

# Power BI and R best frenemies



# What is Power BI

- Originally Excel add-ins



Power Pivot



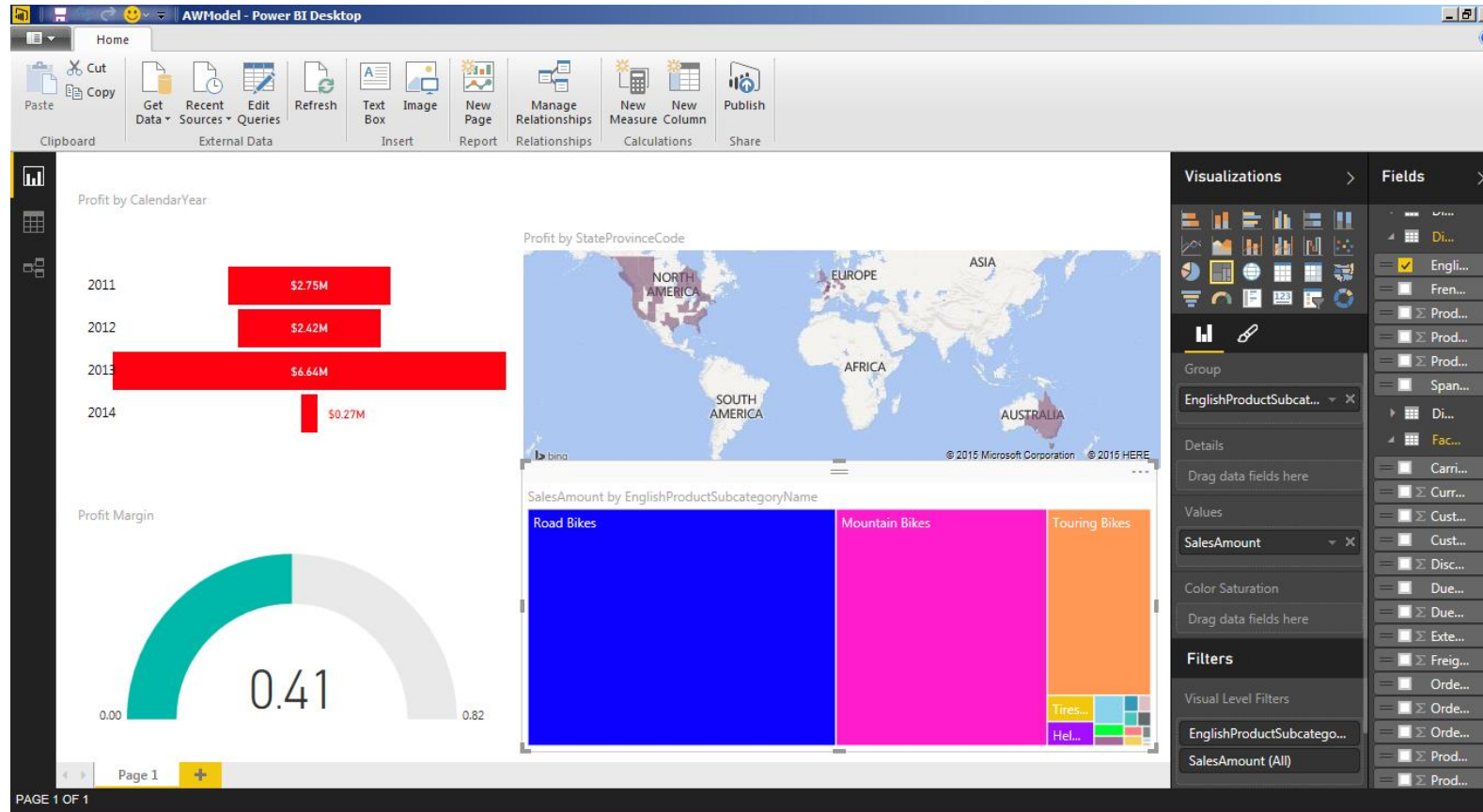
Power view



Power query

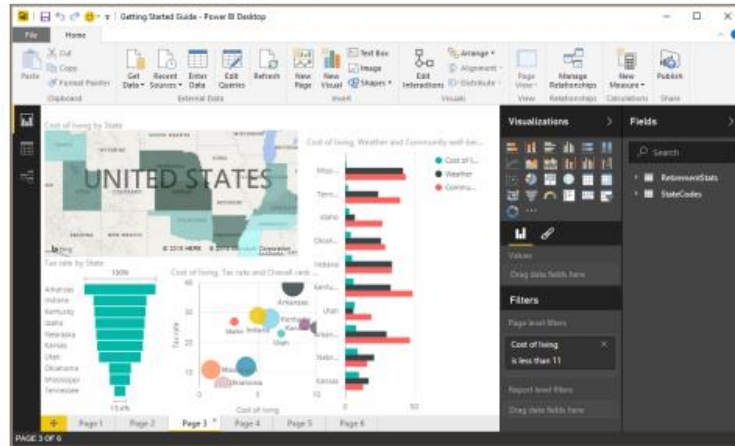


# Power BI Desktop



# Power BI Service

Power BI Desktop



Power BI service



Power BI Mobile

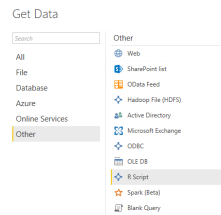


# Power BI integration with R

- R script as a data source
- R Visualisations in Power BI



# R script as a data source



## Execute R Script

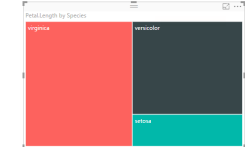
Script

```
m<-mtcars  
i<-iris
```

The R home directory is currently set to C:\Program Files\Microsoft\R Client\R\_SERVER\  
Go to Options & Settings to change which installation you want to run, and for more configuration options.

OK Cancel

WheelLength	SpeedIndex	PriceLength	TotalWeight	Species
1.6	4.1	1.4	0.2	mtcars
4.9	2	1.4	0.2	mtcars
6.7	3.2	1.2	0.2	mtcars
6.4	4.1	1.7	0.2	mtcars
1	3.8	1.4	0.2	mtcars
6.4	4.4	1.4	0.2	mtcars
1	3.4	1.2	0.2	mtcars
4.9	4.4	1.4	0.2	mtcars
1.6	4.1	1.4	0.2	mtcars
4.9	3.9	1.4	0.2	mtcars
4.9	3	1.4	0.2	mtcars
4.9	3	1.2	0.2	mtcars
4.9	4	1.4	0.2	mtcars
3.7	4.4	1.5	0.2	mtcars
1.6	3.8	1.4	0.2	mtcars
3.7	3.9	1.7	0.2	mtcars
1.6	3.8	1.4	0.2	mtcars
3.7	3.4	1.4	0.2	mtcars
1.6	3.7	1.5	0.2	mtcars
4.9	4.4	2	0.2	mtcars



Visualizations

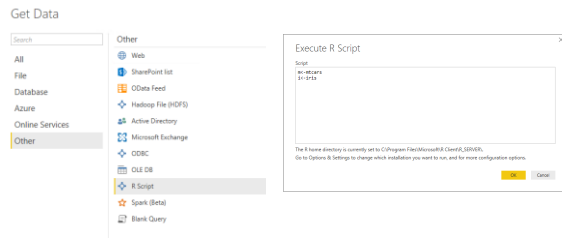
Fields

- Search
- TotalLength
- Species

Species

- setosa
- verano

# R script as a data source



Navigator

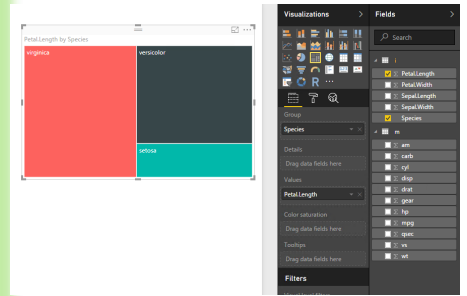
Display Options

R [2]

- i
- m

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5,1	3,5	1,4	0,2	setosa
4,9	3	1,4	0,2	setosa
4,7	3,2	1,3	0,2	setosa
4,6	3,1	1,5	0,2	setosa
5	3,6	1,4	0,2	setosa
5,4	3,9	1,7	0,4	setosa
4,6	3,4	1,4	0,3	setosa
5	3,4	1,5	0,2	setosa
4,4	2,9	1,4	0,2	setosa
4,9	3,1	1,5	0,1	setosa
5,4	3,7	1,5	0,2	setosa
4,8	3,4	1,6	0,2	setosa
4,8	3	1,4	0,1	setosa
4,3	3	1,1	0,1	setosa
5,8	4	1,2	0,2	setosa
5,7	4,4	1,5	0,4	setosa
5,4	3,9	1,3	0,4	setosa
5,1	3,5	1,4	0,3	setosa
5,7	3,8	1,7	0,3	setosa
5,1	3,8	1,5	0,3	setosa
5,4	3,4	1,7	0,2	setosa
5,1	3,7	1,5	0,4	setosa
4,6	3,6	1	0,2	setosa

Load Edit Cancel

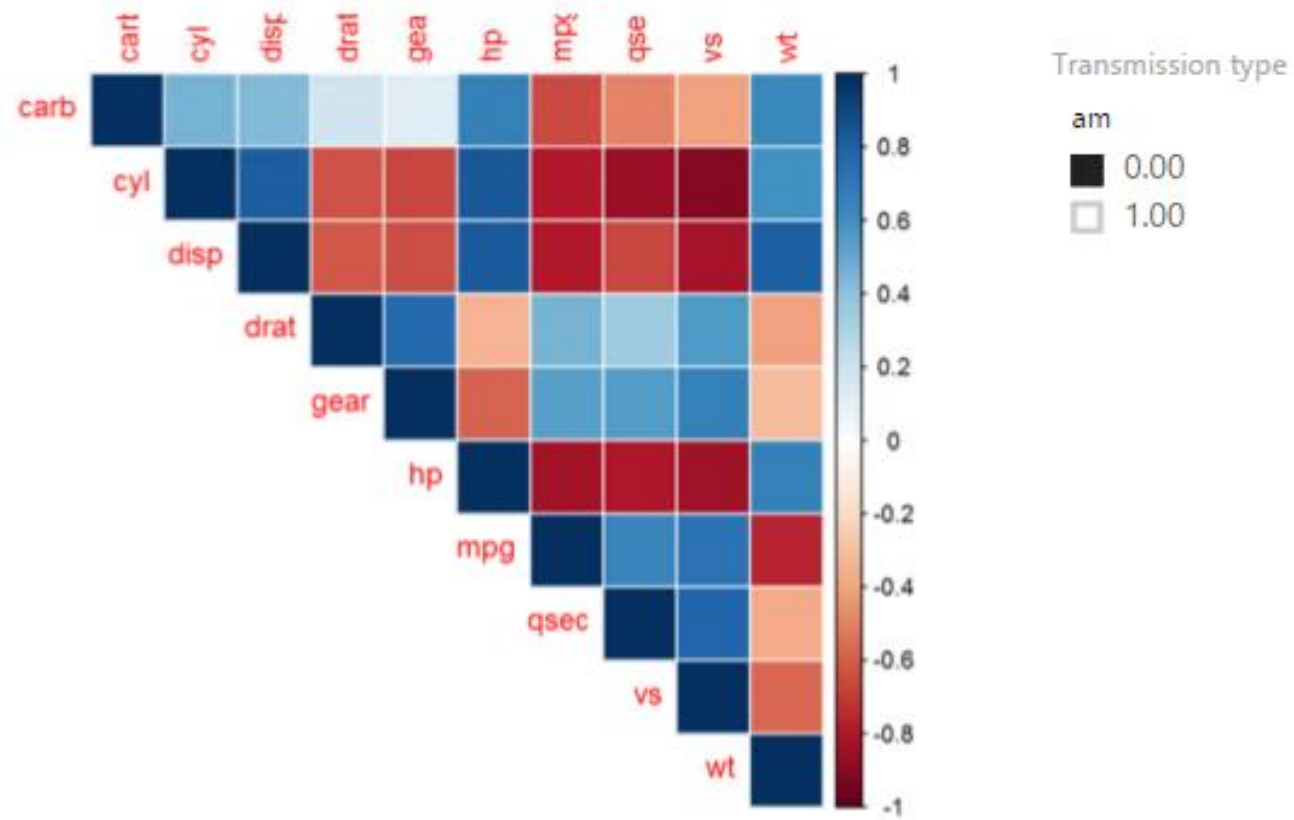




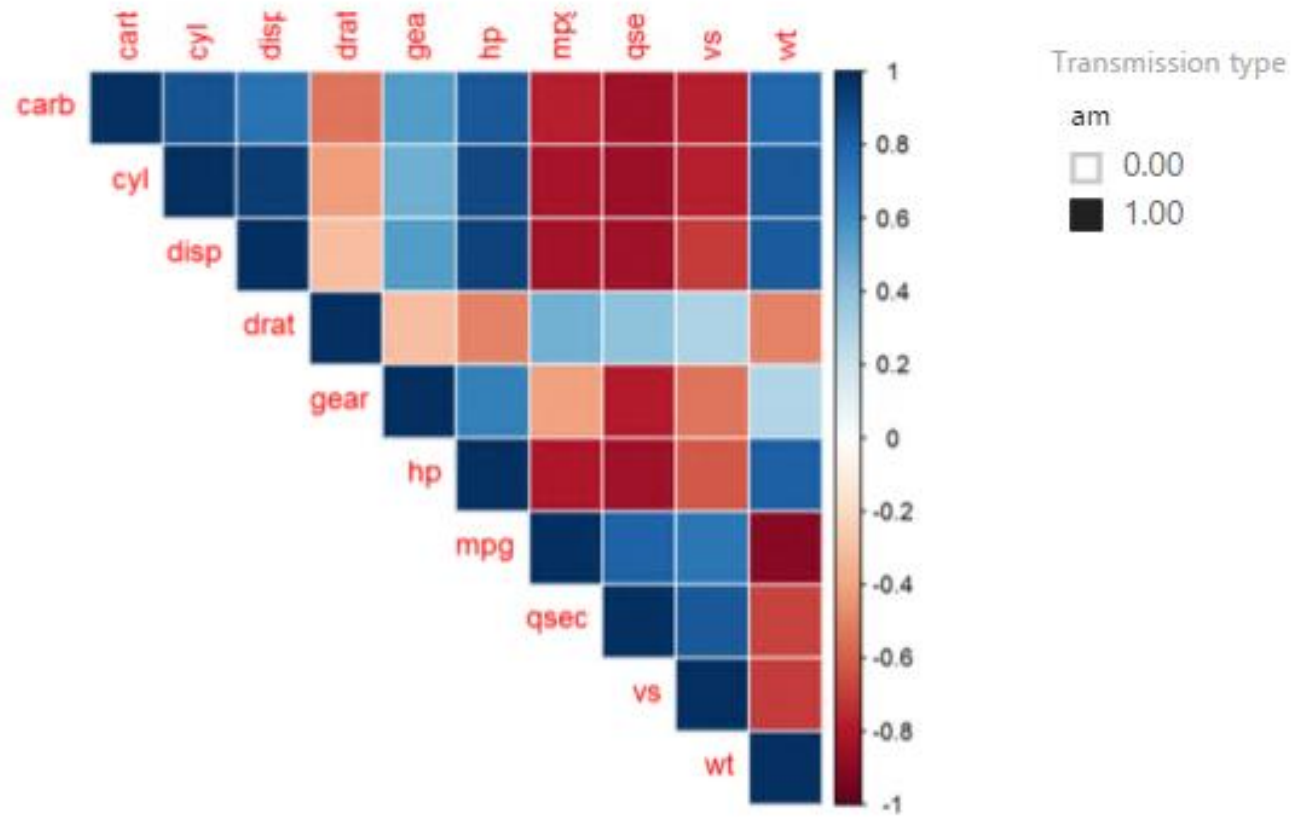




# R Visualisations in Power BI



# R Visualisations in Power BI



Questions?

Thank you