

# Package ‘pipr’

December 22, 2025

**Title** Client for the Poverty and Inequality Platform ('PIP') API

**Version** 1.4.0

**Description** An interface to compute poverty and inequality indicators for more than 160 countries and regions from the World Bank's database of household surveys, through the Poverty and Inequality Portal (PIP).

**License** MIT + file LICENSE

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.3.2

**URL** <https://worldbank.github.io/pipr/>,  
<https://github.com/worldbank/pipr>

**BugReports** <https://github.com/worldbank/pipr/issues>

**Suggests** covr, testthat (>= 3.0.0), spelling, knitr, rmarkdown, markdown, callr, ggplot2, tidyr, ggthemes, forcats, scales, dplyr, readr

**Language** en-US

**Imports** arrow, attempt, curl, jsonlite, tibble, purrr, cli, rlang, utils, httr2, stringr, vroom

**Depends** R (>= 4.1.0)

**Config/testthat/edition** 3

**Date** 2025-12-17

**NeedsCompilation** no

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**Repository** CRAN  
**Date/Publication** 2025-12-22 18:00:01 UTC

**Contents**

args_to_string . . . . .	2
build_request . . . . .	3
build_request_old . . . . .	3
call_aux . . . . .	4
change_grouped_stats_to_csv . . . . .	4
check_api . . . . .	5
datt_rural . . . . .	5
datt_urban . . . . .	6
delete_cache . . . . .	7
display_aux . . . . .	7
get_aux . . . . .	8
get_cache_info . . . . .	14
get_cp . . . . .	15
get_cp_ki . . . . .	16
get_gd . . . . .	17
get_pip_info . . . . .	19
get_stats . . . . .	20
get_versions . . . . .	22
parse_error_body . . . . .	23
pip_is_transient . . . . .	23
retry_after . . . . .	24
unnest_ki . . . . .	24

<b>Index</b>	<b>25</b>
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---

args_to_string	<i>convert arguments and values of a function to a string to parse into other functions</i>
----------------	---

---

**Description**

convert arguments and values of a function to a string to parse into other functions

**Usage**

args\_to\_string(il)

**Arguments**

il                    list from `as.list(environment())` right after the function is called.

**Value**

character

---

build_request	<i>Build request version 2</i>
---------------	--------------------------------

---

**Description**

Build request version 2

**Usage**

build\_request(server, api\_version, endpoint, ...)

**Arguments**

server	character: Server. For WB internal use only
api_version	character: API version
endpoint	character: PIP API endpoint
...	other parameters

**Value**

httr2 request

---

build_request_old	<i>build_request, OLD version</i>
-------------------	-----------------------------------

---

**Description**

build\_request, OLD version

**Usage**

build\_request\_old(server, api\_version, endpoint, ...)

**Arguments**

server	character: Server. For WB internal use only
api_version	character: API version
endpoint	character: PIP API endpoint
...	other parameters

**Value**

httr2 request

---

call_aux	<i>call a table from .pip env</i>
----------	-----------------------------------

---

**Description**

call a table from .pip env

**Usage**

```
call_aux(table = NULL)
```

**Arguments**

table	character: name of table in .pip env. If NULL, it displays the names of tables available in .pip env
-------	--

**Value**

data frame of auxiliary table

**Examples**

```
# call one table

get_aux("gdp", assign_tb = TRUE, replace = TRUE) # PR 63
call_aux("gdp")

# see the name of several tables in memory
tb <- c("cpi", "ppp", "pop")
lapply(tb, get_aux, assign_tb = TRUE, replace = TRUE) # PR 63
call_aux()
```

---

change_grouped_stats_to_csv
-----------------------------

*Change the list-output to dataframe (Function from pipapi)*

---

**Description**

Change the list-output to dataframe (Function from pipapi)

**Usage**

```
change_grouped_stats_to_csv(out)
```

**Arguments**

out	output from wbpip::gd_compute_pip_stats
-----	---

**Value**

dataframe

---

check_api	<i>Check internet connection and API status</i>
-----------	---

---

**Description**

Check internet connection and API status

**Usage**

```
check_api(api_version = "v1", server = NULL)
```

**Arguments**

api_version	character: API version
server	character: Server. For WB internal use only

**Value**

character

**Examples**

```
## Not run:
check_api()

## End(Not run)
```

---

datt_rural	<i>Datt (1998) grouped data for rural india, 1983</i>
------------	---

---

**Description**

Dataset from Datt (1998) with grouped data for rural India in 1983.

**Usage**

datt\_rural

**Format**

A data frame with 13 observations on the following 6 variables:

**monthly\_pc\_exp** Welfare range class

**mean\_monthly\_pc\_exp** Mean welfare for given welfare range class

**percentage\_of\_persons** Percentage of individuals in given welfare class

**L** Cumulative welfare

**p** Cumulative population

**area** rural

@source Datt, G. (1998). See get\_cp vignette.

---

datt\_urban

*Grouped data for urban india, 1983*


---

**Description**

Dataset from Sarvekshana N26 Vol 9 N 4, created by the author following Datt(1998) methodology with grouped data for urban India in 1983.

**Usage**

datt\_urban

**Format**

A data frame with 13 observations on the following 6 variables:

**monthly\_pc\_exp** Welfare range class

**mean\_monthly\_pc\_exp** Mean welfare for given welfare range class

**percentage\_of\_persons** Percentage of individuals in given welfare class

**L** Cumulative welfare

**p** Cumulative population

**area** urban

@source Sarvekshana N26 Vol 9 N 4, and Datt, G. (1998) for methodology. See get\_cp vignette.

---

delete_cache	<i>Deletes content of the cache folder</i>
--------------	--

---

**Description**

Deletes content of the cache folder

**Usage**

```
delete_cache()
```

**Value**

Side effect. Deletes files.

**Examples**

```
## Not run: delete_cache()
```

---

display_aux	<i>Display available auxiliary tables</i>
-------------	---

---

**Description**

Display available auxiliary tables

**Usage**

```
display_aux(  
  version = NULL,  
  ppp_version = NULL,  
  release_version = NULL,  
  api_version = "v1",  
  format = c("rds", "json", "csv"),  
  simplify = TRUE,  
  server = NULL,  
  assign_tb = TRUE  
)
```

Arguments

version	character: Data version. See get_versions()
ppp_version	ppp year to be used
release_version	date when the data was published in YYYYMMDD format
api_version	character: API version
format	character: Response format either of c("rds", "json", "csv")
simplify	logical: If TRUE (the default) the response is returned as a tibble
server	character: Server. For WB internal use only
assign_tb	logical: Whether to assign table to .pip env. Default is TRUE

Value

invisible tibble with names of auxiliary tables

Examples

```
## Not run:
display_aux()

## End(Not run)
```

---

get_aux	<i>Get auxiliary data</i>
---------	---------------------------

---

Description

get\_aux() Get an auxiliary dataset. If no table is specified a vector with possible inputs will be returned.

get\_countries() Returns a table countries with their full names, ISO codes, and associated region code

Usage

```
get_aux(
  table = NULL,
  version = NULL,
  ppp_version = NULL,
  release_version = NULL,
  api_version = "v1",
  format = c("rds", "json", "csv"),
  simplify = TRUE,
  server = NULL,
  assign_tb = FALSE,
  replace = FALSE
```



```
)

get_countries(
  version = NULL,
  ppp_version = NULL,
  release_version = NULL,
  api_version = "v1",
  format = c("rds", "json", "csv"),
  server = NULL
)

get_regions(
  version = NULL,
  ppp_version = NULL,
  release_version = NULL,
  api_version = "v1",
  format = c("rds", "json", "csv"),
  server = NULL
)

get_cpi(
  version = NULL,
  ppp_version = NULL,
  release_version = NULL,
  api_version = "v1",
  format = c("rds", "json", "csv"),
  server = NULL
)

get_dictionary(
  version = NULL,
  ppp_version = NULL,
  release_version = NULL,
  api_version = "v1",
  format = c("rds", "json", "csv"),
  server = NULL
)

get_gdp(
  version = NULL,
  ppp_version = NULL,
  release_version = NULL,
  api_version = "v1",
  format = c("rds", "json", "csv"),
  server = NULL
)

get_incgrp_coverage(
```

```
    version = NULL,  
    ppp_version = NULL,  
    release_version = NULL,  
    api_version = "v1",  
    format = c("rds", "json", "csv"),  
    server = NULL  
)
```

```
get_interpolated_means(  
    version = NULL,  
    ppp_version = NULL,  
    release_version = NULL,  
    api_version = "v1",  
    format = c("rds", "json", "csv"),  
    server = NULL  
)
```

```
get_hfce(  
    version = NULL,  
    ppp_version = NULL,  
    release_version = NULL,  
    api_version = "v1",  
    format = c("rds", "json", "csv"),  
    server = NULL  
)
```

```
get_pop(  
    version = NULL,  
    ppp_version = NULL,  
    release_version = NULL,  
    api_version = "v1",  
    format = c("rds", "json", "csv"),  
    server = NULL  
)
```

```
get_pop_region(  
    version = NULL,  
    ppp_version = NULL,  
    release_version = NULL,  
    api_version = "v1",  
    format = c("rds", "json", "csv"),  
    server = NULL  
)
```

```
get_ppp(  
    version = NULL,  
    ppp_version = NULL,  
    release_version = NULL,
```

```

    api_version = "v1",
    format = c("rds", "json", "csv"),
    server = NULL
  )

  get_region_coverage(
    version = NULL,
    ppp_version = NULL,
    release_version = NULL,
    api_version = "v1",
    format = c("rds", "json", "csv"),
    server = NULL
  )

  get_survey_means(
    version = NULL,
    ppp_version = NULL,
    release_version = NULL,
    api_version = "v1",
    format = c("rds", "json", "csv"),
    server = NULL
  )

```

### Arguments

table	Aux table
version	character: Data version. See get_versions()
ppp_version	ppp year to be used
release_version	date when the data was published in YYYYMMDD format
api_version	character: API version
format	character: Response format either of c("rds", "json", "csv")
simplify	logical: If TRUE (the default) the response is returned as a tibble
server	character: Server. For WB internal use only
assign_tb	assigns table to specified name to the .pip environment. If FALSE no assignment will be performed. If TRUE, the table will be assigned to exactly the same name as the one of the desired table. If character, the table will be assigned to that name.
replace	logical: force replacement of aux files in .pip env. Default is FALSE.

### Value

If simplify = FALSE, it returns a list of class "pip\_api". If simplify = TRUE, it returns a tibble with the requested data. This is the default. Only for get\_aux(), If assign\_tb = TRUE or character, it returns TRUE when data was assign properly to .pip env. FALSE, if it was not assigned.

## Functions

- `get_countries()`: Returns a table countries with their full names, ISO codes, and associated region code
- `get_regions()`: Returns a table regional grouping used for computing aggregate poverty statistics.
- `get_cpi()`: Returns a table of Consumer Price Index (CPI) values used for poverty and inequality computations. statistics
- `get_dictionary()`: Returns a data dictionary with a description of all variables available through the PIP API.
- `get_gdp()`: Returns a table of Growth Domestic Product (GDP) values used for poverty and inequality statistics.
- `get_incgrp_coverage()`: Returns a table of survey coverage for low and lower-middle income countries. If this coverage is less than 50%, World level aggregate statistics will not be computed.
- `get_interpolated_means()`: Returns a table of key information and statistics for all years for which poverty and inequality statistics are either available (household survey exists) or extra- / interpolated. Please see [get\\_dictionary](#) for more information about each variable available in this table.
- `get_hfce()`: Returns a table of Household Final Consumption Expenditure (HFCE) values used for poverty and inequality computations.
- `get_pop()`: Returns a table of population values used for poverty and inequality computations.
- `get_pop_region()`: Returns a table of total population by region-year. These values are used for the computation of regional aggregate poverty statistics.
- `get_ppp()`: Returns a table of Purchasing Power Parity (PPP) values used for poverty and inequality computations.
- `get_region_coverage()`: Return a table of regional survey coverage: Percentage of available surveys for a specific region-year.
- `get_survey_means()`: Returns a table of all available surveys and associated key statistics. Please see [get\\_dictionary](#) for more information about each variable available in this table.

## Examples

```
## Not run:
# Get list of tables
x <- get_aux()

# Get GDP data
df <- get_aux("gdp")

# Get countries
df <- get_aux("countries")

# Display auxiliary tables
get_aux()
```

```
# Display and assign to .pip env the selected auxiliary table
get_aux(assign_tb = TRUE)

# Bind gdp table to "gdp" in .pip env
get_aux("gdp", assign_tb = TRUE)

# Bind gdp table to "new_name" in .pip env
get_aux("gdp", assign_tb = "new_name")

## End(Not run)
## Not run:
# Short hand to get countries
get_countries()

## End(Not run)
## Not run:
# Short hand to get regions
get_regions()

## End(Not run)
## Not run:
# Short hand to get cpi
get_cpi()

## End(Not run)
## Not run:
# Short hand to get dictionary
get_dictionary()

## End(Not run)
## Not run:
# Short hand to get gdp
get_gdp()

## End(Not run)
## Not run:
# Short hand to get incgrp_coverage
get_incgrp_coverage()

## End(Not run)
## Not run:
# Short hand to get interpolated_means
get_interpolated_means()

## End(Not run)
## Not run:
# Short hand to get hfce
get_hfce()

## End(Not run)
## Not run:
# Short hand to get pop
```

```
get_pop()

## End(Not run)
## Not run:
# Short hand to get pop_region
get_pop_region()

## End(Not run)
## Not run:
# Short hand to get ppp
get_ppp()

## End(Not run)
## Not run:
# Short hand to get region_coverage
get_region_coverage()

## End(Not run)
## Not run:
# Short hand to get survey_means
get_survey_means()

## End(Not run)
```

---

get\_cache\_info

*Provides some information about cached items*

---

## Description

Provides some information about cached items

## Usage

```
get_cache_info()
```

## Value

character.

## Examples

```
## Not run: get_cache_info()
```

get\_cp

*Get Country Profiles***Description**

Get Country Profiles

**Usage**

```
get_cp(
  country = "all",
  povline = 2.15,
  version = NULL,
  ppp_version = 2017,
  release_version = NULL,
  api_version = "v1",
  format = c("arrow", "rds", "json", "csv"),
  simplify = TRUE,
  server = NULL
)
```

**Arguments**

country	character: A vector with one or more <b>country ISO 3 codes</b> or 'all'
povline	numeric: Poverty line
version	character: Data version. See get_versions()
ppp_version	ppp year to be used
release_version	date when the data was published in YYYYMMDD format
api_version	character: API version
format	character: Response format either of c("rds", "json", "csv")
simplify	logical: If TRUE (the default) the response is returned as a tibble
server	character: Server. For WB internal use only

**Value**

If simplify = FALSE, it returns a list of class "pip\_api". If simplify = TRUE, it returns a tibble with the requested data. This is the default. Only for get\_aux(), If assign\_tb = TRUE or character, it returns TRUE when data was assign properly to .pip env. FALSE, if it was not assigned.

**Examples**

```
## Not run:
# One country, all years with default ppp_version = 2017
res <- get_cp(country = "AGO")

# All countries, povline = 1.9
res <- get_cp(povline = 1.9)

# All countries and years with default values
res <- get_cp()

## End(Not run)
```

get\_cp\_ki

*Get Country Profiles Key Indicators***Description**

Get Country Profiles Key Indicators

**Usage**

```
get_cp_ki(
  country = NULL,
  povline = 2.15,
  version = NULL,
  ppp_version = 2017,
  release_version = NULL,
  api_version = "v1",
  simplify = TRUE,
  server = NULL
)
```

**Arguments**

country	character: A vector with one or more <b>country ISO 3 codes</b> or 'all'
povline	numeric: Poverty line
version	character: Data version. See get_versions()
ppp_version	ppp year to be used
release_version	date when the data was published in YYYYMMDD format
api_version	character: API version
simplify	logical: If TRUE (the default) the response is returned as a tibble
server	character: Server. For WB internal use only



**Value**

If `simplify = FALSE`, it returns a list of class "pip\_api". If `simplify = TRUE`, it returns a tibble with the requested data. This is the default. Only for `get_aux()`, If `assign_tb = TRUE` or character, it returns `TRUE` when data was assign properly to .pip env. `FALSE`, if it was not assigned.

**Examples**

```
## Not run:
# One country, all years with default ppp_version = 2017
res <- get_cp(country = "IDN")

# All countries, povline = 1.9
res <- get_cp(country = "IDN", povline = 1.9)

## End(Not run)
```

get\_gd

*Get grouped stats***Description**

Get grouped stats from the PIP API.

**Usage**

```
get_gd(
  cum_welfare,
  cum_population,
  estimate = c("stats", "lorenz", "params"),
  requested_mean = NULL,
  povline = NULL,
  popshare = NULL,
  lorenz = NULL,
  n_bins = NULL,
  api_version = "v1",
  format = c("rds", "json", "csv"),
  simplify = TRUE,
  server = NULL
)
```

**Arguments**

<code>cum_welfare</code>	numeric: Cumulative welfare values, expressed in shares. Any length. They should be monotonically increasing, and sum to 1.
<code>cum_population</code>	numeric: Cumulative population values, expressed in shares. Any length. They should be monotonically increasing, and sum to 1.

estimate	character: One of "stats", "lorenz", "params".
requested_mean	numeric: Requested mean.
povline	numeric: Poverty line. Required for estimate = "stats".
popshare	numeric: Proportion of the population living below the poverty line
lorenz	character: Lorenz curve methodology. Either "lb" or "lq".
n_bins	numeric: Number of bins. Required for estimate = "lorenz".
api_version	character: API version
format	character: Response format either of c("rds", "json", "csv")
simplify	logical: If TRUE (the default) the response is returned as a tibble
server	character: Server. For WB internal use only

### Value

data.frame

### Examples

```
## Not run:

datt_data <- data.frame(p = c(0.0092, 0.0339, 0.0850, 0.160, 0.2609, 0.4133,
                             0.5497, 0.7196, 0.8196, 0.9174, 0.9570, 0.9751,
                             1),
                      L = c(0.00208, 0.001013, 0.03122, 0.07083, 0.12808,
                           0.23498, 0.34887, 0.51994, 0.64270, 0.79201,
                           0.86966, 0.91277, 1))

# estimate = 'stats': retrieve poverty statistics.
stats <- get_gd(cum_welfare = datt_data$L, cum_population = datt_data$p,
               estimate = "stats",
               requested_mean = 19, # default is 1.
               povline = 2.15) # default is 1.

# estimate = 'lorenz': retrieve Lorenz curve data points for a specified number of bins.

## Best lorenz curve methodology selected by default:
lorenz <- get_gd(cum_welfare = datt_data$L,
               cum_population = datt_data$p,
               estimate = "lorenz",
               n_bins = 100) # must be specified, default is NULL.

## Specify lorenz curve methodology:
### Beta Lorenz ("lb")
lorenz_lb <- get_gd(cum_welfare = datt_data$L,
                  cum_population = datt_data$p,
                  estimate = "lorenz",
                  lorenz = "lb",
                  n_bins = 100)

### Quadratic Lorenz ("lq")
```

```
lorenz_lq <- get_gd(cum_welfare = datt_data$L,
                   cum_population = datt_data$p,
                   estimate = "lorenz",
                   lorenz = "lq",
                   n_bins = 100)

# estimate = 'params': retrieve regression parameters used for the lorenz curve estimation.
params <- get_gd(cum_welfare = datt_data$L,
                 cum_population = datt_data$p,
                 estimate = "params")

## End(Not run)
```

---

get\_pip\_info

*Get PIP info*

---

## Description

Get information about the API.

## Usage

```
get_pip_info(api_version = "v1", server = NULL)
```

## Arguments

api_version	character: API version
server	character: Server. For WB internal use only

## Value

list

## Examples

```
## Not run:
get_pip_info()

## End(Not run)
```

---

`get_stats`*Get poverty and inequality statistics*

---

**Description**

Get poverty and inequality statistics

**Usage**

```
get_stats(  
  country = "all",  
  year = "all",  
  povline = NULL,  
  popshare = NULL,  
  fill_gaps = FALSE,  
  nowcast = FALSE,  
  subgroup = NULL,  
  welfare_type = c("all", "income", "consumption"),  
  reporting_level = c("all", "national", "urban", "rural"),  
  version = NULL,  
  ppp_version = NULL,  
  release_version = NULL,  
  api_version = "v1",  
  format = c("arrow", "rds", "json", "csv"),  
  simplify = TRUE,  
  server = NULL  
)
```

```
get_wb(  
  year = "all",  
  povline = NULL,  
  version = NULL,  
  ppp_version = NULL,  
  release_version = NULL,  
  api_version = "v1",  
  format = c("rds", "json", "csv"),  
  simplify = TRUE,  
  server = NULL  
)
```

```
get_agg(  
  year = "all",  
  povline = NULL,  
  version = NULL,  
  ppp_version = NULL,  
  release_version = NULL,  
  aggregate = NULL,
```

```

    api_version = "v1",
    format = c("rds", "json", "csv"),
    simplify = TRUE,
    server = NULL
  )

```

## Arguments

country	character: A vector with one or more <b>country ISO 3 codes</b> or 'all'
year	integer: A vector with one or more years or 'all'
povline	numeric: Poverty line
popshare	numeric: Proportion of the population living below the poverty line
fill_gaps	logical: If TRUE, will interpolate / extrapolate values for missing years
nowcast	logical: If TRUE, will return nowcast estimates.
subgroup	character: If used result will be aggregated for predefined sub-groups. Either 'wb_regions' or 'none'.
welfare_type	character: Welfare type either of c("all", "income", "consumption")
reporting_level	character: Geographical reporting level either of c("all", "national", "urban", "rural")
version	character: Data version. See get_versions()
ppp_version	ppp year to be used
release_version	date when the data was published in YYYYMMDD format
api_version	character: API version
format	character: Response format either of c("rds", "json", "csv")
simplify	logical: If TRUE (the default) the response is returned as a tibble
server	character: Server. For WB internal use only
aggregate	character: Aggregate name. See get_aux("countries") for available options.

## Value

If `simplify = FALSE`, it returns a list of class "pip\_api". If `simplify = TRUE`, it returns a tibble with the requested data. This is the default. Only for `get_aux()`, If `assign_tb = TRUE` or character, it returns TRUE when data was assign properly to .pip env. FALSE, if it was not assigned.

## Examples

```

## Not run:
# One country-year
res <- get_stats(country = "AGO", year = 2000)

# All years for a specific country
res <- get_stats(country = "AGO", year = "all")

```

```

# All countries and years
res <- get_stats(country = "all", year = "all")

# All countries and years w/ alternative poverty line
res <- get_stats(country = "all", year = "all", povline = 3.2)

# Fill gaps for years without available survey data
res <- get_stats(country = "all", year = "all", fill_gaps = TRUE)

# Proportion living below the poverty line
res <- get_stats(country = "all", year = "all", popshare = .4)

# World Bank global and regional aggregates
res <- get_stats("all", year = "all", subgroup = "wb")

# Short hand to get WB global/regional stats
res <- get_wb()

# Short hand to get fcv stats
res <- get_agg(aggregate = "fcv", server = "qa")

# Custom aggregates
res <- get_stats(c("ARG", "BRA"), year = "all", subgroup = "none")

## End(Not run)

```

---

get\_versions

*Get versions*


---

## Description

Get available data versions.

## Usage

```
get_versions(api_version = "v1", server = NULL, simplify = TRUE)
```

## Arguments

api_version	character: API version
server	character: Server. For WB internal use only
simplify	logical: If TRUE (the default) the response is returned as a tibble

## Value

tibble or list

### Examples

```
## Not run:
get_versions()

## End(Not run)
```

---

parse_error_body	<i>parse_error_body</i>
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---

### Description

Helper function to parse error messages generated by the PIP API

### Usage

```
parse_error_body(resp)
```

### Arguments

resp                      A httr response

### Value

character

---

pip_is_transient	<i>pip_is_transient</i>
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---

### Description

Helper function to determine if an error is due to the number of requests going over the rate limit

### Usage

```
pip_is_transient(resp)
```

### Arguments

resp                      A httr response

### Value

logical

---

retry_after	<i>retry_after</i>
-------------	--------------------

---

**Description**

Helper function to determine how much time to wait before a new query can be sent

**Usage**

```
retry_after(resp)
```

**Arguments**

resp	A httr response
------	-----------------

**Value**

numeric

---

unnest_ki	<i>Unnest the key indicators</i>
-----------	----------------------------------

---

**Description**

Unnest the key indicators

**Usage**

```
unnest_ki(out)
```

**Arguments**

out	parsed and simplified output from cp-key-indicators endpoint
-----	--

**Value**

data frame, unnested.

**Functions**

- `unnest_ki()`: takes the simplified output from cp-key-indicators endpoint and unnests it.



# Index

- \* **datasets**
  - datt\_rural, [5](#)
  - datt\_urban, [6](#)
- args\_to\_string, [2](#)
- build\_request, [3](#)
- build\_request\_old, [3](#)
- call\_aux, [4](#)
- change\_grouped\_stats\_to\_csv, [4](#)
- check\_api, [5](#)
- datt\_rural, [5](#)
- datt\_urban, [6](#)
- delete\_cache, [7](#)
- display\_aux, [7](#)
- get\_agg (get\_stats), [20](#)
- get\_aux, [8](#)
- get\_cache\_info, [14](#)
- get\_countries (get\_aux), [8](#)
- get\_cp, [15](#)
- get\_cp\_ki, [16](#)
- get\_cpi (get\_aux), [8](#)
- get\_dictionary, [12](#)
- get\_dictionary (get\_aux), [8](#)
- get\_gd, [17](#)
- get\_gdp (get\_aux), [8](#)
- get\_hfce (get\_aux), [8](#)
- get\_incgrp\_coverage (get\_aux), [8](#)
- get\_interpolated\_means (get\_aux), [8](#)
- get\_pip\_info, [19](#)
- get\_pop (get\_aux), [8](#)
- get\_pop\_region (get\_aux), [8](#)
- get\_ppp (get\_aux), [8](#)
- get\_region\_coverage (get\_aux), [8](#)
- get\_regions (get\_aux), [8](#)
- get\_stats, [20](#)
- get\_survey\_means (get\_aux), [8](#)
- get\_versions, [22](#)
- get\_wb (get\_stats), [20](#)
- parse\_error\_body, [23](#)
- pip\_is\_transient, [23](#)
- retry\_after, [24](#)
- unnest\_ki, [24](#)