

# Package ‘pixiweb’

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**Title** Access PX-Web Statistical Data from R

**Version** 0.1.0

**Description** A pipe-friendly R client for PX-Web statistical APIs.  
Provides a search-then-fetch workflow for discovering and downloading data from national statistics agencies (SCB, SSB, Statistics Finland, etc.) using a consistent tibble-based interface.

**License** AGPL (>= 3)

**URL** <https://lchansson.github.io/pixiweb/>,  
<https://github.com/lchansson/pixiweb>

**BugReports** <https://github.com/lchansson/pixiweb/issues>

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---

codelist_describe	<i>Print human-readable codelist summaries</i>
-------------------	--

---

## Description

Print human-readable codelist summaries

## Usage

```
codelist_describe(cl_df, max_n = 5, format = "inline", heading_level = 2)
```

**Arguments**

<code>cl_df</code>	A tibble returned by <code>get_codelists()</code> .
<code>max_n</code>	Maximum codelists to describe.
<code>format</code>	Output format: "inline" or "md".
<code>heading_level</code>	Heading level.

**Value**

`cl_df` invisibly (for piping).

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  get_codelists(scb, "TAB638", "Region") |> codelist_describe()
}
```

---

`codelist_extract_ids` *Extract codelist IDs*

---

**Description**

Extract codelist IDs

**Usage**

```
codelist_extract_ids(cl_df)
```

**Arguments**

<code>cl_df</code>	A tibble returned by <code>get_codelists()</code> .
--------------------	---

**Value**

A character vector of codelist IDs.

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  get_codelists(scb, "TAB638", "Region") |> codelist_extract_ids()
}
```

---

codelist_values	<i>Extract values for a specific codelist</i>
-----------------	---

---

**Description**

Extract values for a specific codelist

**Usage**

```
codelist_values(cl_df, codelist_id)
```

**Arguments**

cl_df	A tibble returned by <a href="#">get_codelists()</a> .
codelist_id	Codelist ID (character).

**Value**

A tibble with columns code and text.

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  cls <- get_codelists(scb, "TAB638", "Region")
  codelist_values(cls, cls$id[1])
}
```

---

compose_data_query	<i>Compose a data query</i>
--------------------	-----------------------------

---

**Description**

Build the URL and JSON body for a data request without executing it. Useful for inspecting or modifying queries before sending them.

**Usage**

```
compose_data_query(api, table_id, ..., .codelist = NULL)
```

**Arguments**

api	A <px_api> object.
table_id	Single table ID.
...	Variable selections (same as <a href="#">get_data()</a> ).
.codelist	Named list of codelist overrides.

**Value**

A list with `$url` (character) and `$body` (list, JSON-serializable).

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  q <- compose_data_query(scb, "TAB638", Region = c("0180"), Tid = px_top(5))
  str(q$url)
  str(q$body)
}
```

---

`compose_table_query`    *Compose a table query URL*

---

**Description**

Build the URL for querying the tables endpoint (advanced use).

**Usage**

```
compose_table_query(
  api,
  query = NULL,
  id = NULL,
  updated_since = NULL,
  page = NA,
  per_page = NA
)
```

**Arguments**

<code>api</code>	A <code>&lt;px_api&gt;</code> object.
<code>query</code>	Free-text search string.
<code>id</code>	Table ID(s).
<code>updated_since</code>	Days since last update.
<code>page</code>	Page number.
<code>per_page</code>	Results per page.

**Value**

A character URL string.

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  compose_table_query(scb, query = "population")
}
```

---

data_comments	<i>Extract comments from data</i>
---------------	-----------------------------------

---

**Description**

Extract comments from data

**Usage**

```
data_comments(data_df)
```

**Arguments**

data\_df            A tibble returned by `get_data()` with `.comments = TRUE`.

**Value**

A tibble with columns `variable`, `value`, `comment`, or `NULL`.

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  d <- get_data(scb, "TAB638", Region = "0180", Tid = px_top(3), .comments = TRUE)
  data_comments(d)
}
```

---

data_legend	<i>Generate a plot legend from variable metadata</i>
-------------	--

---

**Description**

Generate a plot legend from variable metadata

**Usage**

```
data_legend(data_df, var_df)
```

**Arguments**

data\_df            A tibble returned by `get_data()`.  
var\_df            A tibble returned by `get_variables()`.

**Value**

A character string suitable for plot captions.

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  vars <- get_variables(scb, "TAB638")
  d <- get_data(scb, "TAB638", Region = "0180", Tid = px_top(3))
  data_legend(d, vars)
}
```

---

data_minimize	<i>Remove monotonous columns from a data tibble</i>
---------------	---

---

**Description**

Remove monotonous columns from a data tibble

**Usage**

```
data_minimize(data_df, remove_monotonous_data = TRUE)
```

**Arguments**

data\_df            A tibble returned by `get_data()`.  
remove\_monotonous\_data  
                    Remove columns where all values are identical.

**Value**

A tibble.

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  d <- get_data(scb, "TAB638", Region = "0180", Tid = px_top(3))
  d |> data_minimize()
}
```

---

execute_query	<i>Execute a composed query</i>
---------------	---------------------------------

---

### Description

Low-level function to execute a query built with `compose_data_query()`. Handles rate limiting, retries, and error handling.

### Usage

```
execute_query(api, url, body = NULL, verbose = FALSE)
```

### Arguments

api	A <px_api> object.
url	API endpoint URL.
body	JSON body as a list, or NULL for GET requests.
verbose	Print request details.

### Value

Parsed JSON as a list, or NULL on failure.

### Examples

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  q <- compose_data_query(scb, "TAB638", Region = "0180", Tid = px_top(3))
  raw <- execute_query(scb, q$url, q$body)
}
```

---

get_codelists	<i>Get codelists for a variable in a table</i>
---------------	--

---

### Description

Codelists provide alternative groupings of variable values (e.g. municipalities grouped into counties).

### Usage

```
get_codelists(api, table_id, variable_code, verbose = FALSE)
```



**Arguments**

api	A <px_api> object.
table_id	Table ID (character).
variable_code	Variable code (character).
verbose	Print request details.

**Value**

A tibble with columns: id, text, type, values.

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  get_codelists(scb, "TAB638", "Region")
}
```

---

get\_data

*Fetch data from a PX-Web table*

---

**Description**

The core function for downloading statistical data. Variable selections are passed as named arguments via `...`, or via a prepared query object from [prepare\\_query\(\)](#).

**Usage**

```
get_data(
  api,
  table_id,
  ...,
  query = NULL,
  .codelist = NULL,
  .output = "long",
  .comments = FALSE,
  simplify = TRUE,
  auto_chunk = TRUE,
  max_results = NULL,
  verbose = FALSE
)
```

**Arguments**

api	A <px_api> object.
table_id	A single table ID (character). Vectors are not supported; use <code>purrr::map() + dplyr::bind_rows()</code> for multiple tables. Ignored when query is provided.
...	Variable selections as named arguments. Each name is a variable code, each value is one of: <ul style="list-style-type: none"> <li>• A character vector of specific value codes (item selection)</li> <li>• "*" for all values</li> <li>• A <a href="#">px_selections</a> helper: <code>px_all()</code>, <code>px_top()</code>, <code>px_bottom()</code>, <code>px_from()</code>, <code>px_to()</code>, <code>px_range()</code></li> <li>• Omitted variables are eliminated if the API allows it Ignored when query is provided.</li> </ul>
query	A <px_query> object from <a href="#">prepare_query()</a> . When provided, <code>table_id</code> , <code>...</code> , and <code>.codelist</code> are taken from the query object.
.codelist	Named list of codelist overrides (e.g. <code>list(Region = "agg_RegionLan")</code> ).
.output	"long" (default, tidy) or "wide" (pivot content variables).
.comments	Include footnotes/comments as an attribute.
simplify	Add human-readable text label columns alongside codes.
auto_chunk	Automatically split large queries that exceed the cell limit into multiple requests. When TRUE (default), the variable with the most values is split into batches, each request staying under the limit. A progress bar is shown. Set to FALSE to error instead.
max_results	Override the API's cell limit. When set, this value is used instead of the limit reported by the API's config endpoint. Useful for keeping result size manageable or for testing chunking behavior.
verbose	Print request details.

**Details**

When `simplify = TRUE` and `.output = "long"` (defaults), columns are:

- `table_id`: back-reference to the source table
- One pair per dimension: `{code}` (raw code) + `{code}_text` (label)
- `value`: the numeric measurement

When `simplify = FALSE`, only raw codes and value are returned.

When `.output = "wide"`, content variables are pivoted into separate columns.

When `auto_chunk = TRUE` and the query would exceed the API's cell limit, `get_data()` automatically splits the request. It picks the variable with the most values and batches its values so each request fits under the limit. Requests are paced to respect the API's rate limit.

**Value**

A tibble of data. See Details for column structure.

## Examples

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {

  # Fetch with explicit selections
  get_data(scb, "TAB638",
    Region = c("0180", "1480"),
    Tid = px_top(5)
  )

  # Fetch from a prepared query
  q <- prepare_query(scb, "TAB638", Region = c("0180"))
  get_data(scb, query = q)
}
```

---

get_saved_query	<i>Execute a saved query</i>
-----------------	------------------------------

---

## Description

PX-Web v2 saved queries are server-side stored query definitions (table + variable selections) that can be shared via ID/URL.

## Usage

```
get_saved_query(
  api,
  query_id,
  .output = "long",
  simplify = TRUE,
  verbose = FALSE
)
```

## Arguments

api	A <px_api> object.
query_id	Saved query ID (character).
.output	"long" (default) or "wide".
simplify	Add text label columns.
verbose	Print request details.

## Value

A tibble in the same format as [get\\_data\(\)](#).

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  get_saved_query(scb, "some-query-id")
}
```

---

get\_tables

*Get tables from a PX-Web API*


---

**Description**

Search for and list statistical tables available on a PX-Web instance.

**Usage**

```
get_tables(
  api,
  query = NULL,
  id = NULL,
  updated_since = NULL,
  max_results = NULL,
  .timeout = 15,
  cache = FALSE,
  cache_location = pixiweb_cache_dir,
  verbose = FALSE
)
```

**Arguments**

api	A <px_api> object.
query	Free-text search string (sent to API as server-side search).
id	Character vector of specific table IDs to retrieve.
updated_since	Only return tables updated in the last N days (integer).
max_results	Maximum number of tables to return.
.timeout	Maximum seconds to spend on v1 hierarchy tree walks (default 15). Only relevant when a v1 API lacks a ?query= search endpoint and must fall back to walking the folder tree. Increase for exhaustive searches on large APIs. Has no effect on v2 APIs (which have native search).
cache	Logical, cache results locally.
cache_location	Cache directory. Defaults to <code>pixiweb_cache_dir()</code> .
verbose	Print request details.

**Value**

A tibble with columns: id, title, description, category, updated, first\_period, last\_period, time\_unit, variables, subject\_code, subject\_path, source, discontinued.

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {

  # Server-side search
  get_tables(scb, query = "population")

  # Fetch specific tables by ID
  get_tables(scb, id = c("TAB638", "TAB1278"))

  # Tables updated in the last 30 days
  get_tables(scb, updated_since = 30)
}
```

---

get_variables	<i>Get variables (dimensions) for a table</i>
---------------	---

---

**Description**

Retrieves the variable structure of a PX-Web table, including available values and codelists. This is the key discovery step before fetching data.

**Usage**

```
get_variables(api, table_id, verbose = FALSE)
```

**Arguments**

api	A <px_api> object.
table_id	A single table ID (character).
verbose	Print request details.

**Value**

A tibble with columns: code, text, n\_values, elimination, time, values, codelists, table\_id.

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  get_variables(scb, "TAB638")
}
```

---

pixiweb\_cache\_dir     *Get the persistent pixiweb cache directory*

---

**Description**

Returns the path to the user-level cache directory for pixiweb, creating it if it does not exist. Uses `tools::R_user_dir()` so the cache survives across R sessions.

**Usage**

```
pixiweb_cache_dir()
```

**Value**

A single character string (directory path).

**Examples**

```
pixiweb_cache_dir()
```

---

pixiweb\_clear\_cache     *Clear pixiweb cache files*

---

**Description**

Removes cached API responses stored in the default or specified location. Can selectively clear by entity type and/or API.

**Usage**

```
pixiweb_clear_cache(  
  entity = NULL,  
  api = NULL,  
  cache_location = pixiweb_cache_dir()  
)
```

**Arguments**

`entity`            Character entity to clear (e.g. "tables", "enriched"), or NULL (default) to clear all pixiweb cache files.

`api`                A <px\_api> object. If provided, only cache files for that API's alias are cleared. NULL (default) clears all APIs.

`cache_location`   Directory to clear. Defaults to `pixiweb_cache_dir()`.

**Value**

invisible(NULL)

**Examples**

```
scb <- px_api("scb")
if (px_available(scb)) {
  pixiweb_clear_cache()
  pixiweb_clear_cache(entity = "tables")
  pixiweb_clear_cache(api = scb)
  pixiweb_clear_cache(entity = "enriched", api = scb)
}
```

---

```
prepare_query
```

---

*Prepare a data query with smart defaults*

---

**Description**

Bridges the gap between table/variable exploration and data fetching. Fetches variable metadata, applies sensible defaults for variable selections, and returns a query object that can be passed to [get\\_data\(\)](#).

**Usage**

```
prepare_query(
  api,
  table_id,
  ...,
  .codelist = NULL,
  max_default_values = 22,
  maximize_selection = FALSE,
  verbose = FALSE
)

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

**Arguments**

api	A <px_api> object.
table_id	A single table ID (character).
...	Ignored.
.codelist	Named list of codelist overrides.
max_default_values	Maximum number of values for a variable to receive a wildcard default. Defaults to 22 (covers e.g. Swedish län).

maximize_selection	If TRUE, expand unspecified variables to include as many values as possible while staying under the API cell limit.
verbose	Print request details.
x	A <px_query> object.

## Details

Default selection strategy:

- **ContentsCode:** all values ("\*")
- **Time variable:** most recent 10 periods (px\_top(10))
- **Eliminable variables:** omitted (API aggregates automatically)
- **Small mandatory variables** (<= max\_default\_values values): all ("\*")
- **Large mandatory variables:** first value only (px\_top(1))

When maximize\_selection = TRUE, the function expands selections to use as much of the API's cell limit as possible. Expansion order: smallest eliminable variables first, then smallest mandatory, then time last.

The returned query object prints a human-readable summary showing what was selected for each variable and why. Modify selections before passing to get\_data() by assigning to the \$selections list.

## Value

A <px\_query> object. Pass to [get\\_data\(\)](#) via the query parameter.

## Examples

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {

  # Prepare with defaults
  q <- prepare_query(scb, "TAB638")
  q

  # Override specific variables, let defaults handle the rest
  q <- prepare_query(scb, "TAB638", Region = c("0180", "1480"))

  # Maximize data within API limits
  q <- prepare_query(scb, "TAB638", maximize_selection = TRUE)

  # Fetch data from a prepared query
  get_data(scb, query = q)
}
```



---

px\_api

*Connect to a PX-Web API*

---

## Description

Creates a <px\_api> connection object used by all other pixieweb functions. You can pass a known alias (e.g. "scb", "ssb") or a full base URL.

## Usage

```
px_api(x, lang = NULL, version = "v2", verbose = FALSE)
```

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

```
## S3 method for class 'px_api'  
format(x, ...)
```

## Arguments

x	A <px_api> object.
lang	Language code (e.g. "sv", "en"). NULL uses the API default.
version	API version: "v2" (default) or "v1".
verbose	Print connection details.
...	Ignored.

## Value

A <px\_api> object.

## Examples

```
if (px_available(px_api("scb"))) {  
  scb <- px_api("scb", lang = "en")  
  ssb <- px_api("ssb", lang = "no")  
  custom <- px_api("https://my.statbank.example/api/v2/", lang = "en")  
}
```

---

px_api_catalogue	<i>List known PX-Web API instances</i>
------------------	--

---

**Description**

Returns a tibble of known PX-Web APIs with their aliases, URLs, supported versions, and available languages.

**Usage**

```
px_api_catalogue()
```

**Value**

A tibble with columns: alias, description, url, url\_v1, versions, langs, default\_lang.

**Examples**

```
px_api_catalogue()
```

---

px_available	<i>Check if a PX-Web API is reachable</i>
--------------	---

---

**Description**

Check if a PX-Web API is reachable

**Usage**

```
px_available(api)
```

**Arguments**

api            A <px\_api> object.

**Value**

Logical: TRUE if the API responds, FALSE otherwise.

**Examples**

```
scb <- px_api("scb")
if (px_available(scb)) {
  px_available(scb)
}
```

---

px_cite	<i>Generate a citation for downloaded data</i>
---------	--

---

**Description**

Produces a citation string from metadata attached to data by `get_data()`.

**Usage**

```
px_cite(data_df)
```

**Arguments**

`data_df` A tibble returned by `get_data()`.

**Value**

A character string (formatted citation).

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  d <- get_data(scb, "TAB638", Region = "0180", Tid = px_top(3))
  px_cite(d)
}
```

---

px_selections	<i>Create a PX-Web selection object</i>
---------------	---

---

**Description**

These helpers create `<px_selection>` objects that `get_data()` translates into the appropriate API filter. Each represents a different way to select variable values in PX-Web queries.

**Usage**

```
px_all(pattern = "*")
```

```
px_top(n)
```

```
px_bottom(n)
```

```
px_from(value)
```

```
px_to(value)
```

```
px_range(from, to)

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

### Arguments

pattern	Glob pattern (default "*" for all).
n	Number of values.
value	Value code (inclusive bound).
from, to	Value codes for range bounds (inclusive).
x	A <px_selection> object.
...	Ignored.

### Value

A <px\_selection> object.

---

save_query	<i>Save a query on the server</i>
------------	-----------------------------------

---

### Description

Persists a set of variable selections server-side so the query can be shared or re-used later.

### Usage

```
save_query(api, table_id, ..., .codelist = NULL, verbose = FALSE)
```

### Arguments

api	A <px_api> object.
table_id	Table ID (character).
...	Variable selections (same as <a href="#">get_data()</a> ).
.codelist	Named list of codelist overrides.
verbose	Print request details.

### Value

A character string: the saved query ID.

### Examples

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  query_id <- save_query(scb, "TAB638", Region = "0180", Tid = px_top(5))
}
```

---

table_describe	<i>Print human-readable table summaries</i>
----------------	---

---

**Description**

Print human-readable table summaries

**Usage**

```
table_describe(table_df, max_n = 5, format = "inline", heading_level = 2)
```

**Arguments**

table_df	A tibble returned by <a href="#">get_tables()</a> .
max_n	Maximum number of tables to describe.
format	Output format: "inline" (console) or "md" (markdown).
heading_level	Heading level for output.

**Value**

table\_df invisibly (for piping).

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  get_tables(scb, query = "population") |> table_describe(max_n = 3)
}
```

---

table_enrich	<i>Enrich a table tibble with full metadata</i>
--------------	---

---

**Description**

Fetches the metadata endpoint for each table and adds columns with notes, contents description, contact information, and more. This is an extra API call per table, so it's separated from [get\\_tables\(\)](#) to give users control over when the cost is incurred.

**Usage**

```
table_enrich(
  table_df,
  api = NULL,
  cache = FALSE,
  cache_location = pixiweb_cache_dir,
  verbose = FALSE
)
```

**Arguments**

table_df	A tibble returned by <code>get_tables()</code> .
api	A <code>&lt;px_api&gt;</code> object. Optional — if omitted, the API connection stored by <code>get_tables()</code> is used automatically.
cache	Logical. If TRUE, stores the enriched result locally and loads it on subsequent calls instead of re-fetching metadata. Useful for building local databases or working offline.
cache_location	Directory for cache files. Defaults to <code>pixiweb_cache_dir()</code> .
verbose	Print request details.

**Value**

The input tibble with additional columns: notes, contents, subject\_area, official\_statistics, contact.

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {

  # API is picked up automatically from the tibble
  get_tables(scb, query = "population", max_results = 5) |>
  table_enrich() |>
  table_describe()

  # Cache enriched results for offline use
  get_tables(scb, query = "population", cache = TRUE) |>
  table_enrich(cache = TRUE)
}
```

---

table_extract_ids	<i>Extract table IDs from a table tibble</i>
-------------------	--

---

**Description**

Extract table IDs from a table tibble

**Usage**

```
table_extract_ids(table_df)
```

**Arguments**

table_df	A tibble returned by <code>get_tables()</code> .
----------	--

**Value**

A character vector of table IDs.

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  get_tables(scb, query = "population") |> table_extract_ids()
}
```

---

table_minimize	<i>Remove monotonous columns from a table tibble</i>
----------------	--

---

**Description**

Remove monotonous columns from a table tibble

**Usage**

```
table_minimize(table_df, remove_monotonous_data = TRUE)
```

**Arguments**

table\_df            A tibble returned by [get\\_tables\(\)](#).  
remove\_monotonous\_data        Remove columns where all values are identical.

**Value**

A tibble.

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  get_tables(scb, query = "population") |> table_minimize()
}
```

---

table_search	<i>Client-side search on a table tibble</i>
--------------	---

---

**Description**

Filter an already-fetched table tibble by regex. Complements `get_tables(query = ...)` which does server-side search. Use this for further refinement on cached results.

**Usage**

```
table_search(table_df, query, column = NULL)
```

**Arguments**

table_df	A tibble returned by <code>get_tables()</code> .
query	Character vector of search terms (combined with OR).
column	Column names to search. NULL searches all character columns.

**Value**

A filtered tibble.

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  tables <- get_tables(scb, query = "population")

  # Further filter by regex
  tables |> table_search("municipality")
}
```

---

variable_describe	<i>Print human-readable variable summaries</i>
-------------------	--

---

**Description**

Print human-readable variable summaries

**Usage**

```
variable_describe(var_df, max_n = 10, format = "inline", heading_level = 2)
```

**Arguments**

var_df	A tibble returned by <code>get_variables()</code> .
max_n	Maximum number of variables to describe.
format	Output format: "inline" or "md".
heading_level	Heading level.

**Value**

var\_df invisibly (for piping).

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  get_variables(scb, "TAB638") |> variable_describe()
}
```



---

variable\_extract\_ids *Extract variable codes from a variable tibble*

---

**Description**

Extract variable codes from a variable tibble

**Usage**

```
variable_extract_ids(var_df)
```

**Arguments**

var\_df            A tibble returned by [get\\_variables\(\)](#).

**Value**

A character vector of variable codes.

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  get_variables(scb, "TAB638") |> variable_extract_ids()
}
```

---

variable\_minimize *Remove nested columns for a compact variable overview*

---

**Description**

Remove nested columns for a compact variable overview

**Usage**

```
variable_minimize(var_df)
```

**Arguments**

var\_df            A tibble returned by [get\\_variables\(\)](#).

**Value**

A tibble without values and codelists columns.

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  get_variables(scb, "TAB638") |> variable_minimize()
}
```

---

variable\_name\_to\_code *Convert variable names to codes*

---

**Description**

Convert variable names to codes

**Usage**

```
variable_name_to_code(var_df, name)
```

**Arguments**

var\_df            A tibble returned by `get_variables()`.  
name              Character vector of human-readable variable names.

**Value**

A named character vector: names are the input names, values are codes.

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  vars <- get_variables(scb, "TAB638")
  variable_name_to_code(vars, "Region")
}
```

---

variable\_search        *Client-side search on a variable tibble*

---

**Description**

Searches across variable codes, texts, and optionally nested value texts.

**Usage**

```
variable_search(var_df, query, column = NULL)
```

**Arguments**

var_df	A tibble returned by <code>get_variables()</code> .
query	Character vector of search terms (combined with OR).
column	Column names to search. NULL searches code and text.

**Value**

A filtered tibble.

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  vars <- get_variables(scb, "TAB638")
  vars |> variable_search("region")
}
```

---

variable_values	<i>Extract values for a specific variable</i>
-----------------	---

---

**Description**

Extract values for a specific variable

**Usage**

```
variable_values(var_df, variable_code)
```

**Arguments**

var_df	A tibble returned by <code>get_variables()</code> .
variable_code	Variable code (character).

**Value**

A tibble with columns code and text.

**Examples**

```
scb <- px_api("scb", lang = "en")
if (px_available(scb)) {
  vars <- get_variables(scb, "TAB638")
  vars |> variable_values("Kon")
}
```

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