

# Package ‘robotoolbox’

April 5, 2026

**Title** Client for the 'KoboToolbox' API

**Version** 1.6.2

**Description** Suite of utilities for accessing and manipulating data from the 'KoboToolbox' API. 'KoboToolbox' is a robust platform designed for field data collection in various disciplines. This package aims to simplify the process of fetching and handling data from the API. Detailed documentation for the 'KoboToolbox' API can be found at <<https://support.kobotoolbox.org/api.html>>.

**Depends** R (>= 4.1)

**License** MIT + file LICENSE

**Encoding** UTF-8

**URL** <https://dickoa.gitlab.io/robotoolbox>,  
<https://gitlab.com/dickoa/robotoolbox>

**BugReports** <https://gitlab.com/dickoa/robotoolbox/-/issues>

**Imports** crul (>= 1.4.0), RcppSimdJson (>= 0.1.6), data.table (>= 1.14.2), dplyr (>= 1.1.2), tidyr (>= 1.3.0), purrr (>= 1.0.1), rlang (>= 1.0.0), tidyselect (>= 1.2.0), tibble (>= 3.2.1), stringi (>= 1.7.6), glue (>= 1.6.0), dm (>= 1.0.10), labelled (>= 2.11.0), readr (>= 2.1.0), cli (>= 3.6.1)

**Suggests** roxygen2 (>= 7.2.3), devtools (>= 2.4.3), vcr (>= 1.2.0), knitr (>= 1.37), testthat (>= 3.1.1), covr (>= 3.6.2), rmarkdown (>= 2.21), DiagrammeR (>= 1.0.9), DiagrammeRsvg (>= 0.1), sf (>= 1.0.9), mapview (>= 2.11.0)

**VignetteBuilder** knitr

**RoxygenNote** 7.3.3

**LazyData** true

**Config/Needs/website** unhcr-dataviz/unhcrtemplate

**X-schema.org-applicationCategory** Data Access

**X-schema.org-keywords** open-data, kobotoolbox, odk, kpi, api, data, dataset

**NeedsCompilation** no

**Author** Ahmadou Dicko [aut, cre, cph],  
Hisham Galal [ctb]

**Maintainer** Ahmadou Dicko <mail@ahmadoudicko.com>

**Repository** CRAN

**Date/Publication** 2026-04-05 14:30:02 UTC

## Contents

asset_list . . . . .	2
data_ml_en . . . . .	3
kobo_asset . . . . .	4
kobo_asset_file_list . . . . .	5
kobo_asset_list . . . . .	6
kobo_asset_version . . . . .	7
kobo_asset_version_list . . . . .	7
kobo_attachment_download . . . . .	8
kobo_audit . . . . .	9
kobo_cache . . . . .	10
kobo_cache_clear . . . . .	11
kobo_cache_info . . . . .	11
kobo_data . . . . .	12
kobo_form . . . . .	15
kobo_lang . . . . .	16
kobo_settings . . . . .	18
kobo_setup . . . . .	19
kobo_token . . . . .	20

**Index** **21**

---

asset_list	<i>Examples of KoboToolbox assets and list of assets</i>
------------	--

---

## Description

Examples of KoboToolbox assets and list of assets.

## Usage

asset\_list

asset\_ml

asset\_rg

asset\_spatial

asset\_sm\_label

asset\_audit

### Format

asset\_list: a data.frame of 28 rows and 7 columns with a list of API assets

asset\_ml: A kobo\_asset object on a survey using multiple languages.

asset\_rg: A kobo\_asset object on a survey using repeat groups.

asset\_spatial: A kobo\_asset object on a survey showcasing gps questions.

asset\_sm\_label: A kobo\_asset object to showcase select multiple labels.

asset\_audit: A kobo\_asset object on a survey with audit logging enabled.

---

data\_ml\_en

*Examples of KoboToolbox submissions data*

---

### Description

Examples of KoboToolbox submissions data.

### Usage

data\_ml\_en

data\_ml\_fr

data\_ml\_ar

data\_ml\_default

data\_ml\_vlabel

data\_rg

data\_spatial

data\_sm

data\_sm\_label

data\_audit

**Format**

data\_ml: A data.frame with submissions from [asset\\_ml](#) in English.

data\_ml\_fr: A data.frame with submissions from [asset\\_ml](#) in French.

data\_ml\_ar: A data.frame with submissions from [asset\\_ml](#) in Arabic

data\_ml\_default: A data.frame with submissions from [asset\\_ml](#) with the default language.

data\_ml\_vlabel: A data.frame with submissions from [asset\\_ml](#) using variable labels as column names.

data\_rg: A dm object with submissions from [asset\\_rg](#)

data\_spatial: A data.frame with submissions from the [asset\\_spatial](#) KoboToolbox API asset.

data\_sm: A data.frame with submissions from [asset\\_sm\\_label](#) with no labels for the select\_multiple question.

data\_sm\_label: A data.frame with submissions from [asset\\_sm\\_label](#) with labels for the select\_multiple question.

data\_audit: A data.frame with submissions from [asset\\_audit](#).

---

kobo\_asset

*Get a specific KoboToolbox API asset from a unique identifier*

---

**Description**

Get a specific KoboToolbox API asset from a unique identifier

**Usage**

```
kobo_asset(x)
```

**Arguments**

x                    the unique identifier of a specific asset (character) or a kobo\_asset object.

**Value**

A kobo\_asset object. It contains all the information about the KoboToolbox API asset associated to the unique identifier.

**Examples**

```
## Not run:
# replace by your own url and token
kobo_setup(url = "https://kf.kobotoolbox.org", token = "abcde")
# use a valid uid
uid <- "a9cwEQcbWqWzA5hzkjRUWi"
asset <- kobo_asset(uid)
asset

## End(Not run)
```

---

kobo\_asset\_file\_list *List all uploaded files related to a KoboToolbox API asset*

---

**Description**

List all uploaded files related to a KoboToolbox API asset

**Usage**

```
kobo_asset_file_list(x)
```

**Arguments**

x                    the asset uid or the kobo\_asset object.

**Value**

A data.frame containing the list of all your KoboToolbox API files under the asset:

- uid the asset unique identifier
- url url of the files API endpoint
- asset url of the files associated asset API endpoint
- user the user account of the owner of the asset
- user\_\_username when the asset was created
- file\_type files type either form\_media or map\_layer
- description files description
- date\_created date when the files were created
- content url to download the files
- hashmd5 hash of the files
- filename names of the files
- mimetype mime type of the files

**Examples**

```
## Not run:  
kobo_setup()  
uid <- "a9cwEQcbWqWzA5hzkjRUWi"  
kobo_file_list(uid)  
  
## End(Not run)
```

---

kobo_asset_list	<i>List all available KoboToolbox API assets</i>
-----------------	--

---

### Description

List all available KoboToolbox API assets and their metadata.

### Usage

```
kobo_asset_list(limit = 100L)
```

### Arguments

`limit` integer, the number of API assets to display per page. Default to 100.

### Value

A data.frame containing the list of all your KoboToolbox API assets and the following metadata:

- `uid` the asset unique identifier
- `name` the name of the asset
- `asset_type` the type of asset (block, survey, question, or template)
- `owner_username` the user account of the owner of the asset
- `date_create` when the asset was created
- `date_modified` when the asset was last modified
- `deployed` whether or not the asset is currently deployed
- `submissions` the number of submissions for the asset (survey)

### Examples

```
## Not run:  
kobo_setup()  
asset_list <- kobo_asset_list(limit = 10L)  
asset_list  
  
## End(Not run)
```

---

kobo_asset_version	<i>Get a specific KoboToolbox API asset version from an asset unique identifier</i>
--------------------	---

---

**Description**

Get a specific KoboToolbox Asset version from an asset unique identifier or kobo\_asset object

**Usage**

```
kobo_asset_version(x, version)
```

**Arguments**

x	the unique identifier of a specific asset (character) or a kobo_asset object.
version	character, the unique identifier of the version of the asset

**Value**

A kobo\_asset\_version object

**Examples**

```
## Not run:  
kobo_setup()  
uid <- "a9cwEQcbWqWzA5hzkjRUWi"  
asset <- kobo_asset(uid)  
asset_version_list <- kobo_asset_version_list(asset)  
kobo_asset_version(asset, asset_version_list$uid[1])  
  
## End(Not run)
```

---

kobo_asset_version_list	<i>List all available versions of a KoboToolbox API asset</i>
-------------------------	---

---

**Description**

List all available versions of a KoboToolbox API asset and their metadata.

**Usage**

```
kobo_asset_version_list(x)
```

**Arguments**

x the uid or kobo\_asset object.

**Value**

A data.frame containing the list of all the versions of a given KoboToolbox API asset with the following metadata:

- uid the asset version unique identifier.
- url the URL of the asset version.
- deployed whether or not the asset version is deployed
- date\_modified when the asset version was last modified

a data.frame

**Examples**

```
## Not run:
kobo_setup() # setup using your url and token
uid <- "a9cwEQcbWqWzA5hzkjRUWi" # pick a valid uid
asset <- kobo_asset(uid)
kobo_asset_version_list(asset)

## End(Not run)
```

---

kobo\_attachment\_download

*Download submitted files associated to KoboToolbox API asset*

---

**Description**

Download submitted files associated to a KoboToolbox API asset

**Usage**

```
kobo_attachment_download(x, folder, progress, overwrite, n_retry)
```

**Arguments**

x the asset uid or the kobo\_asset object.

folder character, the folder where you store the downloaded files.

progress logical, whether or not you want to see the progress via message. Default to FALSE.

overwrite logical, whether or not you want to overwrite existing media files. Default to TRUE.

n\_retry integer, Number of time you should retry the failed request. Default to 3L.

**Value**

Silently returns a vector of files paths.

**Examples**

```
## Not run:
kobo_setup()
uid <- "a9cwEQcbWqWzA5hzkjRUWi"
kobo_attachment_download(uid, folder = tempdir())

## End(Not run)
```

---

kobo\_audit

*Get all audit logs data from a KoboToolbox survey*


---

**Description**

Get all audit logs data from a KoboToolbox survey through a kobo\_asset or asset unique identifier.

**Usage**

```
kobo_audit(x, progress)
```

**Arguments**

x	the unique identifier of a specific asset (character) or a kobo_asset object.
progress	logical, whether or not you want to see the progress via message. Default to FALSE.

**Value**

A data frame. It contains survey paradata from audit logs. The following columns are available:

- `_id` This columns generated by robotoolbox allow you to do a mapping the `_id` of the submissions in `kobo_data`.
- `event` the action that took place. The different event types include. form start, form exit, question, group questions, end screen, and device or metadata audit.
- `node` the name of the question or group related to the event.
- `name` This column is appended by robotoolbox to match the name of the question in the audit and the data from `kobo_data`.
- `start` the timestamp when the event started.
- `end` the timestamp when the event ended.
- `latitude` the latitude of the device when the event occurred.
- `longitude` the longitude of the device when the event occurred.

- accuracy the GPS accuracy of the location data.
- old-value the previous value of the question before it was changed in this event.
- new-value the new value of the question after it was changed in this event.
- user the username of the data collector.
- change-reason the reason before they save changes to a form.

### Examples

```
## Not run:
kobo_setup()
uid <- "a9cwEQcbWqWzdA5eqkjRUWi"
asset <- kobo_asset(uid)
audit <- kobo_audit(asset)

if (require(dplyr)) {
  library(dplyr)
  glimpse(audit)
}

## End(Not run)
```

---

kobo\_cache

*Session-level cache for KoboToolbox metadata*

---

### Description

Session-level caching for form metadata and languages. Form versions are immutable and languages don't change, so caching is safe and significantly improves performance.

### Details

Cached items:

- **Form metadata:** When `all_versions = TRUE` in `kobo_data()`, multiple API calls are made to fetch form schemas for each version. Caching eliminates redundant calls within a session.
- **Languages:** `kobo_lang()` results are cached per asset, speeding up `kobo_lang_set()` and `kobo_lang_get()` operations.

Cache is stored in memory and cleared when R session ends.

Note: Version lists are NOT cached as they can change when users deploy new form versions, and the API call sequence is required by the server.

---

kobo_cache_clear	<i>Clear the metadata cache</i>
------------------	---------------------------------

---

**Description**

Clear the metadata cache

**Usage**

```
kobo_cache_clear(uid = NULL, type = c("all", "forms", "langs"))
```

**Arguments**

uid	Optional asset uid. If provided, clears cache for that asset only.
type	Character, which cache to clear: "all" (default), "forms", or "langs".

**Value**

Invisibly returns TRUE

**Examples**

```
## Not run:  
kobo_cache_clear()  
kobo_cache_clear("aXf4gH7kL9mN2pQrStUvWx")  
kobo_cache_clear(type = "langs")  
  
## End(Not run)
```

---

kobo_cache_info	<i>Get cache statistics</i>
-----------------	-----------------------------

---

**Description**

Get cache statistics

**Usage**

```
kobo_cache_info()
```

**Value**

A list with cache statistics

**Examples**

```
## Not run:
kobo_cache_info()

## End(Not run)
```

---

kobo\_data

*Get all submissions from a KoboToolbox API asset*

---

**Description**

Get all submissions from a KoboToolbox API asset through a kobo\_asset or asset unique identifier.

**Usage**

```
kobo_data(
  x,
  lang,
  all_versions,
  colnames_label,
  select_multiple_label,
  select_multiple_sep,
  progress,
  paginate,
  page_size,
  query,
  fields
)

kobo_submissions(
  x,
  lang,
  all_versions,
  colnames_label,
  select_multiple_label,
  select_multiple_sep,
  progress,
  paginate,
  page_size,
  query,
  fields
)

## S3 method for class 'kobo_asset'
kobo_submissions(
  x,
```

```

    lang = NULL,
    all_versions = TRUE,
    colnames_label = FALSE,
    select_multiple_label = FALSE,
    select_multiple_sep = "_",
    progress = FALSE,
    paginate = NULL,
    page_size = NULL,
    query = NULL,
    fields = NULL
)

## S3 method for class 'character'
kobo_submissions(
  x,
  lang = NULL,
  all_versions = TRUE,
  colnames_label = FALSE,
  select_multiple_label = FALSE,
  select_multiple_sep = "_",
  progress = FALSE,
  paginate = NULL,
  page_size = NULL,
  query = NULL,
  fields = NULL
)

## Default S3 method:
kobo_submissions(
  x,
  lang = NULL,
  all_versions = TRUE,
  colnames_label = FALSE,
  select_multiple_label = FALSE,
  select_multiple_sep = "_",
  progress = FALSE,
  paginate = NULL,
  page_size = NULL,
  query = NULL,
  fields = NULL
)

```

### Arguments

x	the asset uid or the kobo_asset object.
lang	character, form language used for the variable and value labels.
all_versions	logical, whether or not to include submissions from all form versions. Default to TRUE. If FALSE, it uses the data from the latest version of the form.

colnames_label	logical, whether or not to use variable labels in lieu of column names based on form question names. Default to FALSE.
select_multiple_label	logical, whether or not to replace select_multiple columns values by labels. Default to FALSE.
select_multiple_sep	character, column and choices separator for newly created dummy variables. Default to "_".
progress	logical, whether or not you want to see the progress via message. Default to FALSE.
paginate	logical, split submissions by page_size. Default to NULL.
page_size	integer, number of submissions per page.
query	character, a MongoDB-style query string to filter submissions server-side. For example, '{"field_name": "value"}' to return only submissions where field_name equals "value". The query filters submissions (main table rows) based on top-level fields only. You cannot filter on fields inside a repeat group. All repeat group rows belonging to matching submissions are returned. Default to NULL (no filtering).
fields	<p>character vector of field names to return. When provided, only these fields (plus __version__) are fetched from the server. The server may still include system fields such as _id and _uuid.</p> <p>For repeat-group forms, fields supports individual selection of main-table columns and table-level selection of top-level repeat groups. A selected repeat group is always returned in full. Selecting individual child columns within a repeat group (for example, "my_repeat/age") is not supported. Nested repeat groups cannot be selected independently, you'll need to include their ancestor repeat group instead.</p> <p>Repeat-group forms always return a dm object. If no repeat group is selected, the returned dm contains only the main table. Default to NULL (all fields).</p>

## Details

`kobo_data` is the main function of `robotoolbox`, it is used pull submissions from your Kobotoolbox survey. The main result is a `data.frame` for regular form and you have a `dm` for a form with repeating groups of questions.

## Value

A `data.frame` or A `dm` object if you have a repeating group of questions. It contains the responses from the Kobotoolbox survey.

## Examples

```
## Not run:
# Use your own URL and token
kobo_setup(url = "https://kf.kobotoolbox.org/",
           token = "9et1814c285w094f6v9bd629df47a1a0e81x53a0")
# Use your own unique identifier
```

```

uid <- "a9cwEQcbWqWzA5hzkjRUWi"
asset <- kobo_asset(uid)
subs <- kobo_data(asset)

# Filter submissions server-side with a MongoDB query
filtered <- kobo_data(asset, query = '{"pet_yesno": "1"}')

# Select specific fields
partial <- kobo_data(asset, fields = c("full_name", "pet_yesno"))

if (require(dplyr)) {
  library(dplyr)
  glimpse(subs)
}

## End(Not run)

```

---

kobo\_form

*Get a KoboToolbox survey form*


---

## Description

Get a KoboToolbox survey form from a kobo\_asset or an asset unique identifier.

## Usage

```
kobo_form(x, version)
```

## Arguments

x	the unique identifier of a specific asset (character) or a kobo_asset object.
version	character, the unique identifier of the version of the asset.

## Value

A data.frame with the following columns:

- name the name of the survey questions
- list\_name the name of list of code used for values and labels
- type the type of KoboToolbox survey questions
- label the label of the questions
- lang the languages used in the survey
- version the survey version unique identifier
- choices a list column with the choices values and labels
- kuid the unique identifier of the question
- qpath and xpath the path of the question in JSON/XML

You can also have other columns such as relevant, calculation, etc. depending on how you structure for survey form.

**Examples**

```
## Not run:
# Use your own URL and token
kobo_setup(url = "https://kf.kobotoolbox.org/",
           token = "9et1814c285w094f6v9bd629df47a1a0e81x53a0")
# Use your own API asset identifier
uid <- "a9cwEQcbWqWzA5hzkjRUwi"
asset <- kobo_asset(uid)
form <- kobo_form(asset)

## End(Not run)
```

---

kobo\_lang

*Get and set the languages used in KoboToolbox data*


---

**Description**

- `kobo_lang()`: Get the languages available in a KoboToolbox survey form.
- `kobo_lang_get()`: Get the current language of a dataset returned by `kobo_data()`.
- `kobo_lang_set()`: Change the language labels of a dataset without re-downloading.

**Usage**

```
kobo_lang(x)

## S3 method for class 'kobo_asset'
kobo_lang(x)

## S3 method for class 'character'
kobo_lang(x)

## Default S3 method:
kobo_lang(x)

kobo_lang_get(data, asset)

## S3 method for class 'data.frame'
kobo_lang_get(data, asset)

## S3 method for class 'dm'
kobo_lang_get(data, asset)

## Default S3 method:
kobo_lang_get(data, asset)

kobo_lang_set(data, asset, lang)
```

```
## S3 method for class 'data.frame'
kobo_lang_set(data, asset, lang)

## S3 method for class 'dm'
kobo_lang_set(data, asset, lang)

## Default S3 method:
kobo_lang_set(data, asset, lang)
```

### Arguments

x	For kobo_lang(): the unique identifier of a specific asset (character) or a kobo_asset object.
data	For kobo_lang_get() and kobo_lang_set(): a data.frame or dm object returned by kobo_data().
asset	For kobo_lang_get() and kobo_lang_set(): a kobo_asset object or the unique identifier of a specific asset (character).
lang	For kobo_lang_set(): character, the target language. Use kobo_lang(asset) to see available languages.

### Details

KoboToolbox forms can have multiple language translations. Normally, switching languages requires calling kobo\_data() again with a different lang parameter, which re-downloads all data from the server.

kobo\_lang\_set() applies labels from a different language to existing data instantly, using the cached form metadata. This is useful when you need to work with data in multiple languages or export data with different label sets.

kobo\_lang\_get() inspects the current variable labels in the data and matches them against the form to determine which language is currently applied.

### Value

- kobo\_lang(): A character vector of available languages. Returns "Labels" when no language is set.
- kobo\_lang\_get(): A character string of the current language, or NA if it cannot be determined.
- kobo\_lang\_set(): The data with updated labels in the new language.

### Examples

```
## Not run:
# Setup
asset <- kobo_asset("aYuTZn9vegi3Z49MXwKjep")

# List available languages
kobo_lang(asset)
```

```
# Fetch data in English
df <- kobo_data(asset, lang = "English (en)")

# Check current language (using asset object or uid)
kobo_lang_get(df, asset)
kobo_lang_get(df, "aYuTZn9vegi3Z49MXwKjep")

# Switch to French instantly (no API call)
df_fr <- kobo_lang_set(df, asset, lang = "Francais (fr)")
kobo_lang_get(df_fr, asset)

# Works with dm objects (nested forms) too
dm_data <- kobo_data(complex_asset)
dm_fr <- kobo_lang_set(dm_data, complex_asset, lang = "French")

## End(Not run)
```

---

kobo\_settings

*Get robotoolbox settings*

---

## Description

Print the KoboToolbox server URL and API token currently in use.

## Usage

```
kobo_settings()
```

## Value

A list with information about your KoboToolbox server URL and token.

## Examples

```
## Not run:
kobo_settings()

## End(Not run)
```

---

kobo_setup	<i>Set robotoolbox settings</i>
------------	---------------------------------

---

### Description

Set the KoboToolbox server URL, API token and return invisibly a kobo\_settings object.

### Usage

```
kobo_setup(  
    url = Sys.getenv("KOBOTOOLBOX_URL", ""),  
    token = Sys.getenv("KOBOTOOLBOX_TOKEN", ""),  
    page_size = 1000L  
)
```

### Arguments

url	character, the base URL of the KoboToolbox server.
token	character, the API token.
page_size	integer, the maximum number of submissions per API request. Default to 1000L, which is the limit enforced by public KoboToolbox servers since KoboToolbox KPI version 2.026.03 (March 2026). Users with private servers that allow higher limits can set this to a larger value (e.g., 30000L) to fetch more data per request and reduce the number of paginated calls.

### Value

A kobo\_settings object printing the server URL and the API token.

### Examples

```
## Not run:  
# Public server (default page_size = 1000)  
kobo_setup(url = "https://kf.kobotoolbox.org/",  
           token = "9et1814c285w094f6v9bd629df47a1a0e81x53a0")  
  
# Private server with higher limit  
kobo_setup(url = "https://myserver.org/",  
           token = "9et1814c285w094f6v9bd629df47a1a0e81x53a0",  
           page_size = 30000)  
kobo_settings()  
  
## End(Not run)
```

---

kobo_token	<i>Get your KoboToolbox API token</i>
------------	---------------------------------------

---

**Description**

Get your KoboToolbox API token from your username and password.

**Usage**

```
kobo_token(username = NULL, password = NULL, url = NULL, overwrite = FALSE)
```

**Arguments**

username	character, KoboToolbox account username.
password	character, KoboToolbox account password.
url	character, KoboToolbox server URL.
overwrite	logical, if TRUE, it overwrites the existing token. Default to FALSE.

**Value**

A character, the KoboToolbox API token. It also stores, as a side effect, the URL and token as the environment variables KOBOTOOLBOX\_URL and KOBOTOOLBOX\_TOKEN respectively.

**Examples**

```
## Not run:  
# use your own KoboToolbox URL, username and password  
if (require(askpass)) {  
  token <- kobo_token(username = "cool_user_name",  
                      password = askpass::askpass(),  
                      url = "https://kf.kobotoolbox.org/")  
  
  token  
}  
  
## End(Not run)
```

# Index

## \* datasets

- asset\_list, 2
- data\_ml\_en, 3
  
- asset\_audit, 4
- asset\_audit (asset\_list), 2
- asset\_list, 2
- asset\_ml, 4
- asset\_ml (asset\_list), 2
- asset\_rg, 4
- asset\_rg (asset\_list), 2
- asset\_sm\_label, 4
- asset\_sm\_label (asset\_list), 2
- asset\_spatial, 4
- asset\_spatial (asset\_list), 2
  
- data\_audit (data\_ml\_en), 3
- data\_ml\_ar (data\_ml\_en), 3
- data\_ml\_default (data\_ml\_en), 3
- data\_ml\_en, 3
- data\_ml\_fr (data\_ml\_en), 3
- data\_ml\_vlabel (data\_ml\_en), 3
- data\_rg (data\_ml\_en), 3
- data\_sm (data\_ml\_en), 3
- data\_sm\_label (data\_ml\_en), 3
- data\_spatial (data\_ml\_en), 3
  
- kobo\_asset, 4
- kobo\_asset\_file\_list, 5
- kobo\_asset\_list, 6
- kobo\_asset\_version, 7
- kobo\_asset\_version\_list, 7
- kobo\_attachment\_download, 8
- kobo\_audit, 9
- kobo\_cache, 10
- kobo\_cache\_clear, 11
- kobo\_cache\_info, 11
- kobo\_data, 12, 14
- kobo\_form, 15
- kobo\_lang, 16
- kobo\_lang\_get (kobo\_lang), 16
- kobo\_lang\_set (kobo\_lang), 16
- kobo\_settings, 18
- kobo\_setup, 19
- kobo\_submissions (kobo\_data), 12
- kobo\_token, 20