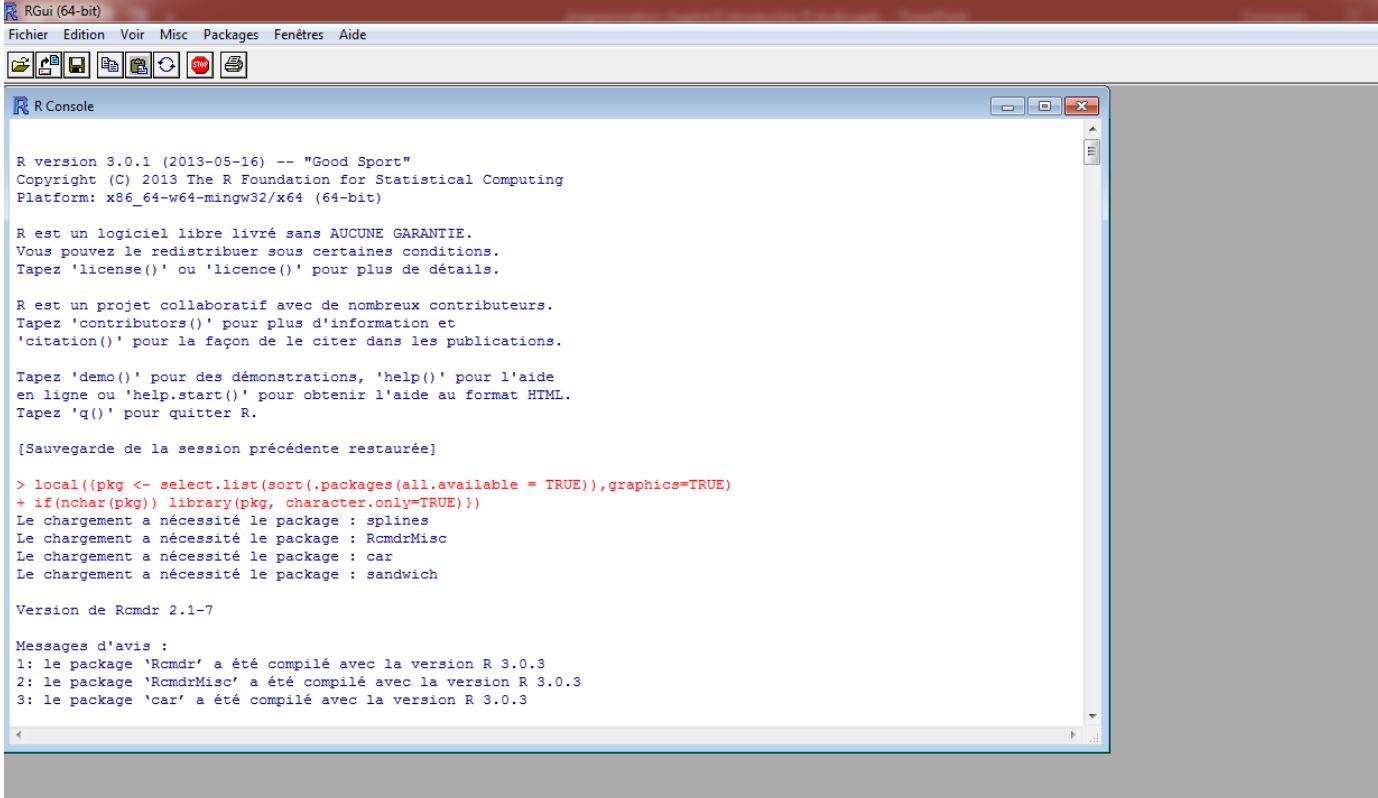




Introduction à l'environnement intégré de développement Rstudio

Console R classique



The screenshot shows the RGui (64-bit) window with a menu bar (Fichier, Edition, Voir, Misc, Packages, Fenêtres, Aide) and a toolbar. The R Console window is open, displaying the following text:

```
R version 3.0.1 (2013-05-16) -- "Good Sport"
Copyright (C) 2013 The R Foundation for Statistical Computing
Platform: x86_64-w64-mingw32/x64 (64-bit)

R est un logiciel libre livré sans AUCUNE GARANTIE.
Vous pouvez le redistribuer sous certaines conditions.
Tapez 'license()' ou 'licence()' pour plus de détails.

R est un projet collaboratif avec de nombreux contributeurs.
Tapez 'contributors()' pour plus d'information et
'citation()' pour la façon de le citer dans les publications.

Tapez 'demo()' pour des démonstrations, 'help()' pour l'aide
en ligne ou 'help.start()' pour obtenir l'aide au format HTML.
Tapez 'q()' pour quitter R.

[Sauvegarde de la session précédente restaurée]

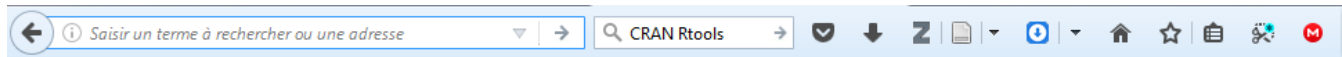
> local((pkg <- select.list(sort(.packages(all.available = TRUE)),graphics=TRUE)
+ if(nchar(pkg)) library(pkg, character.only=TRUE)))
Le chargement a nécessité le package : splines
Le chargement a nécessité le package : RcmdrMisc
Le chargement a nécessité le package : car
Le chargement a nécessité le package : sandwich

Version de Rcmdr 2.1-7

Messages d'avis :
1: le package 'Rcmdr' a été compilé avec la version R 3.0.3
2: le package 'RcmdrMisc' a été compilé avec la version R 3.0.3
3: le package 'car' a été compilé avec la version R 3.0.3
```

Installation de Rtools correspondant à la version R

<https://cran.r-project.org/bin/windows/Rtools/>



Building R for Windows

This document is a collection of resources for building packages for R under Microsoft Windows, or for building R itself (version 1.9.0 or later). The original collection was put together by Prof. Brian Ripley; it is currently being maintained by Duncan Murdoch.

The authoritative source of information for tools to work with the current release of R is the "R Administration and Installation" manual. In particular, please read the ["Windows Toolset" appendix](#).

Rtools Downloads

Some of the tools are incompatible with obsolete versions of R. We maintain one actively updated version of the tools, and other "frozen" snapshots of them. We recommend that users use the latest release of Rtools with the latest release of R.

The current version of this file is recorded here: [VERSION.txt](#).

Download	R compatibility	Frozen?
Rtools34.exe	R 3.3.x and later	No
Rtools33.exe	R 3.2.x to 3.3.x	Yes
Rtools32.exe	R 3.1.x to 3.2.x	Yes
Rtools31.exe	R 3.0.x to 3.1.x	Yes
Rtools30.exe	R >2.15.1 to R 3.0.x	Yes
Rtools215.exe	R >2.14.1 to R 2.15.1	Yes
Rtools214.exe	R 2.13.x to R 2.14.x	Yes

Rtools comprends les éléments nécessaires à la compilation

Installer Rstudio Desktop open source

<https://www.rstudio.com/products/rstudio/download/>



[rstudio::conf](#)

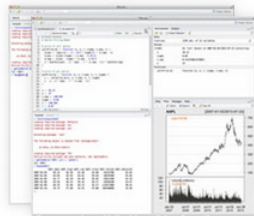
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Choose Your Version of RStudio

RStudio is a set of integrated tools designed to help you be more productive with R. It includes a console, syntax-highlighting editor that supports direct code execution, and a variety of robust tools for plotting, viewing history, debugging and managing your workspace. [Learn More about RStudio features.](#)

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Commercial License

\$995 per year

BUY

RStudio Server
Open Source License

FREE

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RStudio Server Pro
Commercial License

\$9,995 per year

DOWNLOAD

RStudio Server Pro +
RStudio Connect
Commercial License

\$29,995 per
year

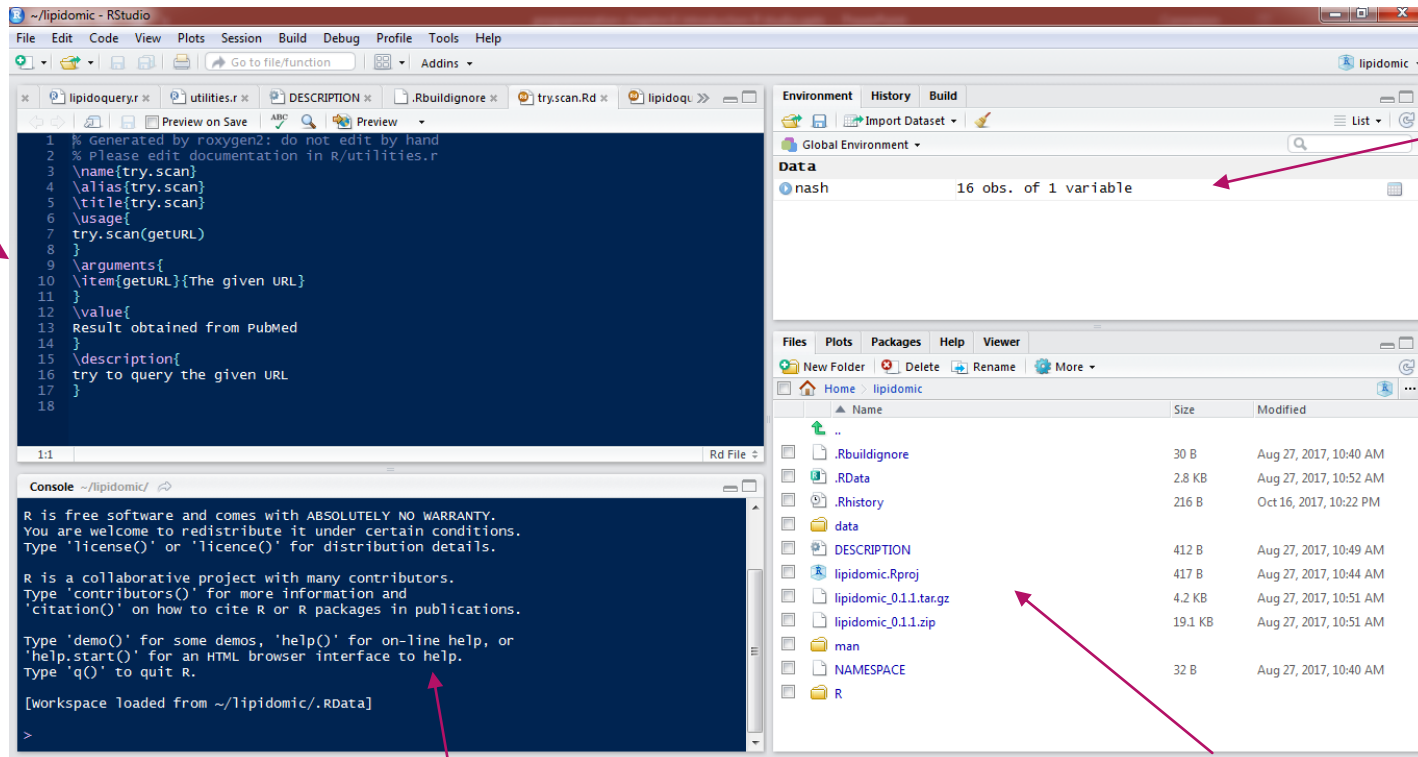
TALK

<https://www.rstudio.com/products/rstudio/download/#download>

Rstudio

script

data



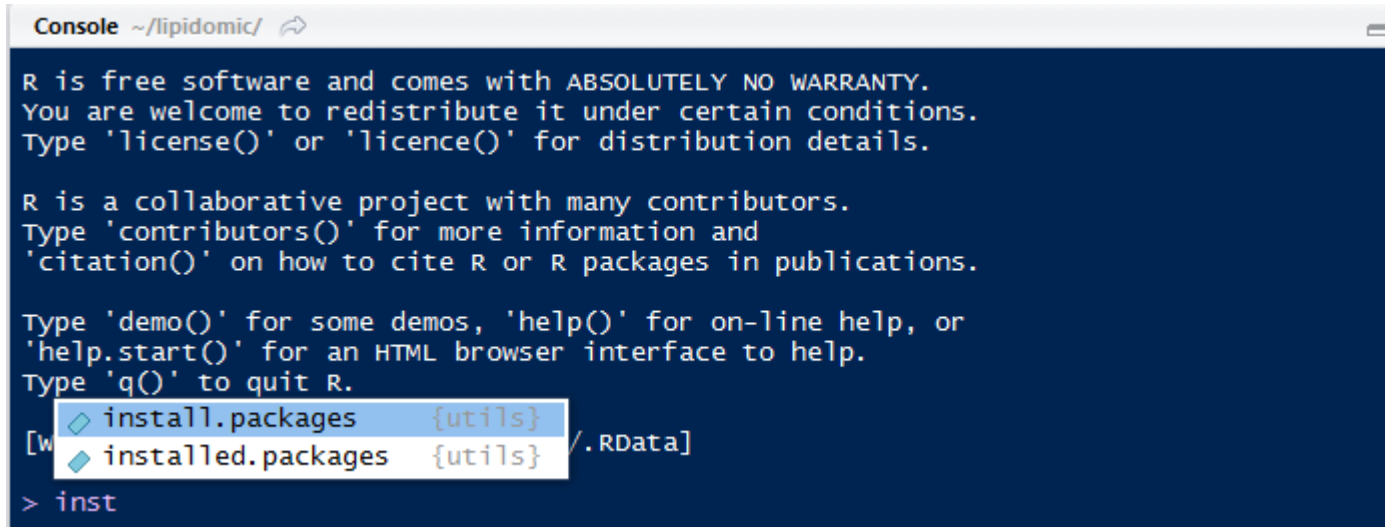
R console

Files in folder
Package explorer
Graph export

Complétion de code dans Rstudio

Commencer à taper « inst » dans la console puis enfoncer la touche « Tab »

Rstudio propose les options possibles = COMPLETION

A screenshot of the R console window in RStudio. The window title is 'Console ~/lipidomic/'. The console text includes the R welcome message, instructions on how to use R, and a list of suggested packages for installation. The user has typed '> inst' and a dropdown menu is showing two suggestions: 'install.packages {utils}' and 'installed.packages {utils}'. The first suggestion is highlighted.

```
Console ~/lipidomic/

R is free software and comes with ABSOLUTELY NO WARRANTY.
You are welcome to redistribute it under certain conditions.
Type 'license()' or 'licence()' for distribution details.

R is a collaborative project with many contributors.
Type 'contributors()' for more information and
'citation()' on how to cite R or R packages in publications.

Type 'demo()' for some demos, 'help()' for on-line help, or
'help.start()' for an HTML browser interface to help.
Type 'q()' to quit R.

[?] install.packages {utils}
     installed.packages {utils}
> inst
```

R-packages à installer pour programmation dans Rstudio

Utilitaires de programmation

devtools

Langage minimal pour écriture
De documents dans R

rmarkdown

knitr

Test de précompilation

testthat

Utilitaire pluri-langage pour
Edition document dans R

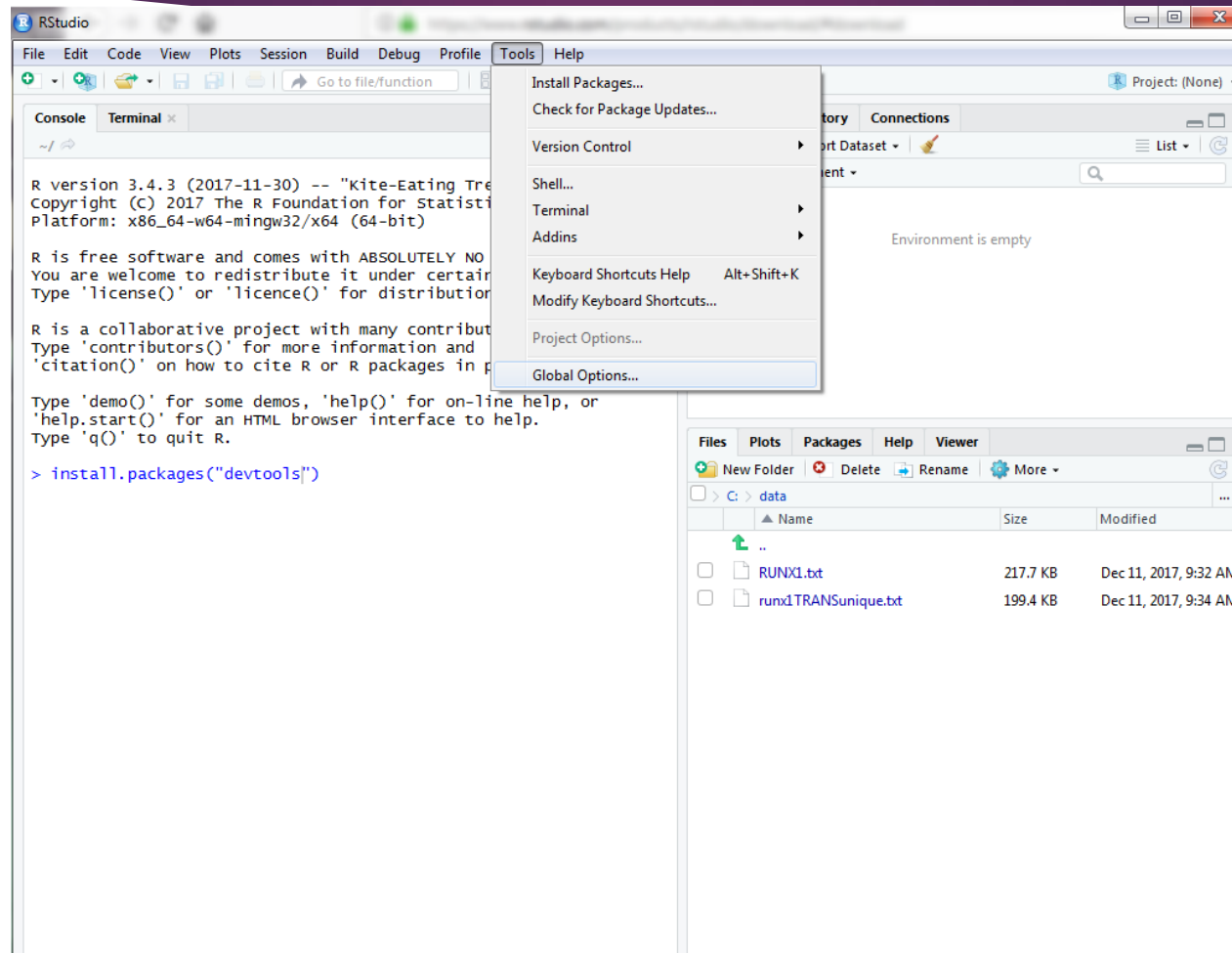
Roxygen 2

Edition automatique de
documentation

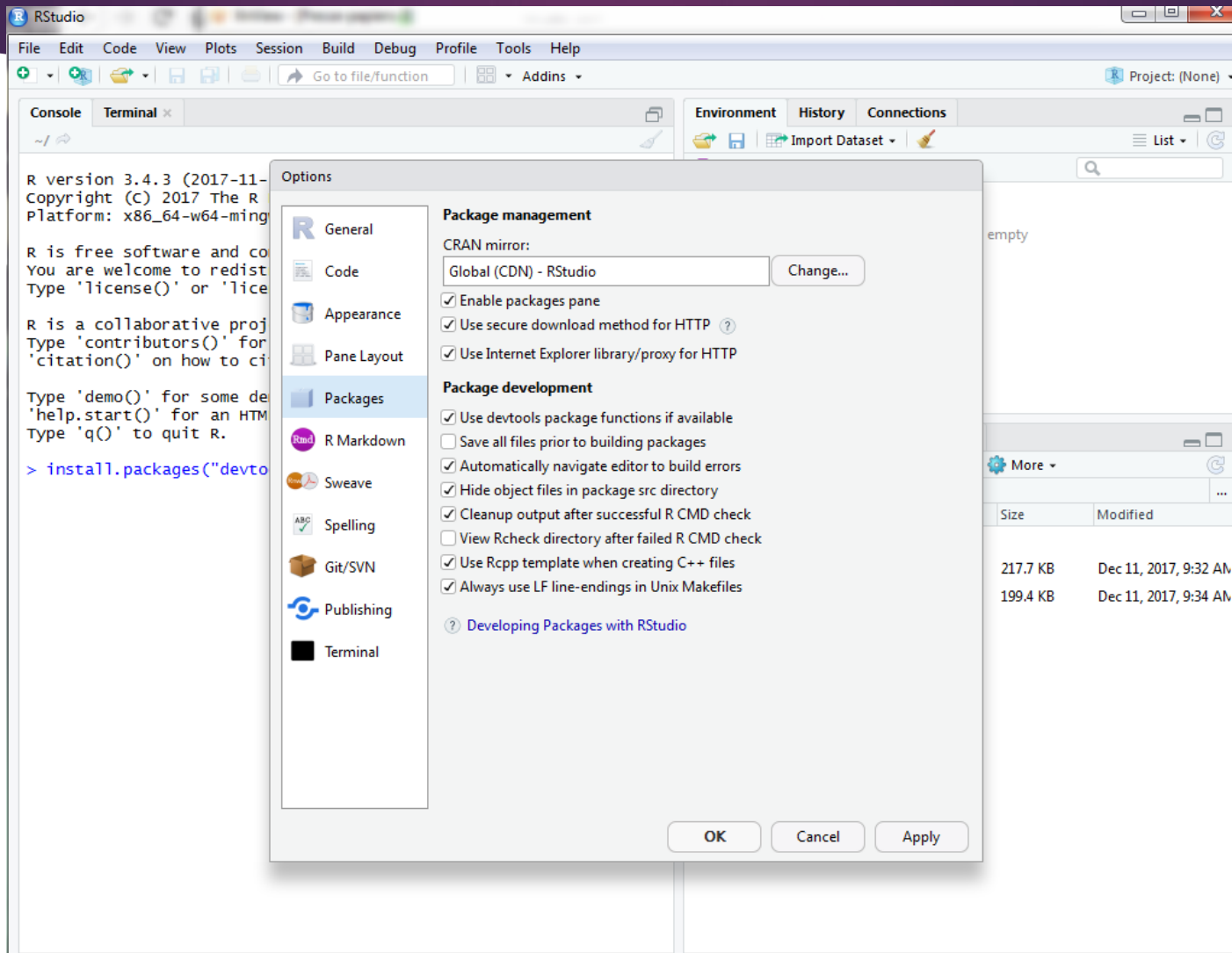
Installation des packages

Rstudio: global option choix

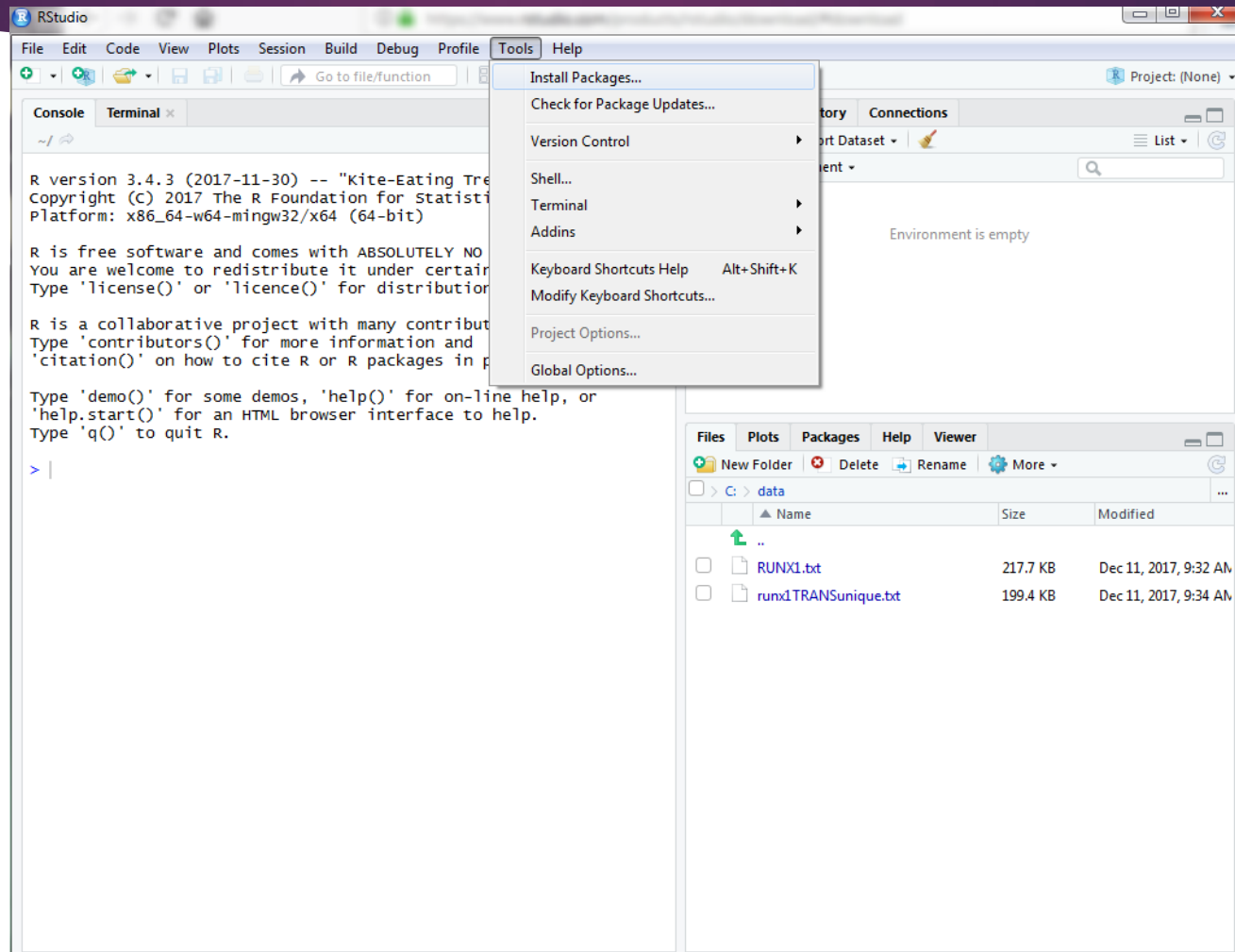
MIROIR



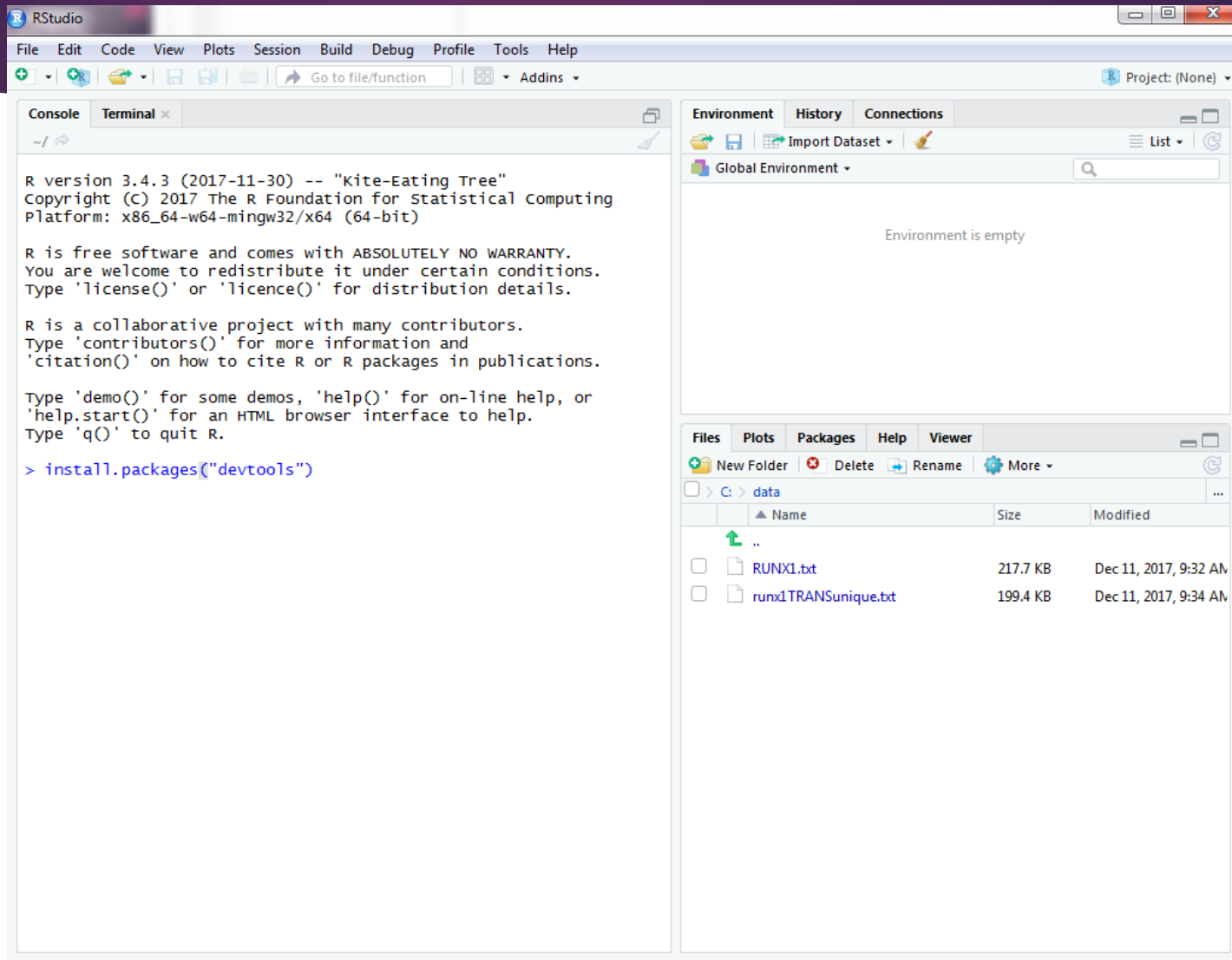
Miroir de téléchargement des paquets



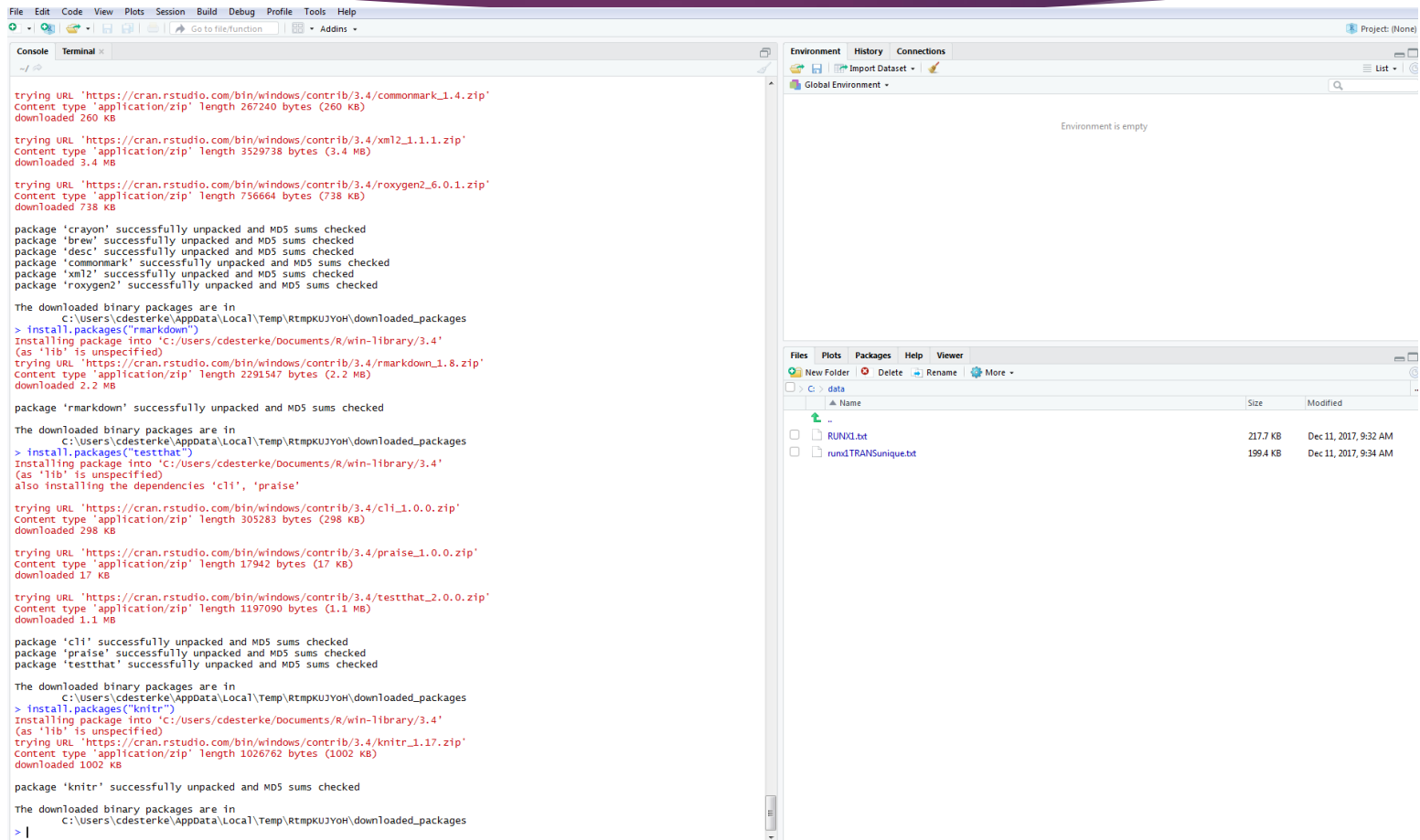
Installation des packages Rstudio



Installation manuelle



installation



```
trying URL 'https://cran.rstudio.com/bin/windows/contrib/3.4/commonmark_1.4.zip'
content type 'application/zip' length 267240 bytes (260 KB)
downloaded 260 KB

trying URL 'https://cran.rstudio.com/bin/windows/contrib/3.4/xml2_1.1.1.zip'
content type 'application/zip' length 3529738 bytes (3.4 MB)
downloaded 3.4 MB

trying URL 'https://cran.rstudio.com/bin/windows/contrib/3.4/roxygen2_6.0.1.zip'
content type 'application/zip' length 756664 bytes (738 KB)
downloaded 738 KB

package 'crayon' successfully unpacked and MD5 sums checked
package 'brew' successfully unpacked and MD5 sums checked
package 'desc' successfully unpacked and MD5 sums checked
package 'commonmark' successfully unpacked and MD5 sums checked
package 'xml2' successfully unpacked and MD5 sums checked
package 'roxygen2' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
  C:\Users\cdesterke\AppData\Local\Temp\RTmpKUZYOH\downloaded_packages
> install.packages("rmarkdown")
Installing package into 'C:/Users/cdesterke/Documents/R/win-library/3.4'
(as 'lib' is unspecified)
trying URL 'https://cran.rstudio.com/bin/windows/contrib/3.4/rmarkdown_1.8.zip'
content type 'application/zip' length 2291547 bytes (2.2 MB)
downloaded 2.2 MB

package 'rmarkdown' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
  C:\Users\cdesterke\AppData\Local\Temp\RTmpKUZYOH\downloaded_packages
> install.packages("testthat")
Installing package into 'C:/Users/cdesterke/Documents/R/win-library/3.4'
(as 'lib' is unspecified)
also installing the dependencies 'cli', 'praise'

trying URL 'https://cran.rstudio.com/bin/windows/contrib/3.4/cli_1.0.0.zip'
content type 'application/zip' length 305283 bytes (298 KB)
downloaded 298 KB

trying URL 'https://cran.rstudio.com/bin/windows/contrib/3.4/praise_1.0.0.zip'
content type 'application/zip' length 17942 bytes (17 KB)
downloaded 17 KB

trying URL 'https://cran.rstudio.com/bin/windows/contrib/3.4/testthat_2.0.0.zip'
content type 'application/zip' length 1197090 bytes (1.1 MB)
downloaded 1.1 MB

package 'cli' successfully unpacked and MD5 sums checked
package 'praise' successfully unpacked and MD5 sums checked
package 'testthat' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
  C:\Users\cdesterke\AppData\Local\Temp\RTmpKUZYOH\downloaded_packages
> install.packages("knitr")
Installing package into 'C:/Users/cdesterke/Documents/R/win-library/3.4'
(as 'lib' is unspecified)
trying URL 'https://cran.rstudio.com/bin/windows/contrib/3.4/knitr_1.17.zip'
content type 'application/zip' length 1026762 bytes (1002 KB)
downloaded 1002 KB

package 'knitr' successfully unpacked and MD5 sums checked

The downloaded binary packages are in
  C:\Users\cdesterke\AppData\Local\Temp\RTmpKUZYOH\downloaded_packages
> |
```

Environment History Connections

Global Environment

Environment is empty

Files Plots Packages Help Viewer

New Folder Delete Rename More

C:\data

Name	Size	Modified
..		
RUNX1.txt	217.7 KB	Dec 11, 2017, 9:32 AM
run1TRANSunique.txt	199.4 KB	Dec 11, 2017, 9:34 AM