

# Package ‘geniusr’

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**Title** Tools for Working with the 'Genius' API

**Version** 1.2.1

**Description** Provides tools to interact nicely with the 'Genius' API

<<https://docs.genius.com/>>.

Search hosted content, extract associated metadata and retrieve lyrics with ease.

**URL** <https://ewenme.github.io/geniusr/>,

<https://github.com/ewenme/geniusr>

**BugReports** <https://github.com/ewenme/geniusr/issues>

**Depends** R (>= 3.2.0)

**License** MIT + file LICENSE

**Imports** curl, dplyr, httr, purrr, rvest, stringr, tibble, xml2

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album_to_df	<i>Convert genius_album object to a data frame</i>
-------------	--

---

**Description**

Convert genius\_album object to a data frame

**Usage**

```
album_to_df(x)
```

**Arguments**

x                    a genius\_album object

**Value**

a tibble

**Examples**

```
## Not run:  
album <- get_album(album_id = 337082)  
album_to_df(album)  
  
## End(Not run)
```

---

artist_to_df	<i>Convert genius_artist object to a data frame</i>
--------------	---

---

**Description**

Convert genius\_artist object to a data frame

**Usage**

```
artist_to_df(x)
```

**Arguments**

x                    a genius\_artist object

**Value**

a tibble

**Examples**

```
## Not run:  
artist <- get_artist(artist_id = 16775)  
artist_to_df(artist)  
  
## End(Not run)
```

---

browse_genius	<i>Open the Genius homepage in your browser</i>
---------------	---

---

**Description**

Opens a browser to <https://genius.com/>.

**Usage**

```
browse_genius()
```

**Value**

A browser is opened to the Genius website if the session is interactive. The URL is returned as a character string.

**Examples**

```
browse_genius()
```

---

```
browse_genius_resource
```

*Open the Genius url of a resource in your browser*

---

**Description**

Opens a browser to the Genius url of a Genius "resource" (i.e. the result of a successful `get_album|artist|song()` call).

**Usage**

```
browse_genius_resource(x)
```

**Arguments**

x                    a `genius_album`, `genius_artist`, or `genius_song` object

**Value**

A browser is opened to the Genius resource's url if the session is interactive. The URL is returned as a character string.

**Examples**

```
song <- get_song(song_id = 3039923)
browse_genius_resource(song)
```

---

genius_token	<i>Get or set Genius access token value</i>
--------------	---

---

**Description**

The API wrapper functions in this package all rely on a Genius client access token residing in the environment variable GENIUS\_API\_TOKEN. The easiest way to accomplish this is to set it in the `‘.Renviron’` file in your home directory.

**Usage**

```
genius_token(force = FALSE)
```

**Arguments**

`force` force setting a new Genius API token for the current environment?

**Value**

atomic character vector containing the Genius API token

---

get_album	<i>Retrieve metadata for an album</i>
-----------	---------------------------------------

---

**Description**

The Genius API lets you request data for a specific album, given an album ID. `get_album()` returns this data in full.

**Usage**

```
get_album(album_id, access_token = genius_token())
```

**Arguments**

`album_id` ID of the album (`album_id` within an object returned by [get\\_song](#))  
`access_token` Genius' client access token, defaults to `genius_token`

**Value**

a `genius_album` object that contains the extracted content from the request, the original JSON response object and the request path.

**See Also**

See [get\\_album\\_df](#) to return a tidy data frame.

Other album: [get\\_album\\_df\(\)](#), [get\\_album\\_tracklist\\_id\(\)](#), [get\\_album\\_tracklist\\_search\(\)](#)

## Examples

```
## Not run:  
get_album(album_id = 337082)  
  
## End(Not run)
```

---

get_album_df	<i>Retrieve meta data for an album</i>
--------------	--

---

## Description

The Genius API lets you return data for a specific album, given an album ID. `get_album_meta` returns this data in a tidy, but reduced, format.

## Usage

```
get_album_df(album_id, access_token = genius_token())
```

## Arguments

`album_id` ID of the album (`album_id` within an object returned by [get\\_song](#))  
`access_token` Genius' client access token, defaults to `genius_token`

## Value

a tibble

## See Also

See [get\\_album](#) to return extended data as a list.

Other album: [get\\_album\\_tracklist\\_id\(\)](#), [get\\_album\\_tracklist\\_search\(\)](#), [get\\_album\(\)](#)

## Examples

```
## Not run:  
get_album_df(album_id = 337082)  
  
## End(Not run)
```

---

`get_album_tracklist_id`*Retrieve an album's tracklisting*

---

**Description**

Get an album's tracklisting, and song meta data, given an album ID.

**Usage**

```
get_album_tracklist_id(album_id, access_token = genius_token())
```

**Arguments**

<code>album_id</code>	ID of the album ( <code>album_id</code> within an object returned by <a href="#">get_song</a> )
<code>access_token</code>	Genius' client access token, defaults to <code>genius_token</code>

**Value**

a tibble

**See Also**

See [get\\_album\\_tracklist\\_search](#) to search for an album tracklist by searching artist/album names.

Other album: [get\\_album\\_df\(\)](#), [get\\_album\\_tracklist\\_search\(\)](#), [get\\_album\(\)](#)

**Examples**

```
## Not run:  
get_album_tracklist_id(album_id = 337082)  
  
## End(Not run)
```

---

`get_album_tracklist_search`*Retrieve an album's tracklisting*

---

**Description**

Attempt to get an album's tracklisting, given an artist and album name.

**Usage**

```
get_album_tracklist_search(artist_name, album_name)
```

**Arguments**

artist\_name     Name of artist  
album\_name     Name of album

**Value**

a tibble

**See Also**

See [get\\_album\\_tracklist\\_id](#) to search for an album tracklist using an album ID.  
Other album: [get\\_album\\_df\(\)](#), [get\\_album\\_tracklist\\_id\(\)](#), [get\\_album\(\)](#)

**Examples**

```
## Not run:  
get_album_tracklist_search(artist_name = "Kendrick Lamar",  
album_name = "DAMN.")  
  
## End(Not run)
```

---

get_annotation	<i>Retrieve metadata for an annotation</i>
----------------	--

---

**Description**

The Genius API lets you return data for a specific annotation, given an annotation ID. `get_annotation` returns this data in full.

**Usage**

```
get_annotation(annotation_id, access_token = genius_token())
```

**Arguments**

annotation\_id     ID of the annotation  
access\_token     Genius' client access token, defaults to `genius_token`

**Details**

A Genius annotation is a piece of content about a part of a document. The document may be a song (hosted on Genius) or a web page (hosted anywhere). The part of a document that an annotation is attached to is called a referent.

**Value**

a `genius_annotation` object that contains the extracted content from the request, the original JSON response object and the request path.

**See Also**

Other annotation: [get\\_referent\(\)](#)

**Examples**

```
## Not run:  
get_annotation(annotation_id = 16511101)  
  
## End(Not run)
```

---

get_artist	<i>Retrieve metadata for an artist</i>
------------	--

---

**Description**

The Genius API lets you return data for a specific artist, given an artist ID. `get_artist` returns this data in full.

**Usage**

```
get_artist(artist_id, access_token = genius_token())
```

**Arguments**

`artist_id` ID of the artist (`artist_id` within an object returned by [search\\_artist](#))  
`access_token` Genius' client access token, defaults to `genius_token`

**Value**

a `genius_artist` object that contains the extracted content from the request, the original JSON response object and the request path.

**See Also**

See [get\\_artist\\_df](#) to return a tidy data frame.

Other artist: [get\\_artist\\_df\(\)](#), [get\\_artist\\_songs\\_df\(\)](#), [get\\_artist\\_songs\(\)](#)

**Examples**

```
## Not run:  
get_artist(artist_id = 16775)  
  
## End(Not run)
```

---

get_artist_df	<i>Retrieve metadata for an artist</i>
---------------	--

---

### Description

The Genius API lets you search for meta data for an artist, given an artist ID. `get_artist_df` returns this data in a tidy, but reduced, format.

### Usage

```
get_artist_df(artist_id, access_token = genius_token())
```

### Arguments

`artist_id` ID of the artist (`artist_id` within an object returned by [search\\_artist](#))  
`access_token` Genius' client access token, defaults to `genius_token`

### Value

a tibble

### See Also

See [get\\_artist](#) to return data in full as a list.

Other artist: [get\\_artist\\_songs\\_df\(\)](#), [get\\_artist\\_songs\(\)](#), [get\\_artist\(\)](#)

### Examples

```
## Not run:  
get_artist_df(artist_id = 16751)  
  
## End(Not run)
```

---

get_artist_songs	<i>Retrieve metadata for all of an artist's songs</i>
------------------	---

---

### Description

The Genius API lets you search for song metadata of an artist, given an artist ID. `get_artist_songs` returns this data in full.

## Usage

```
get_artist_songs(  
  artist_id,  
  sort = c("title", "popularity"),  
  include_features = FALSE,  
  access_token = genius_token()  
)
```

## Arguments

artist_id	ID of the artist ( <code>artist_id</code> within an object returned by <a href="#">search_artist</a> )
sort	method to order results; by "title" (default) or by "popularity"
include_features	Whether to return results where artist isn't the primary artist (logical, defaults to FALSE)
access_token	Genius' client access token, defaults to <code>genius_token</code>

## Value

a `genius_resource` object that contains the extracted content from the request, the original JSON response object and the request path.

## See Also

See [get\\_artist\\_songs\\_df](#) to return a tidy data frame.

Other artist: [get\\_artist\\_df\(\)](#), [get\\_artist\\_songs\\_df\(\)](#), [get\\_artist\(\)](#)

## Examples

```
## Not run:  
get_artist_songs(artist_id = 1421)  
get_artist_songs(artist_id = 1421, sort = "popularity")  
get_artist_songs(artist_id = 1421, include_features = TRUE)  
  
## End(Not run)
```

---

`get_artist_songs_df`     *Retrieve metadata for all of an artist's songs*

---

## Description

The Genius API lets you search for song metadata of an artist, given an artist ID. `get_artist_songs_df` returns this data in a tidy, but reduced, format.

**Usage**

```
get_artist_songs_df(  
  artist_id,  
  sort = c("title", "popularity"),  
  include_features = FALSE,  
  access_token = genius_token()  
)
```

**Arguments**

artist_id	ID of the artist ( <code>artist_id</code> within an object returned by <a href="#">search_artist</a> )
sort	method to order results; by "title" (default) or by "popularity"
include_features	Whether to return results where artist isn't the primary artist (logical, defaults to FALSE)
access_token	Genius' client access token, defaults to <code>genius_token</code>

**Value**

a tibble

**See Also**

See [get\\_artist\\_songs](#) to return data in full as a list.

Other artist: [get\\_artist\\_df\(\)](#), [get\\_artist\\_songs\(\)](#), [get\\_artist\(\)](#)

**Examples**

```
## Not run:  
get_artist_songs_df(artist_id = 1421)  
  
## End(Not run)
```

---

get_lyrics_id	<i>Retrieve lyrics associated with a Genius song ID</i>
---------------	---

---

**Description**

Get lyrics from Genius' lyric pages using an associated song ID.

**Usage**

```
get_lyrics_id(song_id, access_token = genius_token())
```

**Arguments**

song\_id            ID of the song (song\_id within an object returned by [search\\_song](#))  
access\_token      Genius' client access token, defaults to genius\_token

**See Also**

See [get\\_lyrics\\_url](#) to search lyrics using a song URL, [get\\_lyrics\\_search](#) to search using artist name and song title

Other lyrics: [get\\_lyrics\\_search\(\)](#), [get\\_lyrics\\_url\(\)](#)

**Examples**

```
## Not run:  
get_lyrics_id(song_id = 3214267)  
  
## End(Not run)
```

---

get_lyrics_search	<i>Retrieve lyrics associated with a Genius song</i>
-------------------	--

---

**Description**

Attempt to get lyrics from Genius' lyric pages using an associated artist name and song title.

**Usage**

```
get_lyrics_search(artist_name, song_title)
```

**Arguments**

artist\_name      Name of artist  
song\_title        Title of song

**See Also**

See [get\\_lyrics\\_id](#) to search lyrics using a song ID, [get\\_lyrics\\_url](#) to search using a song URL

Other lyrics: [get\\_lyrics\\_id\(\)](#), [get\\_lyrics\\_url\(\)](#)

**Examples**

```
## Not run:  
get_lyrics_search(artist_name = "Anderson .Paak",  
song_title = "Come Home")  
  
## End(Not run)
```

---

get_lyrics_url	<i>Retrieve lyrics associated with a Genius lyrics page URL</i>
----------------	---

---

### Description

Scrape lyrics from a Genius' lyric page using it's associated URL. Best used with [get\\_album\\_tracklist\\_id](#), when song IDs aren't returned - otherwise, [get\\_lyrics\\_id](#) is recommended.

### Usage

```
get_lyrics_url(song_lyrics_url)
```

### Arguments

```
song_lyrics_url  
    song lyrics url (like in song_lyrics_url returned by get\_song\_df)
```

### See Also

See [get\\_lyrics\\_id](#) to search lyrics using a song ID, [get\\_lyrics\\_search](#) to search using artist name and song title

Other lyrics: [get\\_lyrics\\_id\(\)](#), [get\\_lyrics\\_search\(\)](#)

### Examples

```
## Not run:  
get_lyrics_url(song_lyrics_url = "https://genius.com/Kendrick-lamar-dna-lyrics")  
  
## End(Not run)
```

---

get_referent	<i>Retrieve metadata for a referent</i>
--------------	---

---

### Description

The Genius API lets you return data for a specific referent. `get_referent` returns this data in full.

### Usage

```
get_referent(  
  created_by_id,  
  song_id,  
  web_page_id,  
  access_token = genius_token()  
)
```

**Arguments**

created_by_id	ID of a user to get referents for
song_id	ID of a song to get referents for (pass only one of song_id and web_page_id)
web_page_id	ID of a web page to get referents for (pass only one of song_id and web_page_id)
access_token	Genius' client access token, defaults to genius_token

**Details**

Referents are the sections of a piece of content to which annotations are attached. Each referent is associated with a web page or a song and may have one or more annotations. Referents can be searched by the document they are attached to or by the user that created them.

**Value**

a `genius_referent` object that contains the extracted content from the request, the original JSON response object and the request path.

**See Also**

Other annotation: [get\\_annotation\(\)](#)

**Examples**

```
## Not run:
get_referent(song_id = 3039923)

## End(Not run)
```

---

get_song	<i>Retrieve metadata for a song</i>
----------	-------------------------------------

---

**Description**

The Genius API lets you return data for a specific song, given a song ID. `get_song` returns this data in full.

**Usage**

```
get_song(song_id, access_token = genius_token())
```

**Arguments**

song_id	ID of the song (song_id within an object returned by <a href="#">search_song</a> )
access_token	Genius' client access token, defaults to genius_token

**Value**

a `genius_song` object that contains the extracted content from the request, the original JSON response object and the request path.

**See Also**

See `get_song_df` to return a tidy data frame.

Other song: `get_song_df()`, `tidy_album_performances()`, `tidy_song_performances()`, `tidy_song_producers()`, `tidy_song_relationships()`, `tidy_song_writers()`

**Examples**

```
## Not run:  
get_song(song_id = 3039923)  
  
## End(Not run)
```

---

`get_song_df`*Retrieve metadata for a song*

---

**Description**

The Genius API lets you search for meta data for a song, given a song ID. `get_song_meta` returns this data in a tidy, but reduced, format.

**Usage**

```
get_song_df(song_id, access_token = genius_token())
```

**Arguments**

`song_id` ID of the song (`song_id` within an object returned by `search_song`)  
`access_token` Genius' client access token, defaults to `genius_token`

**Value**

a tibble

**See Also**

See `get_song` to return data in full as a list.

Other song: `get_song()`, `tidy_album_performances()`, `tidy_song_performances()`, `tidy_song_producers()`, `tidy_song_relationships()`, `tidy_song_writers()`

### Examples

```
## Not run:  
get_song_df(song_id = 3039923)  
  
## End(Not run)
```

---

`print.genius_album`      *Slightly more human-readable output for genius\_album objects*

---

### Description

Slightly more human-readable output for `genius_album` objects

### Usage

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

### Arguments

<code>x</code>	a <code>genius_album</code> object
<code>...</code>	ignored

---

`print.genius_annotation`  
*Slightly more human-readable output for genius\_annotation objects*

---

### Description

Slightly more human-readable output for `genius_annotation` objects

### Usage

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

### Arguments

<code>x</code>	a <code>genius_annotation</code> object
<code>...</code>	ignored

---

print.genius\_artist    *Slightly more human-readable output for genius\_artist objects*

---

**Description**

Slightly more human-readable output for genius\_artist objects

**Usage**

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

**Arguments**

x	a genius_artist object
...	ignored

---

print.genius\_referent    *Slightly more human-readable output for genius\_referent objects*

---

**Description**

Slightly more human-readable output for genius\_referent objects

**Usage**

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

**Arguments**

x	a genius_referent object
...	ignored

---

print.genius\_resource *Slightly more human-readable output for genius\_resource objects*

---

### **Description**

Slightly more human-readable output for genius\_resource objects

### **Usage**

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

### **Arguments**

x	a genius_resource object
...	ignored

---

print.genius\_song *Slightly more human-readable output for genius\_song objects*

---

### **Description**

Slightly more human-readable output for genius\_song objects

### **Usage**

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

### **Arguments**

x	a genius_song object
...	ignored

---

search_artist	<i>Search artists on Genius</i>
---------------	---------------------------------

---

**Description**

The Genius API lets you search hosted content (all songs). Use `search_artist()` to return `artist_id`, `artist_name` and `artist_url` for all unique artist matches found using a search term.

**Usage**

```
search_artist(search_term, n_results = 10, access_token = genius_token())
```

**Arguments**

<code>search_term</code>	A character string to search for
<code>n_results</code>	Maximum no. of search results to return
<code>access_token</code>	Genius' client access token, defaults to <code>genius_token</code>

**Value**

a tibble

**See Also**

Other search: [search\\_genius\(\)](#), [search\\_song\(\)](#)

**Examples**

```
## Not run:
search_artist(search_term = "Lil", n_results = 20)

## End(Not run)
```

---

search_genius	<i>Search documents hosted on Genius</i>
---------------	--

---

**Description**

The Genius API lets you search hosted content (all songs). Use `search_genius()` to return hits on for a given search term, in full.

**Usage**

```
search_genius(search_term, n_results = 10, access_token = genius_token())
```

**Arguments**

search\_term     A character string to search for  
 n\_results        Maximum no. of search results to return  
 access\_token    Genius' client access token, defaults to genius\_token

**Value**

a genius\_resource object that contains the extracted content from the request, the original JSON response object and the request path.

**See Also**

Other search: [search\\_artist\(\)](#), [search\\_song\(\)](#)

**Examples**

```
## Not run:
search_genius(search_term = "Lil", n_results = 100)

## End(Not run)
```

---

search_song	<i>Search songs on Genius</i>
-------------	-------------------------------

---

**Description**

The Genius API lets you search hosted content (all songs). Use `search_song()` to return `song_id`, `song_name`, `lyrics_url` and `artist_id` for all unique song matches found using a search term.

**Usage**

```
search_song(search_term, n_results = 10, access_token = genius_token())
```

**Arguments**

search\_term     A character string to search for  
 n\_results        Maximum no. of search results to return  
 access\_token    Genius' client access token, defaults to genius\_token

**Value**

a tibble

**See Also**

Other search: [search\\_artist\(\)](#), [search\\_genius\(\)](#)

**Examples**

```
## Not run:  
search_song(search_term = "Gucci", n_results = 50)  
  
## End(Not run)
```

---

song_to_df	<i>Convert genius_song object to a data frame</i>
------------	---

---

**Description**

Convert genius\_song object to a data frame

**Usage**

```
song_to_df(x)
```

**Arguments**

x                    a genius\_song object

**Value**

a tibble

**Examples**

```
## Not run:  
song <- get_song(song_id = 3039923)  
song_to_df(song)  
  
## End(Not run)
```

---

tidy_album_performances	<i>Extract album performances from a Genius album</i>
-------------------------	---

---

**Description**

Extract "album performances" (i.e. album credits) info from a Genius album object, as a tidy tibble.

**Usage**

```
tidy_album_performances(x)
```

**Arguments**

x                    A genius\_album object

**Value**

a tibble

**See Also**

See [get\\_album](#) to generate a Genius album object.

Other song: [get\\_song\\_df\(\)](#), [get\\_song\(\)](#), [tidy\\_song\\_performances\(\)](#), [tidy\\_song\\_producers\(\)](#), [tidy\\_song\\_relationships\(\)](#), [tidy\\_song\\_writers\(\)](#)

**Examples**

```
## Not run:  
album <- get_album(album_id = 337082)  
  
tidy_album_performances(album)  
  
## End(Not run)
```

---

tidy\_song\_performances

*Extract custom performances from a Genius song*

---

**Description**

Extract "custom performances" (i.e. other song credits) info from a Genius song object, as a tidy tibble.

**Usage**

```
tidy_song_performances(x)
```

**Arguments**

x                    A genius\_song object

**Value**

a tibble

**See Also**

See [get\\_song](#) to generate a Genius song object.

Other song: [get\\_song\\_df\(\)](#), [get\\_song\(\)](#), [tidy\\_album\\_performances\(\)](#), [tidy\\_song\\_producers\(\)](#), [tidy\\_song\\_relationships\(\)](#), [tidy\\_song\\_writers\(\)](#)

**Examples**

```
## Not run:
song <- get_song(song_id = 3039923)

tidy_song_performances(song)

## End(Not run)
```

---

tidy\_song\_producers    *Extract producer credits from a Genius song*

---

**Description**

Extract "producer artists" (i.e. producer credits) info from a Genius song object, as a tidy tibble.

**Usage**

```
tidy_song_producers(x)
```

**Arguments**

x                    A genius\_song object

**Value**

a tibble

**See Also**

See [get\\_song](#) to generate a Genius song object.

Other song: [get\\_song\\_df\(\)](#), [get\\_song\(\)](#), [tidy\\_album\\_performances\(\)](#), [tidy\\_song\\_performances\(\)](#), [tidy\\_song\\_relationships\(\)](#), [tidy\\_song\\_writers\(\)](#)

**Examples**

```
## Not run:
song <- get_song(song_id = 3039923)

tidy_song_producers(song)

## End(Not run)
```

---

`tidy_song_relationships`*Extract song relationships from a Genius song*

---

**Description**

Extract "song relationships" info from a Genius song object, as a tidy tibble.

**Usage**

```
tidy_song_relationships(x)
```

**Arguments**

`x` A `genius_song` object

**Value**

a tibble

**See Also**

See [get\\_song](#) to generate a Genius song object.

Other song: [get\\_song\\_df\(\)](#), [get\\_song\(\)](#), [tidy\\_album\\_performances\(\)](#), [tidy\\_song\\_performances\(\)](#), [tidy\\_song\\_producers\(\)](#), [tidy\\_song\\_writers\(\)](#)

**Examples**

```
## Not run:  
song <- get_song(song_id = 3039923)  
  
tidy_song_relationships(song)  
  
## End(Not run)
```

---

`tidy_song_writers`*Extract writer credits from a Genius song*

---

**Description**

Extract "writer artists" (i.e. writer credits) info from a Genius song object, as a tidy tibble.

**Usage**

```
tidy_song_writers(x)
```

**Arguments**

x                    A genius\_song object

**Value**

a tibble

**See Also**

See [get\\_song](#) to generate a Genius song object.

Other song: [get\\_song\\_df\(\)](#), [get\\_song\(\)](#), [tidy\\_album\\_performances\(\)](#), [tidy\\_song\\_performances\(\)](#), [tidy\\_song\\_producers\(\)](#), [tidy\\_song\\_relationships\(\)](#)

**Examples**

```
## Not run:  
song <- get_song(song_id = 3039923)  
  
tidy_song_writers(song)  
  
## End(Not run)
```

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