# Rattle

A Data Mining GUI for R

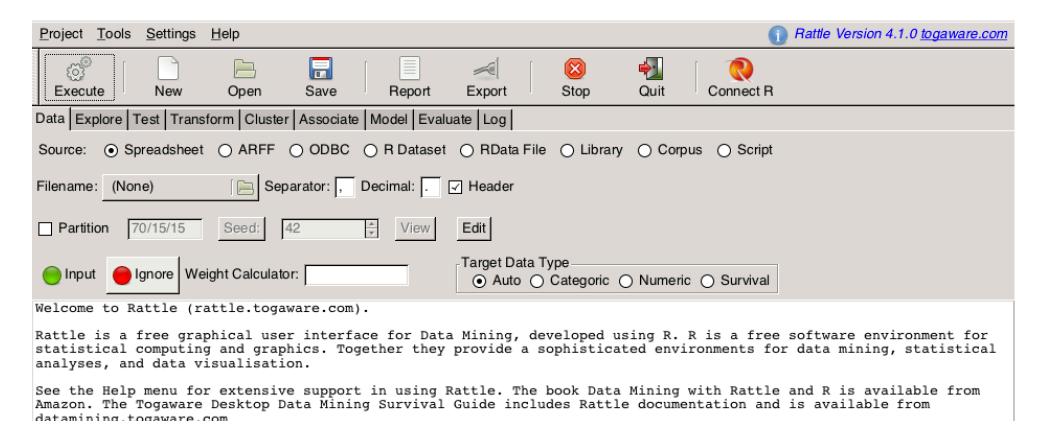
#### 安裝、載入 Rattle

安裝

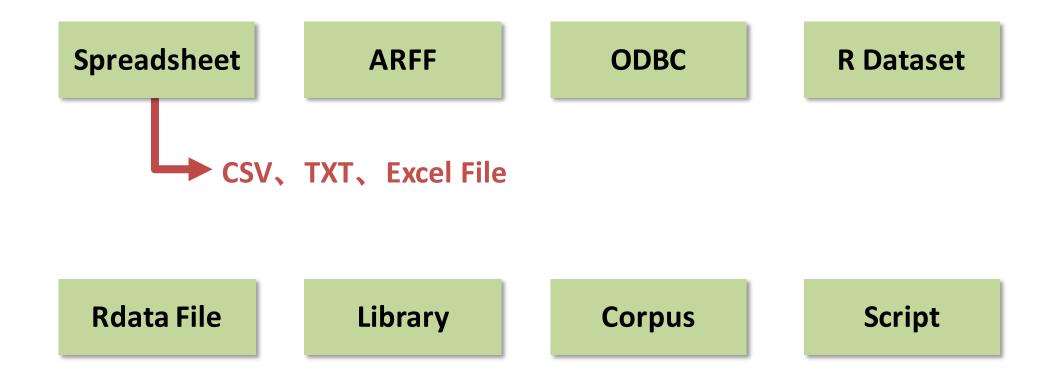
載入

```
> library(rattle)
Rattle: A free graphical interface for data mining with R.
Version 4.1.0 Copyright (c) 2006-2015 Togaware Pty Ltd.
Type 'rattle()' to shake, rattle, and roll your data.
> rattle()
>
```

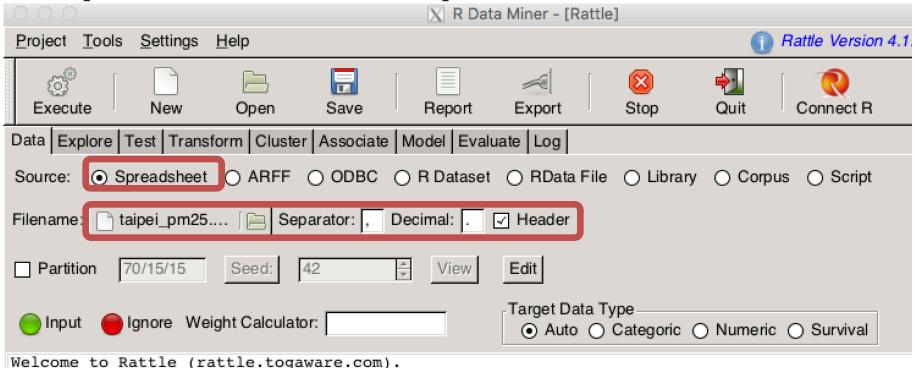
#### Rattle



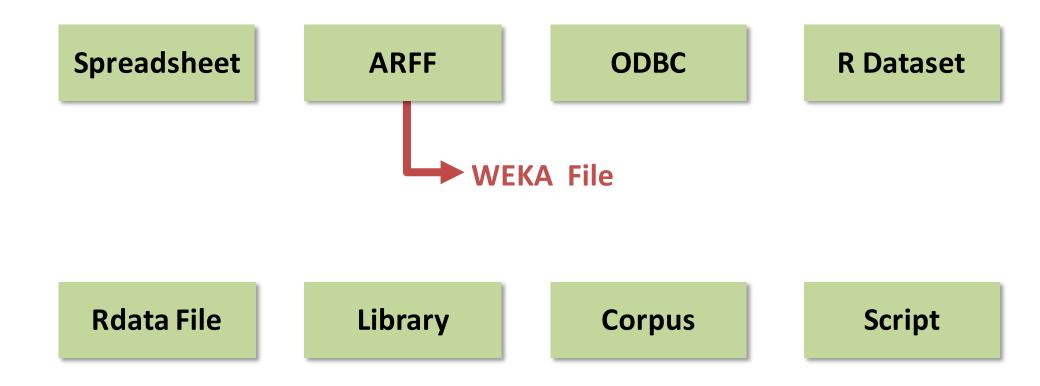
#### Import Data 載入數據



Import Data – Spreadsheet



#### Import Data 載入數據



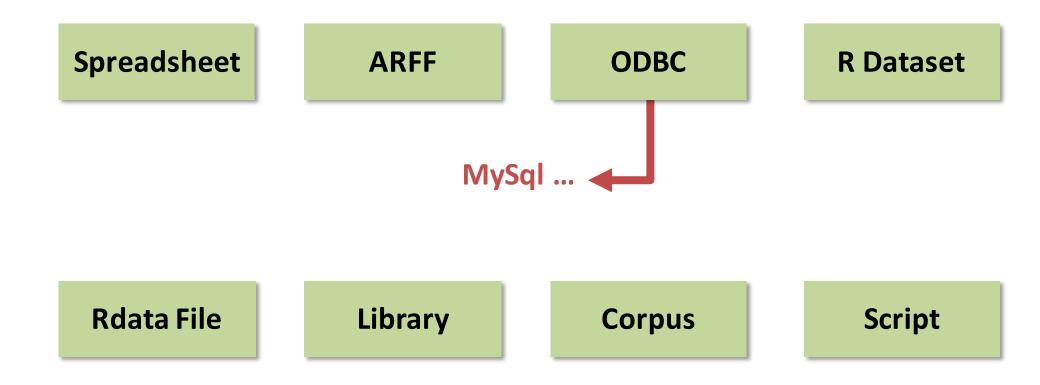
#### Weka

#### Weka (Waikato Environment for Knowledge Analysis)

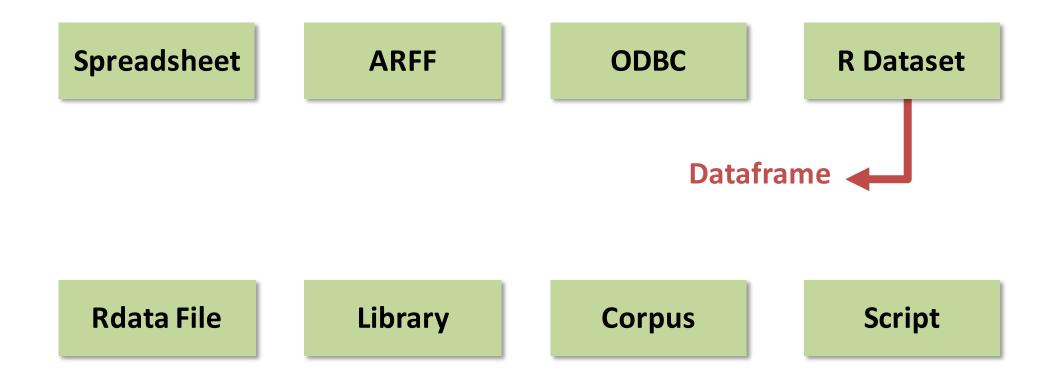
提供 data mining 以及 machine learning 各種工具的一套軟體 包括資料前置處理工具、分類工具、回歸分析等,也能將資料以視覺畫的方式呈現。



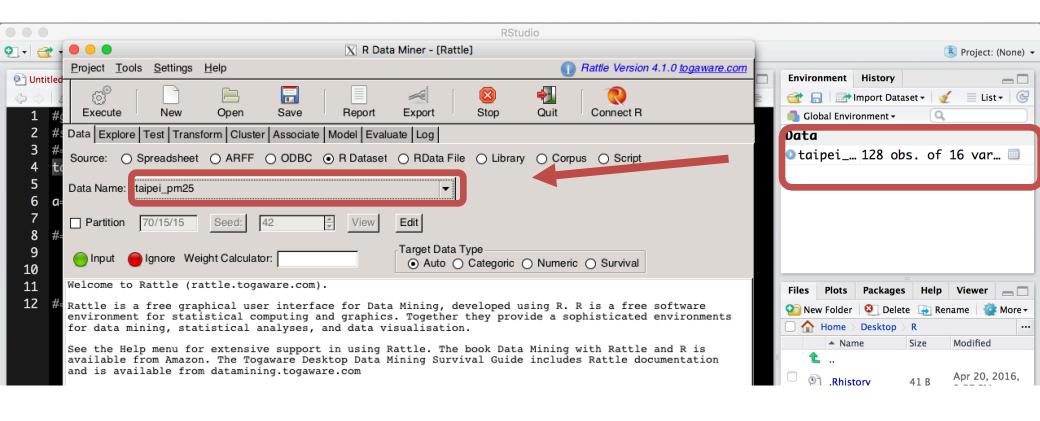
#### Import Data 載入數據



#### Import Data 載入數據



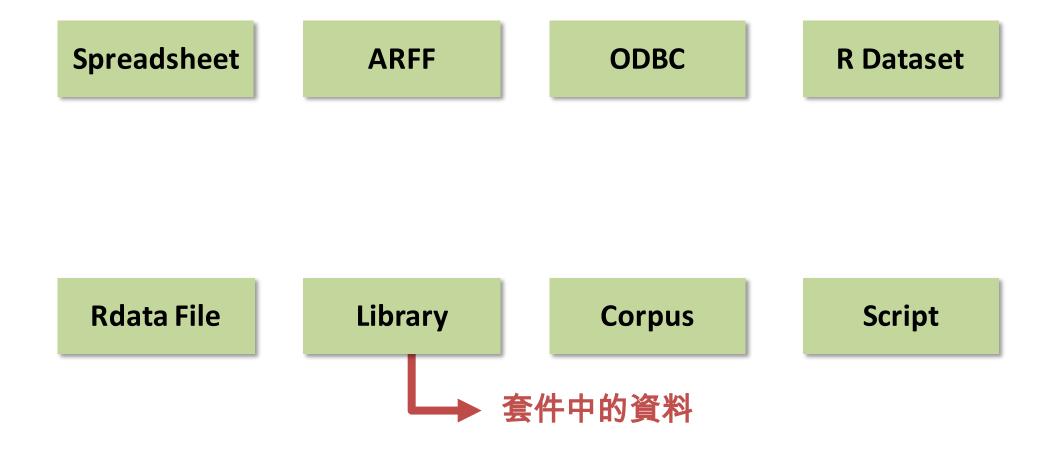
### Import Data – R Dataset



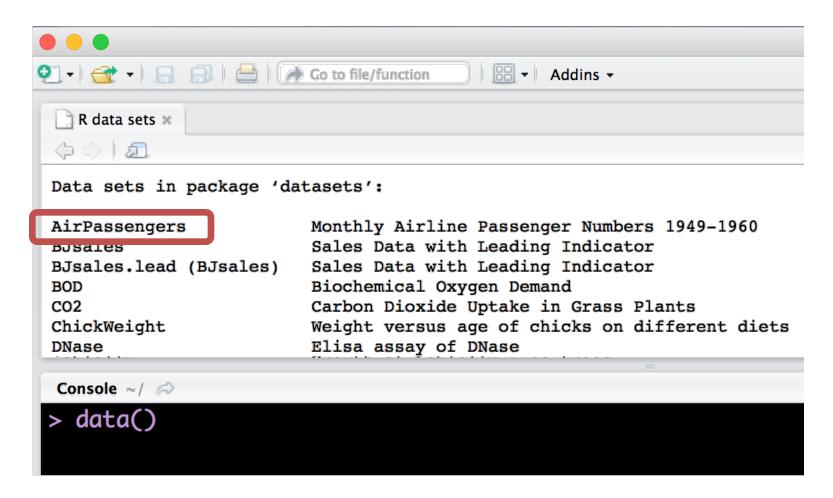
#### Import Data 載入數據

**Spreadsheet ODBC ARFF R** Dataset **Rdata File** Library Script Corpus .RData

#### Import Data 載入數據



#### 看目前可用資料集



#### Import Data – R Dataset

	0	)	_		X R Data Miner - [Rattle]						
<u>P</u>	roject	Tools	<u>S</u> ettings	<u>H</u> elp					1	Rattle Version	4.1.0
	ු <sup>©</sup> Execu	ite	New	Open	Save	Report	Export	Stop	Quit	Connect R	
Data Explore Test Transform Cluster Associate Model Evaluate Log											
S	ource:	⊙ s	preadsheet	O ARFF	ODBC	O R Dataset	O RData File	<ul><li>Library</li></ul>	○ Corpu	s 🔾 Script	
Data Name: AirPassengers:datasets:Monthly Airline Passenger Numbers 19											
С	] Partit	ion [7	70/15/15	Seed:	42	View	Edit				
☐ Input ☐ Ignore Weight Calculator:						Target Data Type  O Auto O Categoric O Numeric O Survival					

Welcome to Rattle (rattle.togaware.com).

Rattle is a free graphical user interface for Data Mining, developed using R. R is a free soft environment for statistical computing and graphics. Together they provide a sophisticated envi for data mining, statistical analyses, and data visualisation.

See the Help menu for extensive support in using Rattle. The book Data Mining with Rattle and available from Amazon. The Togaware Desktop Data Mining Survival Guide includes Rattle documen and is available from datamining.togaware.com

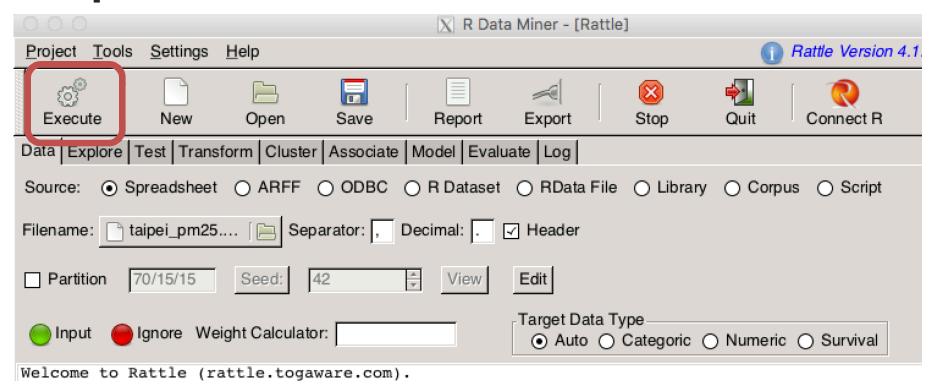
# 臺北市環保局空氣品質監測站 - 每月監測值統計

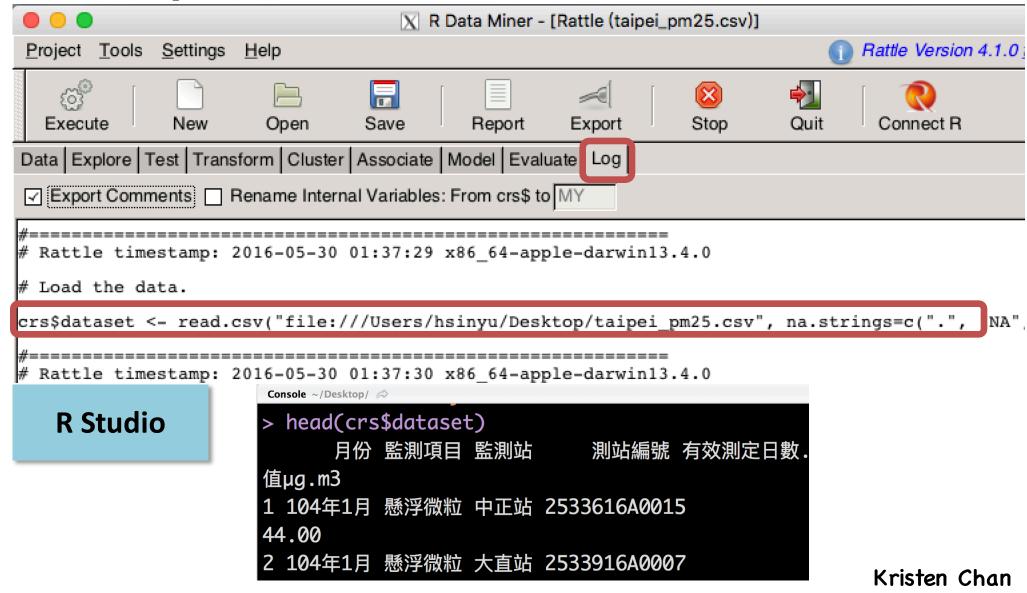
#### 懸浮微粒

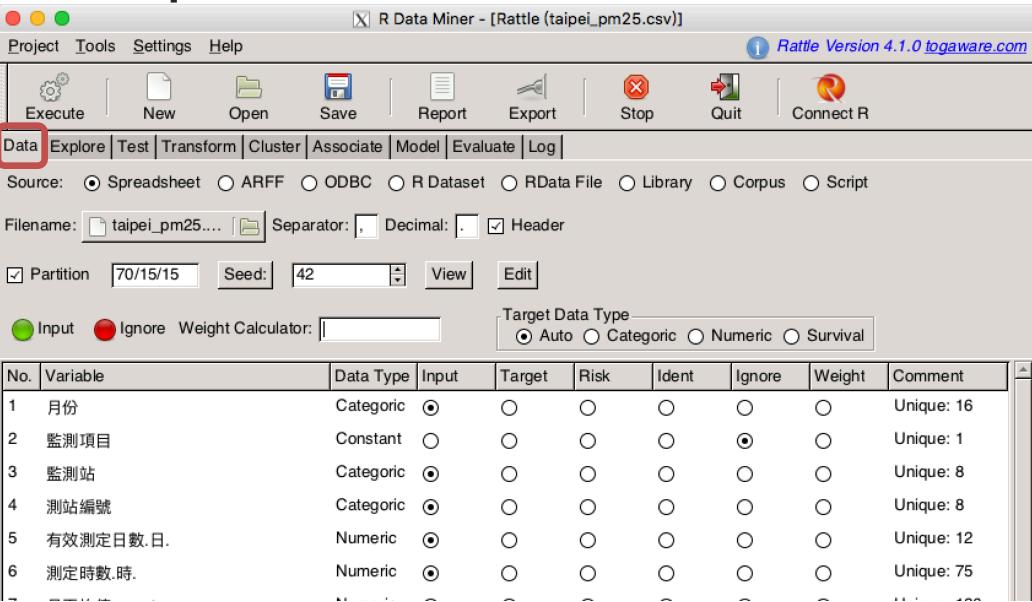
資料區間:104/01~105/04

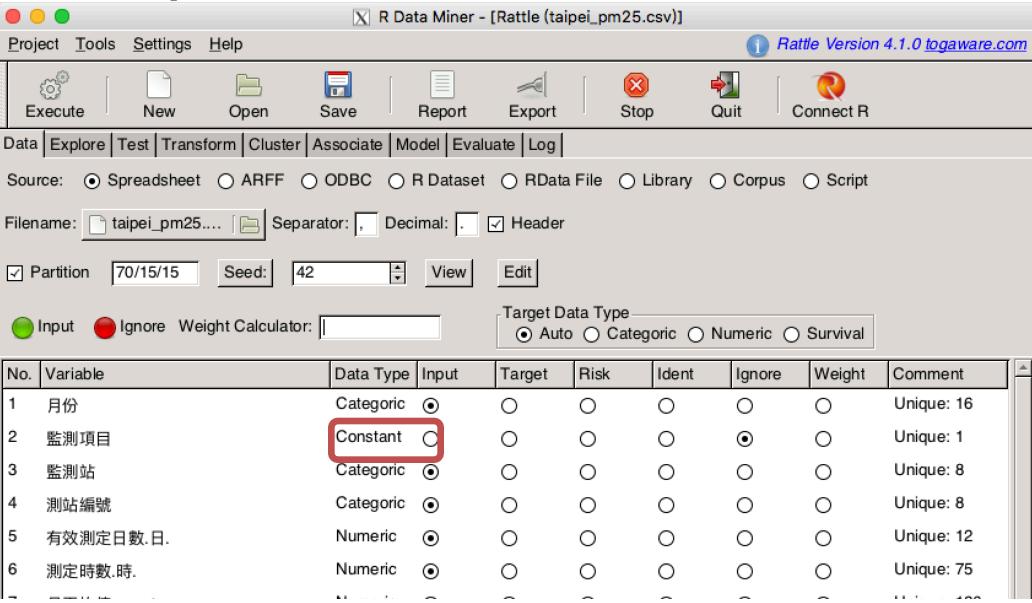
測站:中正站、大直站、信義站、南港站、內湖站

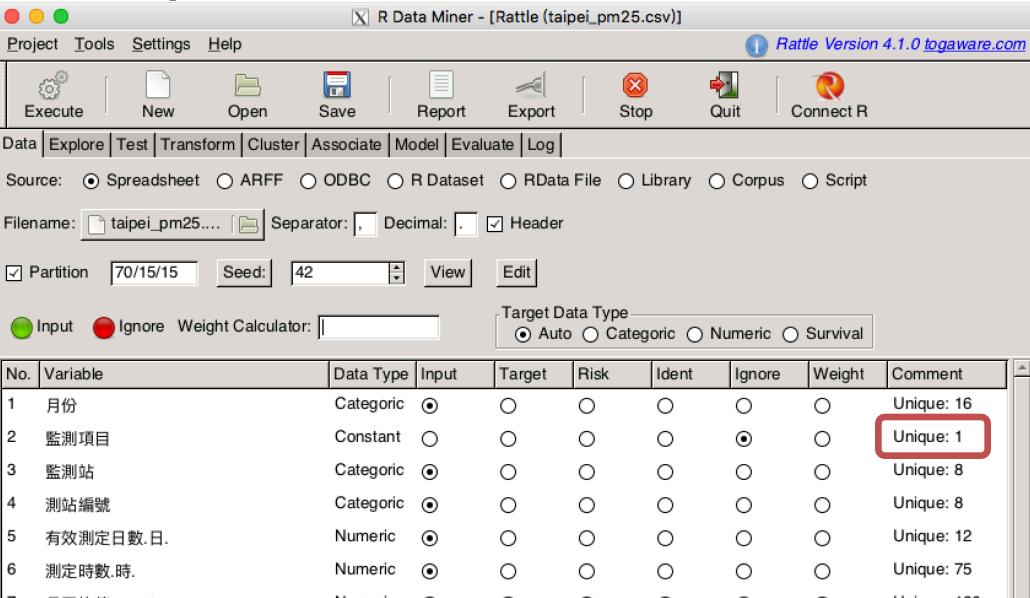
木柵站、承德站、中北站

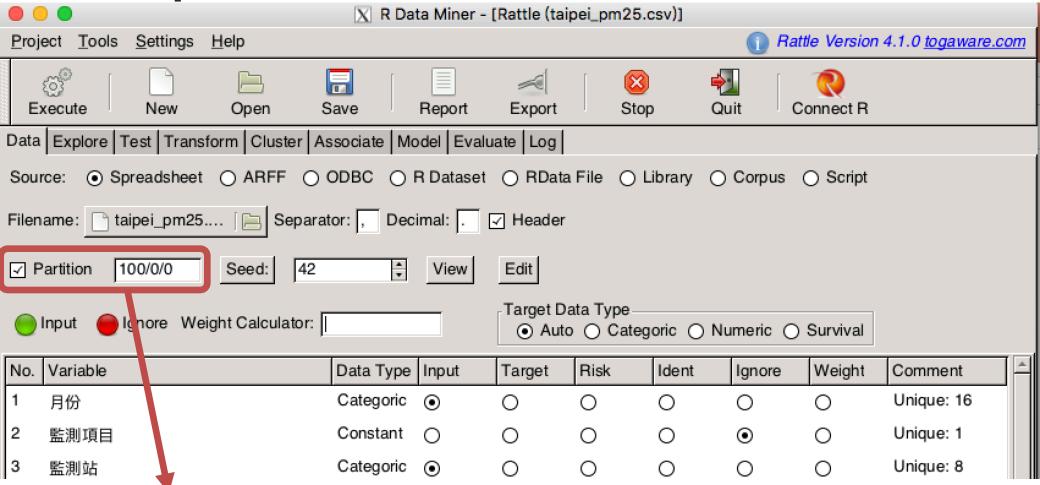






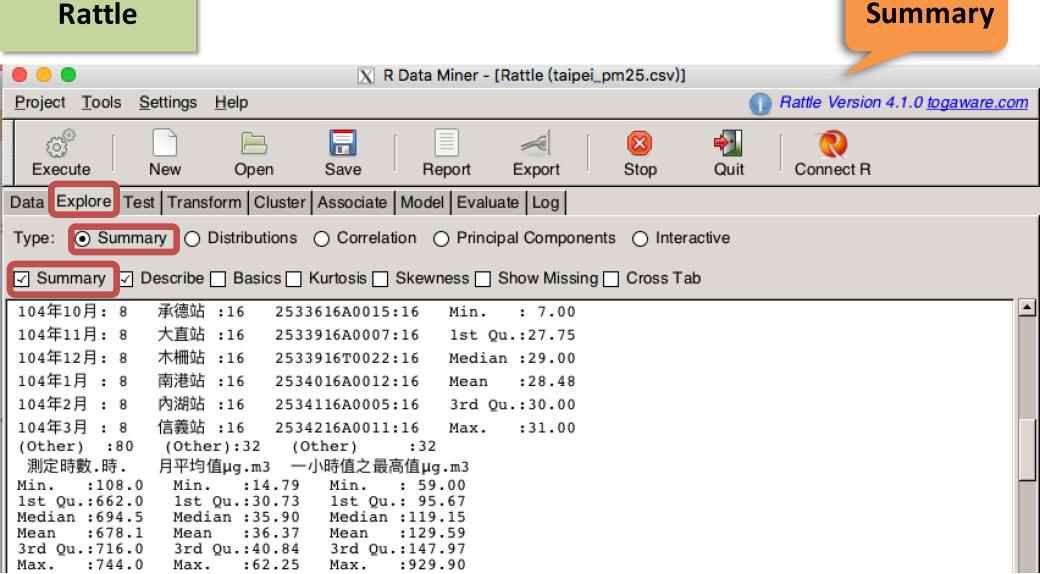






training dataset / validation dataset / test dataset

Rattle



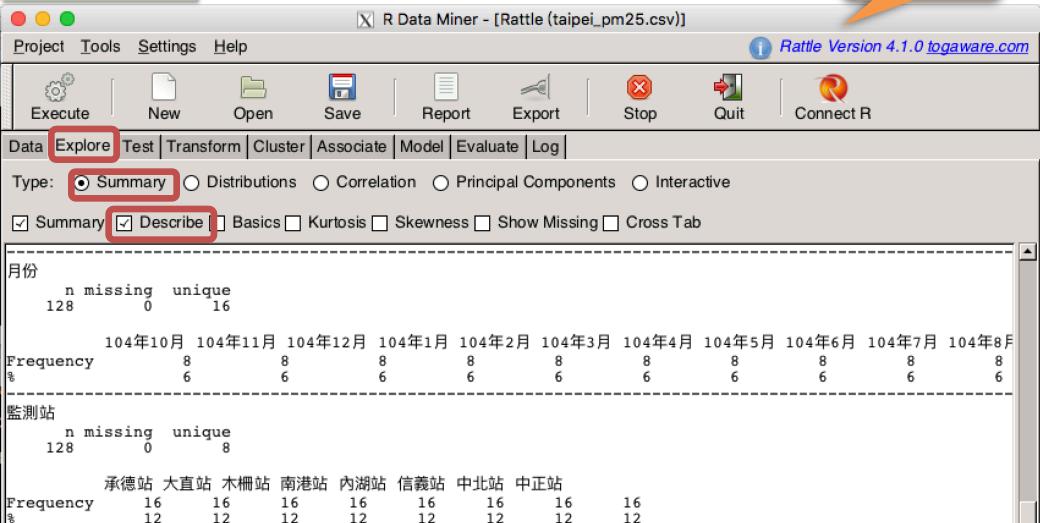
**R Studio** 

Summary

Console ~/ 🔊 > summary(crs\$dataset) 監測站 月份 監測項目 測站編號 104年10月: 8 懸浮微粒:128 承德站 :16 2533616A0015:16 104年11月: 8 大直站 :16 2533916A0007:16 104年12月: 8 木柵站:16 2533916T0022:16 104年1月 : 8 南港站 :16 2534016A0012:16

Rattle

Describe



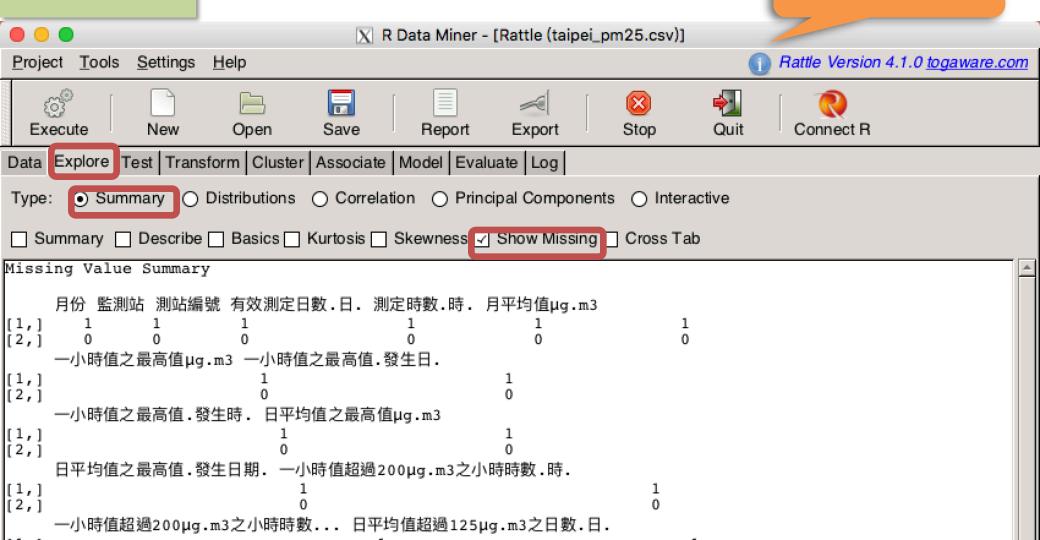
**R Studio** 

**Describe** 

```
Console ~/ 📣
> describe(crs$dataset)
crs$dat/set
                       Package: Himsc
     Variables 128 Observations
 16
月份
      n missing unique
    128
              0
                     16
          104年10月 104年11月 104年12月 104年1月 104年2月
                  8
                            8
                                       8
                                                8
Frequency
                                                         8
                  6
                                                         6
```

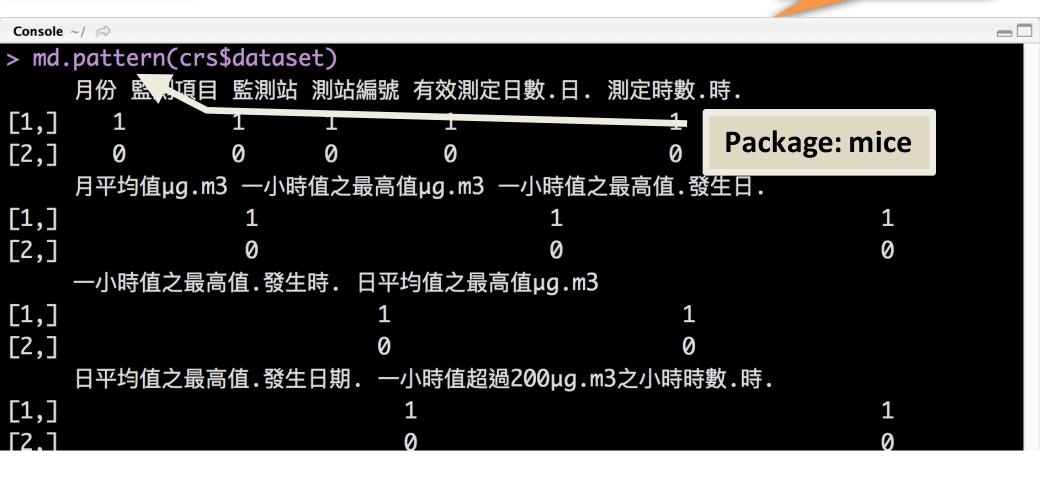
#### Rattle

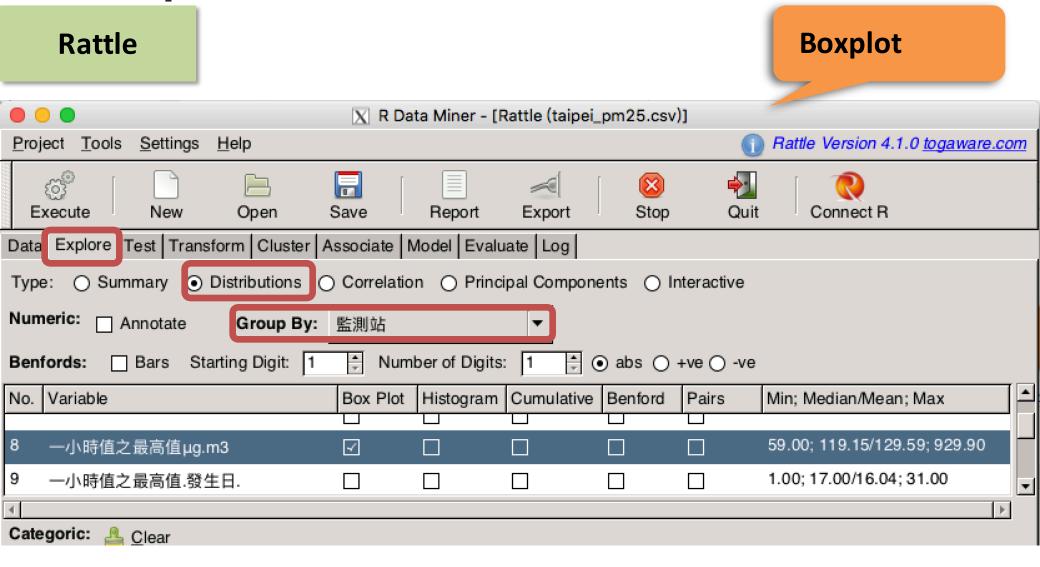
**Missing Value** 

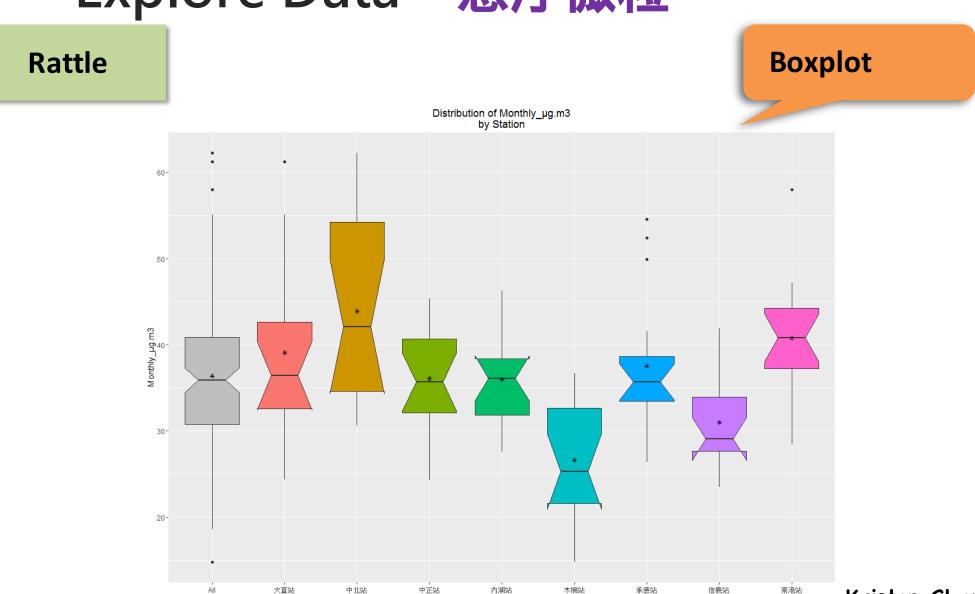


**R Studio** 

**Missing Value** 







Station
Rattle 2016-五月-30 13:19:15 HsinYu

Kristen Chan

#### 鳶尾花(iris)

資料筆數:150

Sepal Length – 花萼長度<cm>

Sepal Width – 花萼寬度<cm>

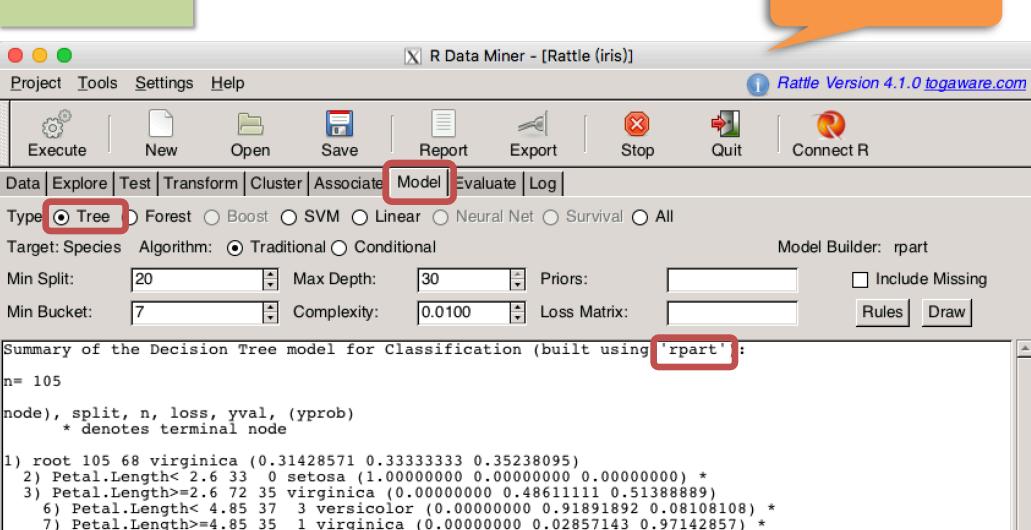
Petal Length - 花瓣長度<cm>

Petal Width - 花瓣 寬度<cm>

Species – iris 種類< Setosa、Versicolor、Virginica >

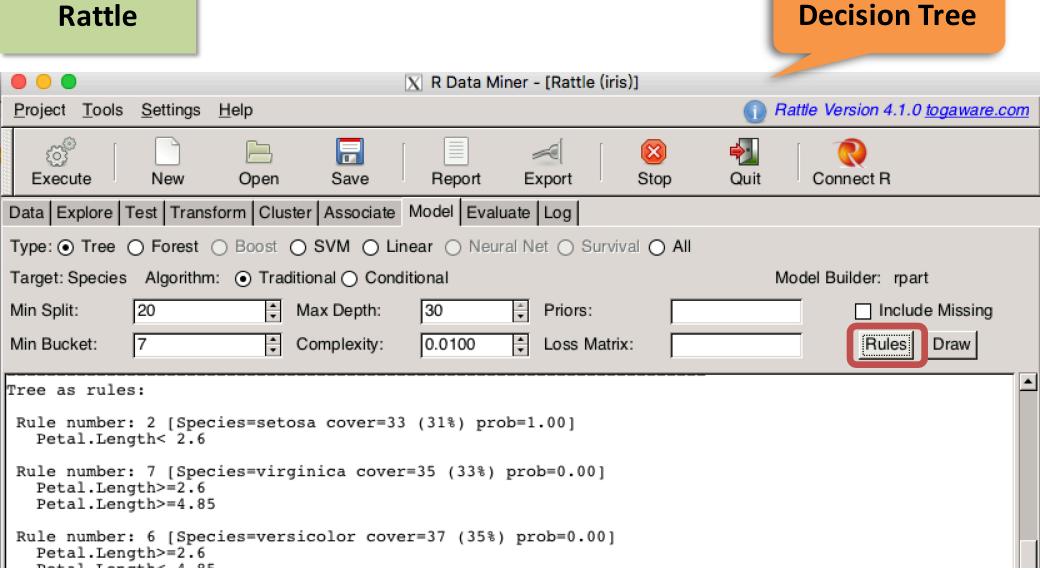
#### Model

# Rattle



**Decision Tree** 

#### Model



#### Model

