

A large, fluffy chicken is in a small boat on a dark, stormy sea. The chicken has its beak open as if it's shouting or calling. The background is a dark, turbulent ocean with white-capped waves under a grey, overcast sky. The overall mood is one of chaos and urgency.

Basic R Automation RBelgium

Brussels, May 2018

Jan Wijffels

BNOSAC - jwijffels@bnosac.be



Overzicht

1 BNOSAC R consultancy

2 taskscheduleR - cronR

3 Contact

BNOSAC R consultancy

www.bnosac.be: R & open source analytics experts

Providing consultancy services in **open source analytical engineering**

- ▶ Support for R / Oracle R Enterprise / Microsoft R / PostgreSQL / Python / ExtJS / Hadoop / ...
- ▶ Expertise in predictive data mining, biostatistics, geostats, R + Python programming, GUI building, artificial intelligence, process automation, analytical web development
- ▶ R implementations, application maintenance & training/consulting
- ▶ RStudio Server Pro / Shiny Pro / RStudio Connect reseller
- ▶ Organise & support RBelgium
- ▶ Hosting CRAN at www.datataylor.be
- ▶ Contributing to the R community with R packages / R training

BNOSAC :: OPEN ANALYTICAL HELPERS

BNOSAC provides expertise in statistical modelling, data science, text mining, web scraping, biostatistics, statistical web development and integration services regarding data analytics. It supports all facets of the usage of data analytics at the enterprise. From adhoc analysis to tailor made & integrated solutions. We help set up the best working conditions for data scientists, get them up to speed with training and provide solutions to speed up deployment.



Statistical Services



Data Science



Solutions & Products



In-house training



R support by BNOSAC

WE SUPPORT R USAGE AT YOUR ENTERPRISE

BNOSAC gives support for all facets of the usage of R at your enterprise. We help set up the best working conditions for R users, get them up to speed with training and provide solutions to speed up deployment. For small startups to big corporations or governments.



RStudio Pro & Shiny Pro
reseller



Oracle R Enterprise
support



Continuous integration &
deployment for R users



Inhouse R training &
package development

Figure: R support by BNOSAC

R training by BNOSAC: www.bnosac.be/training

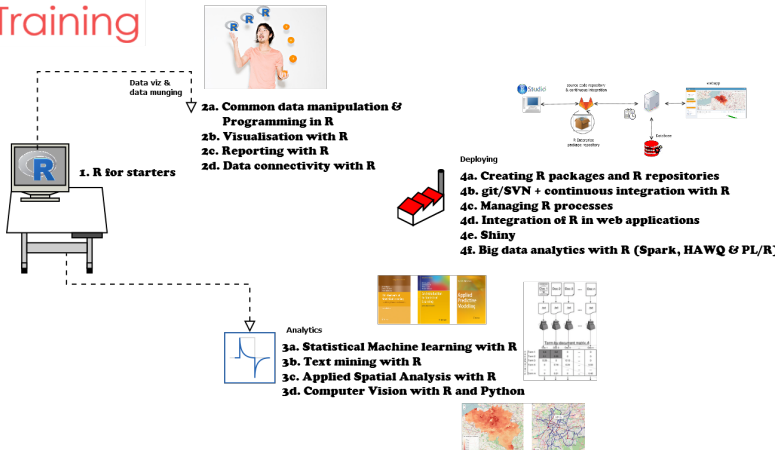


Figure: Training on R / Data Science

taskscheduleR - cronR

Basic tooling in order to automate R processes

- ▶ Scheduling R processes on Linux or Windows
- ▶ Use cases:
 - ▶ Automate a data flow
 - ▶ Simple report automation
 - ▶ For RStudio desktop or RStudio server
 - ▶ No IT intervention - DIY



Figure: Scheduling

On Windows

- ▶ <https://github.com/bnosac/taskscheduleR>
- ▶ Using RStudio-addin or just plain R
- ▶ **Interface to the Windows task scheduler**
 - ▶ Get the list of scheduled tasks
 - ▶ Add a task and Remove a task
 - ▶ A task is basically a script with R code which is run through Rscript
 - ▶ You can schedule tasks at timepoints you like
 - ▶ The task log contains the stdout & stderr of the Rscript which was run on that timepoint.

bnosac / taskscheduleR

Unwatch 23 Star 154 Fork 41

Code Issues 6 Pull requests 0 Projects 0 Wiki Insights Settings

Schedule R scripts/processes with the Windows task scheduler. Edit

rstudio r scheduled-tasks task-scheduler schtasks Manage topics

44 commits 1 branch 1 release 2 contributors

Branch: master New pull request Create new file Upload files Find file Clone or download

	Latest commit	7 days ago
R	Allow to specify specific days per week or month	7 days ago
inst	Allow to specify specific days per week or month	7 days ago
man	Allow to specify specific days per week or month	7 days ago
tests	if fread fails, use backup procedure using read.csv	a year ago
vignettes	Allow to specify specific days per week or month	7 days ago
.Rbuildignore	Upload package	2 years ago
.gitignore	Upload package	2 years ago
DESCRIPTION	Allow to specify specific days per week or month	7 days ago
NAMESPACE	if fread fails, use backup procedure using read.csv	a year ago
README.md	Allow to specify specific days per week or month	7 days ago
taskscheduleR.Rproj	Upload package	2 years ago

On Linux

- ▶ <https://github.com/bnosac/cronR>
- ▶ Using RStudio-addin or just plain R
- ▶ **Interface to the cron scheduler**

Cancel Use cron to schedule your R script Done

Choose your Rscript

Select file

Selected Rscript

/home/jwiiffels/mycode.R

Launch date:

2018-03-07

Launch hour:

11:39

Schedule:

☐ ONCE

☐ EVERY MINUTE

☐ EVERY HOUR

☐ EVERY DAY

☐ EVERY WEEK

☐ EVERY MONTH

☒ ASIS

ASIS cron schedule

* / 15 * * * *

Job description

I get data from productxyz

Job tags

hello world

Additional arguments to Rscript

arg1 arg2 productxyz

Job identifier

job_63b543ab33e4494462c

Rscript repository path:
launch & log location

/home/bnosac

Create job

 Upload and create new jobs

 Manage existing jobs

Contact

Need support, send a message at www.bnosac.be/index.php/contact/get-in-touch

OFFICE ADDRESS



The bnosac office is located in

- la Lustrerie Business Center - <http://www.lalustrerie.be>
- Paleizenstraat 153, 1030 Brussels, Belgium
- close to Gare du Nord in Brussels
- email: [info \[at\] bnosac \[dot\] be](mailto:info@bnosac.be)

Figure: Contact www.bnosac.be