

Package: populaR (via r-universe)

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Title World Population Data from the UN
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some commonly used datasets
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filter_country	<i>Filter WPP age data by country</i>
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Description

Filters WPP age data to a country

Usage

```
filter_country(.data, country, location_column = location)
```

Arguments

- .data A tibble containing WPP age data
- country Name of the country
- location_column Name of the location column, unquoted. Default location.

Value

A tibble containing WPP age data for the specified country

get_age_data	<i>Age data from the WPP API</i>
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Description

Gets age data in either 1- or 5- year age brackets, potentially segregated by sex

Usage

```
get_age_data(  
  location_id,  
  age_bracket,  
  by_sex,  
  start_year = 1950,  
  end_year = 2100,  
  .progress = TRUE  
)
```

Arguments

location_id	tibble containing the location id of interest. Typically output from get_id .
age_bracket	integer. Either 1 or 5, indicating the size of the brackets
by_sex	boolean TRUE to segregate results by sex
start_year	integer Start year for data. Default 1950 (as early as available)
end_year	integer End year for data. Default 2100 (as late as available)
.progress	boolean Whether to show progress bar. Default TRUE.

Value

tibble containing location_id, age information, sex, year, in a slightly cleaner format than the raw API call.

Examples

```
aus_id <- get_id("Australia", type = "locations", search = FALSE, .progress = FALSE)
get_age_data(aus_id$id, age_bracket = 5, start_year = 2023, end_year = 2023, by_sex = TRUE)
```

`get_base_levels`*Get parameter inputs for population data API*

Description

Gets information about indicators (i.e. dataset) and locations for further querying from the WPP API

Usage

```
get_base_levels(target, .progress = TRUE)
```

Arguments

target	String, one of "Indicators" or "locations"
.progress	Boolean, whether to show progress bars for query progress. Default TRUE

Value

tibble containing a wide range of information about the requested endpoint

Examples

```
get_base_levels("Indicators")
get_base_levels("locations")
```

get_id	<i>IDs of indicators</i>
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Description

Get numeric IDs of indicators and locations for the WPP API

Usage

```
get_id(name, type, search = TRUE, .progress = TRUE)
```

Arguments

name	Name of the variable to search for
type	One of "locations" or "Indicators", which dataset to search
search	Whether to perform simple search/matching. Defaults to TRUE
.progress	Boolean, whether to show progress bars for query progress. Default TRUE

Value

tibble containing only the matching records. Column id is the numeric id which will be needed downstream

Examples

```
get_id("Australia", type = "locations")
```

get_indicator_data	<i>Get WPP data on an indicator from a specific location</i>
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Description

Get data for a specific indicator, for a specific location from the WPP API You will need to get the ID of indicators and locations from [get_id](#) to pass into this.

Usage

```
get_indicator_data(
  indicator_id,
  location_id,
  start_year = 1950,
  end_year = 2100,
  .progress = TRUE
)
```

Arguments

indicator_id	Numeric ID for the indicator. Common choices include: • 46: Age by sex in 5 year age groups • 47: Age by sex in 1 year age groups
location_id	Numeric ID for the location (country)
start_year	Numeric. Year to start estimates. Minimum 1950, maximum 2100. Default 1950.
end_year	Numeric. Year to end estimates. Minimum 1951, maximum 2100. Default 2100.
.progress	Boolean. Whether to show progress bars for query. Default TRUE.

Details

Note: This function looks for your WPP API key in the environment variable WPP_API_KEY. You can set this using [set_wpp_api_key](#) or in your .Renvirom file.

Value

tibble with the following columns:

- locationId: Numeric ID of location
- location: Description of location
- iso3: 3-character country code of location
- iso2: 2-character country code of location
- locationTypeId:
- indicatorId: Numeric ID of indicator
- indicator: Description of indicator
- indicatorDisplayName: Publishable display name of indicator

Examples

```
aus_id <- get_id("Australia", type = "locations", search = FALSE, .progress = FALSE)
age_id <- get_id("Population by 5-year age groups and sex", type = "Indicators", search = FALSE, .progress = FALSE)
get_indicator_data(indicator_id = age_id$id, location_id = aus_id$id, start_year = 2020, end_year = 2024)
```

wpp_age_fiveyr	<i>Five year age data, by country, and year</i>
----------------	---

Description

- locationId Numeric location for the country
- location Country
- year Year of data, in this case 2023
- ageStart Lower bound of age
- ageEnd Upper bound of age
- population Number of individuals

Usage

```
wpp_age_fiveyr
```

Format

An object of class grouped_df (inherits from tbl_df, tbl, data.frame) with 5040 rows and 6 columns.

wpp_age_sex_fiveyr	<i>Five year age data, by country, year and sex</i>
--------------------	---

Description

- locationId Numeric location for the country
- location Country
- year Year of data, in this case 2023
- sexId Factor for the sex of an individual. Options are: Male, Female, Both Sexes. Note Both Sexes is the sum of Male and Female.
- ageStart Lower bound of age
- ageEnd Upper bound of age
- population Number of individuals

Usage

```
wpp_age_sex_fiveyr
```

Format

An object of class tbl_df (inherits from tbl, data.frame) with 15120 rows and 7 columns.

wpp_sex_fiveyr	<i>Five year age data, by country and sex</i>
----------------	---

Description

- locationId Numeric location for the country
- location Country
- year Year of data, in this case 2023
- sexId Factor for the sex of an individual. Options are: Male, Female, Both Sexes. Note Both Sexes is the sum of Male and Female.
- population Number of individuals

Usage

```
wpp_sex_fiveyr
```

Format

An object of class `grouped_df` (inherits from `tbl_df`, `tbl`, `data.frame`) with 720 rows and 5 columns.

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