

Usage data

As specified in our [use terms](#) we do not store user data. However we do store some usage data. In the table loaded below, emails and packages are unidentified – but you can know whether an email or package comes up several times.

```
builds <- tibble::as_tibble(readRDS(my_not_portable_path))
builds

## # A tibble: 84,996 x 8
##   email package platform status submitted      started
##
## 1 9a16... b64e51... windows... error 2018-03-15 07:23:17 NA
## 2 9a16... b64e51... macos-e... ok    2018-03-16 05:44:39 2018-03-16 05:44:43
## 3 9a16... b64e51... debian-... ok    2018-03-16 05:48:19 2018-03-16 05:48:24
## 4 9a16... b64e51... windows... ok    2018-03-16 06:03:35 NA
## 5 9a16... b64e51... linux-x... ok    2018-03-16 06:05:23 2018-03-16 06:05:28
## 6 9a16... b64e51... ubuntu-... ok    2018-03-16 06:09:44 2018-03-16 06:09:49
## 7 9a16... b64e51... debian-... ok    2018-03-16 06:25:04 2018-03-16 06:25:08
## 8 9a16... b64e51... debian-... ok    2018-03-16 06:36:19 2018-03-16 06:36:24
## 9 9a16... b64e51... debian-... ok    2018-03-16 06:43:25 2018-03-16 06:43:29
## 10 9a16... b64e51... windows... error 2018-03-16 06:57:38 NA
## # ... with 84,986 more rows, and 2 more variables: build_time , ui
```

A recent increase in usage

Towards 1,000 builds a week?

```
library("ggplot2")
library("magrittr")
dplyr::mutate(builds,
               week = as.Date(cut(submitted, "week"))) %>%
  dplyr::count(week) %>%
  ggplot(aes(week, n)) +
    geom_point() +
    geom_smooth() +
    ylab("No. of buids") +
    xlab("Time (weeks)") +
    hrbrthemes::theme_ipsum(base_size = 16,
                             axis_title_size = 16)

## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```

Weekly count of builds on R-hub package builder, showing an slow increase until mid 2018 then a steeper increase to a little less than 1,000 builds a week

Figure 1: Weekly count of builds on R-hub package builder, showing an slow increase until mid 2018 then a steeper increase to a little less than 1,000 builds a week

When plotting the weekly count of builds as below, it is quite clear that usage stepped up at the end of last year. A delayed effect of the [RStudio webinar about R-hub?](#)

Number of unique packages built per week

```
dplyr::mutate(builds,
               week = as.Date(cut(submitted, "week"))) %>%
  dplyr::group_by(week) %>%
  dplyr::summarise(n = length(unique(package))) %>%
```

```
ggplot(aes(week, n)) +
  geom_point() +
  ylab("No. of packages built") +
  xlab("Time (weeks)") +
  geom_smooth() +
  hrbrthemes::theme_ipsum(base_size = 16,
                           axis_title_size = 16)

## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```

Weekly count of builds on R-hub package builder, showing an increase, then a stagnation in 2018, then a steeper increase since the end of 2018, to about 125 packages a week. Some weeks have a surprising high number of packages built.

Figure 2: Weekly count of builds on R-hub package builder, showing an increase, then a stagnation in 2018, then a steeper increase since the end of 2018, to about 125 packages a week. Some weeks have a surprising high number of packages built.

The number of unique packages built mostly follow the number of builds apart from a stagnation last year.

Number of unique users per week

What about the number of users?

```
dplyr::mutate(builds,
              week = as.Date(cut(submitted, "week"))) %>%
  dplyr::group_by(week) %>%
  dplyr::summarise(n = length(unique(email))) %>%
ggplot(aes(week, n)) +
  geom_point() +
  geom_smooth() +
  ylab("No. of distinct email addresses") +
  xlab("Time (weeks)") +
  hrbrthemes::theme_ipsum(base_size = 16,
                           axis_title_size = 16)

## `geom_smooth()` using method = 'loess' and formula 'y ~ x'
```

Weekly count of builds on R-hub package builder, showing an slow increase until mid 2018 then a steeper increase to a bit more than 100 users a week

Figure 3: Weekly count of builds on R-hub package builder, showing an slow increase until mid 2018 then a steeper increase to a bit more than 100 users a week

So all in all, the R-hub package builder is serving more and more users and packages.

Platform usage

Choosing a platform or platforms for your package check might seem daunting. Luckily we've written up [some guidance in our docs!](#)

Most frequently used platforms

```
builds %>%
  dplyr::count(platform, sort = TRUE) %>%
  head(n = 7) %>%
  knitr::kable()
```

platform	n
ubuntu-gcc-release	18554
windows-x86_64-devel	15890

platform	n
fedora-clang-devel	15220
linux-x86_64-rocker-gcc-san	5778
debian-gcc-devel	4083
windows-x86_64-release	4008
macos-elcapitan-release	2942

The most frequently used platforms reflect the default platforms (ubuntu-gcc-release for the web interface), including the default platforms mix for `rhub::check_for_cran()` (windows-x86_64-devel, ubuntu-gcc-release, fedora-clang-devel and if the package needs compilation linux-x86_64-rocker-gcc-san).

Newest platforms

What platforms were added to the pool this year?

```
builds %>%
  dplyr::group_by(platform) %>%
  dplyr::filter(lubridate::year(as.Date(min(submitted))) == 2019) %>%
  dplyr::summarise(first = as.Date(min(submitted))) %>%
  knitr::kable()
```

platform	first
debian-clang-devel	2019-04-12
debian-gcc-devel-nold	2019-05-16
windows-x86_64-devel-rtools4	2019-03-01

The youngest platforms are [r-devel-linux-x86_64-debian-clang](#) and its special encoding, a noLD platform, the [experimental Windows Rtools4.0](#) platform.

Web interface or R package?

Although R-hub package builder has a working web interface, we [recommend using the rhub package for submitting builds](#). Since March this year, for builds we record whether they were submitted via the web interface or the package.

```
(ui <- table(builds$ui))

##
##   api   web
## 29374  2026
```

So, 93.5% of builds were submitted via the [rhub package](#). Great!

Conclusion

In this post we presented a few figures underlining the growth in R-hub usage, and the variety of platforms used for checking packages – one of [R-hub's selling points](#). In total, over time, the R-hub package builder has been used by 2507 users for 4418 packages. For comparison at the time of writing there are 15357 packages on CRAN.