# Installing sdcMicro using RStudio and getting started with sdcApp

sdcApp is a user interface for the sdcMicro R package. sdcApp allows users who are not familiar with programming in R to use sdcMicro. Users interact with microdata using a web interface and may overview changes throughout each step of the process.

In order to start working with sdcApp, you need to install R as well as several add-on packages for R, including *sdcMicro* itself. Using the integrated development environment *RStudio* is an easy way to access R for new users. This is a short summary of how to use RStudio to get started with sdcApp on a personal computer running Windows, macOS or Linux.

## Full instructions

Full instructions for installing R, RStudio, sdcMicro and sdcApp are found in the sdcApp manual:

<https://sdcappdocs.readthedocs.io/en/latest/installation.html>

## Summary instructions:

A summary of the steps required are:

* Install R from <https://cran.rstudio.com/>
* Install RStudio from <https://posit.co/download/rstudio-desktop/>
* Alternative: If you are using a package manager to install and update software on your computer, installing R and RStudio that way might be a better solution. Check if R and RStudio are available as packages before using the standalone installers above.

Install sdcMicro:

Start RStudio. On first start, you probably need to choose to use your machine’s default version of R (e.g. 64-bit).

In the command line at the bottom of the console window located in the lower left of the RStudio user interface, type the command below followed by the enter key:

install.packages("sdcMicro", dependencies = TRUE)

When new text messages stop appearing in the console window, all required packages should hopefully have been installed.

To run sdcApp:

In the RStudio console window, type the two commands on the RStudio command line followed by the enter key:

library(sdcMicro)

sdcApp()

… the sdcMicro GUI should open in your default web-browser!

If it does not open automatically, enter the following address in your web browser manually:

http://127.0.0.1:4052/

You might have to disable popup blocking in your web browser to avoid problems with sdcApp.