

Using R in Power BI

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Prerequisite

- R must be installed on the same Windows computer as Power BI Desktop

<https://www.r-project.org/>

Australia - mirrors

https://cran.csiro.au/	CSIRO
https://mirror.aarnet.edu.au/pub/CRAN/	AARNET
https://cran.ms.unimelb.edu.au/	School of Mathematics and Statistics, University of Melbourne
https://cran.curtin.edu.au/	Curtin University

- Good to have

IDE to use with R, Notepad++, R Studio, VS etc.

Import Data

To import data you need to create a dataframe. Power BI can access the dataframes and you can select required dataframes to import.

- Connect to available dataset in R
- import csv, xlsx, sql etc. data to R then connect
- import data to R, transform, clean up data and then connect

Example 1 - Connect to available dataset in R

We can use available dataset in R and import this to Power BI
cars dataset in R consist of breaking distances vs. speed data.
we can preview the data using `head()` function.

```
head(cars)
```

```
##    speed dist
## 1      4     2
## 2      4    10
## 3      7     4
## 4      7    22
## 5      8    16
## 6      9    10
```

Lets import this dataset to Power BI by assigning to a dataframe.

In **Power BI**, click *Get Data -> Other -> R script*

Use the following R script to get the data from *cars* dataset.

```
cars_data <- cars
```

Tranform Data

Visualisations