# slackr:: CHEAT SHEET

Send files, messages, R objects, and images to Slack directly from R



### Installation

#### **CRAN** version

install.packages("slackr")

**Development version** 

devtools::install\_github("mrkaye97/slackr")

## Setup

- i. Go to https://api.slack.com/apps
- i. Click "Create New App" and then follow the setup instructions

#### **Multi-channel bot**

- 1. Click "OAuth & Permissions" under "Features"
- 2. Enable the following scopes in order to get all of the functionality:
  - channels:read
  - chat:write
  - users:read
  - chat:write.customize
  - files:read
  - chat:write.public
  - groups:read
  - im:write
  - groups:write
  - incoming-webhook
  - channels:history
- 3. Click "Install to Workspace"
- 4. Select a channel (for webhook messages)
- 5. Copy the Bot User OAuth Access Token
- 6. Click "Incoming Webhooks" under "Features"
- 7. Copy the Webhook URL

#### Single-channel bot

- 1. Click "Incoming "Webhooks" under "Features"
- 2. Turn the "Activate Incoming Webhooks" switch on
- 3. Click "Add New Webhook to Workspace"
- 4. Select the channel you'd like the bot to post to
- 5. Copy the Webhook URL

#### Setup environment variables for Slack API access

#### **Common Functions** Post a ggplot to a Slack channel ggslackr( plot = last\_plot(), channels = Sys.getenv("SLACK CHANNEL"), scale = 1.width = par("din")[1], height = par("din")[2], units = c("in", "cm", "mm"), dpi = 300,limitsize = TRUE, bot\_user\_oauth\_token = Sys.getenv("SLACK\_BOT\_USER\_OAUTH\_TOKEN"), file = "ggplot", Save R objects to an RData file on Slack save\_slackr( channels = Sys.getenv("SLACK\_CHANNEL"), file = "slackr", bot\_user\_oauth\_token = Sys.getenv("SLACK\_BOT\_USER\_OAUTH\_TOKEN"), plot\_text = "" Send result of R expressions to a Slack channel via webhook API slackr bot( channel = "" username = "" icon\_emoji = "" incoming\_webhook\_url = Sys.getenv("SLACK\_INCOMING\_URL PREFIX") Delete the specified number of messages from the channel slackr\_delete( count. channel = Sys.getenv("SLACK\_CHANNEL"), bot\_user\_oauth\_token = Sys.getenv("SLACK\_BOT\_USER\_OAUTH\_TOKEN") Send a message to a Slack channel slackr msq( channel = Sys.getenv("SLACK\_CHANNEL"), username = Sys.getenv("SLACK\_USERNAME"); icon\_emoji = Sys.getenv("SLACK\_ICON\_EMOJI"), bot\_user\_oauth\_token = Sys.getenv("SLACK\_BOT\_USER\_OAUTH\_TOKEN"), Send a file to Slack slackr\_upload( filename, title = basename(filename), initial\_comment = basename(filename), channels = Sys.getenv("SLACK\_CHANNEL"), bot user oauth token =

```
Other Usages
                                    Checks authentication & identity
auth test()
                                    against the Slack API
                                    A wrapper function to call the Slack
call_slack_api()
                                    API with authentication and
                                    pagination
                                    Convert Slack API json response to
convert_response_to_tibble()
                                    tibble
                                    Append text_slackr as on.exit to
register onexit()
                                    functions
                                    Create a cache of the users and
slackr census fun()
                                    channels in the workspace in order
                                    to limit API requests
slackr_channels()
                                    Get a data frame of Slack channels
                                    Translate vector of channel names
slackr chtrans()
                                    to channel IDs for API
                                    Send the graphics contents of the
slackr_dev()
                                    current device to a Slack channel
slackr_history()
                                    Reads history of a channel
slackr ims()
                                    Get a data frame of Slack IM IDs
slackr users()
                                    Get a data frame of Slack users
text_slackr()
                                    Sends basic text to a slack channel
tex_slackr()
                                    Post a tex output to a Slack channel
                                    Calls the slack API with pagination
with_pagination()
                                    using cursors
```

# Vignettes

Creating a single-channel bot
vignette('webhook-setup', package = 'slackr')
Creating a fully-functional multi-channel bot
vignette('scoped-bot-setup', package = 'slackr')
Usage
vignette('using-slackr', package = 'slackr')

Sys.getenv("SLACK\_BOT\_USER\_OAUTH\_TOKEN")