

# Data Transformations in R

# What are Transformations?

- Code that changes the shape of your data

# Transpose

`t(dataFrame)`

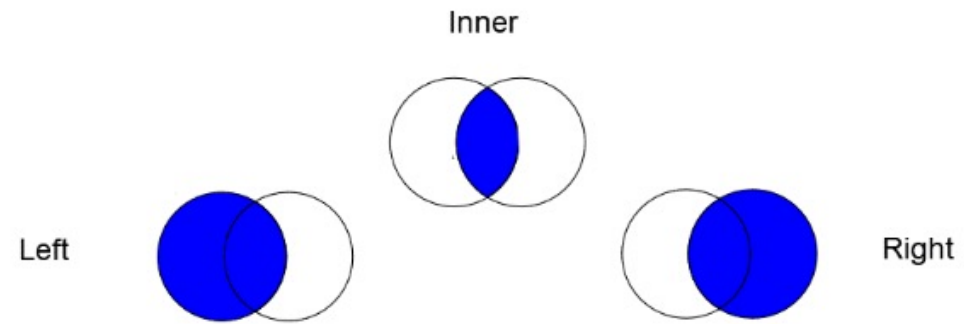
Student	Name	Grade
1	Terry	A
2	Tina	B
3	Tom	A



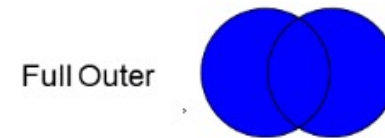
Student	1	2	3
Name	Terry	Tina	Tom
Grade	A	B	A

# Types of Merges

- Like JOIN in SQL



## JOINS



# Merge

NewDataFrame = `merge(data1, data2, by=c("ID"))`

Student	Name	Grade
1	Terry	A
2	Tina	B
3	Tom	A



Student	Class
1	Stats
2	R
3	Python



Student	Name	Grade	Class
1	Terry	A	Stats
2	Tina	B	R
3	Tom	A	Python

# Append – Add Rows

- Must have the same name and number of columns  
`rbind(data1, data2)`

Student	Name	Grade
1	Terry	A
2	Tina	B
3	Tom	A



Student	Name	Grade
4	Gina	A
5	Reggie	B
6	Rufus	C



Student	Name	Grade
1	Terry	A
2	Tina	B
3	Tom	A
4	Gina	A
5	Reggie	B
6	Rufus	C