

SD Card Processing App Instructions

If you've already installed the app and just need to run it, skip to Step 5. If the app has been updated and you need to reinstall it, then you can skip Step 1.

1. Open R Studio (Windows key/Start Menu > type "R Studio").
 - a. If you don't have R installed, you will need to download it.
 - b. First, [download R](#)

R-4.1.3 for Windows (32/64 bit)

[Download R 4.1.3 for Windows](#) (87 megabytes, 32/64 bit)
[Read this and other instructions](#)
[New features in this version](#)

If you want to double-check that the package you have downloaded matches the package distributed by CRAN, you can compare the [md5sum](#) of server. You will need a version of md5sum for windows: both [graphical](#) and [command line versions](#) are available.

Frequently asked questions

- [Does R run under my version of Windows?](#)
- [How do I update packages in my previous version of R?](#)
- [Should I run 32-bit or 64-bit R?](#)

Please see the [R FAQ](#) for general information about R and the [R Windows FAQ](#) for Windows-specific information.


Other builds

- Patches to this release are incorporated in the [r-patched snapshot build](#).
- A build of the development version (which will eventually become the next major release of R) is available in the [r-devel snapshot build](#).
- [Previous releases](#)

Note to webmasters: A stable link which will redirect to the current Windows binary release is <http://<CRAN MIRROR>/bin/windows/base/release.html>.

Last change: 2022-03-10

- c. Then, [download R Studio](#)

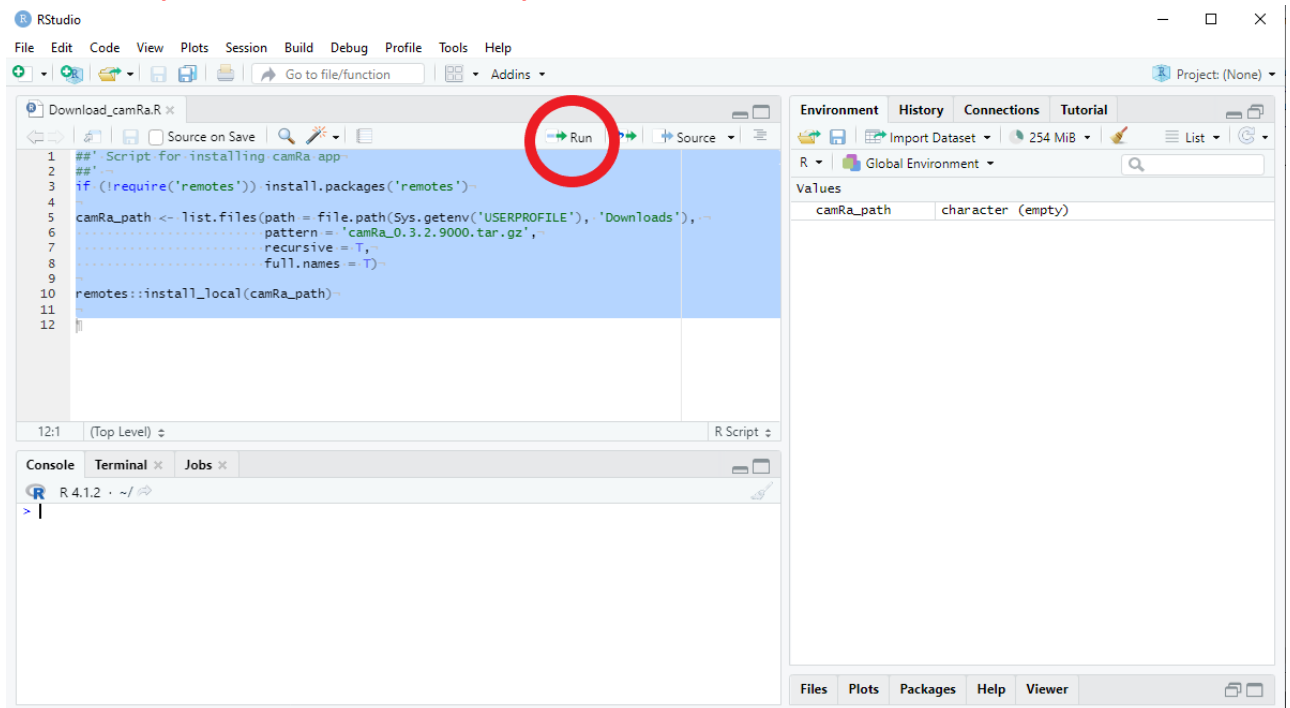
	RStudio Desktop Open Source License	RStudio Desktop Pro Commercial License	RStudio Server Open Source License	RStudio Workbench Commercial License
	Free	\$995 /year	Free	\$4,975 /year (5 Named Users)
	DOWNLOAD Learn more	BUY Learn more	DOWNLOAD Learn more	BUY Evaluation Learn more
Integrated Tools for R	✓	✓	✓	✓
Priority Support		✓		✓
Access via Web Browser			✓	✓
RStudio Professional Drivers		✓		✓
Connect to RStudio Workbench  remotely		✓		
Enterprise Security				✓
Project Sharing				✓

- d. Then, open it as above (Windows key/Start Menu > type "r studio").

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- Download the script for installing the app (**Download_camRa.R**) [from GitHub](#) and the app file itself [from Google Drive](#). (Or, if you've been emailed an updated version, then download the tar.gz file from your email, or wherever you've been told to access it. The app file might have some different numbers, but it will start with **camRa_** and end with **tar.gz**. **Leave the tar.gz file in your Downloads folder**. The Download_camRa.R script can only look for the file in your Downloads and won't be able to find it otherwise.
- Run the script to download the app. You have to run two different chunks; the script has instructions for which to run. Highlight each set of lines, then **ctrl-Enter/Return** or click the **Run** button in R Studio. (**Note:** your R Studio might have a different layout than mine). (**Note 2:** if you're an existing R user and you already have R Studio working, then you'll need to **shut down RStudio and open it again, or else the dependencies might not all install/update properly and the installation will fail**. The download script also updates all of the packages you have installed; if you think this might be a problem, contact us).

If the installation fails, the most likely reason is that it was moved to a different folder. Make sure that you have not moved it out of your downloads folder.



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- a. If it gives you this message:

```
> remotes::install_local(camRa_path)
These packages have more recent versions available.
It is recommended to update all of them.
Which would you like to update?
```

```
1: All
2: CRAN packages only
3: None
4: tibble (3.1.6 -> 3.1.7) [CRAN]
5: nloptr (2.0.0 -> 2.0.1) [CRAN]
6: quantreg (5.88 -> 5.93 ) [CRAN]
```

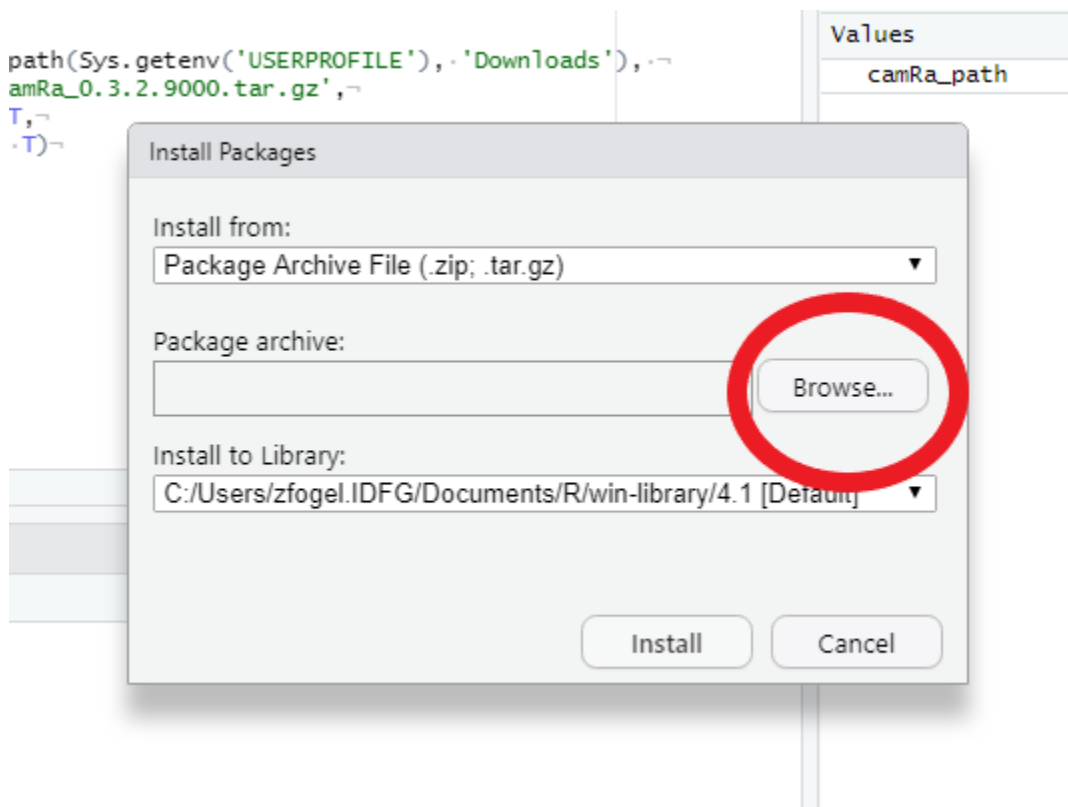
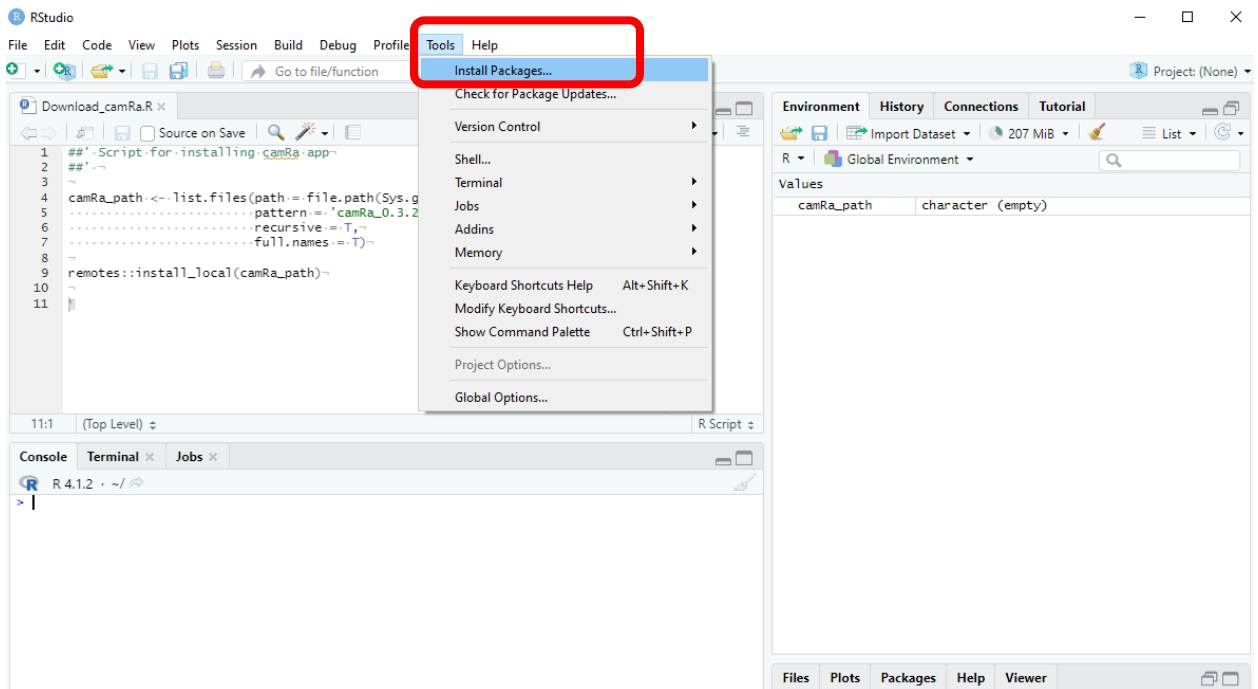
```
Enter one or more numbers, or an empty line to skip updates: |
```

Type "1" and hit enter. This is updating the underlying software that R relies on. It may have popups asking if you want to update; click "Yes."

- b. If you are an existing R user, you may run into issues where you different versions of the required dependencies. In that case, you can type `update.packages(ask = F)` to update all the packages you have installed on your computer. Hopefully the above step will take care of that though.

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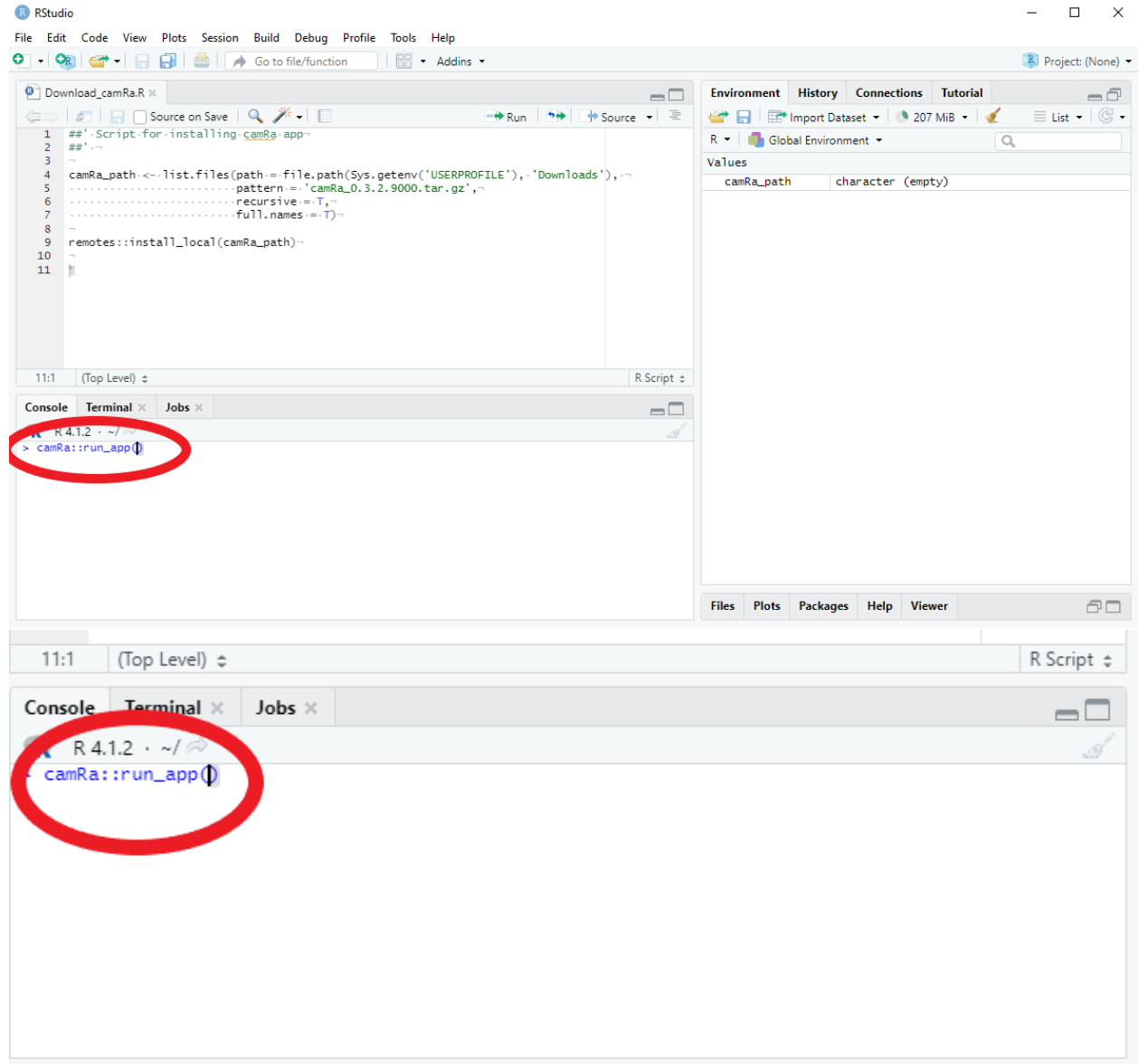
- c. If this doesn't work, then you can install the package manually. **Tools > Install Packages > Browse**, then select "camRa_*.tar.gz" from your Downloads folder. You will likely need to download some dependent packages, so [contact Zach Fogel](#) for help.



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- Once you've successfully installed the package, then it's time to run the app! In the console, type `camRa::run_app()` and the app should open. You will need to run this command every time you need to reopen the app, but you do not need to reinstall it each time.

If you continue to have questions, [contact Zach Fogel](#). They may tell you to use the alternate method, which is detailed on the next page.



SD Card Processing App Instructions

Appendix I

Use these instructions if you have tried and failed to download the app using the prior instructions, and you've been instructed to install it this way.

1. Download [SDApp.zip](#). You can move it out of your downloads folder if you want.
2. Unzip it (right-click > Extract All)
3. Open R Studio, and open the SDApp project: File > Open Project > SDApp
4. Open SDApp > dev > 02_dev.R. Run the first chunk that isn't commented out (i.e. doesn't start with "####"). Those lines are:

```
dependencies <- c("shiny", "shinyBS",  
  "shinydashboard", "shinycssloaders", "shinyjs", "readr",  
  "exifr", "DT", "stringr", 'dplyr', 'shinywidgets', "utils",  
  "tools", "lifecycle", "stats", "xml2", "base64enc",  
  "htmlwidgets", "v8", "htmltools", "tippy", "slickR",  
  "plotly", "ggpubr", "rlang", "roxygen2", 'beepR', 'plyr')  
for (i in 1:length(dependencies)){  
  usethis::use_package(dependencies[i])  
}
```

It should be lines 18-25.

5. Open SDApp > dev > run_dev.R. In run_dev, select all (ctrl-A) and run (ctrl-enter or the "Run" button).
6. You will need to open the SDApp project out of the SDApp folder and run run_dev (steps 3 and 5) each time you want to run the app, but you only need to run step 4 the first time.
7. If you've been instructed to redownload the app, delete the existing SDApp folder and do steps 1-5 again.

Troubleshooting:

- Did you open the SDApp project? You'll know you did if the top left corner of R Studio says "SDApp – main – RStudio," and not just "RStudio"
- If this is your first time, did you run Step 4, with the dependencies lines?
- Are you running all of run_dev?