

Downloading R



- **1. Download *appropriate* version of R for Windows** from the CRAN site via <http://gcdkit.org> or directly at: <http://cran.r-project.org>
- **IMPORTANT!** The current version of *GCDkit*, 6.1, has been developed in **R 4.1.3 for Windows**. The function under a different version of R cannot be guaranteed.



The R Project for Statistical Computing

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[Reporting](#)

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[Conferences](#)

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Getting Started

R is a free software environment for statistical computing and graphics. It compiles and runs on a wide variety of UNIX platforms, Windows and MacOS. To [download R](#), please choose your preferred [CRAN mirror](#).

If you have questions about R like how to download and install the software, or what the license terms are, please read our [answers to frequently asked questions](#) before you send an email.

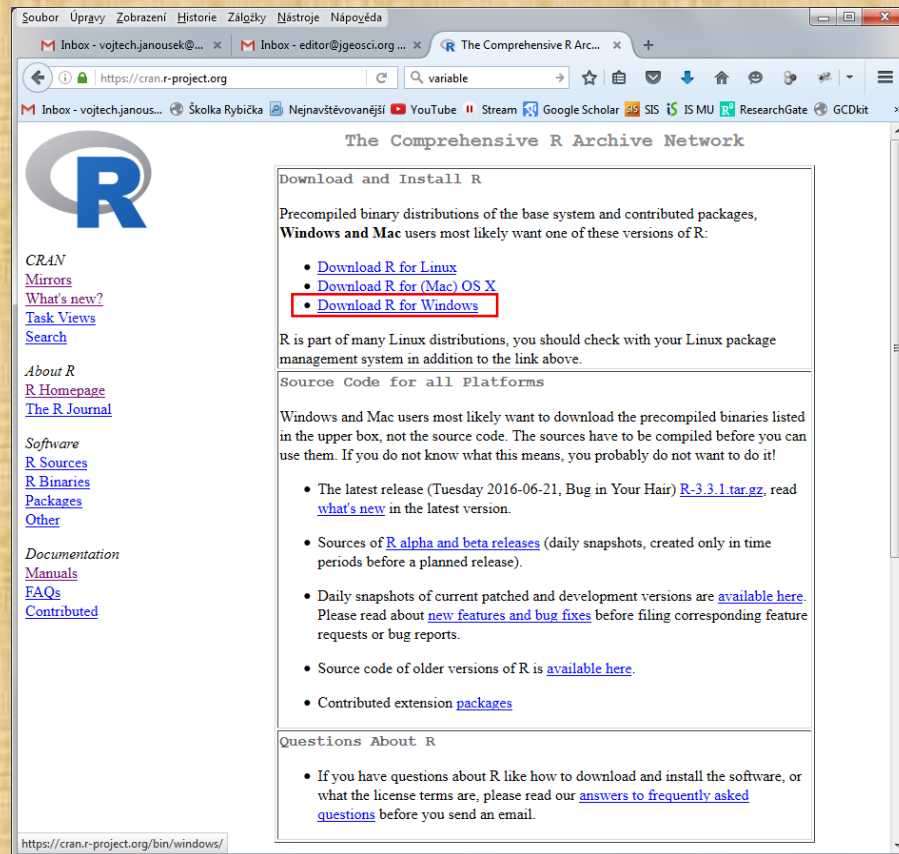
News

- **R version 3.6.1 (Action of the Toes)** has been released on 2019-07-05.
- useR! 2020 will take place in St. Louis, Missouri, USA.
- **R version 3.5.3 (Great Truth)** has been released on 2019-03-11.
- The R Foundation Conference Committee has released a [call for proposals](#) to host useR! 2020 in North America.
- You can now support the R Foundation with a renewable subscription as a [supporting member](#)
- The R Foundation has been awarded the Personality/Organization of the year 2018 award by the professional association of German market and social

Installing R



- Run the executable file and select the required items as well as the target directory. Follow further instructions of the installation wizard
- Go for **custom installation**
- Install the **SDI** (multiple windows) interface
- If behind proxy, select **Internet2**



- **Note** that under the MDI interface (default of the R installation), some functions of *GCDkit*, notably those dealing with plates of diagrams, are not working properly.

Installing *GCDkit* (I via Windows installer)



2. Download the *GCDkit* standard installer from <http://www.gcdkit.org>
3. Gain administrative rights if you want to have the Desktop shortcut created automatically (the rest of installation should work without admin rights, though)
4. Connect to Internet; the working Internet connection is needed, unless packages `sp`, `R2HTML`, `RODBC` and `XML` have been installed beforehand

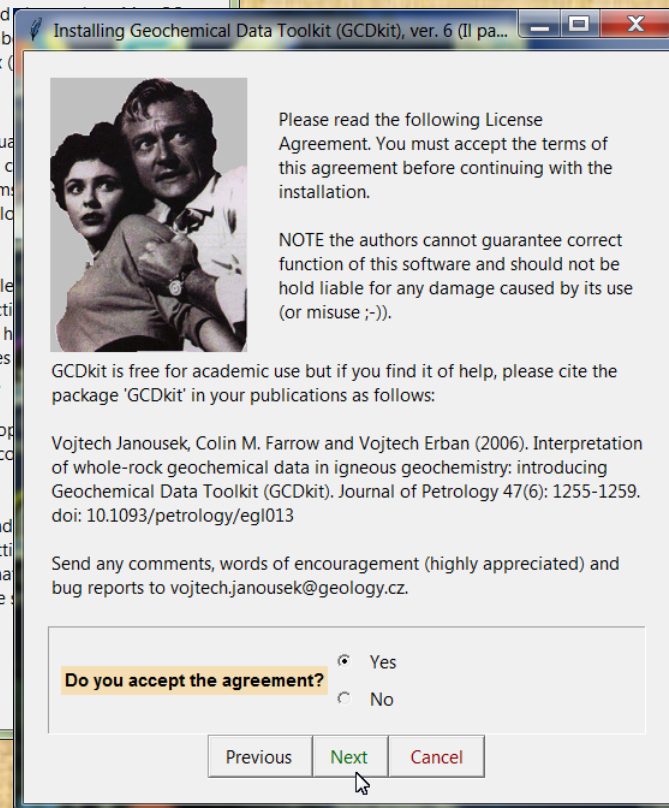
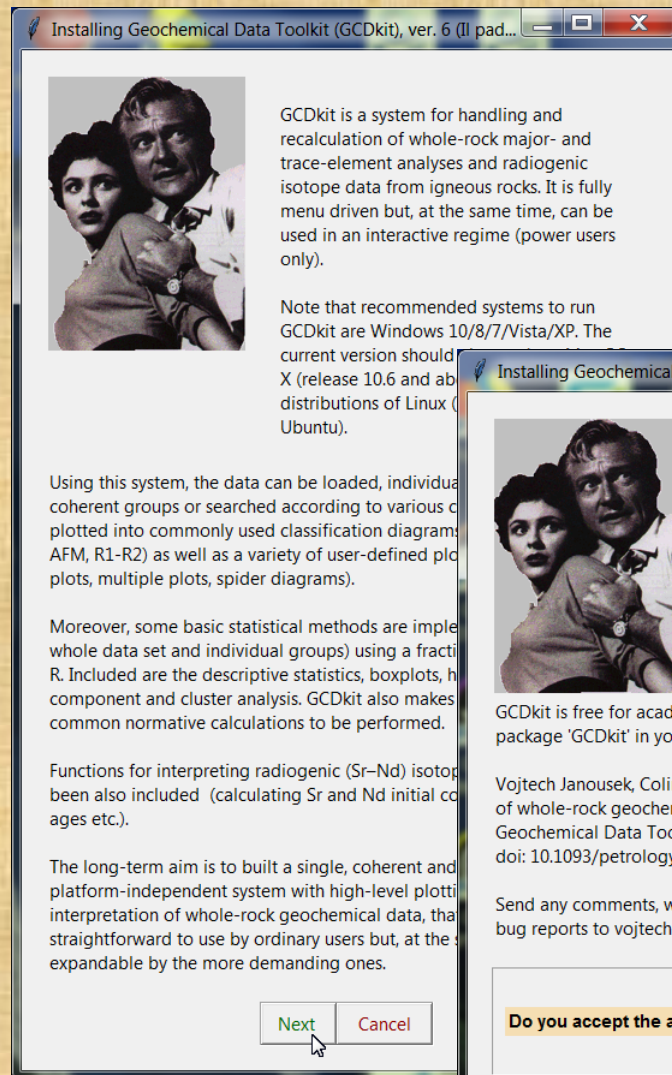
The screenshot shows the GCDkit website in a web browser. The browser's address bar displays www.gcdkit.org. The website has a navigation bar with links: Home, Download, Documentation, News, Plugins, GCDkit papers, Citing papers, Team, and Other resources. The main content area is titled "GeoChemical Data toolkit (GCDkit)". It states that GCDkit version 4.1 was released on February 10, 2016, and provides a link to the "Download" section for the full installation. A description of GCDkit follows, explaining it is a system for handling and recalculating whole-rock analyses from igneous rocks, written in R. A list of main features is provided, including standard geochemical calculations, effective data management, common plots, high-quality graphic output, modular architecture, and transparent functionality. A sidebar on the right contains a "Download" section with links to GCDkit 4.1 and its mirrors, and a "Documentation" section with links to introductory text, diagrams, complete documentation, and a cheat-sheet. At the bottom, there is a "Follow us on Twitter" button and a link to "Read our blog". A small advertisement for a book titled "Geochemical modelling of igneous processes - principles and recipes in R Language" is also visible.

Installing *GCDkit* (I via Windows installer)

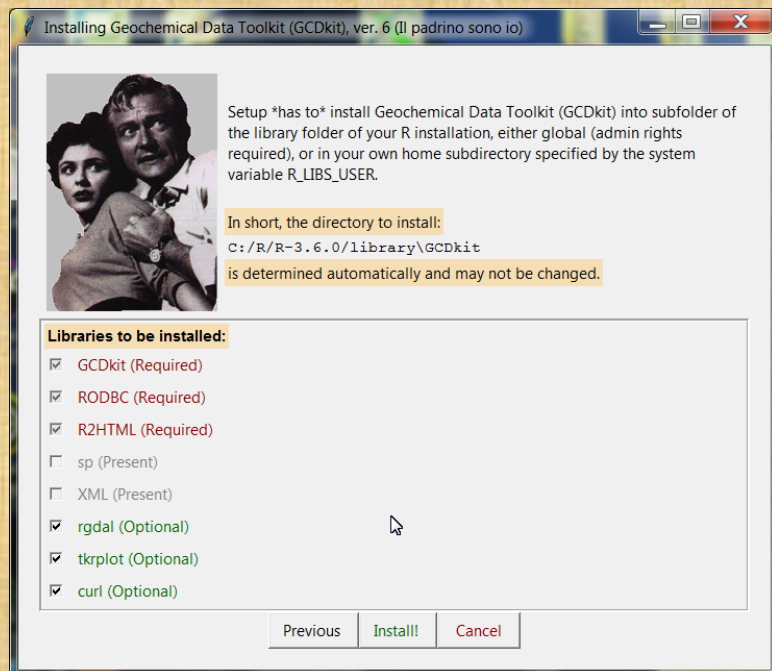


5. Install *GCDkit*

- Unzip the installer into some convenient temporary folder
- Run RGUI, **32 bit** version (shortcut labelled **R i386**)
- Drag and drop the file `@INSTALL.r` onto the R Console window.
- Read the initial information screen
- Accept the license agreement

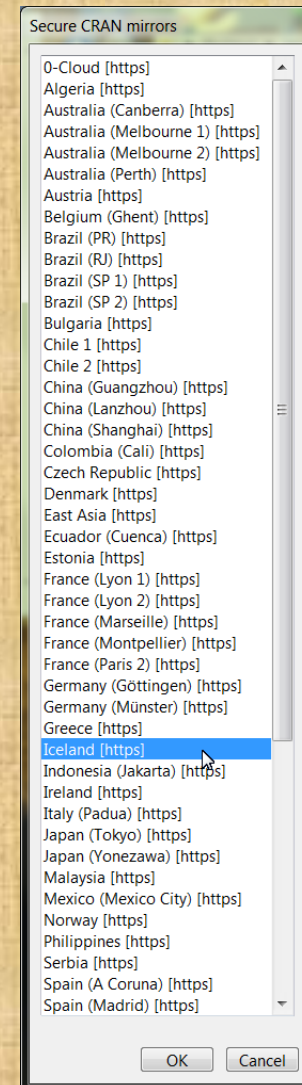


Installing *GCDkit* (I via Windows installer)



NOTE that installation path of the *GCDkit* system is determined automatically and **cannot be changed**.

NB For correct function of *GCDkit*, packages **sp**, **R2HTML**, **RODBC** and **XML** are essential.

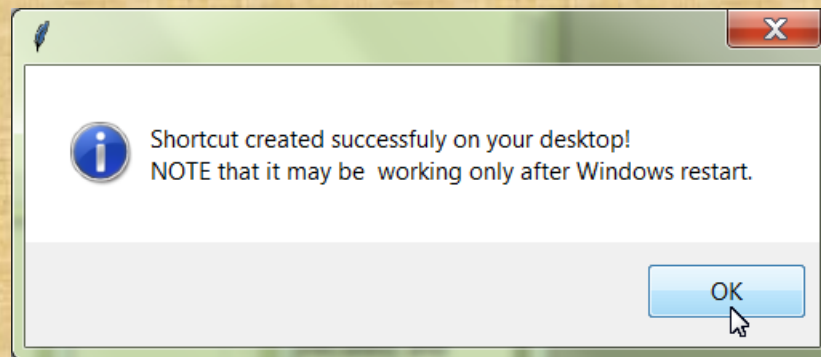


- Select libraries to be (re)installed – note that some of the are required, if not present already in the system.
- Recommended packages are also **rgdal**, **tkrplot**, and **curl** used for map tool in the EarthChem module
- For their installation, working Internet connection is required
- The R system will prompt you to select a CRAN mirror nearby

Installing *GCDkit* (I via Windows installer)



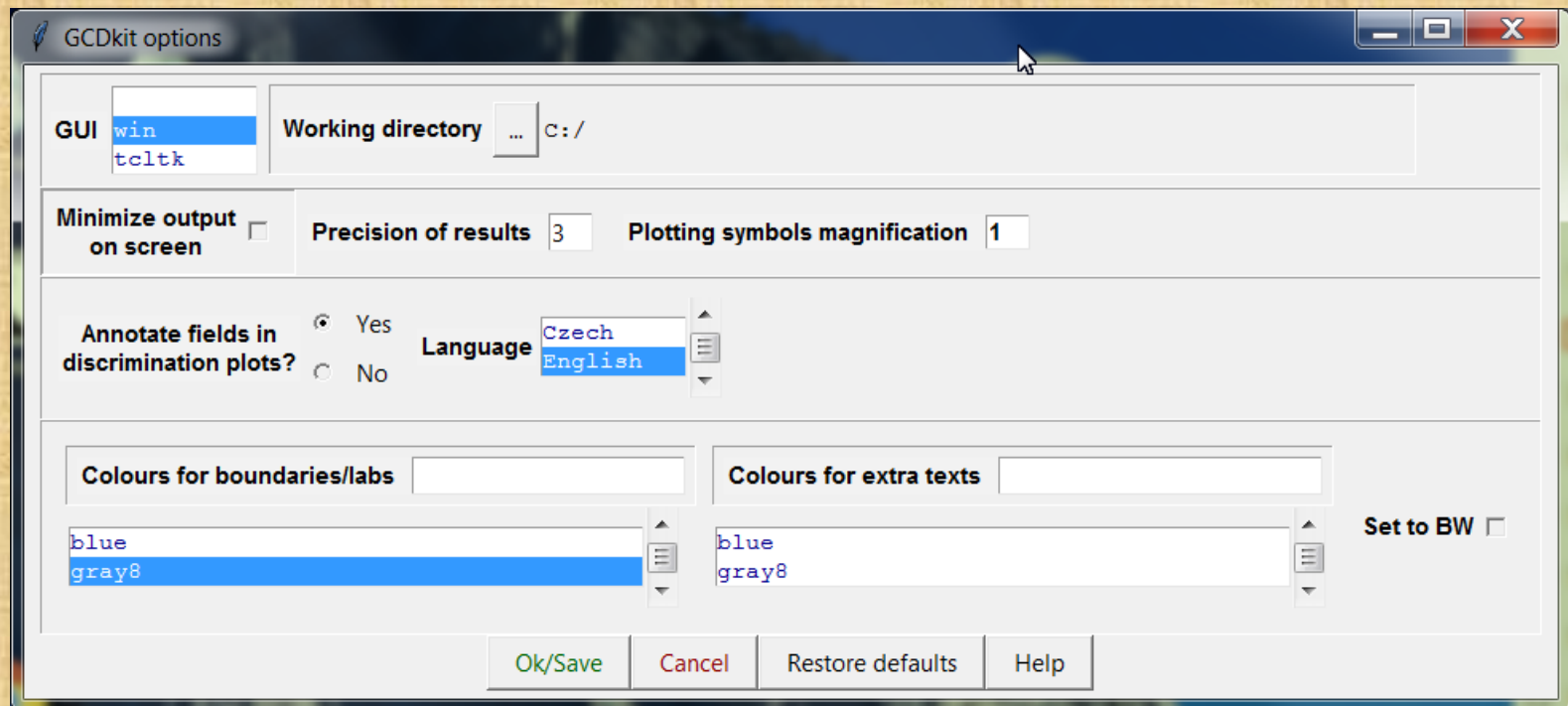
- The installation of desired libraries should have commenced by now (you may be prompted to create your own personal library – this is ok).
- Shortcut should have been created automatically
- If not, see Troubleshooting



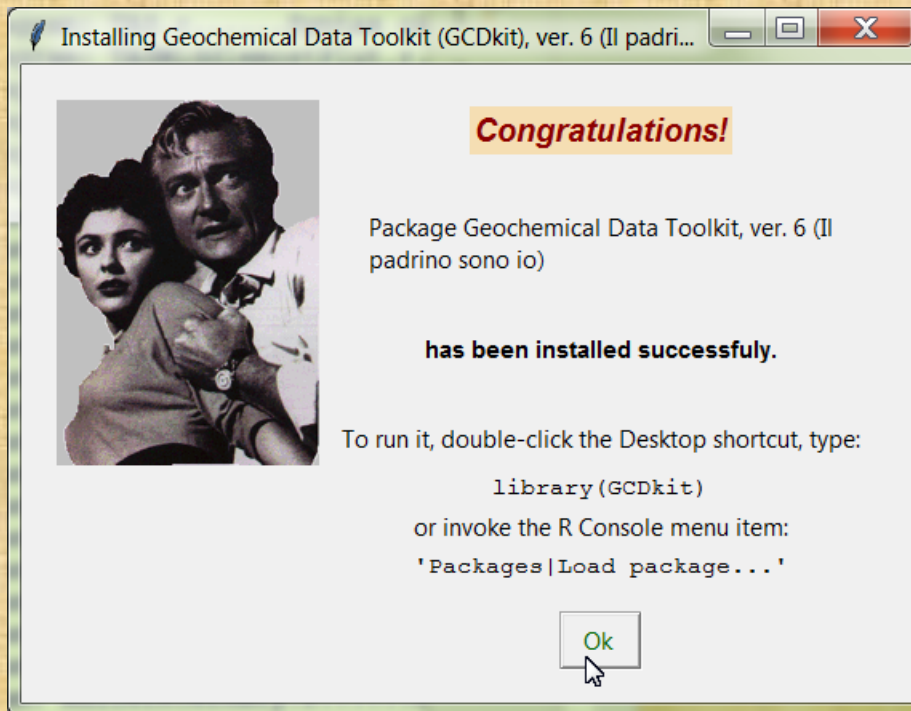
Installing *GCDkit* (I via Windows installer)



- If done, *GCDkit* is loaded automatically.
- **Specify some *GCDkit* options:** you may like to set the default data directory, language for the classification plots and some colour options.
- Do not worry, these can be set up even later, from within *GCDkit*, using the menu *GCDkit* > *Options...*



Installing *GCDkit* (I via Windows installer)



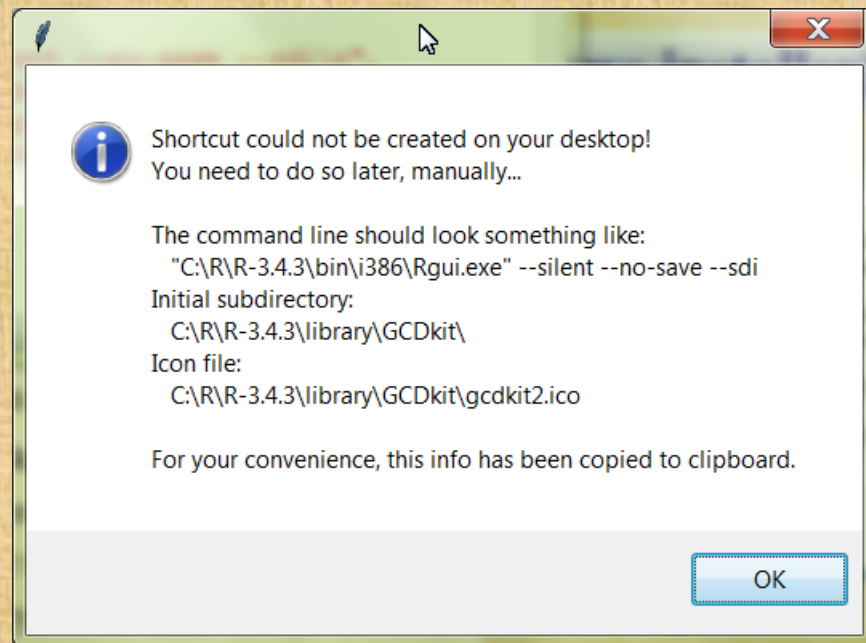
- Your installation should be completed by now.

Installing *GCDkit* (I via Windows installer)



TROUBLESHOOTING

- If the **shortcut** has not been created automatically, or does not function properly, follow the instructions on the error screen to make your own version.
- If **installation fails** for any unforeseen reason, you can always resort to the installation as a library from either RGUI or Rterm (see the following slides).
- See also the relevant entries of our blog at <http://blog.gcdkit.org>



NOTE that the library *RODBC* is essential for import/export of many file formats, including Excel (XLS, XLSX), MS Access (MDB) and DBase, IgPet, MinPet and output of the online database NAVDAT (DBF).

Installing *GCDkit* (II via offline installer)



1. **Gain administrative rights, install R** as usual, but in addition make sure that it is installed in the **C:\R** folder

Otherwise no shortcut is created on your desktop.

2. **Download the *GCDkit* off-line installer** from <http://www.gcdkit.org>

3. Install *GCDkit*

- Unzip the installer into some convenient temporary folder
- Run RGUI, **32 bit** version (shortcut labelled **R i386**)
- Drag and drop the file `@OFFLINE_INSTALL.r` onto the R Console window.
- If you are installing without admin rights, and if asked whether you like to create Personal library, answer Yes.

Running *GCDkit* (on Windows RGUI)



Running *GCDkit* is possible in three ways:

- If the **shortcut** has been created successfully on your Windows desktop, simply double click it and R (RGUI) should start loading the *GCDkit* on fly.

Run R, preferentially 32 bit version of RGUI (the R i386 shortcut).

- If in GUI, you can load the *GCDkit* library using the menu *Packages > Load package > GCDkit*.
- Otherwise type *library(GCDkit)* into the R Console/Rterm window.

- **WARNING: DO NOT DELETE** the file `.Rprofile` in your *GCDkit* directory. Otherwise the desktop shortcut to run the *GCDkit* will stop working.

Installing *GCDkit* (III) library on Windows RGUI

2. Install the *R2HTML*, *RODBC*, *XML* and *sp* supporting libraries

- Run the R GUI, 32 bit (R i386 shortcut)
- Select the *R2HTML*, *RODBC*, *XML* and *sp* items from the menu *Packages > Install package(s)...* or type:

```
install.packages(c("R2HTML", "RODBC", "XML", "sp"))
```

[working Internet connection is required]
- Alternatively, you can install these three libraries offline from previously downloaded zip files using the menu
Packages > Install package(s) from local zip files...

3. Download the *GCDkit_6.1.zip* library from <http://www.gcdkit.org>

4. Install *GCDkit*

- Still from the R console, invoke the menu
Packages > Install package(s) from local zip files...
- Select the zipped file *GCDkit_6.1.zip* directly (so do not unzip it beforehand)

Installing *GCDkit* (IV library on Windows Rterm)

2. Install *R2HTML*, *RODBC*, *XML* and *sp* supporting libraries

- Run the **Rterm**
- Type in *[working Internet connection is required]*:

```
install.packages(c("R2HTML", "RODBC", "XML", "sp"))
```
- Alternatively, you can install these three libraries offline using the menu *Packages > Install package(s) from local zip files...*

3. Download the **GCDkit_6.0.zip** library from <http://www.gcdkit.org>

4. Install *GCDkit*

- Still in Rterm, type:

```
install.packages("FULL_PATH\\GCDkit_6.1.zip", repos=NULL)
```


where `FULL_PATH` is a full path to the installation (.zip) file

NB that doubled backslashes are to be used in path names as customary in R

Running *GCDkit* (on Windows Rterm)



5. Running *GCDkit*

- Launch R
- Type *library(GCDkit)* into the R command prompt.
- Moreover, type *menuet()* in order to start the Tcl/Tk menu system.

WARNING! This approach uses a platform-independent (i.e. non-Windows) version of *GCDkit* that is still experimental. Many features are not available and others may work unpredictably. Please use sensibly, at your own risk. For further information, see a dedicated document (`R_install_Other.pdf`) as well as:

<http://http://blog.gcdkit.org>.