

# Git Fork Charts

Find the most active version(s) of a GitHub project fork by analyzing the number of commits.

```
library(httr)
library(httpuv)
library(jsonlite)

##
## Attaching package: 'jsonlite'
##
## The following object is masked from 'package:utils':
##
##      View

# Read Client Id and Client Secret for my github application
github_props <- read.table("github_application.properties",
                           header = FALSE,
                           sep = "=",
                           row.names = 1,
                           strip.white = TRUE,
                           stringsAsFactors = FALSE)

# Register an application with github and look it up with the credentials provided
myapp <- oauth_app("github",
                  key = github_props[["clientId", 1]],
                  secret = github_props[["clientSecret", 1]])

# Get OAuth credentials
github_token <- oauth2.0_token(oauth_endpoints("github"), myapp)

# as an example
list_forks_url <- "https://api.github.com/repos/denniskaselow/dartemis/forks"

# Query github with token
gtoken <- config(token = github_token)
req <- GET(list_forks_url, gtoken)
stop_for_status(req)
content <- content(req)

# Read JSON from response
json <- fromJSON(toJSON(content))

json$commits_url

## [[1]]
## [1] "https://api.github.com/repos/davidB/dartemis/commits{/sha}"
##
## [[2]]
## [1] "https://api.github.com/repos/financeCoding/dartemis/commits{/sha}"
```