transpilation coverage for STATA do-files*

---

**Description****[Experimental]**

Reports what percentage of commands in a .do file (or directory of files) can be automatically transpiled vs require manual review.

**Usage**

```
transpile_coverage(path, recursive = TRUE)
```

**Arguments**

path                    Path to a .do file or directory of .do files  
 recursive              If TRUE and path is a directory, search subdirectories

**Value**

A data.frame with columns: file, total\_commands, translated, skipped, manual\_review, coverage\_pct

**See Also**

Other transpiler: [parse\\_do\\_file\(\)](#), [parse\\_stata\\_labels\(\)](#), [transpile\\_stata\(\)](#), [transpile\\_stata\\_module\(\)](#)

**Examples**

```
tf <- tempfile(fileext = ".do")
writeLines(c("gen x = 1", "replace x = 2 if y == 3", "drop z"), tf)
transpile_coverage(tf)
```

---

transpile_stata	<i>Transpile a STATA .do file to metasurvey steps</i>
-----------------	---

---

**Description****[Experimental]**

Parses a STATA .do file and translates its commands into metasurvey step call strings suitable for use in Recipe objects.

**Usage**

```
transpile_stata(do_file, survey_type = "ech", user = "iecon", strict = FALSE)
```

**Arguments**

do_file	Path to a STATA .do file
survey_type	Survey type (default "ech")
user	Author name for the recipe
strict	If TRUE, stops on untranslatable commands; if FALSE, inserts MANUAL_REVIEW comments as warnings

**Value**

A list with:

- steps: character vector of step call strings
- labels: list with var\_labels and val\_labels (if label commands found)
- warnings: character vector of MANUAL\_REVIEW items
- stats: list with command counts

**See Also**

Other transpiler: [parse\\_do\\_file\(\)](#), [parse\\_stata\\_labels\(\)](#), [transpile\\_coverage\(\)](#), [transpile\\_stata\\_module\(\)](#)

**Examples**

```
tf <- tempfile(fileext = ".do")
writeLines(c("gen age2 = edad^2", "replace sexo = 1 if sexo == ."), tf)
result <- transpile_stata(tf)
result$steps
result$stats
```

---

transpile\_stata\_module

*Transpile and group do-files by thematic module*

---

**Description****[Experimental]**

Processes all do-files in a year directory and groups them into thematic Recipe objects (demographics, income, etc.).

**Usage**

```
transpile_stata_module(year_dir, year, user = "iecon", output_dir = NULL)
```

**Arguments**

year_dir	Path to a year directory (e.g., "do_files_iecon/2022")
year	Year of the edition (character or numeric)
user	Author name
output_dir	Directory to write JSON recipes (NULL = no file output)

**Value**

A named list of Recipe objects, one per thematic module

**See Also**

Other transpiler: [parse\\_do\\_file\(\)](#), [parse\\_stata\\_labels\(\)](#), [transpile\\_coverage\(\)](#), [transpile\\_stata\(\)](#)

**Examples**

```
## Not run:
# Requires a directory of .do files organized by year
recipes <- transpile_stata_module("do_files_iecon/2022", year = 2022)
names(recipes)

## End(Not run)
```

---

use_copy_default	<i>Get data copy option</i>
------------------	-----------------------------

---

## Description

Retrieves the current setting for the use\_copy option, which controls whether survey operations create copies of the data or modify in place.

## Usage

```
use_copy_default()
```

## Details

The use\_copy option affects memory usage and performance:

- TRUE: Creates copies, safer but uses more memory
- FALSE: Modifies in place, more efficient but requires caution

## Value

Logical value indicating whether to use data copies (TRUE) or modify data in place (FALSE). Default is TRUE.

## See Also

[set\\_use\\_copy](#) to change the setting

Other options: [get\\_engine\(\)](#), [lazy\\_default\(\)](#), [set\\_engine\(\)](#), [set\\_lazy\\_processing\(\)](#), [set\\_use\\_copy\(\)](#), [show\\_engines\(\)](#)

## Examples

```
# Check current setting
current_setting <- use_copy_default()
print(current_setting)
```

---

validate\_time\_pattern *Validate time pattern*

---

**Description**

Validate time pattern

**Usage**

```
validate_time_pattern(svy_type = NULL, svy_edition = NULL)
```

**Arguments**

svy\_type            Survey type (e.g. "ech").  
svy\_edition        Survey edition string (e.g. "2023", "2023-06").

**Value**

List with components: svy\_type, svy\_edition (parsed), svy\_periodicity.

**See Also**

Other survey-loading: [extract\\_time\\_pattern\(\)](#), [group\\_dates\(\)](#), [load\\_panel\\_survey\(\)](#), [load\\_survey\(\)](#), [load\\_survey\\_example\(\)](#)

**Examples**

```
validate_time_pattern(svy_type = "ech", svy_edition = "2023")  
validate_time_pattern(  
  svy_type = "ech", svy_edition = "2023-06"  
)
```

---

view\_graph            *View graph*

---

**Description**

View graph

**Usage**

```
view_graph(svy, init_step = "Load survey")
```

**Arguments**

svy                    Survey object  
init\_step            Initial step label (default: "Load survey")

**Value**

A visNetwork interactive graph of the survey processing steps.

**See Also**

Other steps: [bake\\_steps\(\)](#), [get\\_steps\(\)](#), [step\\_compute\(\)](#), [step\\_filter\(\)](#), [step\\_join\(\)](#), [step\\_recode\(\)](#), [step\\_remove\(\)](#), [step\\_rename\(\)](#), [step\\_validate\(\)](#)

**Examples**

```
dt <- data.table::data.table(
  id = 1:5, age = c(25, 30, 45, 50, 60),
  w = rep(1, 5)
)
svy <- Survey$new(
  data = dt, edition = "2023", type = "ech",
  psu = NULL, engine = "data.table",
  weight = add_weight(annual = "w")
)
svy <- step_compute(svy, age2 = age * 2)
view_graph(svy)
```

---

 workflow

---

*Execute estimation workflow for surveys*


---

**Description**

This function executes a sequence of statistical estimations on Survey objects, applying functions from the R survey package with appropriate metadata. Automatically handles different survey types and periodicities.

**Usage**

```
workflow(svy, ..., estimation_type = "monthly")
```

**Arguments**

svy	A <b>list</b> of Survey objects, or a PoolSurvey. Even for a single survey, wrap it in <code>list()</code> : <code>workflow(svy = list(my_survey), ...)</code> . Must contain properly configured sample design.
...	Calls to survey package functions (such as <code>svymean</code> , <code>svytotal</code> , <code>svyratio</code> , etc.) that will be executed sequentially
estimation_type	Type of estimation (default "monthly") that determines which weight to use. Options: "monthly", "quarterly", "annual", or vector with multiple types

## Details

The function automatically selects the appropriate sample design according to the specified `estimation_type`. For each Survey in the input list, it executes all functions specified in . . . and combines the results.

Supported estimation types:

- "monthly": Monthly estimations
- "quarterly": Quarterly estimations
- "annual": Annual estimations

For PoolSurvey objects, it uses a specialized methodology that handles pooling of multiple surveys.

## Value

data.table with results from all estimations, including columns:

- stat: Name of estimated statistic
- value: Estimation value
- se: Standard error
- cv: Coefficient of variation
- estimation\_type: Type of estimation used
- survey\_edition: Survey edition
- Other columns depending on estimation type

## See Also

[svymean](#) for population means [svytotal](#) for population totals [svyratio](#) for ratios [svyby](#) for domain estimations [PoolSurvey](#) for survey pooling

Other workflows: [RecipeWorkflow-class](#), [evaluate\\_cv\(\)](#), [print.RecipeWorkflow\(\)](#), [publish\\_workflow\(\)](#), [read\\_workflow\(\)](#), [reproduce\\_workflow\(\)](#), [save\\_workflow\(\)](#), [workflow\\_from\\_list\(\)](#), [workflow\\_table\(\)](#)

## Examples

```
# Simple estimation with a test survey
dt <- data.table::data.table(
  x = rnorm(100), g = sample(c("a", "b"), 100, TRUE),
  w = rep(1, 100)
)
svy <- Survey$new(
  data = dt, edition = "2023", type = "test",
  psu = NULL, engine = "data.table",
  weight = add_weight(annual = "w")
)
result <- workflow(
  svy = list(svy),
  survey::svymean(~x, na.rm = TRUE),
  estimation_type = "annual"
)
```

```
# ECH example with domain estimations
# result <- workflow(
#   survey = list(ech_2023),
#   svyby(~unemployed, ~region, svymean, na.rm = TRUE),
#   estimation_type = "annual")
```

---

workflow\_from\_list      *Construct a RecipeWorkflow from a plain list*

---

## Description

Construct a RecipeWorkflow from a plain list

## Usage

```
workflow_from_list(lst)
```

## Arguments

lst                    A list (typically from JSON) with workflow fields

## Value

A RecipeWorkflow object

## See Also

Other workflows: [RecipeWorkflow-class](#), [evaluate\\_cv\(\)](#), [print.RecipeWorkflow\(\)](#), [publish\\_workflow\(\)](#), [read\\_workflow\(\)](#), [reproduce\\_workflow\(\)](#), [save\\_workflow\(\)](#), [workflow\(\)](#), [workflow\\_table\(\)](#)

## Examples

```
lst <- list(
  name = "example", user = "test", survey_type = "ech",
  edition = "2023", estimation_type = "svymean"
)
wf <- workflow_from_list(lst)
```

---

workflow_table	<i>Create publication-quality table from workflow results</i>
----------------	---

---

### Description

Formats a `workflow()` result as a gt table with confidence intervals, CV quality classification, and provenance-based source notes.

### Usage

```
workflow_table(
  result,
  ci = 0.95,
  digits = 2,
  compare_by = NULL,
  show_cv = TRUE,
  show_se = TRUE,
  title = NULL,
  subtitle = NULL,
  source_note = TRUE,
  locale = "en",
  theme = "publication"
)
```

### Arguments

result	A data.table from <code>workflow()</code> .
ci	Confidence level for intervals (default 0.95). Set to NULL to hide confidence intervals.
digits	Number of decimal places (default 2).
compare_by	Column name to pivot for side-by-side comparison (e.g., "survey_edition").
show_cv	Logical; show CV column with quality classification.
show_se	Logical; show SE column.
title	Table title. Auto-generated if NULL.
subtitle	Table subtitle. Auto-generated if NULL.
source_note	Logical; show provenance footer.
locale	Locale for number formatting ("en" or "es").
theme	Table theme: "publication" (clean) or "minimal".

### Details

CV quality classification follows INE/CEPAL standards:

- Excellent: CV < 5\

- Very good: 5-10\
- Good: 10-15\
- Acceptable: 15-25\
- Use with caution: 25-35\
- Do not publish: >= 35\

### Value

A `gt_tbl` object. Export via `gt::gtsave()` to `.html`, `.docx`, `.pdf`, `.png`, or `.rtx`. Falls back to `knitr::kable()` if `gt` is not installed.

### See Also

Other workflows: [RecipeWorkflow-class](#), [evaluate\\_cv\(\)](#), [print.RecipeWorkflow\(\)](#), [publish\\_workflow\(\)](#), [read\\_workflow\(\)](#), [reproduce\\_workflow\(\)](#), [save\\_workflow\(\)](#), [workflow\(\)](#), [workflow\\_from\\_list\(\)](#)

### Examples

```
svy <- Survey$new(  
  data = data.table::data.table(  
    x = rnorm(100), g = sample(c("a", "b"), 100, TRUE), w = rep(1, 100)  
  ),  
  edition = "2023", type = "test", psu = NULL,  
  engine = "data.table", weight = add_weight(annual = "w")  
)  
result <- workflow(  
  list(svy), survey::svymean(~x, na.rm = TRUE),  
  estimation_type = "annual"  
)  
  
if (requireNamespace("gt", quietly = TRUE)) {  
  workflow_table(result)  
}
```

# Index

- \* **anda**
  - anda\_download\_microdata, 9
  - anda\_variables, 11
  - api\_get\_anda\_variables, 14
- \* **api-auth**
  - api\_login, 21
  - api\_logout, 22
  - api\_me, 22
  - api\_refresh\_token, 24
  - api\_register, 25
  - configure\_api, 32
- \* **api-comments**
  - api\_comment\_recipe, 11
  - api\_comment\_workflow, 12
  - api\_delete\_comment, 13
  - api\_get\_recipe\_comments, 15
  - api\_get\_workflow\_comments, 18
- \* **api-recipes**
  - api\_get\_recipe, 14
  - api\_get\_recipe\_dependents, 16
  - api\_list\_recipes, 19
  - api\_publish\_recipe, 23
- \* **api-stars**
  - api\_get\_recipe\_stars, 16
  - api\_get\_workflow\_stars, 18
  - api\_star\_recipe, 26
  - api\_star\_workflow, 26
- \* **api-workflows**
  - api\_get\_workflow, 17
  - api\_list\_workflows, 20
  - api\_publish\_workflow, 23
- \* **backends**
  - get\_backend, 40
  - get\_workflow\_backend, 49
  - set\_backend, 102
  - set\_workflow\_backend, 108
- \* **engine**
  - get\_engine, 42
  - set\_engine, 104
- \* **options**
  - get\_engine, 42
  - lazy\_default, 53
  - set\_engine, 104
  - set\_lazy\_processing, 105
  - set\_use\_copy, 106
  - show\_engines, 109
  - use\_copy\_default, 133
- \* **panel-surveys**
  - extract\_surveys, 35
  - get\_follow\_up, 42
  - get\_implantation, 44
  - PoolSurvey, 62
  - RotativePanelSurvey, 96
- \* **panel-survey**
  - extract\_surveys, 35
  - get\_follow\_up, 42
  - get\_implantation, 44
  - PoolSurvey, 62
  - RotativePanelSurvey, 96
- \* **preprocessing**
  - load\_panel\_survey, 55
  - load\_survey, 57
- \* **provenance**
  - print.metasurvey\_provenance, 63
  - print.metasurvey\_provenance\_diff, 64
  - provenance, 67
  - provenance\_diff, 68
  - provenance\_to\_json, 69
- \* **recipes**
  - add\_recipe, 5
  - bake\_recipes, 27
  - explore\_recipes, 34
  - get\_recipe, 46
  - print.Recipe, 65
  - publish\_recipe, 69
  - read\_recipe, 72
  - recipe, 74

- Recipe-class, 76
- save\_recipe, 99
- steps\_to\_recipe, 109
- \* **recipe**
  - print.Recipe, 65
  - recipe, 74
  - Recipe-class, 76
  - steps\_to\_recipe, 109
- \* **steps**
  - bake\_steps, 28
  - get\_steps, 48
  - step\_compute, 110
  - step\_filter, 112
  - step\_join, 113
  - step\_recode, 115
  - step\_remove, 117
  - step\_rename, 119
  - step\_validate, 120
  - view\_graph, 134
- \* **step**
  - get\_steps, 48
  - step\_compute, 110
  - step\_join, 113
  - step\_recode, 115
  - steps\_to\_recipe, 109
  - view\_graph, 134
- \* **survey-loading**
  - extract\_time\_pattern, 37
  - group\_dates, 50
  - load\_panel\_survey, 55
  - load\_survey, 57
  - load\_survey\_example, 59
  - validate\_time\_pattern, 134
- \* **survey-objects**
  - cat\_design, 29
  - cat\_design\_type, 30
  - get\_data, 41
  - get\_metadata, 45
  - has\_design, 50
  - has\_recipes, 51
  - has\_steps, 52
  - is\_baked, 52
  - set\_data, 103
  - Survey, 122
  - survey\_empty, 127
  - survey\_to\_data\_frame, 129
  - survey\_to\_datatable, 128
  - survey\_to\_tibble, 129
- \* **survey**
  - bake\_recipes, 27
  - cat\_design\_type, 30
  - get\_data, 41
  - get\_metadata, 45
  - get\_steps, 48
  - steps\_to\_recipe, 109
  - Survey, 122
  - survey\_empty, 127
  - survey\_to\_data\_frame, 129
  - survey\_to\_datatable, 128
  - survey\_to\_tibble, 129
  - view\_graph, 134
  - workflow, 135
- \* **tidy-api**
  - add\_category, 4
  - certify\_recipe, 31
  - default\_categories, 32
  - filter\_recipes, 38
  - filter\_workflows, 39
  - find\_workflows\_for\_recipe, 40
  - list\_recipes, 54
  - list\_workflows, 54
  - rank\_recipes, 71
  - rank\_workflows, 72
  - recipe\_category, 90
  - recipe\_certification, 91
  - recipe\_user, 92
  - RecipeCategory, 80
  - RecipeCertification, 82
  - RecipeUser, 84
  - remove\_category, 93
  - search\_recipes, 101
  - search\_workflows, 102
  - set\_user\_info, 105
  - set\_version, 107
- \* **transpiler**
  - parse\_do\_file, 60
  - parse\_stata\_labels, 61
  - transpile\_coverage, 130
  - transpile\_stata, 131
  - transpile\_stata\_module, 132
- \* **utils**
  - add\_replicate, 6
  - add\_weight, 8
  - evaluate\_cv, 33
  - extract\_time\_pattern, 37
  - get\_recipe, 46

- group\_dates, 50
- lazy\_default, 53
- load\_survey\_example, 59
- publish\_recipe, 69
- read\_recipe, 72
- save\_recipe, 99
- set\_lazy\_processing, 105
- set\_use\_copy, 106
- validate\_time\_pattern, 134
- \* weights**
  - add\_replicate, 6
  - add\_weight, 8
  - resolve\_weight\_spec, 95
- \* workflows**
  - evaluate\_cv, 33
  - print.RecipeWorkflow, 66
  - publish\_workflow, 70
  - read\_workflow, 73
  - RecipeWorkflow-class, 86
  - reproduce\_workflow, 94
  - save\_workflow, 100
  - workflow, 135
  - workflow\_from\_list, 137
  - workflow\_table, 138
- \* workflow**
  - print.RecipeWorkflow, 66
  - read\_workflow, 73
  - save\_workflow, 100
- add\_category, 4, 31, 33, 38–40, 54, 55, 71, 72, 82, 84, 86, 90, 91, 93, 94, 101, 102, 106, 107
- add\_recipe, 5, 27, 34, 47, 65, 70, 73, 75, 79, 99, 110
- add\_replicate, 6, 8, 9, 95
- add\_weight, 7, 8, 58, 95
- anda\_download\_microdata, 9, 11, 14
- anda\_variables, 10, 11, 14
- api\_comment\_recipe, 11, 12, 13, 15, 18
- api\_comment\_workflow, 12, 12, 13, 15, 18
- api\_delete\_comment, 12, 13, 15, 18
- api\_get\_anda\_variables, 10, 11, 14
- api\_get\_recipe, 14, 16, 20, 23
- api\_get\_recipe\_comments, 12, 13, 15, 18
- api\_get\_recipe\_dependents, 15, 16, 20, 23
- api\_get\_recipe\_stars, 16, 19, 26, 27
- api\_get\_workflow, 17, 20, 24
- api\_get\_workflow\_comments, 12, 13, 15, 18
- api\_get\_workflow\_stars, 17, 18, 26, 27
- api\_list\_recipes, 15, 16, 19, 23
- api\_list\_workflows, 17, 20, 24
- api\_login, 21, 22, 24, 25, 32
- api\_logout, 21, 22, 22, 24, 25, 32
- api\_me, 21, 22, 22, 24, 25, 32
- api\_publish\_recipe, 15, 16, 20, 23
- api\_publish\_workflow, 17, 20, 23
- api\_refresh\_token, 21, 22, 24, 25, 32
- api\_register, 21, 22, 24, 25, 32
- api\_star\_recipe, 17, 19, 26, 27
- api\_star\_workflow, 17, 19, 26, 26
- bake\_recipes, 6, 27, 34, 47, 65, 70, 73, 75, 79, 99, 110, 127
- bake\_steps, 28, 49, 112–114, 117, 118, 120, 121, 135
- bake\_steps(), 111, 113, 114, 116, 118, 120
- cat\_design, 29, 30, 41, 45, 51–53, 103, 127–130
- cat\_design\_type, 29, 30, 41, 45, 51–53, 103, 127–130
- cat\_recipes, 127
- certify\_recipe, 5, 31, 33, 38–40, 54, 55, 71, 72, 82, 84, 86, 90, 91, 93, 94, 101, 102, 106, 107
- configure\_api, 21, 22, 24, 25, 32
- default\_categories, 5, 31, 32, 38–40, 54, 55, 71, 72, 82, 84, 86, 90, 91, 93, 94, 101, 102, 106, 107
- evaluate\_cv, 33, 66, 70, 74, 89, 95, 100, 136, 137, 139
- explore\_recipes, 6, 27, 34, 47, 65, 70, 73, 75, 79, 99, 110
- extract\_surveys, 35, 43, 45, 63, 98
- extract\_time\_pattern, 37, 50, 56, 58, 60, 134
- filter\_recipes, 5, 31, 33, 38, 39, 40, 54, 55, 71, 72, 82, 84, 86, 90, 91, 93, 94, 101, 102, 106, 107
- filter\_workflows, 5, 31, 33, 38, 39, 40, 54, 55, 71, 72, 82, 84, 86, 90, 91, 93, 94, 101, 102, 106, 107
- find\_workflows\_for\_recipe, 5, 31, 33, 38, 39, 40, 54, 55, 71, 72, 82, 84, 86, 90, 91, 93, 94, 101, 102, 106, 107

- get\_backend, 40, 49, 103, 108
- get\_data, 29, 30, 41, 45, 51–53, 103, 127–130
- get\_engine, 42, 53, 104, 105, 107, 109, 133
- get\_follow\_up, 36, 42, 45, 63, 98
- get\_implantation, 36, 43, 44, 63, 98
- get\_metadata, 29, 30, 41, 45, 51–53, 103, 127–130
- get\_recipe, 6, 27, 34, 46, 58, 65, 70, 73, 75, 79, 99, 110
- get\_steps, 28, 48, 112–114, 117, 118, 120, 121, 135
- get\_workflow\_backend, 41, 49, 103, 108
- group\_dates, 37, 50, 56, 58, 60, 134
  
- has\_design, 29, 30, 41, 45, 50, 51–53, 103, 127–130
- has\_recipes, 29, 30, 41, 45, 51, 51, 52, 53, 103, 127–130
- has\_steps, 29, 30, 41, 45, 51, 52, 53, 103, 127–130
  
- is\_baked, 29, 30, 41, 45, 51, 52, 52, 103, 127–130
  
- knitr::kable(), 139
  
- lazy\_default, 42, 53, 104, 105, 107, 109, 133
- list\_recipes, 5, 31, 33, 38–40, 54, 55, 71, 72, 82, 84, 86, 90, 91, 93, 94, 101, 102, 106, 107
- list\_workflows, 5, 31, 33, 38–40, 54, 54, 71, 72, 82, 84, 86, 90, 91, 93, 94, 101, 102, 106, 107
- load\_panel\_survey, 36, 37, 43, 45, 50, 55, 58, 60, 134
- load\_survey, 7, 9, 37, 47, 50, 56, 57, 60, 134
- load\_survey\_example, 37, 50, 56, 58, 59, 134
  
- parse\_do\_file, 60, 61, 131, 132
- parse\_stata\_labels, 61, 61, 131, 132
- PoolSurvey, 36, 43, 45, 62, 98, 136
- print.metasurvey\_provenance, 63, 64, 67–69
- print.metasurvey\_provenance\_diff, 64, 64, 67–69
- print.Recipe, 6, 27, 34, 47, 65, 70, 73, 75, 79, 99, 110
- print.RecipeWorkflow, 33, 66, 70, 74, 89, 95, 100, 136, 137, 139
  
- provenance, 64, 67, 68, 69
- provenance(), 123
- provenance\_diff, 64, 67, 68, 69
- provenance\_to\_json, 64, 67, 68, 69
- publish\_recipe, 6, 27, 34, 47, 65, 69, 73, 75, 79, 99, 110
- publish\_workflow, 33, 66, 70, 74, 89, 95, 100, 136, 137, 139
  
- rank\_recipes, 5, 31, 33, 38–40, 54, 55, 71, 72, 82, 84, 86, 90, 91, 93, 94, 101, 102, 106, 107
- rank\_workflows, 5, 31, 33, 38–40, 54, 55, 71, 72, 82, 84, 86, 90, 91, 93, 94, 101, 102, 106, 107
- read\_recipe, 6, 27, 34, 47, 65, 70, 72, 75, 79, 99, 110
- read\_workflow, 33, 66, 70, 73, 89, 95, 100, 136, 137, 139
- Recipe, 75, 123
- Recipe (Recipe-class), 76
- recipe, 6, 27, 34, 47, 65, 70, 73, 74, 79, 99, 110
- Recipe-class, 76
- recipe\_category, 5, 31, 33, 38–40, 54, 55, 71, 72, 82, 84, 86, 90, 91, 93, 94, 101, 102, 106, 107
- recipe\_certification, 5, 31, 33, 38–40, 54, 55, 71, 72, 82, 84, 86, 90, 91, 93, 94, 101, 102, 106, 107
- recipe\_user, 5, 31, 33, 38–40, 54, 55, 71, 72, 82, 84, 86, 90, 91, 92, 94, 101, 102, 106, 107
- RecipeCategory, 4, 5, 31, 33, 38–40, 54, 55, 71, 72, 80, 84, 86, 90, 91, 93, 94, 101, 102, 106, 107
- RecipeCertification, 5, 31, 33, 38–40, 54, 55, 71, 72, 82, 82, 86, 90, 91, 93, 94, 101, 102, 106, 107
- RecipeUser, 5, 31, 33, 38–40, 54, 55, 71, 72, 82, 84, 84, 90–94, 101, 102, 105–107
- RecipeWorkflow, 70
- RecipeWorkflow (RecipeWorkflow-class), 86
- RecipeWorkflow-class, 86
- remove\_category, 5, 31, 33, 38–40, 54, 55, 71, 72, 82, 84, 86, 90, 91, 93, 93, 101, 102, 106, 107

- reproduce\_workflow, *33, 66, 70, 74, 89, 94, 100, 136, 137, 139*
- resolve\_weight\_spec, *7, 9, 95*
- RotativePanelSurvey, *36, 43, 45, 63, 96, 113*
- save\_recipe, *6, 27, 34, 47, 65, 70, 73, 75, 79, 99, 110*
- save\_workflow, *33, 66, 70, 74, 89, 95, 100, 136, 137, 139*
- search\_recipes, *5, 31, 33, 38–40, 54, 55, 71, 72, 82, 84, 86, 90, 91, 93, 94, 101, 102, 106, 107*
- search\_workflows, *5, 31, 33, 38–40, 54, 55, 71, 72, 82, 84, 86, 90, 91, 93, 94, 101, 102, 106, 107*
- set\_backend, *41, 49, 101, 102, 108*
- set\_data, *29, 30, 41, 45, 51–53, 103, 127–130*
- set\_engine, *42, 53, 104, 105, 107, 109, 133*
- set\_lazy\_processing, *42, 53, 104, 105, 107, 109, 133*
- set\_use\_copy, *42, 53, 104, 105, 106, 109, 133*
- set\_user\_info, *5, 31, 33, 38–40, 54, 55, 71, 72, 82, 84, 86, 90, 91, 93, 94, 101, 102, 105, 107*
- set\_version, *5, 31, 33, 38–40, 54, 55, 71, 72, 82, 84, 86, 90, 91, 93, 94, 101, 102, 106, 107*
- set\_workflow\_backend, *41, 49, 70, 103, 108*
- show\_engines, *42, 53, 104, 105, 107, 109, 133*
- step\_compute, *28, 49, 110, 113, 114, 117, 118, 120, 121, 135*
- step\_filter, *28, 49, 112, 112, 114, 117, 118, 120, 121, 135*
- step\_join, *28, 49, 112, 113, 113, 117, 118, 120, 121, 135*
- step\_recode, *28, 49, 112–114, 115, 118, 120, 121, 135*
- step\_remove, *28, 49, 112–114, 117, 117, 120, 121, 135*
- step\_remove(), *120*
- step\_rename, *28, 49, 112–114, 117, 118, 119, 121, 135*
- step\_validate, *28, 49, 112–114, 117, 118, 120, 120, 135*
- steps\_to\_recipe, *6, 27, 34, 47, 65, 70, 73, 75, 79, 99, 109*
- Survey, *29, 30, 41, 45, 51–53, 67, 103, 113, 122, 128–130*
- survey::svydesign(), *58*
- survey\_empty, *29, 30, 41, 45, 51–53, 103, 127, 127, 128–130*
- survey\_to\_data.table  
(survey\_to\_datatable), *128*
- survey\_to\_data\_frame, *29, 30, 41, 45, 51–53, 103, 127, 128, 129, 130*
- survey\_to\_datatable, *29, 30, 41, 45, 51–53, 103, 127, 128, 128, 129, 130*
- survey\_to\_tibble, *29, 30, 41, 45, 51–53, 103, 127–129, 129*
- svrepdesign, *7*
- svyby, *136*
- svymean, *136*
- svyratio, *136*
- svytotal, *136*
- tbl\_df, *130*
- transpile\_coverage, *61, 130, 132*
- transpile\_stata, *61, 131, 131, 132*
- transpile\_stata\_module, *61, 131, 132, 132*
- use\_copy\_default, *42, 53, 104, 105, 107, 109, 133*
- use\_copy\_default(), *113*
- validate\_time\_pattern, *37, 50, 56, 58, 60, 134*
- view\_graph, *28, 49, 112–114, 117, 118, 120, 121, 134*
- workflow, *9, 33, 36, 43, 45, 66, 70, 74, 89, 95, 100, 135, 137, 139*
- workflow(), *67, 138*
- workflow\_from\_list, *33, 66, 70, 74, 89, 95, 100, 136, 137, 139*
- workflow\_table, *33, 66, 70, 74, 89, 95, 100, 136, 137, 138*