Building a package that lasts

Part 6: Continuous integration

Why use Travis?

- To save time (again)!
- Make sure the package is tested regularly
- Have a shareable test report
- Guarantee the stability of the project

Travis in my project

To use Travis:

```
usethis::use_travis()
```

Notes:

- The package must first be connected to Github
- The use of Travis is free for Open Source projects (i.e. that are on Github)
- With a "pro" plan you can use Travis on private rests

What's Travis?

Travis https://travis-ci.org/ is a continuous integration service that will perform a check whenever you commit on GitHub.

Configuration

The {usethis} command automatically generates the travis configuration file:

```
> usethis::use_travis()

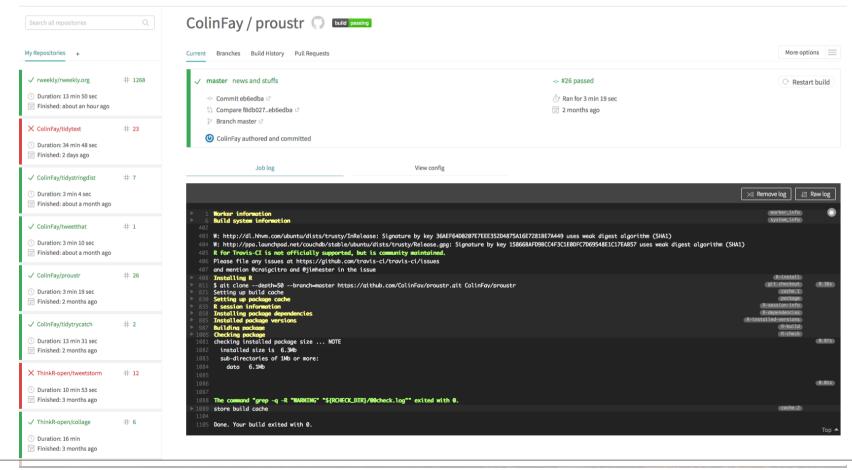
V Writing '.travis.yml'

Adding '^\\.travis\\.yml$' to '.Rbuildignore'

Add a Travis build status badge by adding the following line to your README:
Copying code to clipboard:
  [![Travis build status](https://travis-ci.org/ColinFay/languagelayeR.svg?branch=master)](https://travis-ci.org/ColinFay/languagelayeR)

Turn on travis for your repo at https://travis-ci.org/ColinFay/languagelayeR
```

Travis



Yaml configuration

If the DESCRIPTION file contains all the necessary information, the yaml can be as simple as :

```
language: r
```

The cache: packages specification speeds up the build.

We can test on several versions of R by specifying:

```
r:
oldrel
release
devel
```

You can request the installation of specific elements, like Pandoc versions, or apt packages:

```
addons:
    apt:
     packages:
        libxml2-dev
```

AppVeyor

```
usethis::use_appveyor()
```

AppVeyor is a continuous integration service that integrates with a larger number of services:

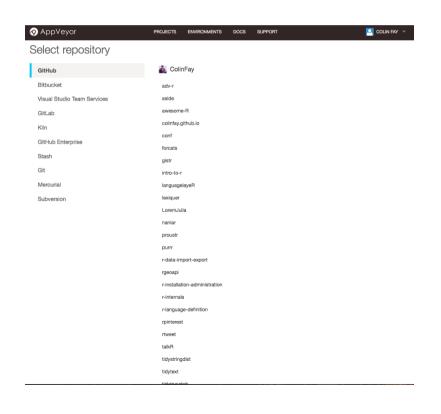
- Github
- Gitlab
- Git
- Visual Studio
- Subversion

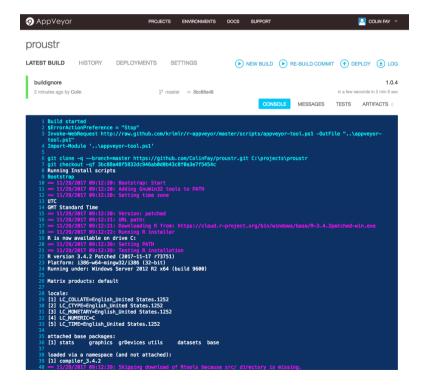
Notes: the free plan "only" allows to cover Open Source projects.

```
usethis::use_appveyor()
  Writing 'appveyor.yml'
 Adding '^appveyor\\.yml$' to '.Rbuildignore'
 Turn on AppVeyor for this repo at https://ci.appveyor.com/projects
 Add an AppVeyor shield to your README.md:
Copying code to clipboard:
  [![AppVeyor Build Status](https://ci.appveyor.com/api/projects/status/github/ColinFay/proustr?branch=master&svg=true)]
```

AppVeyor

Log in on https://ci.appveyor.com/, select a project, and launch "New Build":





Let's practice!

