

# Package ‘rvkstat’

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**Type** Package

**Title** R Interface to API 'vk.com'

**Version** 3.2.0

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**Author** Alexey Seleznev

**Maintainer** Alexey Seleznev <selesnow@gmail.com>

**Description** Load data from vk.com api about your communiti users and views, ads performance, post on user wall and etc. For more information see API Documentation <[https://vk.com/dev/first\\_guide](https://vk.com/dev/first_guide)>.

**License** GPL-2

**Depends** R (>= 3.5.0)

**Imports** dplyr (>= 1.0.0), tidyr (>= 1.0.0), jsonlite, httr, stringr, lgr

**Language** ru

**Encoding** UTF-8

**BugReports** <https://github.com/selesnow/rvkstat/issues>

**URL** <https://selesnow.github.io/rvkstat/>

**RoxygenNote** 7.1.2

**NeedsCompilation** no

**Repository** CRAN

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|                 |                                    |
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| rvkstat-package | <i>R Interface to API 'vk.com'</i> |
|-----------------|------------------------------------|

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## Description

Load data from vk.com api about your communiti users and views, ads performance, post on user wall and etc. For more information see API Documentation <[https://vk.com/dev/first\\_guide](https://vk.com/dev/first_guide)>.

**Details**

The DESCRIPTION file:

```

Package:      rvkstat
Type:         Package
Title:        R Interface to API 'vk.com'
Version:      3.2.0
Date:         2021-10-15
Author:       Alexey Seleznev
Maintainer:   Alexey Seleznev <selesnow@gmail.com>
Description:  Load data from vk.com api about your communiti users and views, ads performance, post on user wall and et
License:      GPL-2
Depends:      R (>= 3.5.0)
Imports:      dplyr (>= 1.0.0), tidyr (>= 1.0.0), jsonlite, httr, stringr, lgr
Language:     ru
Encoding:     UTF-8
BugReports:   https://github.com/selesnow/rvkstat/issues
URL:          https://selesnow.github.io/rvkstat/
RoxygenNote: 7.1.2

```

Index of help topics:

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| vkGetAdAgeStats       | Statistics on Audience Coverage by Age.                        |
| vkGetAdBudget         | Budget of Advertising Cabinet 'Vkontakte'.                     |
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| vkGetAdCategories     | List of Possible Subjects of Advertisements                    |
| vkGetAdCityStats      | Statistics on Audience Coverage in The Context of Cities.      |
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|                         |   |
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| vkGetGroupStatCity      | Statistics of the Vkontakte community visitors by cities.         |
| vkGetGroupStatCountries | Statistics of The Vkontakte Community Visitors By Country.        |
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**Author(s)**

Alexey Seleznev

Maintainer: Alexey Seleznev <selesnow@gmail.com>

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vkAuth

*Authorization in 'Vkontakte'*

---

**Description**

Allows you to get a token to access the API using the scheme Authorization Code Flow - [https://vk.com/dev/authcode\\_flow\\_us](https://vk.com/dev/authcode_flow_us)

**Usage**

```
vkAuth(
    username    = getOption("rvkstat.username"),
    app_id     = getOption("rvkstat.app_id"),
    app_secret  = getOption("rvkstat.app_secret"),
    api_version = getOption("rvkstat.api_version"),
    token_path  = vkTokenPath(),
    reauth     = FALSE,
    skip_option = FALSE
)
```

**Arguments**

|             |   |
|-------------|---|
| username    | Your vkontakte login.   |
| app_id      | Application ID, you can find it on the application settings page.         |
| app_secret  | Secure application key, you can find it on the application settings page. |
| api_version | API version.  |
| token_path  | Path to dir with credentials  |
| reauth      | boolean, do reauthorization if TRUE                                       |
| skip_option | boolean, skip access token from options and environ variables if TRUE.    |

**Value**

The list of credentials to work with the API Vkontakte

**Author(s)**

Alexey Seleznev

**Examples**

```
## Not run:
## Auth in VK
vkAuth(
  username = 'your_login'
)

## End(Not run)
```

---

|                 |                                    |
|-----------------|------------------------------------|
| vkGetAdAccounts | <i>List of Advertising Account</i> |
|-----------------|------------------------------------|

---

**Description**

Returns a list of available advertising spaces.

**Usage**

```
vkGetAdAccounts(
  username      = getOption("rvkstat.username"),
  api_version   = getOption("rvkstat.api_version"),
  token_path    = vkTokenPath(),
  access_token  = getOption("rvkstat.access_token")
)
```

**Arguments**

|              |   |
|--------------|---|
| username     | Your vkontakte login.   |
| api_version  | Vkontakte API version.  |
| token_path   | Path to dir with credentials                                    |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions |

**Value**

Date frame with a list of advertising offices and their parameters with the following values:

|                |  |
|----------------|--|
| account_id     | ID of the advertising account.                                   |
| account_type   | Type of advertising office.                                      |
| account_status | The status of the advertising office. (1 - active, 0 - inactive) |
| access_role    | User privileges in the advertising office.                       |

**Author(s)**

Alexey Seleznev

**References**

Documentation for API method ads.getAccounts: <https://vk.com/dev/ads.getAccounts>

**Examples**

```
## Not run:
my_vk_acc <- vkGetAdAccounts()

## End(Not run)
```

---

vkGetAdAgeStats      *Statistics on Audience Coverage by Age.*

---

**Description**

Returns statistics on the reach of advertising campaigns and ads by age.

**Usage**

```
vkGetAdAgeStats(
  account_id = getOption("rvkstat.account_id"),
  ids_type   = "campaign",
  ids,
  period     = c("day", "month", "overall"),
  date_from  = Sys.Date() - 30,
  date_to    = Sys.Date(),
```

```

    username    = getOption("rvkstat.username"),
    api_version = getOption("rvkstat.api_version"),
    token_path  = vkTokenPath(),
    access_token = getOption("rvkstat.access_token")
)

```

### Arguments

|              |   |
|--------------|---|
| account_id   | The ID of the advertising account, a list of all available advertising offices can be obtained using the function vkGetAdAccounts.  |
| ids_type     | The type of objects requested that are listed in the ids parameter. Valid values "ad" - are ads, "campaigns" - are campaigns.   |
| ids          | Vector id of the requested ads, campaigns, clients or account, depending on what is specified in the ids_type parameter.  |
| period       | The way data is grouped by date is day-by-day statistics, month is month-by-month statistics, overall is all-time statistics. Time limits are specified in the date_from and date_to arguments. |
| date_from    | The start date of the displayed statistics in the format YYYY-MM-DD.  |
| date_to      | End date of the displayed statistics in the format YYYY-MM-DD.  |
| username     | Your vkontakte login.   |
| api_version  | Vkontakte API version.  |
| token_path   | Path to dir with credentials  |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions   |

### Value

Date frame with community statistics with the following values:

|                  |  |
|------------------|--|
| id               | id of the object from the ids argument.                        |
| day              | (if the period is equal to day) day in the format YYYY-MM-DD.  |
| month            | (if period is equal to month) - day in the format YYYY-MM.     |
| day_from         | (if period is overall) the start date of the reporting period. |
| day_to           | (if period is overall) end date of the reporting period.       |
| type             | object type from the ids_type parameter.                       |
| age              | age.   |
| impressions_rate | part of the audience that viewed the ad, from 0 to 1.          |
| clicks_rate      | (the part of the audience that clicked on the ad, from 0 to 1. |

### Author(s)

Alexey Seleznev

### References

Documentation for API method ads.getDemographics: <https://vk.com/dev/ads.getDemographics>

**Examples**

```

## Not run:
## auth
my_tok <- vkAuth(app_id = 1, app_secret = "H2Pk8htyFD8024mZaPHm")

# 1. Get a static message on audience coverage by sex,
# advertising campaigns in the context of days
## 1.1. We get a list of advertising campaigns
camp <- vkGetAdCampaigns(account_id = 1)

## 1.2. We get statistics on advertising campaigns
vk_ad_age_stat_day <- vkGetAdAgeStats(account_id = 1,
                                     ids_type = "campaign",
                                     ids = camp$id ,
                                     period = "day",
                                     date_from = "2010-01-01",
                                     date_to = "2017-09-10")

# 2. Receive a static message on the ads in the context of months
## 2.1. We get a list of advertising campaigns
ads <- vkGetAds(account_id = account_id)

## 2.2. Get ad statistics
vk_ad_age_stat_month <- vkGetAdAgeStats(account_id = 1,
                                       ids_type = "ad",
                                       ids = ads$id ,
                                       period = "month",
                                       date_from = "2010-01-01",
                                       date_to = "2017-09-10")

# 3. Get a static message on reaching the audience for advertising campaigns
# without a temporary breakdown
## 3.1. We get a list of advertising campaigns
camp <- vkGetAdCampaigns(account_id = 1)

## 3.2. We get statistics on advertising campaigns
vk_ad_age_stat_total <- vkGetAdAgeStats(account_id = 1,
                                       ids_type = "campaign",
                                       ids = camp$id ,
                                       period = "overall",
                                       date_from = "2010-01-01",
                                       date_to = "2017-09-10")

## End(Not run)

```

## Description

Returns the current balance of the advertising account Vkontakte.

## Usage

```
vkGetAdBudget(  
  account_id = getOption("rvkstat.account_id"),  
  username   = getOption("rvkstat.username"),  
  api_version = getOption("rvkstat.api_version"),  
  token_path = vkTokenPath(),  
  access_token = getOption("rvkstat.access_token")  
)
```

## Arguments

|              |  |
|--------------|--|
| account_id   | Advertising account ID, a list of all available advertising accounts can be obtained using the function vkGetAdAccounts. |
| username     | Your vkontakte login.  |
| api_version  | Vkontakte API version.   |
| token_path   | Path to dir with credentials   |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions  |

## Author(s)

Alexey Seleznev

## References

Documentation for API method ads.getBudget: <https://vk.com/dev/ads.getBudget>

## Examples

```
## Not run:  
## auth  
my_tok <- vkAuth(app_id = 1,  
                app_secret = "H2Pk8htyFD8024mZaPHm")  
  
# Receive the rest of means from an advertising office  
vk_budget <- vkGetAdBudget(account_id = 1,  
                           access_token = my_tok$access_token)  
  
## End(Not run)
```

---

|                  |                      |
|------------------|----------------------|
| vkGetAdCampaigns | <i>Campaign list</i> |
|------------------|----------------------|

---

**Description**

Returns a list of available advertising campaigns from the advertising office Vkontakte.

**Usage**

```
vkGetAdCampaigns(
    account_id      = vkCurrentAdAccount(),
    client_id       = vkCurrentClientAccount(),
    include_deleted = TRUE,
    campaign_ids    = "null",
    username        = getOption("rvkstat.username"),
    api_version     = getOption("rvkstat.api_version"),
    token_path      = vkTokenPath(),
    access_token    = getOption("rvkstat.access_token")
)
```

**Arguments**

|                 |  |
|-----------------|--|
| account_id      | The ID of the advertising account, a list of all available advertising offices can be obtained using the function vkGetAdAccounts. |
| client_id       | Client identifier from which advertisements are requested. Available and required for advertising agencies.                        |
| include_deleted | Boolean TRUE or FALSE, flag, specifying the need to display archived ads.  |
| campaign_ids    | Campaign ids.  |
| username        | Your vkontakte login.  |
| api_version     | Vkontakte API version.   |
| token_path      | Path to dir with credentials   |
| access_token    | API access tokens obtained using vkAuth or vkGetToken functions  |

**Value**

Date frame with a list of advertising offices and their parameters with the following values:

|           |                                 |
|-----------|---------------------------------|
| id        | campaign ID.                    |
| type      | campaign type.                  |
| name      | campaign name.                  |
| status    | campaign status.                |
| day_limit | daily campaign limit in rubles. |
| all_limit | total campaign limit in rubles. |

|             |  |
|-------------|--|
| start_time  | campaign start time.                     |
| stop_time   | campaign stop time.                      |
| create_time | campaign creation time.                  |
| update_time | the last time the campaign was modified. |

**Author(s)**

Alexey Seleznev

**References**

Documentation for API method ads.getCampaigns: <https://vk.com/dev/ads.getCampaigns>

**Examples**

```
## Not run:
## get campaing list
my_vk_camp <- vkGetAdCampaigns(account_id = 1)

## End(Not run)
```

---

|                   |  |
|-------------------|--|
| vkGetAdCategories | <i>List of Possible Subjects of Advertisements</i> |
|-------------------|--|

---

**Description**

Returns a table with all possible topics and their subsections of the topics of advertisements from 'Vkontakte'

**Usage**

```
vkGetAdCategories(
  version      = c("v1", "v2"),
  username     = getOption("rvkstat.username"),
  api_version  = getOption("rvkstat.api_version"),
  token_path   = vkTokenPath(),
  access_token = getOption("rvkstat.access_token")
)
```

**Arguments**

|              |   |
|--------------|---|
| version      | Dictionary version, v1 include deprecated themes, v2 exclude deprecated themes. |
| username     | Your vkontakte login.   |
| api_version  | Vkontakte API version.  |
| token_path   | Path to dir with credentials  |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions                 |

**Value**

Date frame with the following values:

```
id           subject identifier.
name        subject name.
subcategories_id
            identifier of the subsection.
ubcategories_name
            subsection name.
```

**Author(s)**

Alexey Seleznev

**References**

Documentation for API method ads.getCategories: <https://vk.com/dev/ads.getCategories>

**Examples**

```
## Not run:
# list of subjects
vk_ad_categories <- vkGetAdCategories()

## End(Not run)
```

---

|                  |  |
|------------------|--|
| vkGetAdCityStats | <i>Statistics on Audience Coverage in The Context of Cities.</i> |
|------------------|--|

---

**Description**

Returns statistics on audience reach by advertising campaign and ads by city.

**Usage**

```
vkGetAdCityStats(
  account_id = vkCurrentAdAccount(),
  ids_type   = c("campaign", "ad"),
  ids        = NULL,
  period     = c("day", "month", "overall"),
  date_from  = Sys.Date() - 30,
  date_to    = Sys.Date(),
  username   = getOption("rvkstat.username"),
  api_version = getOption("rvkstat.api_version"),
  token_path = vkTokenPath(),
  access_token = getOption("rvkstat.access_token")
)
```

**Arguments**

|              |  |
|--------------|--|
| account_id   | Advertising account ID, a list of all available advertising accounts can be obtained using the function vkGetAdAccounts.   |
| ids_type     | The type of objects requested, which are listed in the ids parameter. Valid ad values are ads, campaigns are campaigns.  |
| ids          | Vector id of the requested ads, campaigns, clients or account, depending on what is specified in the ids_type parameter.   |
| period       | The method of grouping data by date. day - statistics by days, month - statistics by months, overall - statistics for all time. Temporary restrictions are given by the arguments date_from and date_to. |
| date_from    | The starting date of the displayed statistics in the format YYYY-MM-DD.  |
| date_to      | The end date of the displayed statistics in the format YYYY-MM-DD.   |
| username     | Your vkontakte login.  |
| api_version  | Vkontakte API version.   |
| token_path   | Path to dir with credentials   |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions  |

**Value**

Date frame with the following values:

|                  |   |
|------------------|---|
| id               | id of the object from the ids argument.                         |
| day              | (if the period is equal to day) day in the format YYYY-MM-DD.   |
| month            | (if period is equal to month) - day in the format YYYY-MM.      |
| day_from         | (if period is overall) the start date of the reporting period.  |
| day_to           | (if period is overall) the finish date of the reporting period. |
| type             | the type of the object from the ids_type parameter.             |
| city_id          | city id or other for other cities.                              |
| city_name        | city name.  |
| impressions_rate | part of the audience that viewed the ad, from 0 to 1.           |
| clicks_rate      | (the part of the audience that clicked on the ad, from 0 to 1.  |

**Author(s)**

Alexey Seleznev

**References**

Documentation for API method ads.getDemographics: <https://vk.com/dev/ads.getDemographics>

## Examples

```
## Not run:

# 1. Get a static report on audience coverage in the context
# of cities by advertising campaigns by day
## 1.1. We get a list of advertising campaigns
camp <- vkGetAdCampaigns(account_id = 1)
## 1.2. We get statistics on advertising campaigns
vk_ad_city_stat_day <- vkGetAdCityStats(account_id = 1,
                                       ids_type = "campaign",
                                       ids = camp$id ,
                                       period = "day",
                                       date_from = "2010-01-01",
                                       date_to = "2017-09-10")

# 2. Receive a static message on the ads in the context of months
## 2.1. We get a list of advertising campaigns
ads <- vkGetAds(account_id = account_id, access_token = my_tok$access_token)
## 2.2. Get ad statistics
vk_ad_city_stat_month <- vkGetAdCityStats(account_id = 1,
                                          ids_type = "ad",
                                          ids = ads$id ,
                                          period = "month",
                                          date_from = "2010-01-01",
                                          date_to = "2017-09-10")

# 3. Receive a static report on audience coverage in the context
# of cities by advertising campaigns without a temporary breakdown
## 3.1. We get a list of advertising campaigns
camp <- vkGetAdCampaigns(account_id = 1)
## 3.2. Get statistics on advertising campaigns
vk_ad_city_stat_total <- vkGetAdCityStats(account_id = 1,
                                          ids_type = "campaign",
                                          ids = camp$id ,
                                          period = "overall",
                                          date_from = "2010-01-01",
                                          date_to = "2017-09-10")

## End(Not run)
```

---

vkGetAdClients

*Client list.*

---

## Description

Returns a list of advertising agency clients.

**Usage**

```
vkGetAdClients(
  account_id = getOption("rvkstat.agency_id"),
  username   = getOption("rvkstat.username"),
  api_version = getOption("rvkstat.api_version"),
  token_path = vkTokenPath(),
  access_token = getOption("rvkstat.access_token")
)
```

**Arguments**

|              |  |
|--------------|--|
| account_id   | Advertising account ID, a list of all available advertising accounts can be obtained using the function vkGetAdAccounts. |
| username     | Your vkontakte login.  |
| api_version  | Vkontakte API version.   |
| token_path   | Path to dir with credentials   |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions  |

**Value**

Date frame with community statistics with the following values:

|           |                                 |
|-----------|---------------------------------|
| id        | client id.                      |
| name      | customer name.                  |
| day_limit | client's daily limit in rubles. |
| all_limit | total customer limit in rubles. |

**Author(s)**

Alexey Seleznev

**References**

Documentation for API method ads.getClient: <https://vk.com/dev/ads.getClient>

**Examples**

```
## Not run:
## auth
my_tok <- vkAuth(app_id = 1,
                 app_secret = "H2Pk8htyFD8024mZaPHm")

## We get a list of clients from the agent account
vk_clients <- vkGetAdClients(account_id = 1,
                             access_token = my_tok$access_token)

## End(Not run)
```

---

vkGetAdGenderAgeStats *Statistics on Audience Coverage by Age and Gender.*

---

### Description

Returns statistics on the reach of advertising campaigns and ads by age and sex.

### Usage

```
vkGetAdGenderAgeStats(
    account_id = vkCurrentAdAccount(),
    ids_type   = c("campaign", "ad"),
    ids        = NULL,
    period     = c("day", "month", "overall"),
    date_from  = Sys.Date() - 30,
    date_to    = Sys.Date(),
    username   = getOption("rvkstat.username"),
    api_version = getOption("rvkstat.api_version"),
    token_path = vkTokenPath(),
    access_token = getOption("rvkstat.access_token")
)
```

### Arguments

|              |  |
|--------------|--|
| account_id   | The ID of the advertising account, a list of all available advertising offices can be obtained using the function vkGetAdAccounts.   |
| ids_type     | The type of objects requested that are listed in the ids parameter. Valid ad values are ads, campaign campaigns, client clients, office office.  |
| ids          | Vector id of the requested ads, campaigns, clients or account, depending on what is specified in the ids_type parameter.   |
| period       | The method of grouping data by date. day - statistics by days, month - statistics by months, overall - statistics for all time. Temporary restrictions are given by the arguments date_from and date_to. |
| date_from    | The starting date of the displayed statistics in the format YYYY-MM-DD.  |
| date_to      | The end date of the displayed statistics in the format YYYY-MM-DD.   |
| username     | Your vkontakte login.  |
| api_version  | Vkontakte API version.   |
| token_path   | Path to dir with credentials   |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions  |



```

date_from = "2010-01-01",
date_to = "2017-09-10")

# 3. Get a static message on reaching the audience
# for advertising campaigns without a temporary breakdown
## 3.1. We get a list of advertising campaigns
camp <- vkGetAdCampaigns(account_id = 1)
## 3.2. We get statistics on advertising campaigns
vk_ad_gender_age_stat_total <- vkGetAdGenderAgeStats(account_id = 1,
                                                    ids_type = "campaign",
                                                    ids = camp$id,
                                                    period = "overall",
                                                    date_from = "2010-01-01",
                                                    date_to = "2017-09-10")

## End(Not run)

```

---

vkGetAdGenderStats      *Statistics on Audience Coverage by Gender.*

---

## Description

Returns audience coverage statistics for advertising campaigns and ads by gender.

## Usage

```

vkGetAdGenderStats(
  account_id = vkCurrentAdAccount(),
  ids_type = c("campaign", "ad"),
  ids = NULL,
  period = c("day", "month", "overall"),
  date_from = Sys.Date() - 30,
  date_to = Sys.Date(),
  username = getOption("rvkstat.username"),
  api_version = getOption("rvkstat.api_version"),
  token_path = vkTokenPath(),
  access_token = getOption("rvkstat.access_token")
)

```

## Arguments

|            |   |
|------------|---|
| account_id | The ID of the advertising account, a list of all available advertising offices can be obtained using the function vkGetAdAccounts.              |
| ids_type   | The type of objects requested that are listed in the ids parameter. Valid ad values are ads, campaign campaigns, client clients, office office. |



```

                                period = "day",
                                date_from = "2010-01-01",
                                date_to = "2017-09-10")

# 2.Receive a stat message on the ads in the context of months
## 2.1. We get a list of advertising campaigns
ads <- vkGetAds(account_id = account_id)
## 2.2. Get ad statistics
vk_ad_gender_stat_month <- vkGetAdGenderStats(account_id = 1,
                                              ids_type = "ad",
                                              ids = ads$id ,
                                              period = "month",
                                              date_from = "2010-01-01",
                                              date_to = "2017-09-10")

# 3.Get a stat message on reaching the audience for
# advertising campaigns without a temporary breakdown
## 3.1. We get a list of advertising campaigns
camp <- vkGetAdCampaigns(account_id = )
## 3.2. We get statistics on advertising campaigns
vk_ad_gender_stat_total <- vkGetAdGenderStats(account_id = 1,
                                              ids_type = "campaign",
                                              ids = camp$id ,
                                              period = "overall",
                                              date_from = "2010-01-01",
                                              date_to = "2017-09-10")

## End(Not run)

```

---

vkGetAdPostsReach      *Statistics on The Coverage of Advertising Entries 'Vkontakte'.*

---

## Description

Returns detailed statistics on the reach of advertisements from ads and campaigns to promote community entries.

## Usage

```

vkGetAdPostsReach(
  account_id = vkCurrentAdAccount(),
  ids_type = "campaign",
  ids = NULL,
  username = getOption("rvkstat.username"),
  api_version = getOption("rvkstat.api_version"),
  token_path = vkTokenPath(),
  access_token = getOption("rvkstat.access_token")
)

```

**Arguments**

|              |   |
|--------------|---|
| account_id   | Advertising account ID, a list of all available advertising accounts can be obtained using the function vkGetAdAccounts.    |
| ids_type     | The type of objects requested, which are listed in the ids parameter. Valid ad values are ads, campaigns are campaigns.     |
| ids          | Vector of id of the requested ads, campaigns, clients or account, depending on what is specified in the ids_type parameter. |
| username     | Your vkontakte login.   |
| api_version  | Vkontakte API version.  |
| token_path   | Path to dir with credentials  |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions   |

**Details**

Campaign statistics are only available for campaigns created since December 20, 2016. The video\_views\_start, video\_views\_3s, video\_views\_25p, video\_views\_50p, video\_views\_75p, video\_views\_100p fields with video statistics data are returned only for ads or campaigns from videos created after January 26, 2017.

**Value**

Date frame with community statistics with the following values:

1. id object ID from the ids parameter.
2. reach\_subscribers reach subscribers.
3. reach\_total total coverage.
4. links follow the link.
5. to\_group transitions to the community.
6. join\_group entry into the community.
7. report number of complaints about the record.
8. hide number of entries hidden.
9. unsubscribe number of unsubscribe members.
10. video\_views\_start number of starts to watch a video.
11. video\_views\_3s number of video inspections up to 3 seconds.
12. video\_views\_25p number of video inspections up to 25 percent.
13. video\_views\_50p number of video inspections up to 50 percent.
14. video\_views\_75p number of video inspections up to 75 percent.
15. video\_views\_100p The number of video inspections is up to 100 percent.

**Author(s)**

Alexey Seleznev

**References**

Documentation for API method ads.getPostsReach: <https://vk.com/dev/ads.getPostsReach>

**Examples**

```
## Not run:
## auth
my_tok <- vkAuth(app_id = 1, app_secret = "H2Pk8htyFD8024mZaPHm")

## camp list
camp <- vkGetAdCampaigns(account_id = 1,
                        access_token = my_tok$access_token)

## Get statistics on advertising campaigns
post_reach <- vkGetAdPostsReach(account_id = 1600134264,
                                ids_type = "campaign",
                                ids = camp$id,
                                access_token = my_tok$access_token)

## End(Not run)
```

---

 vkGetAds

*List of Ads From 'Vkontakte'.*

---

**Description**

Provide to get a list of advertisements from the advertising office 'Vkontakte'.

**Usage**

```
vkGetAds(
  account_id      = vkCurrentAdAccount(),
  client_id       = vkCurrentClientAccount(),
  include_deleted = TRUE,
  only_deleted    = FALSE,
  campaign_ids    = "null",
  ad_ids          = "null",
  status_names    = TRUE,
  username        = getOption("rvkstat.username"),
  api_version     = getOption("rvkstat.api_version"),
  token_path      = vkTokenPath(),
  access_token    = getOption("rvkstat.access_token")
)
```

**Arguments**

|                 |  |
|-----------------|--|
| account_id      | The ID of the advertising account, a list of all available advertising offices can be obtained using the function vkGetAdAccounts. |
| client_id       | Client identifier from which advertisements are requested. Available and required for advertising agencies.                        |
| include_deleted | Boolean TRUE or FALSE, flag, specifying the need to display archived ads.  |
| only_deleted    | Boolean TRUE or FALSE, flag, get only deleted ads.   |
| campaign_ids    | Numeric vector, filter by advertising campaigns.   |
| ad_ids          | Numeric vector, ad filter.   |
| status_names    | If TRUE you get status names, in FALSE status Ids.   |
| username        | Your vkontakte login.  |
| api_version     | Vkontakte API version.   |
| token_path      | Path to dir with credentials   |
| access_token    | API access tokens obtained using vkAuth or vkGetToken functions  |

**Details**

If campaign\_ids and ad\_ids filters are enabled at the same time, the following ads will be displayed:  
 1. If the ad id is specified in ad\_ids, then it is displayed. 2. If the ad belongs to an advertising campaign whose id is specified in campaign\_ids, then it is displayed. 3. If there is an ad with the id specified in ad\_ids and it belongs to a campaign whose id is specified in campaign\_ids, then this ad campaign is ignored, i.e. for her, rule 2 does not work.

No more than 2000 ads are output from no more than 2000 campaigns.

**Value**

Date frame with the following values:

|                     |  |
|---------------------|--|
| id                  | ad id.   |
| campaign_id         | campaign id.   |
| name                | name of the announcement.  |
| status              | ad status.   |
| ad_format           | ad format.   |
| approved            | ad moderation status.  |
| all_limit           | total ad limit in rubles. 0 - no limit is set.   |
| create_time         | date and time of ad creation.  |
| 9. update_time      | the date and time of the last ad change.   |
| 10. age_restriction | label about ad age limit.  |
| 11. category1_id    | ID of the subject or subsection of the subject of the announcement, a list of topics can be obtained using the function vkGetAdCategories. |

- 12. `category2_id` Subject ID or sub topic of the ad. Additional topics, a list of topics can be obtained using the function `vkGetAdCategories`.
- 13. `cost_type` type of payment.
- 14. `cpc` price per switch in kopecks.
- 15. `cpm` price per 1000 impressions in kopecks.
- 16. `impressions_limit` limit the number of times this ad is shown per user.
- 17. `impressions_limited` a sign that the number of ad impressions per user is limited.
- 18. `ad_platform` advertising platforms where the ad will be displayed. (if `ad_format` is 1, 0 - VKontakte and partner sites, 1 - only VKontakte, (if `ad_format` is 9) all - all sites, desktop - full version of the site, mobile - mobile site and applications.)
- 19. `video` 1 - the ad is a video ad.

**Author(s)**

Alexey Seleznev

**References**

Documentation for API method `ads.getAds`: <https://vk.com/dev/ads.getAds>

**Examples**

```
## Not run:
## auth
my_tok <- vkAuth(app_id = 1,app_secret = "H2Pk8htyFD8024mZaPHm")
# ads list
my_vk_ads <- vkGetAds(account_id = 11111111,
                      access_token = my_tok$access_token)

## End(Not run)
```

---

vkGetAdsLayout

*Appearance of Advertisements.*

---

**Description**

Allows you to get a list of advertisements and a description of their appearance from the advertising office 'VKontakte'.

**Usage**

```

vkGetAdsLayout(
    account_id      = vkCurrentAdAccount(),
    client_id       = vkCurrentClientAccount(),
    include_deleted = TRUE,
    only_deleted    = FALSE,
    campaign_ids    = "null",
    ad_ids          = "null",
    status_names    = TRUE,
    username        = getOption("rvkstat.username"),
    api_version     = getOption("rvkstat.api_version"),
    token_path      = vkTokenPath(),
    access_token    = getOption("rvkstat.access_token")
)

```

**Arguments**

|                 |  |
|-----------------|--|
| account_id      | Advertising account ID, a list of all available advertising accounts can be obtained using the function vkGetAdAccounts. |
| client_id       | Client identifier from which advertisements are requested. Available and required for advertising agencies.              |
| include_deleted | Boolean TRUE or FALSE, flag, specifying whether to display archived ads.   |
| only_deleted    | Boolean TRUE or FALSE, flag, get only deleted ads.   |
| campaign_ids    | Numeric vector, filter by advertising campaigns.   |
| ad_ids          | Numeric vector, ad filter.   |
| status_names    | Numeric vector, filter by advertising campaigns.   |
| username        | Your vkontakte login.  |
| api_version     | Vkontakte API version.   |
| token_path      | Path to dir with credentials   |
| access_token    | API access tokens obtained using vkAuth or vkGetToken functions  |

**Details**

If campaign\_ids and ad\_ids filters are enabled at the same time, the following ads will be displayed: 1. If the ad id is specified in ad\_ids, then it is displayed. 2. If the ad belongs to an advertising campaign whose id is specified in campaign\_ids, then it is displayed. 3. If there is an ad with the id specified in ad\_ids and it belongs to a campaign whose id is specified in campaign\_ids, then this ad campaign is ignored, i.e. for her, rule 2 does not work.

No more than 2000 ads are output from no more than 2000 campaigns.

The function is based on the API method ads.getAdsLayout, you can find out all the details of its work at <https://vk.com/dev/ads.getAdsLayout>.

**Value**

Data frame with next values:

1. id ad id.
2. campaign\_id campaign id.
3. ad\_format ad format.
4. cost\_type type of payment.
5. video 1 - the ad is a video ad.
6. title ad title.
7. description description of the advertisement.
8. link\_url link to the advertised object.
9. link\_domain domain of the advertised site..
10. preview\_link  
link by clicking on which you can view the advertisement as it looks on the site.  
The link is available for 30 minutes after the vkGetAdsLayout function.
11. image\_src ad image url.

**Author(s)**

Alexey Seleznev

**References**

Documentation for API method ads.getAdsLayout: <https://vk.com/dev/ads.getAdsLayout>

**Examples**

```
## Not run:  
# get Ads Layouts  
my_vk_ads <- vkGetAdsLayout(account_id = 11111111)  
  
## End(Not run)
```

---

vkGetAdStatistics      *Statistics of advertising in 'VKontakte'.*

---

**Description**

returns performance statistics for advertisements, campaigns, customers, or the entire account.

**Usage**

```

vkGetAdStatistics(
    account_id = vkCurrentAdAccount(),
    ids_type   = c("office", "client", "campaign", "ad"),
    ids,
    period     = c("day", "week", "month", "year", "overall"),
    date_from  = Sys.Date() - 30,
    date_to    = Sys.Date(),
    username   = getOption("rvkstat.username"),
    api_version = getOption("rvkstat.api_version"),
    token_path = vkTokenPath(),
    access_token = getOption("rvkstat.access_token")
)

```

**Arguments**

|              |  |
|--------------|--|
| account_id   | The ID of the advertising account, a list of all available advertising offices can be obtained using the function vkGetAdAccounts.   |
| ids_type     | The type of objects requested that are listed in the ids parameter. Valid ad values are ads, campaign campaigns, client clients, office office.  |
| ids          | Vector id of the requested ads, campaigns, clients or account, depending on what is specified in the ids_type parameter.   |
| period       | The method of grouping data by date. day - statistics by days, month - statistics by months, overall - statistics for all time. Temporary restrictions are given by the arguments date_from and date_to. |
| date_from    | The starting date of the displayed statistics in the format YYYY-MM-DD.  |
| date_to      | The end date of the displayed statistics in the format YYYY-MM-DD.   |
| username     | Your vkontakte login.  |
| api_version  | Vkontakte API version.   |
| token_path   | Path to dir with credentials   |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions  |

**Value**

Date frame with advertising statistics with the following values:

1. id            id of the object from the ids argument.
2. day            (if the period is equal to day) day in the format YYYY-MM-DD.
3. month        (if period is equal to month) - day in the format YYYY-MM.
4. day\_from     (if period is overall) the start date of the reporting period.
5. day\_to        (if period is overall) end date of the reporting period.
6. type         object type from the ids\_type parameter.
7. spent         money spent.
8. impressions  number of views.

9. clicks            number of unique visitors.
10. reach            (if ids\_type is ad or campaign and period is equal to day or month) - coverage.
11. video\_views     (if ids\_type is ad) - video views (for video ads).
12. video\_views\_half     (if ids\_type is ad) - half the video views (for video ads)
13. video\_views\_full     (if ids\_type is ad) - views of the whole video (for video ads).
14. video\_clicks\_site     (if ids\_type is equal to ad) - transitions to the advertiser's website from video ads (for video ads).
15. join\_rate     (if ids\_type is ad or campaign) - group membership, event, subscriptions to a public page or application settings (only if the ad contains a direct link to the corresponding VK page).
16. lead\_form\_sends     ount of sended lead forms from your ads.

### Author(s)

Alexey Seleznev

### References

Documentation for API method ads.getStatistics: <https://vk.com/dev/ads.getStatistics>

### Examples

```
## Not run:
# 1. Get a static message on advertising
# campaigns in the context of days
## 1.1. We get a list of advertising campaigns
camp <- vkGetAdCampaigns(account_id = 1, access_token = my_tok$access_token)
## 1.2. We get statistics on advertising campaigns
vk_stat_by_campaign <- vkGetAdStatistics(account_id = 1,
                                         ids_type = "campaign",
                                         ids = camp$id ,
                                         period = "day",
                                         date_from = "2010-01-01",
                                         date_to = "2017-09-10")

# 2. Receive a static message on the ads in the context of months
## 2.1. We get a list of advertising campaigns
ads <- vkGetAds(account_id = account_id)
## 2.2. Get ad statistics
vk_stat_by_ads <- vkGetAdStatistics(account_id = 1,
                                    ids_type = "ad",
                                    ids = ads$id ,
                                    period = "month",
```

```

                                date_from = "2010-01-01",
                                date_to = "2017-09-10")

# 3.Receive the general static of the advertising cabinet, in this example
# it is assumed that the id of the advertising cabinet is 1
vk_stat_by_account <- vkGetAdStatistics(account_id = 1,
                                       ids_type = "office",
                                       ids = 1,
                                       period = "overall",
                                       date_from = "2010-01-01",
                                       date_to = "2017-09-10")

## End(Not run)

```

---

|               |                         |
|---------------|-------------------------|
| vkGetDbCities | <i>City Dictionary.</i> |
|---------------|-------------------------|

---

## Description

Returns a list of cities and countries.

## Usage

```

vkGetDbCities(
  country_id,
  region_id = NULL,
  q          = NULL,
  need_all  = TRUE,
  username  = getOption("rvkstat.username"),
  api_version = getOption("rvkstat.api_version"),
  token_path = vkTokenPath(),
  access_token = getOption("rvkstat.access_token")
)

```

## Arguments

|              |  |
|--------------|--|
| country_id   | country identifier obtained using the vkGetDbCountries function.                       |
| region_id    | identifier of the region whose city you want to receive. (this parameter is optional). |
| q            | search query string. For example, "Saint". The maximum string length is 15 characters. |
| need_all     | Boolean TRUE or FALSE, flag — return a list of all countries.                          |
| username     | Your vkontakte login.  |
| api_version  | Vkontakte API version.   |
| token_path   | Path to dir with credentials   |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions                        |

**Details**

the `q` parameter is not specified, then a list of the largest cities in the given country will be returned. If the `q` parameter is specified, a list of cities that are relevant to the search query will be returned.

**Value**

Date frame with community statistics with the following values:

|                        |                                       |
|------------------------|---------------------------------------|
| <code>cid</code>       | country id.                           |
| <code>title</code>     | country name.                         |
| <code>important</code> | mark key cities for the current user. |
| <code>area</code>      | area.                                 |
| <code>region</code>    | region.                               |

**Author(s)**

Alexey Seleznev

**References**

Documentation for API method `database.getCities`: <https://vk.com/dev/database.getCities>

**Examples**

```
## Not run:
## Get a list of cities for Ukraine, because Ukraine id = 2
vk_cities <- vkGetDbCities(country_id = 2)

## Get the list of cities for the search query "St."
vk_cities_search <- vkGetDbCities(country_id = 1,
                                 q = "St.")

## End(Not run)
```

---

vkGetDbCountries

*Country Dictionary.*

---

**Description**

Get list of countries.

**Usage**

```

vkGetDbCountries(
    need_all    = TRUE,
    code       = NULL,
    username    = getOption("rvkstat.username"),
    api_version = getOption("rvkstat.api_version"),
    token_path  = vkTokenPath(),
    access_token = getOption("rvkstat.access_token")
)

```

**Arguments**

|              |  |
|--------------|--|
| need_all     | Boolean TRUE or FALSE, flag — return a list of all countries.  |
| code         | Text vector, two-letter codes of countries in ISO 3166-1 alpha-2, for which you need to give information. Example c("RU", "UA", "BY"), a list of all codes can be viewed at the link - <a href="https://vk.com/dev/country_codes">https://vk.com/dev/country_codes</a> . |
| username     | Your vkontakte login.  |
| api_version  | Vkontakte API version.   |
| token_path   | Path to dir with credentials   |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions  |

**Details**

If the need\_all and code parameters are not specified, then a short list of countries located closest to the current user's country is returned. If the need\_all parameter is specified, a list of all countries will be returned. If the code parameter is specified, only countries with the listed ISO 3166-1 alpha-2 codes will be returned. A list of all country codes can be obtained at the link - [https://vk.com/dev/country\\_codes](https://vk.com/dev/country_codes)

**Value**

Date frame with community statistics with the following values:

|          |               |
|----------|---------------|
| 1. cid   | country id.   |
| 2. title | country name. |

**Author(s)**

Alexey Seleznev

**References**

Documentation for API method database.getCountries: <https://vk.com/dev/database.getCountries>

## Examples

```
## Not run:  
## get dictionary  
vk_countries <- vkGetDbCountries(need_all = T,  
                                code = c("RU", "UA", "BY"))  
  
## End(Not run)
```

---

vkGetDbMetroStations *Returns a List of Metro Stations*

---

## Description

Returns a List of Metro Stations

## Usage

```
vkGetDbMetroStations(  
  city_id,  
  username = getOption("rvkstat.username"),  
  api_version = getOption("rvkstat.api_version"),  
  token_path = vkTokenPath(),  
  access_token = getOption("rvkstat.access_token")  
)
```

## Arguments

|              |   |
|--------------|---|
| city_id      | City ID, <a href="#">vkGetDbCities</a>                          |
| username     | Your vkontakte login.   |
| api_version  | Vkontakte API version.  |
| token_path   | Path to dir with credentials                                    |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions |

## Value

tibble with Metro Stations list

---

|                |                      |
|----------------|----------------------|
| vkGetDbRegions | <i>Regions list.</i> |
|----------------|----------------------|

---

**Description**

Get regions dictionary.

**Usage**

```
vkGetDbRegions(
  country_id,
  q = NULL,
  username   = getOption("rvkstat.username"),
  api_version = getOption("rvkstat.api_version"),
  token_path  = vkTokenPath(),
  access_token = getOption("rvkstat.access_token")
)
```

**Arguments**

|              |  |
|--------------|--|
| country_id   | country identifier obtained using the vkGetDbCountries function.                   |
| q            | search query string. For example, Len. The maximum string length is 15 characters. |
| username     | Your vkontakte login.  |
| api_version  | Vkontakte API version.   |
| token_path   | Path to dir with credentials   |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions                    |

**Details**

If the q parameter is not specified, then a list of all regions in the given country will be returned. If the q parameter is specified, a list of regions that are relevant to the search query will be returned.

**Value**

Data frame contains community statistics with the following values:

1. region\_id    region identifier.
2. title        name of the region.

**Author(s)**

Alexey Seleznev

**References**

Documentation for API method database.getRegions: <https://vk.com/dev/database.getRegions>

**Examples**

```
## Not run:
## auth
my_tok <- vkAuth(app_id = 1,
                 app_secret = "H2Pk8htyFD8024mZaPHm")

## Get a list of regions for Ukraine, because Ukraine id = 2
vk_regions <- vkGetDbRegions(country_id = 2,
                             access_token = my_tok$access_token)

##get a list of cities of Ukraine on request "Ode"
vk_regions_search <- vkGetDbRegions(country_id = 2,
                                    q = "Ode",
                                    access_token = my_tok$access_token)

## End(Not run)
```

---

|                |                                  |
|----------------|----------------------------------|
| vkGetDbSchools | <i>Returns a List of Schools</i> |
|----------------|----------------------------------|

---

**Description**

Returns a List of Schools

**Usage**

```
vkGetDbSchools(
  q = NULL,
  city_id = NULL,
  username = getOption("rvkstat.username"),
  api_version = getOption("rvkstat.api_version"),
  token_path = vkTokenPath(),
  access_token = getOption("rvkstat.access_token")
)
```

**Arguments**

|              |   |
|--------------|---|
| q            | Search query string.  |
| city_id      | City ID, <a href="#">vkGetDbCities</a>                          |
| username     | Your vkontakte login.   |
| api_version  | Vkontakte API version.  |
| token_path   | Path to dir with credentials                                    |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions |

**Value**

tibble with Schools list

---

vkGetDbUniversities *Returns a List of Universities*

---

**Description**

Returns a List of Universities

**Usage**

```
vkGetDbUniversities(  
  q = NULL,  
  country_id = NULL,  
  city_id = NULL,  
  username = getOption("rvkstat.username"),  
  api_version = getOption("rvkstat.api_version"),  
  token_path = vkTokenPath(),  
  access_token = getOption("rvkstat.access_token")  
)
```

**Arguments**

|              |   |
|--------------|---|
| q            | Search query string.  |
| country_id   | Country ID, <a href="#">vkGetDbCountries</a>                    |
| city_id      | City ID, <a href="#">vkGetDbCities</a>                          |
| username     | Your vkontakte login.   |
| api_version  | Vkontakte API version.  |
| token_path   | Path to dir with credentials                                    |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions |

**Value**

tibble with Universities list

---

vkGetGroupMembers      *Returns a list of community members.*

---

### Description

Returns a list of community members.

### Usage

```
vkGetGroupMembers(
    group_id    = NULL,
    sort        = c('time_desc', 'time_asc', 'id_desc', 'id_asc'),
    fields      = c('sex', 'bdate', 'city', 'country', 'photo_50', 'photo_100',
                  'photo_200_orig', 'photo_200', 'photo_400_orig', 'photo_max',
                  'photo_max_orig', 'online', 'online_mobile', 'lists', 'domain',
                  'has_mobile', 'contacts', 'connections', 'site', 'education',
                  'universities', 'schools', 'can_post', 'can_see_all_posts',
                  'can_see_audio', 'can_write_private_message', 'status',
                  'last_seen', 'common_count', 'relation', 'relatives'),
    filter      = c('all', 'friends', 'unsure', 'managers', 'donut'),
    username    = getOption("rvkstat.username"),
    api_version = getOption("rvkstat.api_version"),
    token_path  = vkTokenPath(),
    access_token = getOption("rvkstat.access_token")
)
```

### Arguments

|              |  |
|--------------|--|
| group_id     | Community ID or short name.  |
| sort         | sort with which to return the list of participants. Possible values: time_desc, time_asc, id_desc, id_asc.   |
| fields       | List of additional fields to return. Possible values: sex, bdate, city, country, photo_50, photo_100, photo_200_orig, photo_200, photo_400_orig, photo_max, photo_max_orig, online, online_mobile, lists, domain, has_mobile, contacts, connections, site, education, universities, schools, can_post, can_see_all_posts, can_see_audio, can_write_private_message, status, last_seen, common_count, relation, relatives |
| filter       | Group member filter. Possible values: all, friends, unsure, managers, donut  |
| username     | Your vkontakte login.  |
| api_version  | Vkontakte API version.   |
| token_path   | Path to dir with credentials   |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions  |

### Value

Date frame with community statistics with the following values

**Author(s)**

Alexey Seleznev

**References**Documentation for API method stats.get: <https://vk.com/dev/groups.getMembers>**Examples**

```
## Not run:
## Getting community members
communityMembers <- vkGetGroupStat(
  group_id = "data_club")

## End(Not run)
```

vkGetGroupStat

*Statistics on visiting the community in 'Vkontakte'.***Description**

Load data from the 'Vkontakte' communities by the number of views, subscriptions, replies and community visitors by date.

**Usage**

```
vkGetGroupStat(
  date_from = Sys.Date() - 7,
  date_to = Sys.Date(),
  group_id = NULL,
  interval = "day",
  intervals_count = NULL,
  filters = NULL,
  stats_groups = c("visitors", "reach", "activity"),
  username = getOption("rvkstat.username"),
  api_version = getOption("rvkstat.api_version"),
  token_path = vkTokenPath(),
  access_token = getOption("rvkstat.access_token")
)
```

**Arguments**

|           |   |
|-----------|---|
| date_from | The starting date of the displayed statistics in the format YYYY-MM-DD. |
| date_to   | The end date of the displayed statistics in the format YYYY-MM-DD.      |
| group_id  | Community ID.   |
| interval  | Time intervals. Possible values: day, week, month, year, all.           |



---

 vkGetGroupStatAge      *Community Statistics by User Age Bucket*


---

## Description

Load data about community visitors by age group (12-18, 18-21, 21-24, 24-27, 27-30, 30-35, 35-45, 45-100) on dates.

## Usage

```
vkGetGroupStatAge(
    date_from    = Sys.Date() - 7,
    date_to     = Sys.Date(),
    group_id    = NULL,
    interval     = "day",
    intervals_count = NULL,
    filters      = NULL,
    stats_groups = c("visitors", "reach", "activity"),
    username    = getOption("rvkstat.username"),
    api_version  = getOption("rvkstat.api_version"),
    token_path   = vkTokenPath(),
    access_token = getOption("rvkstat.access_token")
)
```

## Arguments

|                 |  |
|-----------------|--|
| date_from       | The starting date of the displayed statistics in the format YYYY-MM-DD.  |
| date_to         | The end date of the displayed statistics in the format YYYY-MM-DD.   |
| group_id        | Community ID.  |
| interval        | Time intervals. Possible values: day, week, month, year, all.  |
| intervals_count | Number of time intervals.  |
| filters         | A list of words separated by commas  |
| stats_groups    | Filter for getting data on a specific block of community statistics. Possible values: visitors, reach, activity. |
| username        | Your vkontakte login.  |
| api_version     | Vkontakte API version.   |
| token_path      | Path to dir with credentials   |
| access_token    | API access tokens obtained using vkAuth or vkGetToken functions  |

**Value**

Date frame with statistics on community visitors with the following values:

1. Date            the date for which statistics are given.
2. Visitors        number of unique visitors.
3. AgeGroup       age interval.

**Author(s)**

Alexey Seleznev

**References**

Documentation for API method stats.get: <https://vk.com/dev/stats.get>

**Examples**

```
## Not run:
## auth
my_tok <- vkAuth(app_id = 1, app_secret = "H2Pk8htyFD8024mZaPHm")

## Get statistics on age groups of visitors
communityDataAge <- vkGetGroupStatAge(date_from = "2016-01-01",
                                       date_to = "2016-04-01",
                                       group_id = 1,
                                       access_token = my_tok$access_token)

## End(Not run)
```

---

vkGetGroupStatCity      *Statistics of the Vkontakte community visitors by cities.*

---

**Description**

The function vkGetGroupStatCity allows you to get data about the city of community visitors by date.

**Usage**

```
vkGetGroupStatCity(
  date_from = Sys.Date() - 7,
  date_to = Sys.Date(),
  group_id = NULL,
  interval = "day",
  intervals_count = NULL,
  filters = NULL,
  stats_groups = c("visitors", "reach", "activity"),
  username = getOption("rvkstat.username"),
```

```

    api_version = getOption("rvkstat.api_version"),
    token_path  = vkTokenPath(),
    access_token = getOption("rvkstat.access_token")
  )

```

### Arguments

|                 |  |
|-----------------|--|
| date_from       | The starting date of the displayed statistics in the format YYYY-MM-DD.  |
| date_to         | The end date of the displayed statistics in the format YYYY-MM-DD.   |
| group_id        | Community ID.  |
| interval        | Time intervals. Possible values: day, week, month, year, all.  |
| intervals_count | Number of time intervals.  |
| filters         | A list of words separated by commas  |
| stats_groups    | Filter for getting data on a specific block of community statistics. Possible values: visitors, reach, activity. |
| username        | Your vkontakte login.  |
| api_version     | Vkontakte API version.   |
| token_path      | Path to dir with credentials   |
| access_token    | API access tokens obtained using vkAuth or vkGetToken functions  |

### Value

Date frame with statistics on community visitors with the following values:

|          |  |
|----------|--|
| Date     | date for which statistics is given.                        |
| Visitors | number of unique visitors.                                 |
| CityID   | city identifier or "other" for the "other cities" section. |
| CityName | city name.   |

### Author(s)

Alexey Seleznev

### References

Documentation for API method stats.get: <https://vk.com/dev/stats.get>

### Examples

```

## Not run:
## load statistic
communityDataCity <- vkGetGroupStatCity(
  date_from = "2016-01-01",
  date_to   = "2016-04-01",
  group_id = 1)

## End(Not run)

```

---

 vkGetGroupStatCountries

*Statistics of The Vkontakte Community Visitors By Country.*


---

## Description

Allows you to get data about the city of community visitors by date.

## Usage

```
vkGetGroupStatCountries(
    date_from    = Sys.Date() - 7,
    date_to      = Sys.Date(),
    group_id     = NULL,
    interval     = "day",
    intervals_count = NULL,
    filters      = NULL,
    stats_groups = c("visitors", "reach", "activity"),
    username     = getOption("rvkstat.username"),
    api_version  = getOption("rvkstat.api_version"),
    token_path   = vkTokenPath(),
    access_token = getOption("rvkstat.access_token")
)
```

## Arguments

|                 |  |
|-----------------|--|
| date_from       | The starting date of the displayed statistics in the format YYYY-MM-DD.  |
| date_to         | The end date of the displayed statistics in the format YYYY-MM-DD.   |
| group_id        | Community ID.  |
| interval        | Time intervals. Possible values: day, week, month, year, all.  |
| intervals_count | Number of time intervals.  |
| filters         | A list of words separated by commas  |
| stats_groups    | Filter for getting data on a specific block of community statistics. Possible values: visitors, reach, activity. |
| username        | Your vkontakte login.  |
| api_version     | Vkontakte API version.   |
| token_path      | Path to dir with credentials   |
| access_token    | API access tokens obtained using vkAuth or vkGetToken functions  |

**Value**

Date frame with statistics on community visitors with the following values:

|             |  |
|-------------|--|
| Date        | date for which statistics is given.          |
| Visitors    | number of unique visitors.                   |
| CountryID   | country identifier                           |
| CountryCode | two-letter country code (for example, "RU"). |
| CountryName | country name.                                |

**Author(s)**

Alexey Seleznev

**References**

Documentation for API method stats.get: <https://vk.com/dev/stats.get>

**Examples**

```
## Not run:
## auth
## load data
communityDataCountry <- vkGetGroupStatCountries(
  date_from = "2016-01-01",
  date_to = "2016-04-01",
  group_id = 1)

## End(Not run)
```

---

vkGetGroupStatGender    *Loading data by gender of the community visitors*

---

**Description**

Allows you to download data on the gender of community visitors by date.

**Usage**

```
vkGetGroupStatGender(
  date_from = Sys.Date() - 7,
  date_to = Sys.Date(),
  group_id = NULL,
  interval = "day",
  intervals_count = NULL,
  filters = NULL,
  stats_groups = c("visitors", "reach", "activity"),
  username = getOption("rvkstat.username"),
```

```

    api_version = getOption("rvkstat.api_version"),
    token_path  = vkTokenPath(),
    access_token = getOption("rvkstat.access_token")
  )

```

### Arguments

|                 |  |
|-----------------|--|
| date_from       | The starting date of the displayed statistics in the format YYYY-MM-DD.  |
| date_to         | The end date of the displayed statistics in the format YYYY-MM-DD.   |
| group_id        | Community ID.  |
| interval        | Time intervals. Possible values: day, week, month, year, all.  |
| intervals_count | Number of time intervals.  |
| filters         | A list of words separated by commas  |
| stats_groups    | Filter for getting data on a specific block of community statistics. Possible values: visitors, reach, activity. |
| username        | Your vkontakte login.  |
| api_version     | Vkontakte API version.   |
| token_path      | Path to dir with credentials   |
| access_token    | API access tokens obtained using vkAuth or vkGetToken functions  |

### Value

Date frame with statistics on community visitors with the following values:

1. Date the date for which statistics are given.
2. Visitors number of unique visitors.
3. Gender gender ("m" is male, "f" is female).

### Author(s)

Alexey Seleznev

### References

Documentation for API method stats.get: <https://vk.com/dev/stats.get>

### Examples

```

## Not run:
## auth
my_tok <- vkAuth(app_id = 1, app_secret = "H2Pk8htyFD8024mZaPHm")

## load data about users by gender
communityDataGender <- vkGetGroupStatGender(
  date_from = "2016-01-01",
  date_to = "2016-04-01",

```

```

        group_id = 1,
        access_token = my_tok$access_token)

## End(Not run)

```

---

vkGetGroupStatGenderAge

*Statistics on Age Groups And Gender of The 'VKontakte' Community.*

---

### Description

Provide to load to download statistics on the sex and age group of community visitors by date.

### Usage

```

vkGetGroupStatGenderAge(
  date_from = Sys.Date() - 7,
  date_to = Sys.Date(),
  group_id = NULL,
  interval = "day",
  intervals_count = NULL,
  filters = NULL,
  stats_groups = c("visitors", "reach", "activity"),
  username = getOption("rvkstat.username"),
  api_version = getOption("rvkstat.api_version"),
  token_path = vkTokenPath(),
  access_token = getOption("rvkstat.access_token")
)

```

### Arguments

|                 |  |
|-----------------|--|
| date_from       | The starting date of the displayed statistics in the format YYYY-MM-DD.  |
| date_to         | The end date of the displayed statistics in the format YYYY-MM-DD.   |
| group_id        | Community ID.  |
| interval        | Time intervals. Possible values: day, week, month, year, all.  |
| intervals_count | Number of time intervals.  |
| filters         | A list of words separated by commas  |
| stats_groups    | Filter for getting data on a specific block of community statistics. Possible values: visitors, reach, activity. |
| username        | Your vkontakte login.  |
| api_version     | Vkontakte API version.   |
| token_path      | Path to dir with credentials   |
| access_token    | API access tokens obtained using vkAuth or vkGetToken functions  |

**Value**

Date frame with statistics on community visitors with the following values:

1. Date           the date for which statistics are given.
2. Visitors       number of unique visitors.
3. Gender         gender ("m" is male, "f" is female).
4. AgeGroup      age interval.

**Author(s)**

Alexey Seleznev

**References**

Documentation for API method stats.get: <https://vk.com/dev/stats.get>

**Examples**

```
## Not run:
## Loading data by users by gender and age group
communityDataGenderAge <- vkGetGroupStatGenderAge(
  date_from = "2016-01-01",
  date_to = "2016-04-01",
  group_id = 1,
  access_token = my_tok$access_token)

## End(Not run)
```

---

vkGetGroupStatPostReach

*Statistics of Posts on The Community Wall.*

---

**Description**

Returns statistics for writing to the wall.

**Usage**

```
vkGetGroupStatPostReach(
  owner_id,
  post_ids,
  username = getOption("rvkstat.username"),
  api_version = getOption("rvkstat.api_version"),
  token_path = vkTokenPath(),
  access_token = getOption("rvkstat.access_token")
)
```

**Arguments**

|              |  |
|--------------|--|
| owner_id     | community ID - the owner of the entry. Indicated with a minus sign.  |
| post_ids     | vector containing record identifiers, please note - statistics data are available only for the 300 latest (most recent) posts on the community wall. |
| username     | Your vkontakte login.  |
| api_version  | Vkontakte API version.   |
| token_path   | Path to dir with credentials   |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions  |

**Details**

Statistics records are currently available only to communities with the number of participants from 5000 and above, as well as official communities.

Please note - statistics data are available only for the latest 300 (most recent) posts on the community wall. Common errors may occur during execution. Their description is on a separate page - <https://vk.com/dev/errors>.

**Value**

Date frame with the following values:

1. reach\_viral viral coverage (if recording was promoted with targeted advertising)
2. reach\_ads advertising reach (if the record was promoted using targeted advertising).
3. reach\_subscribers reach subscribers.
4. reach\_total total coverage.
5. links follow the link.
6. to\_group transitions to the community.
7. join\_group entry into the community.
8. report number of complaints about the record.
9. hide number of entries hiding.
10. unsubscribe number of unsubscribe members.
11. post\_id post id.

**Author(s)**

Alexey Seleznev

**References**

Documentation for API method stats.getPostReach: <https://vk.com/dev/stats.getPostReach>

**Examples**

```
## Not run:
## auth
my_tok <- vkAuth(app_id = 1,
                 app_secret = "H2Pk8htyFD8024mZaPHm")

## Get the list of community messages
my_vk_wall <- vkGetUserWall(user_id = -111111,
                            access_token = my_tok$access_token)

## Get sub-stats for the latest 300 community entries
post_reach <- vkGetGroupStatPostReach(owner_id = -2222222,
                                       post_ids = my_vk_wall$id,
                                       access_token = my_tok$access_token)

## End(Not run)
```

---

vkGetGroupToken

*Get the Access Key of Community 'Vkontakte'.*


---

**Description**

This key allows you to work with the API on behalf of a group, meeting or public page. For example, with its help you can respond to community subscribers to messages received in its address. With the community access key, you can call those methods that have a special mark in the general list (<https://vk.com/dev/methods>). The vkGetGroupToken function gets the community access key using the Implicit flow scheme ([https://vk.com/dev/implicit\\_flow\\_group](https://vk.com/dev/implicit_flow_group)).

**Usage**

```
vkGetGroupToken(
  app_id = getOption("rvkstat.app_id"),
  group_ids = NULL
)
```

**Arguments**

|           |   |
|-----------|---|
| app_id    | The ID of your Vkontakte application, which is located in the "Application ID" field in the application settings. |
| group_ids | A vector containing the ID of the groups to which you want to get an access code.                                 |

**Value**

Object containing a group access token

**Author(s)**

Alexey Seleznev

**Examples**

```
## Not run:
## Get vk api token, where 1 is the application ID,
## and 11,22,33 is the group ID.
myToken <- vkGetGroupToken(appId = 1,
                           group_ids = c(11,22,33))

## End(Not run)
```

---

vkGetToken

*Get vkontakte developer token*

---

**Description**

vkGetToken open web link in browser and generate developer token, which you need for work with vk.com api

**Usage**

```
vkGetToken(app_id = getOption("rvkstat.app_id"))
```

**Arguments**

app\_id            Your app id from filed in app page vkontakte.

**Value**

R object with vk.com token

**Author(s)**

Alexey Seleznev

**Examples**

```
## Not run:
## Get vk api token
myToken <- vkGetToken(app_id = "1")

## End(Not run)
```

---

 vkGetUserFriends      *Frend List in 'Vkontakte'*


---

### Description

Returns a list of user friends identifiers and extended information about the user's friends.

### Usage

```
vkGetUserFriends(
    user_id      = NULL,
    name_case    = "nom",
    username     = getOption("rvkstat.username"),
    api_version  = getOption("rvkstat.api_version"),
    token_path   = vkTokenPath(),
    access_token = getOption("rvkstat.access_token")
)
```

### Arguments

|              |   |
|--------------|---|
| user_id      | user ID for which you want to get a list of friends. If the parameter is not specified, it is considered that it is equal to the identifier of the current user.                        |
| name_case    | case for declining the user's first and last name. Possible values: nominative - nom, genitive - gen, dative - dat, accusative - acc, ablative - ins, prepositional - abl. Default nom. |
| username     | Your vkontakte login.   |
| api_version  | Vkontakte API version.  |
| token_path   | Path to dir with credentials  |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions   |

### Value

Date frame with community statistics with the following values:

|               |   |
|---------------|---|
| 1. user_id    | user id.  |
| 2. first_name | name.   |
| 3. last_name  | last name   |
| 4. gender     | sex.  |
| 5. nickname   | nickname of the user.   |
| 6. domain     | short page address. Returns a string containing the short address of the page (for example, andrew). If not assigned, it returns "id" + user_id, for example, id35828305. |
| 7. bdate      | date of birth. Returns in the format D.M.YYYY or D.M (if the year of birth is hidden). If the date of birth is hidden entirely, the field is absent in the answer.        |

8. city city id, city name can be obtained using the function vkGetDbCities.
9. country country id, country name can be obtained using the function vkGetDbCountries.
10. photo\_50 url of a square photo of a user having a width of 50 pixels. If the user does not have a photo, he returns [http://vk.com/images/camera\\_c.gif](http://vk.com/images/camera_c.gif).
11. photo\_100 url of a square photo of a user having a width of 100 pixels. If the user doesn't have a photo, he returns [http://vk.com/images/camera\\_b.gif](http://vk.com/images/camera_b.gif).
12. photo\_200\_orig url of a user photo that has a width of 200 pixels. If the user doesn't have a photo, he returns [http://vk.com/images/camera\\_a.gif](http://vk.com/images/camera_a.gif).
13. has\_mobile information about whether the user's mobile phone number is known. Return values: 1 - known, 0 - unknown.
14. online information about whether the user is currently online.
15. can\_post information about whether the current user can post on the wall. Possible values: 1 - can, 0 - can not.
16. can\_see\_all\_posts information about whether the current user can see someone else's posts on the wall. Possible values: 1 - can, 0 - can not.
17. can\_write\_private\_message information about whether the current user can send a private message. Possible values: 1 - can, 0 - can not.
18. status user status. Returns a string containing the text of the status located in the profile under the user name.
19. last\_seen\_time date and time of last visit.
20. last\_seen\_platform the type of platform through which the last entry was made. Possible values: 1 - mobile version, 2 - application for iPhone, 3 - application for iPad, 4 - application for Android, 5 - application for Windows Phone, 6 - application for Windows 10, 7 - full version of the site.
21. university university id.
22. university\_name university name.
23. faculty faculty id.
24. faculty\_name faculty name.
25. graduation graduation year.
26. education\_form learning form
27. education\_status status (for example, "Graduate (Specialist)")
28. relation marital status of the user. Possible values: 1 - not married / not married, 2 - have a friend / have a girlfriend, 3 - engaged / engaged, 4 - married / married, 5 - everything is difficult, 6 - in active search, 7 - in love / in love, 8 - in a civil marriage, 0 - not specified.

**Author(s)**

Alexey Seleznev

**References**Documentation for API method friends.get: <https://vk.com/dev/friends.get>**Examples**

```
## Not run:
## user list
my_vk_friends <- vkGetUserFriends(user_id = 7437995)

## End(Not run)
```

---

|                 |   |
|-----------------|---|
| vkGetUserGroups | <i>List of 'Vkontakte' communities.</i> |
|-----------------|---|

---

**Description**

Returns the list of communities for the specified user.

**Usage**

```
vkGetUserGroups(
  user_id = NULL,
  filter = NULL,
  username = getOption("rvkstat.username"),
  api_version = getOption("rvkstat.api_version"),
  token_path = vkTokenPath(),
  access_token = getOption("rvkstat.access_token")
)
```

**Arguments**

|              |   |
|--------------|---|
| user_id      | user ID for which you want to get a list of friends. If the parameter is not specified, it is considered that it is equal to the identifier of the current user.  |
| filter       | A list of community filters to be returned, separated by commas. The values are admin, editor, moder, groups, publics, events. By default, all user communities are returned. If the admin filter is specified, the communities in which the user is an administrator, editor - administrator or editor, moder - administrator, editor or moderator will be returned. |
| username     | Your vkontakte login.   |
| api_version  | Vkontakte API version.  |
| token_path   | Path to dir with credentials  |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions   |

**Value**

Date frame with community statistics with the following values:

|                   |  |
|-------------------|--|
| gid               | community id.  |
| name              | community name.  |
| screen_name       | short address, for example, apiclub.   |
| is_closed         | is the community closed. Possible values: 0 - open, 1 - closed, 2 - private  |
| type              | community type: group - group, page - public page, event - event.  |
| description       | community description text.  |
| wiki_page         | name of the main wiki page.  |
| members_count     | number of members.   |
| start_date        | date of foundation.  |
| can_post          | information about whether the current user can post on the community wall.<br>Possible values: 1 - can, 0 - can not.             |
| can_see_all_posts | information about whether it is allowed to see other people's posts on the group wall. Possible values: 1 - can, 0 - can not.    |
| activity          | public page status bar. For groups, a string value is returned, whether the group is open or not, and for events the start date. |
| status            | community status.  |
| fixed_post        | pinned post ID.  |
| verified          | information about whether the community is verified. Possible values: 1 - can, 0 - can not.                                      |
| site              | the address of the site from the "web site" field in the community description.  |
| can_create_topic  | information on whether the current user can create a new discussion in the group.<br>Possible values: 1 - can, 0 - can not.      |
| photo             | URL of the main photo with a size of 50x50px.  |
| photo_medium      | URL of the main photo with a size of 100x100px.  |
| photo_big         | The URL of the main photo in the maximum size.   |

**Author(s)**

Alexey Seleznev

**References**

Documentation for API method groups.get: <https://vk.com/dev/groups.get>

**Examples**

```
## Not run:
## auth
my_tok <- vkAuth(app_id = 1, app_secret = "H2Pk8htyFD8024mZaPHm")

## get groups
my_vk_community <- vkGetUserGroups(user_id = 7437995,
                                   access_token = my_tok$access_token)

## End(Not run)
```

---

vkGetUserWall

*Get Posts From Userwall.*


---

**Description**

Return posts list from userwall 'Vkontakte'.

**Usage**

```
vkGetUserWall(
  user_id      = NULL,
  domain      = NULL,
  filter      = NULL,
  username    = getOption("rvkstat.username"),
  api_version = getOption("rvkstat.api_version"),
  token_path  = vkTokenPath(),
  access_token = getOption("rvkstat.access_token")
)
```

**Arguments**

|              |  |
|--------------|--|
| user_id      | user ID for which you want to get a list of friends. If the parameter is not specified, it is considered that it is equal to the identifier of the current user.   |
| domain       | short address of user or community.  |
| filter       | determines what types of posts on the wall should be received. Possible values: suggests — suggested entries on the community wall, postponed — deferred entries, owner — owner wall entries, others — not wall owner entries, all — all entries on the wall (owner + others), Default: all. |
| username     | Your vkontakte login.  |
| api_version  | Vkontakte API version.   |
| token_path   | Path to dir with credentials   |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions  |

**Value**

Date frame with the following values:

1. `id` record ID.
2. `from_id` identifier of the post author.
3. `to_id` identifier of the owner of the wall on which the entry is placed.
4. `date` post publication time
5. `post_type` record type, can be one of the following values: post, copy, reply, postpone, suggest.
6. `text` text entry.
7. `can_delete` information about whether the current user can delete a post (1 — maybe, 0 — cannot).
8. `comments_count`  
number of comments.
9. `likes_count` the number of users who liked the post.
10. `reposts_count`  
number of users who copied the record.
11. `attachment_type`  
type of media attachment of the record (photos, links, etc.)

**Author(s)**

Alexey Seleznev

**References**

Documentation for API method wall.get: <https://vk.com/dev/wall.get>

**Examples**

```
## Not run:
## auth
my_tok <- vkAuth(app_id = 1, app_secret = "H2Pk8htyFD8024mZaPHm")

## get posts
my_vk_wall <- vkGetUserWall(user_id = 7437995,
                             access_token = my_tok$access_token)

## End(Not run)
```

vkLoadToken                    *Load vkontakte developer token*

---

**Description**

vkLoadToken load your developer token, which you need for work with vk.com api

**Usage**

```
vkLoadToken()
```

**Value**

R object with vk.com token

**Author(s)**

Alexey Seleznev

**Examples**

```
## Not run:  
##---- Get token from work directory  
myToken <- vkLoadToken()  
  
## End(Not run)
```

---

vkSetters                    *Set rvkstat options*

---

**Description**

Helper function for settings options: username, account\_id, agency\_id, access\_token, token\_path and console log level

**Usage**

```
vkSetUsername(username)  
vkSetAccountId(account_id)  
vkSetAgencyId(agency_id)  
vkSetAccessToken(access_token)  
vkSetTokenPath(token_path)  
vkSetThreshold(  
  level = c("info", "fatal",  
          "error", "warn",  
          "debug", "trace")  
)
```

**Arguments**

|              |   |
|--------------|---|
| username     | Your vkontakte login.   |
| account_id   | Ads account Id.   |
| agency_id    | Agency account Id.  |
| token_path   | Path to dir with credentials  |
| access_token | API access tokens obtained using vkAuth or vkGetToken functions                           |
| level        | Console log information level, one of: "info", "fatal", "error", "warn", "debug", "trace" |

**Author(s)**

Alexey Seleznev

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