Package: swadlr (via r-universe)

May 12, 2026

Title Access the EPI State of Working America Data Library API

Version 0.2.0

Description Provides functions to retrieve data from the Economic Policy Institute's State of Working America Data Library (SWADL) API. Enables users to explore available indicators, measures, and dimensions, and to fetch time series data at national, regional, and state levels.

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URL https://economic.github.io/swadlr/, https://github.com/Economic/swadlr

BugReports https://github.com/economic/swadlr/issues

Depends R (>= 4.1)

Imports cli, httr2, jsonlite, tibble

Suggests httptest2, knitr, rmarkdown, testthat (>= 3.0.0), withr

VignetteBuilder knitr

Config/testthat/edition 3

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.3

Config/Needs/website economic/epitemplate

Config/pak/sysreqs libssl-dev

Repository https://economic.r-universe.dev

Date/Publication 2026-03-13 16:35:15 UTC

RemoteUrl https://github.com/economic/swadlr

RemoteRef HEAD

RemoteSha a0ee503764fa4a237e214e50a56eee72250543c9

Contents

`clear_swadlr_cache` *Clear the swadlr cache*

Description

Clears all cached metadata from the current R session. This includes cached topics, indicators, measures, dimensions, and sources. Use this function if you want to refresh metadata from the API.

Usage

```
clear_swadlr_cache()
```

Value

Invisible `NULL`.

Examples

```
clear_swadlr_cache()
```

`get_swadl` *Get time series data from SWADL*

Description

Retrieves time series data from the EPI State of Working America Data Library API.

Usage

```
get_swadl(
  indicator,
  measure,
  date_interval = c("year", "month"),
  geography = "national",
  dimension = "overall",
  date = NULL
)
```

Arguments

`indicator`	Indicator ID (e.g., `"hourly_wage_percentiles"`). Use `swadl_id_names()` to see available indicators.
`measure`	Measure ID (e.g., `"nominal_wage"`). Use `swadl_id_names()` or `swadl_indicator()` to see available measures.
`date_interval`	Either `"year"` or `"month"`. Defaults to `"year"`.
`geography`	A geography specification. Accepts state names (e.g., `"California"`), abbreviations (e.g., `"CA"`), region names (e.g., `"Midwest"`), division names (e.g., `"Pacific"`), or API IDs (e.g., `"state06"`). Defaults to `"national"`.
`dimension`	Dimension specification. Can be: • `"overall"`: Returns aggregate data without demographic breakdown • A dimension ID (e.g., `"wage_percentile"`): Returns all values for that dimension • A list with named and/or unnamed elements: – Named elements filter to specific values: `list("wage_percentile" = "wage_p50")` – Unnamed elements return all values: `list("wage_percentile")` – Multiple dimensions can be cross-tabulated, but only one dimension can return all values; the others must specify values: `list("gender" = "gender_male", "age_group")`
`date`	Optional date filter. Can be: • `NULL` (default): All available dates • A single date (character or Date): Returns only that date • A vector of two dates: Returns dates in that range (inclusive)

Value

A tibble with columns:

- `date`: Observation date
- `value`: The observed value
- `geography`: Geography ID
- One column per dimension in the request, containing dimension value IDs

See Also

`swadl_indicator()` for indicator details, `swadl_id_names()` to list indicators, measures, and dimensions.

Examples

```
# Median hourly wage over time
get_swadl(
  "hourly_wage_percentiles",
  "nominal_wage",
```

```
  dimension = list("wage_percentile" = "wage_p50")
)

# All wage percentiles
get_swadl(
  "hourly_wage_percentiles",
  "nominal_wage",
  dimension = "wage_percentile"
)

# Employment rate for males by age group
get_swadl(
  "labor_force_emp",
  "percent_emp",
  dimension = list("gender" = "gender_male", "age_group")
)

# Filter to specific date range
get_swadl(
  "hourly_wage_percentiles",
  "nominal_wage",
  dimension = "wage_percentile",
  date = c("2000-01-01", "2024-01-01")
)
```

`swadl_availability` *Find available data across all indicators*

Description

Searches across all indicators to find which data is available matching specified criteria. Useful for answering questions like "Which indicators have state-level data by race?"

Usage

```
swadl_availability(
  indicator = NULL,
  measure = NULL,
  date_interval = NULL,
  geo_level = NULL,
  dimensions = NULL,
  dimensions_match = c("exact", "all", "any")
)
```

Arguments

`indicator`	Character vector of indicator IDs to filter to. If `NULL` (the default), includes all indicators.

`measure` Character vector of measure IDs to filter to. If `NULL` (the default), includes all measures.

`date_interval` Character vector of date intervals to filter to. Valid values are `"year"`, `"quarter"`, and `"month"`. If `NULL` (the default), includes all date intervals.

`geo_level` Character vector of geographic levels to filter to. Valid values are `"national"`, `"state"`, and `"division"`. If `NULL` (the default), includes all geographic levels.

`dimensions` Character vector of dimension IDs to match. How these are matched depends on `dimensions_match`. If `NULL` (the default), no dimension filtering is applied.

`dimensions_match`

How to match the `dimensions` argument:

`"exact"` The dimensions column must exactly match the provided dimensions (order-insensitive). For example, `c("gender", "race")` matches `"gender × race"` but not `"age_group × gender × race"`.

`"all"` The dimensions column must contain ALL provided dimensions (may contain more). For example, `c("gender", "race")` matches both `"gender × race"` and `"age_group × gender × race"`.

`"any"` The dimensions column must contain ANY of the provided dimensions. For example, `c("gender", "race")` matches `"gender"`, `"race"`, `"gender × race"`, and `"age_group × gender"`.

Value

A tibble with columns:

indicator_id Indicator identifier

indicator_name Human-readable indicator name

date_interval `"year"`, `"quarter"`, or `"month"`

measure_id Measure identifier

geo_level `"national"`, `"state"`, or `"division"`

dimensions Dimension combination (e.g., `"gender × race"`) or `"overall"` for aggregate data

date_start Start of available date range

date_end End of available date range

See Also

`swadl_indicator()` for detailed information about a single indicator, `swadl_id_names()` to list all indicators.

Examples

```
# Find all indicators with state-level gender data
swadl_availability(geo_level = "state", dimensions = "gender",
  dimensions_match = "any")

# Find indicators with a specific measure
swadl_availability(measure = "percent_emp")
```

```
# Find all availability for a specific indicator
swadl_availability(indicator = "hourly_wage_percentiles")

# Find indicators with exact "gender × race" combinations at national level
swadl_availability(geo_level = "national",
  dimensions = c("gender", "race"), dimensions_match = "exact")
```

`swadl_id_names` *List ID-name mappings for SWADL metadata*

Description

Returns a tibble of ID-name mappings for SWADL metadata. Use this to understand what each ID represents.

Usage

```
swadl_id_names(
  what = c("topics", "indicators", "measures", "dimensions", "geographies"),
  topic = NULL,
  indicator = NULL
)
```

Arguments

`what`	The type of metadata to list. One of: `"topics"` Broad categories that group related indicators `"indicators"` Specific data series that can be retrieved with `get_swadl()` `"measures"` Ways of presenting indicator data (e.g., nominal vs real wages) `"dimensions"` Demographic categories for subsetting data (e.g., gender, race) `"geographies"` Geographic units (national, regions, divisions, states)
`topic`	For `what = "indicators"`, optionally filter to a specific topic ID.
`indicator`	For `what = "measures"` or `what = "dimensions"`, optionally filter to those available for a specific indicator ID.

Value

A tibble. The columns depend on `what`:

topics `id`, `name`

indicators `id`, `name`, `topic_id`, `updated_date`

measures `id`, `name`, `format`

dimensions `dimension_id`, `dimension_name`, `value_id`, `value_name`

geographies `id`, `level`, `name`, `abbr`

See Also

swadl_indicator() for detailed information about a single indicator, get_swadl() for fetching time series data.

Examples

```
# List all topics
swadl_id_names("topics")

# List all indicators
swadl_id_names("indicators")

# List indicators for a specific topic
swadl_id_names("indicators", topic = "wages")

# List measures for a specific indicator
swadl_id_names("measures", indicator = "hourly_wage_percentiles")

# List dimensions
swadl_id_names("dimensions")

# List geographies
swadl_id_names("geographies")
```

---

swadl_indicator *Get detailed information about an indicator*

Description

Returns detailed information about a specific indicator including available measures, dimension combinations, date ranges, geographic availability, and sources.

Usage

```
swadl_indicator(indicator)
```

Arguments

indicator	The indicator ID (e.g., "hourly_wage_percentiles"). Use swadl_id_names() to see available indicators.

Value

An S3 object of class swadl_indicator_info with the following components:

id Indicator identifier

name Human-readable indicator name

topic Topic ID the indicator belongs to

updated Date the indicator was last updated

measures Tibble of available measures with columns: `id`, `name`, `format`

availability Tibble of availability information with columns: `date_interval`, `measure_id`, `geo_level`, `dimensions`, `date_start`, `date_end`. The `dimensions` column contains dimension IDs joined with `x` (using multiplication sign), or `"overall"` for aggregate data.

sources Tibble of sources with columns: `measure_id`, `source`, `url`

See Also

`swadl_id_names()` to list available indicators, measures, and dimensions.

Examples

```
# Get information about hourly wage percentiles
info <- swadl_indicator("hourly_wage_percentiles")
print(info)

# Access specific components
info$measures
info$availability
```

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