

# Package ‘widr’

March 16, 2026

**Title** Interface to the World Inequality Database (WID)

**Version** 0.1.0

## Description

Interface to the World Inequality Database (WID) API <<https://wid.world>>. Downloads distributional national accounts data with filters for country, year, percentile, age group, and population type. Includes code validation and reference tables. Independent implementation unaffiliated with the World Inequality Lab (WIL) or the Paris School of Economics.

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|--------------|-----------|
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widr-package

*widr: Interface to the World Inequality Database (WID)*

---

## Description

Interface to the World Inequality Database (WID) API <https://wid.world>. Downloads distributional national accounts data with filters for country, year, percentile, age group, and population type. Includes code validation and reference tables. Independent implementation unaffiliated with the World Inequality Lab (WIL) or the Paris School of Economics.

## Author(s)

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**See Also**

Useful links:

- <https://github.com/cherylisabella/widr>
- Report bugs at <https://github.com/cherylisabella/widr/issues>

---

download\_wid

*Download data from WID.world*

---

**Description**

Returns a `wid_df`, a classed data.frame that works natively with `dplyr`, `ggplot2`, and all base-R operations.

**Usage**

```
download_wid(  
  indicators = "all",  
  areas = "all",  
  years = "all",  
  perc = "all",  
  ages = "992",  
  pop = "j",  
  metadata = FALSE,  
  include_extrapolations = TRUE,  
  verbose = FALSE,  
  cache = TRUE  
)
```

```
download(  
  indicators = "all",  
  areas = "all",  
  years = "all",  
  perc = "all",  
  ages = "992",  
  pop = "j",  
  metadata = FALSE,  
  include_extrapolations = TRUE,  
  verbose = FALSE,  
  cache = TRUE  
)
```

**Arguments**

`indicators` WID variable codes or "all".  
`areas` ISO-2 area codes or "all".

|                        |   |
|------------------------|---|
| years                  | Integer vector or "all".  |
| perc                   | Percentile codes or "all".  |
| ages                   | Age codes or "all". Default "992".  |
| pop                    | Population unit codes or "all". Default "j".  |
| metadata               | Logical. If TRUE, fetches metadata as a "wid_meta" attribute on the returned object. Default FALSE. |
| include_extrapolations | Logical. Default TRUE.  |
| verbose                | Logical. Default FALSE.   |
| cache                  | Logical. Default TRUE.  |

### Value

A `wid_df` (a classed data.frame) with columns `country`, `variable`, `percentile`, `year`, `value`, `age`, `pop`. If `metadata = TRUE`, a "wid\_meta" attribute is attached.

### Examples

```
if (nzchar(Sys.getenv("WID_API_KEY"))) {
  d <- download_wid(
    indicators = "sptinc992j",
    areas      = "US",
    perc       = "p99p100",
    years      = 2010:2020
  )
}
```

---

`print.wid_df`                      *Print a wid\_df object*

---

### Description

This method prints a summary of a `wid_df` object, including the number of rows, countries, and variables.

### Usage

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

### Arguments

`x`                      A `wid_df` object.  
`...`                    Additional arguments passed to `print()`.

### **Value**

Invisibly returns the input x.

### **Examples**

```
d <- data.frame(country = "US", variable = "sptinc992j",
                percentile = "p99p100", year = "2020",
                value = 0.19, age = "992", pop = "j",
                stringsAsFactors = FALSE)
class(d) <- c("wid_df", "data.frame")
print(d)
```

---

|                              |                                 |
|------------------------------|---------------------------------|
| <code>print.wid_query</code> | <i>Print a wid_query object</i> |
|------------------------------|---------------------------------|

---

### **Description**

Displays the contents of a wid\_query object.

### **Usage**

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

### **Arguments**

|     |   |
|-----|---|
| x   | A wid_query object.                       |
| ... | Additional arguments (currently ignored). |

### **Value**

Invisibly returns the input x.

### **Examples**

```
q <- wid_query(indicators = "sptinc992j", areas = "US")
print(q)
```

---

|          |                                  |
|----------|----------------------------------|
| wid_ages | <i>Age group codes (\S2.1.3)</i> |
|----------|----------------------------------|

---

**Description**

Zero-padded three-digit strings.

**Usage**

```
wid_ages
```

```
wid_ages
```

**Format**

```
data.frame(code, description)
```

A data frame with columns code and description.

**Source**

<https://wid.world/codes-dictionary/>

<https://wid.world/codes-dictionary/>

---

|           |   |
|-----------|---|
| wid_cache | <i>Interact with the WID response cache</i> |
|-----------|---|

---

**Description**

Low-level access to get, set, list, or clear cached API responses.

**Usage**

```
wid_cache(action, key = NULL, value = NULL)
```

**Arguments**

|        |  |
|--------|--|
| action | One of "get", "set", "list", "clear".            |
| key    | Cache key string (required for "get" and "set"). |
| value  | Value to store ("set" only).                     |

**Value**

For "get": the cached object or NULL. For "list": character vector of cache keys. For "set" and "clear": invisibly, the stored value or file count removed.

**Examples**

```
wid_cache("list")
```

---

|                              |   |
|------------------------------|---|
| <code>wid_cache_clear</code> | <i>Clear all cached WID API responses</i> |
|------------------------------|---|

---

**Description**

Clear all cached WID API responses

**Usage**

```
wid_cache_clear()
```

**Value**

Invisibly, the number of files removed.

**Examples**

```
wid_cache_clear()
```

---

|                             |                                      |
|-----------------------------|--------------------------------------|
| <code>wid_cache_list</code> | <i>List cached WID API responses</i> |
|-----------------------------|--------------------------------------|

---

**Description**

List cached WID API responses

**Usage**

```
wid_cache_list()
```

**Value**

Character vector of cache file names.

**Examples**

```
wid_cache_list()
```

---

|              |                              |
|--------------|------------------------------|
| wid_concepts | <i>Concept codes (\S3-9)</i> |
|--------------|------------------------------|

---

**Description**

Letters 2-6 of a WID variable code. Scraped from \S3-6, 8-9 tables; \S7 hardcoded from prose.

**Usage**

```
wid_concepts
```

```
wid_concepts
```

**Format**

```
data.frame(code, description)
```

A data frame with columns code and description.

**Source**

<https://wid.world/codes-dictionary/>

<https://wid.world/codes-dictionary/>

---

|             |   |
|-------------|---|
| wid_convert | <i>Convert a wid_df to another currency</i> |
|-------------|---|

---

**Description**

Convert a wid\_df to another currency

**Usage**

```
wid_convert(data, target = "usd", base_year = NULL)
```

**Arguments**

data            A wid\_df.

target         One of "lcu", "usd", "eur", "gbp", "ppp", "yppp".

base\_year      Pin to a specific year's exchange rate; NULL uses contemporaneous rates.

**Value**

The same wid\_df with values converted. Dimensionless series (shares, ratios) are returned unchanged with a message.

**Examples**

```
if (nzchar(Sys.getenv("WID_API_KEY"))) {  
  d <- download_wid("aptinc992j", areas = "US", perc = "p99p100",  
                  years = 2010:2020)  
  wid_convert(d, target = "ppp")  
}
```

---

|               |   |
|---------------|---|
| wid_countries | <i>Country and region codes (\S2.2)</i> |
|---------------|---|

---

**Description**

Country and region codes (\S2.2)

WID country and region codes

**Usage**

```
wid_countries
```

```
wid_countries
```

**Format**

```
data.frame(code, description)
```

A data frame with columns code and description.

**Source**

<https://wid.world/codes-dictionary/>

<https://wid.world/codes-dictionary/>

---

|            |  |
|------------|--|
| wid_decode | <i>Parse a WID variable code into its components</i> |
|------------|--|

---

**Description**

Parse a WID variable code into its components

**Usage**

```
wid_decode(x, strict = TRUE)
```

**Arguments**

x                    Character string, e.g. "sptinc992j".  
 strict              TRUE (default) stops on error; FALSE warns and returns NULL.

**Value**

Named list with elements series\_type (character), concept (character), age (character or NULL), and pop (character or NULL).

**Examples**

```
wid_decode("sptinc992j")
wid_decode("mnninc")        # no age or pop
```

---

|            |  |
|------------|--|
| wid_encode | <i>Build a WID variable code from its components</i> |
|------------|--|

---

**Description**

Build a WID variable code from its components

**Usage**

```
wid_encode(series_type, concept = NULL, age = NULL, pop = NULL)
```

**Arguments**

series\_type        1-letter series type, or a list from [wid\\_decode](#).  
 concept            5-6 letter concept code.  
 age                3-digit age code or NULL.  
 pop                1-letter population code or NULL.

**Value**

A character string of the form <type><concept>[age][pop].

**Examples**

```
wid_encode("s", "ptinc", "992", "j")    # "sptinc992j"
wid_encode("m", "nninc")                # "mnninc"
wid_encode(wid_decode("sptinc992j"))    # round-trip
```

---

|           |                            |
|-----------|----------------------------|
| wid_fetch | <i>Execute a wid_query</i> |
|-----------|----------------------------|

---

**Description**

Fetch data from WID.world using a wid\_query object.

**Usage**

```
wid_fetch(query, ...)
```

**Arguments**

|       |                      |
|-------|----------------------|
| query | A wid_query object.  |
| ...   | Parameter overrides. |

**Value**

A wid\_df (a classed data.frame); see [download\\_wid](#).

**Examples**

```
if (nzchar(Sys.getenv("WID_API_KEY"))) {  
  q <- wid_query(indicators = "sptinc992j", areas = "US", years = 2010:2020)  
  wid_fetch(q)  
}
```

---

|            |                                  |
|------------|----------------------------------|
| wid_filter | <i>Update a wid_query object</i> |
|------------|----------------------------------|

---

**Description**

Modify fields of a wid\_query object, returning an updated query.

**Usage**

```
wid_filter(query, ...)
```

**Arguments**

|       |                     |
|-------|---------------------|
| query | A wid_query object. |
| ...   | Fields to update.   |

**Value**

The updated wid\_query object.

**Examples**

```
q <- wid_query(indicators = "sptinc992j", areas = "US")
q <- wid_filter(q, years = 2010:2020)
```

wid\_gini

*Compute Gini coefficient from a share series***Description**

Requires an "s" (share) series with pXpY percentile codes covering the full distribution.

**Usage**

```
wid_gini(data, variable = NULL, country = NULL)
```

**Arguments**

|          |                             |
|----------|-----------------------------|
| data     | A wid_df with share series. |
| variable | Variable code filter.       |
| country  | Country code filter.        |

**Value**

A data.frame with columns country, year, and gini (numeric, 0-1).

**Examples**

```
d <- data.frame(
  country = rep("US", 3L), year = rep("2020", 3L),
  variable = rep("sptinc992j", 3L),
  percentile = c("p0p50", "p50p90", "p90p100"),
  value = c(0.20, 0.40, 0.40), age = "992", pop = "j",
  stringsAsFactors = FALSE
)
class(d) <- c("wid_df", "data.frame")
wid_gini(d)
```

---

|              |  |
|--------------|--|
| wid_is_valid | <i>Test WID code components without throwing</i> |
|--------------|--|

---

**Description**

Test WID code components without throwing

**Usage**

```
wid_is_valid(...)
```

**Arguments**

... Arguments passed to [wid\\_validate](#).

**Value**

Scalar logical: TRUE if all supplied components are valid, FALSE if any would cause an error. Warning-level issues return TRUE.

**Examples**

```
wid_is_valid(series_type = "s", concept = "ptinc") # TRUE
wid_is_valid(series_type = "Z")                  # FALSE
```

---

|              |   |
|--------------|---|
| wid_metadata | <i>Fetch metadata for variables in a wid_df</i> |
|--------------|---|

---

**Description**

Fetch metadata for variables in a wid\_df

**Usage**

```
wid_metadata(data)
```

**Arguments**

data A wid\_df.

**Value**

A data.frame with columns variable, country, source, method, quality, and imputation.

**Examples**

```
if (nzchar(Sys.getenv("WID_API_KEY"))) {
  d <- download_wid("sptinc992j", areas = "US", metadata = TRUE)
  wid_metadata(d)
}
```

---

|                 |                                      |
|-----------------|--------------------------------------|
| wid_percentiles | <i>Percentile group codes (S2.3)</i> |
|-----------------|--------------------------------------|

---

**Description**

Enumerated from the pXpY grammar: key groups, deciles, centiles, and top-1\

**Usage**

```
wid_percentiles
```

```
wid_percentiles
```

**Format**

```
data.frame(code, description)
```

A data frame with columns code and description.

**Source**

<https://wid.world/codes-dictionary/>

<https://wid.world/codes-dictionary/>

---

|                      |  |
|----------------------|--|
| wid_percentile_ratio | <i>Percentile threshold ratio (e.g. P90/P10)</i> |
|----------------------|--|

---

**Description**

Percentile threshold ratio (e.g. P90/P10)

**Usage**

```
wid_percentile_ratio(
  data,
  numerator = "p90",
  denominator = "p10",
  variable = NULL,
  country = NULL
)
```

**Arguments**

|             |                                       |
|-------------|---------------------------------------|
| data        | A wid_df with threshold ("t") series. |
| numerator   | Upper percentile code, e.g. "p90".    |
| denominator | Lower percentile code, e.g. "p10".    |
| variable    | Variable code filter.                 |
| country     | Country code filter.                  |

**Value**

A data.frame with columns country, year, and ratio (numeric: numerator threshold divided by denominator threshold).

**Examples**

```
d <- data.frame(
  country = rep("US", 2L), year = rep("2020", 2L),
  variable = rep("tptinc992j", 2L),
  percentile = c("p90", "p10"), value = c(200000, 10000),
  age = "992", pop = "j", stringsAsFactors = FALSE
)
class(d) <- c("wid_df", "data.frame")
wid_percentile_ratio(d)
```

---

wid\_plot\_compare

*Cross-country comparison bar/point chart*


---

**Description**

Cross-country comparison bar/point chart

**Usage**

```
wid_plot_compare(
  data,
  year = NULL,
  variable = NULL,
  country = NULL,
  country_labels = NULL,
  type = "bar"
)
```

**Arguments**

data            A wid\_df.  
 year            Integer year (defaults to most recent common year).  
 variable        Variable code to plot.  
 country         Country codes to include.  
 country\_labels  Named character vector for renaming countries.  
 type            "bar" (default) or "point".

**Value**

A ggplot object.

**Examples**

```

d <- data.frame(
  country = rep(c("US", "FR"), each = 3L),
  year    = rep(c("2018", "2019", "2020"), 2L),
  variable = "sptinc992j", percentile = "p99p100",
  value = c(0.20, 0.19, 0.19, 0.11, 0.11, 0.12),
  age = "992", pop = "j", stringsAsFactors = FALSE
)
class(d) <- c("wid_df", "data.frame")
wid_plot_compare(d, year = 2020)

```

---

|                 |                     |
|-----------------|---------------------|
| wid_plot_lorenz | <i>Lorenz curve</i> |
|-----------------|---------------------|

---

**Description**

Lorenz curve

**Usage**

```
wid_plot_lorenz(data, variable = NULL, country = NULL, country_labels = NULL)
```

**Arguments**

data            A wid\_df with share ("s") series.  
 variable        Variable code to plot.  
 country         Country codes to include.  
 country\_labels  Named character vector for renaming countries.

**Value**

A ggplot object.

## Examples

```
d <- data.frame(
  country = rep("US", 3L), year = rep("2020", 3L),
  variable = "sptinc992j",
  percentile = c("p0p50", "p50p90", "p90p100"),
  value = c(0.20, 0.40, 0.40), age = "992", pop = "j",
  stringsAsFactors = FALSE
)
class(d) <- c("wid_df", "data.frame")
wid_plot_lorenz(d)
```

---

wid\_plot\_timeseries    *Time-series line chart for WID data*

---

## Description

Time-series line chart for WID data

## Usage

```
wid_plot_timeseries(
  data,
  variable = NULL,
  country = NULL,
  country_labels = NULL,
  facet = FALSE
)
```

## Arguments

|                |  |
|----------------|--|
| data           | A wid_df.                                      |
| variable       | Variable code to plot.                         |
| country        | Country codes to include.                      |
| country_labels | Named character vector for renaming countries. |
| facet          | Logical. Facet by country. Default FALSE.      |

## Value

A ggplot object.

**Examples**

```
d <- data.frame(
  country = rep(c("US", "FR"), each = 3L),
  year    = rep(c("2018", "2019", "2020"), 2L),
  variable = "sptinc992j", percentile = "p99p100",
  value   = c(0.20, 0.19, 0.19, 0.11, 0.11, 0.12),
  age     = "992", pop = "j", stringsAsFactors = FALSE
)
class(d) <- c("wid_df", "data.frame")
wid_plot_timeseries(d)
```

---

wid\_pop\_types

*Population unit codes (S2.1.4)*

---

**Description**

Population unit codes (S2.1.4)

WID population unit codes

**Usage**

wid\_pop\_types

wid\_pop\_types

**Format**

data.frame(code, description)

A data frame with columns code and description.

**Source**

<https://wid.world/codes-dictionary/>

<https://wid.world/codes-dictionary/>

---

|           |  |
|-----------|--|
| wid_query | <i>Build a reusable WID query object</i> |
|-----------|--|

---

**Description**

Creates a wid\_query object that stores query parameters for WID data fetching.

**Usage**

```
wid_query(...)
```

**Arguments**

... Named arguments matching `download_wid()` parameters.

**Value**

A wid\_query object (a named list with class "wid\_query").

**Examples**

```
q <- wid_query(indicators = "sptinc992j", areas = "US", years = 2010:2020)
```

---

|            |  |
|------------|--|
| wid_search | <i>Search WID lookup tables by regex</i> |
|------------|--|

---

**Description**

Search WID lookup tables by regex

**Usage**

```
wid_search(query, tables = "concepts", type = NULL)
```

**Arguments**

|        |  |
|--------|--|
| query  | Regular expression.                            |
| tables | Table names to search. Default "concepts".     |
| type   | Optional series-type letter to filter results. |

**Value**

A data.frame with columns table, variable, and description for each matching row, or an invisible empty data.frame if no matches are found.

**Examples**

```
wid_search("national income")
wid_search("wealth", type = "s")
wid_search("^US", tables = "countries")
```

---

|                  |                                   |
|------------------|-----------------------------------|
| wid_series_types | <i>Series type codes (S2.1.1)</i> |
|------------------|-----------------------------------|

---

**Description**

Series type codes (S2.1.1)  
WID series type codes

**Usage**

```
wid_series_types
wid_series_types
```

**Format**

```
data.frame(code, description)
```

A data frame with columns code and description.

**Source**

<https://wid.world/codes-dictionary/>  
<https://wid.world/codes-dictionary/>

---

|             |                        |
|-------------|------------------------|
| wid_set_key | <i>Set WID API key</i> |
|-------------|------------------------|

---

**Description**

Set WID API key

**Usage**

```
wid_set_key(key)
```

**Arguments**

|     |                   |
|-----|-------------------|
| key | character API key |
|-----|-------------------|

**Value**

Invisibly, the key string.

---

|          |   |
|----------|---|
| wid_tidy | <i>Tidy a wid_df: decode variable codes and coerce column types</i> |
|----------|---|

---

**Description**

Tidy a wid\_df: decode variable codes and coerce column types

**Usage**

```
wid_tidy(data, decode = TRUE, country_names = TRUE)
```

**Arguments**

|               |  |
|---------------|--|
| data          | A wid_df.  |
| decode        | Logical. Add decoded columns. Default TRUE.        |
| country_names | Logical. Join country display names. Default TRUE. |

**Value**

A plain data.frame with year as integer, value as double, and optionally indicator, series\_type, type\_label, and country\_name columns appended.

**Examples**

```
d <- data.frame(
  country = "US", variable = "sptinc992j", percentile = "p99p100",
  year = "2020", value = "0.19", age = "992", pop = "j",
  stringsAsFactors = FALSE
)
class(d) <- c("wid_df", "data.frame")
wid_tidy(d, country_names = FALSE)
```

---

|               |                                   |
|---------------|-----------------------------------|
| wid_top_share | <i>Top income or wealth share</i> |
|---------------|-----------------------------------|

---

**Description**

Top income or wealth share

**Usage**

```
wid_top_share(data, top = 0.1, variable = NULL, country = NULL)
```

**Arguments**

|          |                                    |
|----------|------------------------------------|
| data     | A wid_df with share series.        |
| top      | Top fraction, e.g. 0.1 = top 10\%. |
| variable | Variable code filter.              |
| country  | Country code filter.               |

**Value**

A data.frame with columns country, year, top (the requested fractile), and share (numeric).

**Examples**

```
d <- data.frame(
  country = "US", year = "2020", variable = "sptinc992j",
  percentile = "p99p100", value = 0.19, age = "992", pop = "j",
  stringsAsFactors = FALSE
)
class(d) <- c("wid_df", "data.frame")
wid_top_share(d, top = 0.01)
```

---

wid\_validate

*Validate WID code components*


---

**Description**

Validate WID code components

**Usage**

```
wid_validate(
  series_type = NULL,
  concept = NULL,
  age = NULL,
  pop = NULL,
  years = NULL,
  areas = NULL,
  perc = NULL
)
```

**Arguments**

|             |                                    |
|-------------|------------------------------------|
| series_type | One-letter series type code.       |
| concept     | 5-6 letter concept code.           |
| age         | Three-digit age code.              |
| pop         | One-letter population unit code.   |
| years       | Integer vector of years.           |
| areas       | ISO-2 area codes.                  |
| perc        | Percentile codes of the form pXpY. |

**Value**

Invisibly, a named list of normalised inputs with the same names as the parameters, with age zero-padded and years coerced to integer.

**Examples**

```
wid_validate(series_type = "s", concept = "ptinc", age = 992, pop = "j")  
wid_validate(areas = c("US", "FR", "US-CA"))
```

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