# Package 'atrrr'

October 3, 2024

```
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Description Wraps the 'AT' Protocol (Authenticated Transfer Protocol) behind
      'Bluesky' <a href="https://bsky.social">https://bsky.social</a>. Functions can be used for, among others,
      retrieving posts and followers from the network or posting content.
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auth

Authenticate for the API

## Description

Run authentication for a network using the AT protocol (e.g., 'Blue Sky') and save the token permanently.

## Usage

```
auth(
  user,
  password,
  domain = "https://bsky.app/",
  verbose = TRUE,
  overwrite = FALSE,
  token = NULL
)
```

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#### **Arguments**

user Your user handle (e.g, benguinaudeau.bsky.social).

password Your app password (usually created on https://bsky.app/settings/app-passwords).

domain For now https://bsky.app/, but could change in the future.

verbose Whether to print status messages to the Console (TRUE/FALSE). Package default

(when NULL) is to have status messages. Can be changed with Sys.setenv(ATR\_VERBOSE

= FALSE).

overwrite If TRUE, overwrites old token without asking for confirmation.

token (Stale) token object. Usually you don't need to use this. But if you manage your

own tokens and they get stale, you can use this parameter and request a fresh

token.

#### **Details**

After requesting the token, it is saved in the location returned by file.path(tools::R\_user\_dir("atrrr", "cache"), Sys.getenv("BSKY\_TOKEN", unset = "token.rds")). If you have multiple tokens, you can use Sys.setenv(BSKY\_TOKEN = "filename.rds") to save/load the token with a different name.

#### Value

An authentication token (invisible)

```
## Not run:
# request a token
auth() # this will guide you through all steps
# the token is stored in the location returned by this command
file.path(tools::R_user_dir("atrrr", "cache"),
          Sys.getenv("BSKY_TOKEN", unset = "token.rds"))
# to use a different than the default file name for the token, set BSKY_TOKEN
Sys.setenv(BSKY_TOKEN = "identity-2.rds")
# now either rename your token file or request a new token
auth()
# the cache now contains two tokens
list.files(tools::R_user_dir("atrrr", "cache"))
# functions that interact with the API also take a .token argument with the
# path. For example:
tok_path <- file.path(tools::R_user_dir("atrrr", "cache"), "identity-2.rds")</pre>
get_skeets_authored_by(actor = "benguinaudeau.bsky.social", parse = TRUE,
                       .token = tok_path)
## End(Not run)
```

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convert\_http\_to\_at

Converts betweet http URL and AT URI

## **Description**

Converts betweet http URL and AT URI

#### Usage

```
convert_http_to_at(link, .token = NULL)
convert_at_to_http(link)
```

#### Arguments

link either an AT or HTTP link.

. token If you manage your own tokens, you can supply it here. Usually NULL is OK and

will automatically load or guide you to generate a token.

#### **Details**

The AT protocol uses a different scheme to link to posts, useser, feeds etc. Instead of the common https://link format, internally a links starting with at:// are used (see https://atproto.com/specs/at-uri-scheme for details). The functions convert links from the HTTP to the AT format, or the other way around. This is useful if you want to use a link in a browser.

#### Value

either an AT or HTTP link

```
## Not run:
convert_http_to_at("https://bsky.app/profile/benguinaudeau.bsky.social/post/3kbi5v7oncq25")
convert_at_to_http("at://did:plc:vuvsifrusnjsys7mhkpk662u/app.bsky.feed.post/3kbi5v7oncq25")
## End(Not run)
```

follow 5

follow	Un/Follow an account

## **Description**

Un/Follow an account

## Usage

```
follow(actor, verbose = NULL, .token = NULL)
unfollow(actor, verbose = NULL, .token = NULL)
```

## **Arguments**

actor

User handle to follow or unfollow

verbose

Whether to print status messages to the Console (TRUE/FALSE). Package default (when NULL) is to have status messages. Can be changed with Sys.setenv(ATR\_VERBOSE = FALSE).

. token

If you manage your own tokens, you can supply it here. Usually NULL is OK and

will automatically load or guide you to generate a token.

## **Details**

You can only unfollow accounts which you also followed through the API/the package.

#### Value

list with URI and CID of the record (invisible).

```
## Not run:
# follow our test account
follow("atpr.bsky.social")
# unfollow our test account
unfollow("atpr.bsky.social")
## End(Not run)
```

6 get\_feed

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get_	feed

Get the skeets from a specific feed

## **Description**

Get the skeets that would be shown when you open the given feed

## Usage

```
get_feed(
  feed_url,
  limit = 25L,
  cursor = NULL,
  parse = TRUE,
  verbose = NULL,
  .token = NULL
)
```

## Arguments

feed_url	The url of the requested feed
limit	Maximum number of records to return. For queries with more than 100 results, pagination is used automatically (one request per 100 results). The function stops when the limit is reached, but you will usually get a few items more than requested.
cursor	Cursor for pagination (to pick up an old search).
parse	Parse the results or return the original nested object sent by the server.
verbose	Whether to print status messages to the Console (TRUE/FALSE). Package default (when NULL) is to have status messages. Can be changed with Sys.setenv(ATR_VERBOSE = FALSE).
.token	If you manage your own tokens, you can supply it here. Usually NULL is OK and will automatically load or guide you to generate a token.

#### Value

a data frame (or nested list) of posts

```
## Not run:
# use the URL of a feed
get_feed("https://bsky.app/profile/did:plc:2zcfjzyocp6kapg6jc4eacok/feed/aaaeckvqc3gzg")
# or search for a feed by name
res <- search_feed("#rstats")
get_feed(res$uri[1])
## End(Not run)</pre>
```

get\_feeds\_created\_by 7

```
get_feeds_created_by A view of the feed created by an actor.
```

## Description

A view of the feed created by an actor.

## Usage

```
get_feeds_created_by(
  actor,
  limit = 25L,
  cursor = NULL,
  parse = TRUE,
  verbose = NULL,
  .token = NULL
)
```

## Arguments

actor	user handle to retrieve feed from
limit	Maximum number of records to return. For queries with more than 100 results, pagination is used automatically (one request per 100 results). The function stops when the limit is reached, but you will usually get a few items more than requested.
cursor	Cursor for pagination (to pick up an old search).
parse	Parse the results or return the original nested object sent by the server.
verbose	Whether to print status messages to the Console (TRUE/FALSE). Package default (when NULL) is to have status messages. Can be changed with Sys.setenv(ATR_VERBOSE = FALSE).
. token	If you manage your own tokens, you can supply it here. Usually NULL is OK and will automatically load or guide you to generate a token.

## Value

```
a data frame (or nested list) of feeds
```

```
## Not run:
feed <- get_feeds_created_by("andrew.heiss.phd")
## End(Not run)</pre>
```

get\_feed\_likes

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Get likes of a feed

## **Description**

Get likes of a feed

#### Usage

```
get_feed_likes(
  feed_url,
  limit = 25L,
  cursor = NULL,
  parse = TRUE,
  verbose = NULL,
  .token = NULL
)
```

## Arguments

feed\_url the URL of a feed for which to retrieve who liked it.

limit Maximum number of records to return. For queries with more than 100 results,

pagination is used automatically (one request per 100 results). The function stops when the limit is reached, but you will usually get a few items more than

requested.

cursor Cursor for pagination (to pick up an old search).

parse Parse the results or return the original nested object sent by the server.

verbose Whether to print status messages to the Console (TRUE/FALSE). Package default

(when NULL) is to have status messages. Can be changed with Sys.setenv(ATR\_VERBOSE

= FALSE).

. token If you manage your own tokens, you can supply it here. Usually NULL is OK and

will automatically load or guide you to generate a token.

#### Value

a data frame (or nested list) of likes/reposts

```
## Not run:
# use the URL of a feed
get_feed_likes("https://bsky.app/profile/did:plc:2zcfjzyocp6kapg6jc4eacok/feed/aaaeckvqc3gzg")
# or search for a feed by name
res <- search_feed("#rstats")
get_feed_likes(res$uri[1])
## End(Not run)</pre>
```

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get_followers	Get followers and follows of an actor	
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## Description

Get followers and follows of an actor

## Usage

```
get_followers(
  actor,
  limit = 25L,
  cursor = NULL,
  parse = TRUE,
  verbose = NULL,
  .token = NULL
)
get_follows(
  actor,
  limit = 25L,
  cursor = NULL,
  parse = TRUE,
  verbose = NULL,
  .token = NULL
)
```

## Arguments

actor	user handle to look up followers for.
limit	Maximum number of records to return. For queries with more than 100 results, pagination is used automatically (one request per 100 results). The function stops when the limit is reached, but you will usually get a few items more than requested.
cursor	Cursor for pagination (to pick up an old search).
parse	Parse the results or return the original nested object sent by the server.
verbose	Whether to print status messages to the Console (TRUE/FALSE). Package default (when NULL) is to have status messages. Can be changed with Sys.setenv(ATR_VERBOSE = FALSE).
. token	If you manage your own tokens, you can supply it here. Usually NULL is OK and will automatically load or guide you to generate a token.

## Value

a data frame (or nested list) of found actors.

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#### **Examples**

get\_likes

Get likes/reposts of a skeet

## Description

Get likes/reposts of a skeet

## Usage

```
get_likes(
  post_url,
  limit = 25L,
  cursor = NULL,
  parse = TRUE,
  verbose = NULL,
  .token = NULL
)
get_reposts(
  post_url,
  limit = 25L,
  cursor = NULL,
  parse = TRUE,
  verbose = NULL,
  .token = NULL
)
```

#### **Arguments**

post\_url

the URL of a skeet for which to retrieve who liked/reposted it.

limit

Maximum number of records to return. For queries with more than 100 results, pagination is used automatically (one request per 100 results). The function stops when the limit is reached, but you will usually get a few items more than requested.

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will automatically load or guide you to generate a token.

cursor Cursor for pagination (to pick up an old search).

Parse the results or return the original nested object sent by the server.

Whether to print status messages to the Console (TRUE/FALSE). Package default (when NULL) is to have status messages. Can be changed with Sys. setenv(ATR\_VERBOSE = FALSE).

. token If you manage your own tokens, you can supply it here. Usually NULL is OK and

#### Value

a data frame (or nested list) of likes/reposts

## **Examples**

```
## Not run:
get_likes("https://bsky.app/profile/jbgruber.bsky.social/post/3kbi55xm6u62v")
get_reposts("https://bsky.app/profile/jbgruber.bsky.social/post/3kbi55xm6u62v")
## End(Not run)
```

get\_own\_timeline

Get your own timeline

#### **Description**

Get the posts that would be shown when you open the Bluesky app or website.

#### Usage

```
get_own_timeline(
  algorithm = NULL,
  limit = 25L,
  cursor = NULL,
  parse = TRUE,
  verbose = NULL,
  .token = NULL
```

#### Arguments

algorithm algorithm used to sort the posts

limit Maximum number of records to return. For queries with more than 100 results, pagination is used automatically (one request per 100 results). The function stops when the limit is reached, but you will usually get a few items more than requested.

cursor Cursor for pagination (to pick up an old search).

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parse Parse the results or return the original nested object sent by the server.

verbose Whether to print status messages to the Console (TRUE/FALSE). Package default

(when NULL) is to have status messages. Can be changed with Sys.setenv(ATR\_VERBOSE

= FALSE).

. token If you manage your own tokens, you can supply it here. Usually NULL is OK and

will automatically load or guide you to generate a token.

#### Value

a data frame (or nested list) of posts

#### **Examples**

```
## Not run:
get_own_timeline()
get_own_timeline(algorithm = "reverse-chronological")
## End(Not run)
```

get\_replies

Get all replies

## **Description**

Get all replies and replies on replies of a skeet.

## Usage

```
get_replies(post_url, .token = NULL)
```

## **Arguments**

post\_url the URL of a skeet.

. token If you manage your own tokens, you can supply it here. Usually NULL is OK and

will automatically load or guide you to generate a token.

#### Value

a data frame of skeets

```
## Not run:
get_replies("https://bsky.app/profile/jbgruber.bsky.social/post/3kbi57u4sys21")
## End(Not run)
```

```
get_skeets_authored_by
```

A view of an actor's skeets.

## Description

A view of an actor's skeets.

## Usage

```
get_skeets_authored_by(
  actor,
  limit = 25L,
  cursor = NULL,
  parse = TRUE,
  verbose = NULL,
  .token = NULL
)
```

## Arguments

actor	user handle to retrieve feed for.
limit	Maximum number of records to return. For queries with more than 100 results, pagination is used automatically (one request per 100 results). The function stops when the limit is reached, but you will usually get a few items more than requested.
cursor	Cursor for pagination (to pick up an old search).
parse	Parse the results or return the original nested object sent by the server.
verbose	Whether to print status messages to the Console (TRUE/FALSE). Package default (when NULL) is to have status messages. Can be changed with Sys.setenv(ATR_VERBOSE = FALSE).
.token	If you manage your own tokens, you can supply it here. Usually NULL is OK and will automatically load or guide you to generate a token.

## Value

```
a data frame (or nested list) of posts
```

```
## Not run:
feed <- get_skeets_authored_by("andrew.heiss.phd")
## End(Not run)</pre>
```

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get\_thread

Get all skeets in a thread

## Description

Retrieve all skeets in a thread (all replies to an original skeet by any author). It does not matter if you use the original skeet or any reply as post\_url.

#### Usage

```
get_thread(post_url, .token = NULL)
```

#### **Arguments**

post\_url the URL of any skeet in a thread.

. token If you manage your own tokens, you can supply it here. Usually NULL is OK and

will automatically load or guide you to generate a token.

#### Value

a data frame of skeets

## **Examples**

```
## Not run:
get_thread("https://bsky.app/profile/jbgruber.bsky.social/post/3kbi57u4sys21")
## End(Not run)
```

get\_user\_info

Query profile of an actor

## **Description**

Query profile of an actor

## Usage

```
get_user_info(actor, parse = TRUE, .token = NULL)
```

## **Arguments**

actor user handle(s) to get information for.

parse Parse the results or return the original nested object sent by the server.

. token If you manage your own tokens, you can supply it here. Usually NULL is OK and

will automatically load or guide you to generate a token.

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## Value

a data frame (or nested list) of found actors.

## **Examples**

```
## Not run:
rstats_user <- search_user("rstats", limit = 2L)
get_user_info(rstats_user$handle)
## End(Not run)</pre>
```

list\_lexicons

AT Protocol Lexicons

## Description

Available lexicons for the AT Protocol (Authenticated Transfer Protocol)

## Usage

list\_lexicons

## **Format**

list\_lexicons:

A list with all lexicons available for the AT protocols.

names Name of the lexicon

values path relative to https://github.com/bluesky-social/atproto/tree/main/lexicons

#### **Source**

https://github.com/bluesky-social/atproto

post

Post a skeet

## **Description**

Post a skeet

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#### Usage

```
post(
  text,
  in_reply_to = NULL,
  quote = NULL,
  image = NULL,
  image_alt = NULL,
  created_at = Sys.time(),
  labels = NULL,
  langs = NULL,
  tags = NULL,
  preview_card = TRUE,
  verbose = NULL,
  .token = NULL
)
post_skeet(
  text,
  in_reply_to = NULL,
  quote = NULL,
  image = NULL,
  image_alt = NULL,
  created_at = Sys.time(),
  labels = NULL,
  langs = NULL,
  tags = NULL,
  preview_card = TRUE,
  verbose = NULL,
  .token = NULL
delete_skeet(post_url, verbose = NULL, .token = NULL)
delete_post(post_url, verbose = NULL, .token = NULL)
```

## Arguments

text Text to post URL or URI of a skeet this should reply to. in\_reply\_to quote URL or URI of a skeet this should quote. path to an image to post. image alt text for the image. image\_alt created\_at time stamp of the post. labels can be used to label a post, for example "!no-unauthenticated", "porn", "sexual", "nudity", or "graphic-media". indicates human language(s) (up to 3) of post's primary text content. langs

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additional hashtags, in addition to any included in post text and facets.

preview\_card display a preview card for links included in the text (only if image is NULL).

Whether to print status messages to the Console (TRUE/FALSE). Package default (when NULL) is to have status messages. Can be changed with Sys.setenv(ATR\_VERBOSE = FALSE).

If you manage your own tokens, you can supply it here. Usually NULL is OK and

will automatically load or guide you to generate a token.

post\_url URL or URI of post to delete.

#### Value

.token

list of the URI and CID of the post (invisible)

#### **Examples**

```
## Not run:
post("Hello from #rstats with {atrrr}")
## End(Not run)
```

post\_thread

Post a thread

#### Description

Post a thread

## Usage

```
post_thread(
   texts,
   images = NULL,
   image_alts = NULL,
   thread_df = NULL,
   verbose = NULL,
   .token = NULL
)
```

#### **Arguments**

texts a vector of skeet (post) texts

images paths to images to be included in each post

image\_alts alt texts for the images to be included in each post

thread\_df instead of defining texts, images and image\_alts, you can also create a data frame

with the information in columns of the same names.

print.bsky\_token

verbose Whether to print status messages to the Console (TRUE/FALSE). Package default

 $(when \, {\tt NULL}) \, is \, to \, have \, status \, messages. \, Can \, be \, changed \, with \, {\tt Sys.setenv} ({\tt ATR\_VERBOSE}) \, and \, {\tt NULL} \, is \, to \, have \, status \, messages. \, Can \, be \, changed \, with \, {\tt Sys.setenv} ({\tt ATR\_VERBOSE}) \, and \, {\tt NULL} \, is \, to \, {\tt NULL} \, is \, {\tt NU$ 

= FALSE).

. token If you manage your own tokens, you can supply it here. Usually NULL is OK and

will automatically load or guide you to generate a token.

#### Value

list of the URIs and CIDs of the posts (invisible)

## **Examples**

```
## Not run:
# post three messages in a thread
thread <- post_thread(c("Post 1", "Post 2", "Post 3"))
# delete the thread
delete_post(thread$uri)
## End(Not run)</pre>
```

print.bsky\_token

Print token

## **Description**

Print a AT token

## Usage

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

## **Arguments**

```
x An object of class bsky_token ... not used.
```

Value

No return value, called to print the token to screen

search\_feed 19

## Description

Search the feed named after a given query

## Usage

```
search_feed(
  query,
  limit = 25L,
  cursor = NULL,
  parse = TRUE,
  verbose = NULL,
  .token = NULL
)
```

## Arguments

query	The term to be searched
limit	Maximum number of records to return. For queries with more than 100 results, pagination is used automatically (one request per 100 results). The function stops when the limit is reached, but you will usually get a few items more than requested.
cursor	Cursor for pagination (to pick up an old search).
parse	Parse the results or return the original nested object sent by the server.
verbose	Whether to print status messages to the Console (TRUE/FALSE). Package default (when NULL) is to have status messages. Can be changed with Sys.setenv(ATR_VERBOSE = FALSE).
.token	If you manage your own tokens, you can supply it here. Usually NULL is OK and will automatically load or guide you to generate a token.

## Value

```
a data frame (or nested list) of posts
```

```
## Not run:
search_feed("rstats")
## End(Not run)
```

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search_post
-------------

## Description

Search Posts

#### Usage

```
search_post(q, limit = 100L, parse = TRUE, verbose = NULL, .token = NULL)
search_skeet(q, limit = 100L, parse = TRUE, verbose = NULL, .token = NULL)
```

## Arguments

q	search query. See Details.
limit	Maximum number of records to return. For queries with more than 100 results, pagination is used automatically (one request per 100 results). The function stops when the limit is reached, but you will usually get a few items more than requested.
parse	Parse the results or return the original nested object sent by the server.
verbose	Whether to print status messages to the Console (TRUE/FALSE). Package default (when NULL) is to have status messages. Can be changed with Sys.setenv(ATR_VERBOSE = FALSE).
. token	If you manage your own tokens, you can supply it here. Usually NULL is OK and will automatically load or guide you to generate a token.

#### **Details**

The API docs claim that Lucene query syntax is supported (Boolean operators and brackets for complex queries). But only a small subset is actually implemented:

- Whitespace is treated as implicit AND, so all words in a query must occur, but the word order and proximity are ignored.
- Double quotes indicate exact phrases.
- from: <handle> will filter to results from that account.
- - excludes terms (does not seem to be working at the moment).

Note that matches can occur anywhere in the skeet, not just the text. For example, a term can be in the link preview, or alt text of an image.

#### Value

```
a data frame (or nested list) of posts
```

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#### **Examples**

```
## Not run:
search_post("rstats")
# finds post with the hashtag rstats AND the word Bluesky somewhere in the
# skeet (ignoring capitalisaion)
search_post("#rstats Bluesky")

# search for the exact phrase "new #rstats package"
search_post("\"new #rstats package\"")
# Use single quotes so you do not need to escape double quotes
search_post('"new #rstats package"')

# only search for skeets from one user
search_post("from:jbgruber.bsky.social #rstats")

## End(Not run)
```

search\_user

Find users (profiles) matching search criteria.

#### **Description**

Find users (profiles) matching search criteria.

## Usage

```
search_user(
  query,
  limit = 25L,
  cursor = NULL,
  parse = TRUE,
  verbose = NULL,
  .token = NULL
)
```

## **Arguments**

parse

query	The search query. Searches in user names and descriptions or <b>exact</b> matches in user handles (including the <i>.bsky.social</i> part).
limit	Maximum number of records to return. For queries with more than 100 results, pagination is used automatically (one request per 100 results). The function stops when the limit is reached, but you will usually get a few items more than requested.
cursor	Cursor for pagination (to pick up an old search).

Parse the results or return the original nested object sent by the server.

skeet\_shot

verbose Whether to print status messages to the Console (TRUE/FALSE). Package default

(when NULL) is to have status messages. Can be changed with Sys.setenv(ATR\_VERBOSE

= FALSE).

. token If you manage your own tokens, you can supply it here. Usually NULL is OK and

will automatically load or guide you to generate a token.

#### Value

a data frame (or nested list) of found actors.

## **Examples**

```
## Not run:
search_user("benguinaudeau.bsky.social")
search_user("Blog: favstats.eu")
search_user("JBGruber")
search_user("@UvA_ASCOR")
search_user("rstats", limit = 1000L)
## End(Not run)
```

skeet\_shot

Take high quality screenshots of skeets

## **Description**

Take high quality screenshots of skeets

## Usage

```
skeet_shot(x, file = NULL, ...)
```

## **Arguments**

x a vector of URLs or URIs.

file output file name. Defaults to the skeet id.

... passed on to webshot.

#### Value

path to file

```
## Not run:
df <- atrrr::search_post("rstats")
skeet_shot(df$uri[1:2])
## End(Not run)</pre>
```

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