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taskscheduleR

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taskscheduleR

Schedule R scripts/processes with the Windows task scheduler. This allows R users working on Windows to automate R processes on specific timepoints from R itself.

Basic usage

The package allows to

- Get the list of scheduled tasks
- Remove a task
- Add a task
 - A task is basically a script with R code which is run through Rscript
 - You can schedule tasks 'ONCE', 'MONTHLY', 'WEEKLY', 'DAILY', 'HOURLY', 'MINUTE', 'ONLOGON', 'ONIDLE'
 - The task log contains the stdout & stderr of the Rscript which was run on that timepoint. This log can be found at the same folder as the R script

Example usage:

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```
schedule = "MINUTE", starttime = "10:40", modifier = 5)
## Run every minute, giving some command line arguments
taskscheduler_create(taskname = "myfancyscript_withargs_a", rscript = myscript,
                     schedule = "MINUTE", rscript_args = "productxyz 20160101")
taskscheduler create(taskname = "myfancyscript withargs b", rscript = myscript,
                     schedule = "MINUTE", rscript args = c("productabc", "20150101"))
## get a data.frame of all tasks
tasks <- taskscheduler ls()</pre>
str(tasks)
## delete the tasks
taskscheduler_delete(taskname = "myfancyscript")
taskscheduler delete(taskname = "myfancyscriptdaily")
taskscheduler delete(taskname = "myfancyscript sunsat")
taskscheduler_delete(taskname = "myfancyscript_5min")
taskscheduler delete(taskname = "myfancyscript withargs a")
taskscheduler_delete(taskname = "myfancyscript_withargs_b")
```

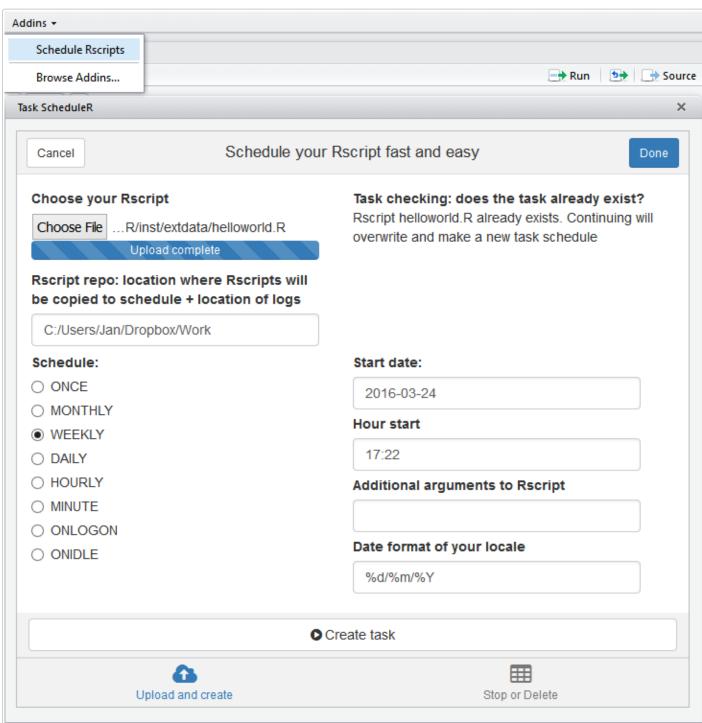
When the task has run, you can look at the log which contains everything from stdout and stderr. The log file is located at the directory where the R script is located.

```
## log file is at the place where the helloworld.R script was located
system.file("extdata", "helloworld.log", package = "taskscheduleR")
```

RStudio addin

If you work with RStudio as editor, you can also just use the RStudio addin. In recent versions of RStudio (0.99.893 or later), select Addins and next select 'Schedule R scripts on Windows'. This will allow you to select a script to be scheduled at your specified timepoints. The script will be copied to the Rscript repo folder and will be launched from there each time.

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