GENE360 - software installation

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In this GENE360 tutorial we will be using the R statistical software running in the RStudio application to perform data visualisation and analysis.

Download the data

The data for this module are available from the GENE360 Blackboard page. Instructions for downloading the required files are contained in the `GENE360-popDiv.pdf` document.

R and RStudio on your computer, or Student Desktop?

If you have problems getting R and RStudio installed (or accessing them via the Student Desktop), please get in touch with me via email: `mik.black@otago.ac.nz`

Your computer

If you are using your own computer for this lab, you will need to have R and RStudio installed. Install or update R **before** you install or update RStudio.

To install the latest version of R, visit the following website, and download the version for your operating system:

`http://cran.stat.auckland.ac.nz`

If you are running a version of R earlier than 3.6.1, that is probably okay, but just be aware that older versions of R do sometimes cause problems.

To install RStudio, visit the following website

`https://rstudio.com/products/rstudio/download`

and download the free version of "RStudio Desktop" for your operating system.

If you already have RStudio installed, you can upgrade to the latest version by choosing "Check for Updates" from the RStudio "Help" menu.

Student Desktop

If you are unable to install R and RStudio on your own device, then accessing these through the student desktop might be an option. The following link:

`https://student.desktop.otago.ac.nz`

will open a Windows Desktop on your computer, and you can access RStudio from the Start Menu in the lower left of the screen.

Getting started

NB: you will be doing your analysis in RStudio, so don't worry about using the R application (it needs to be installed, but we don't have to open it) - just open RStudio and use that for all of your work.

Once you have access to RStudio, you can get started with the work for the lab by downloading the file `GENE360-popDiv.pdf` from Blackboard.