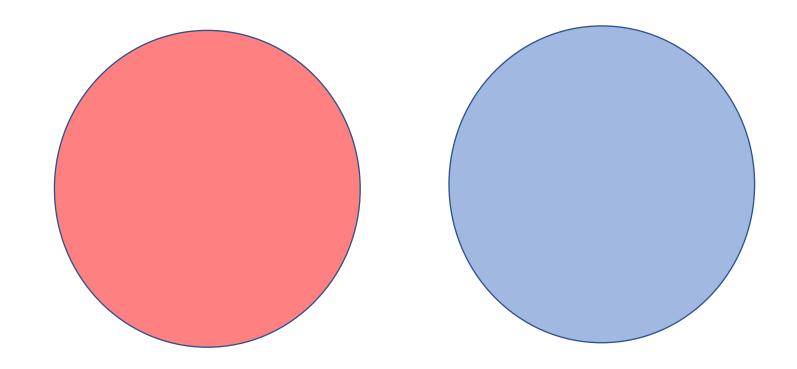
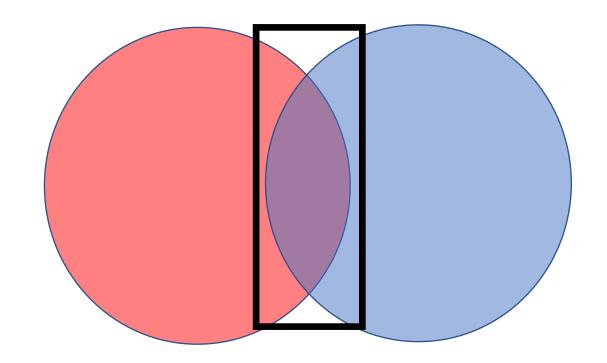
Joining.....

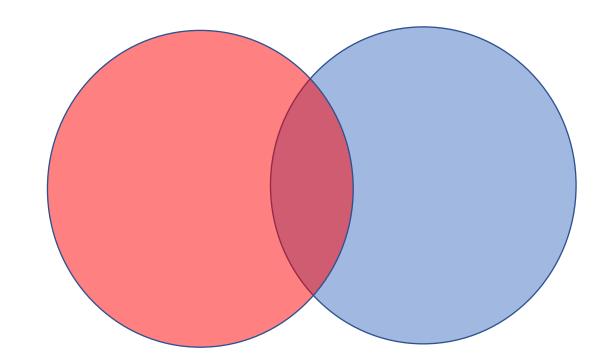


Inner join



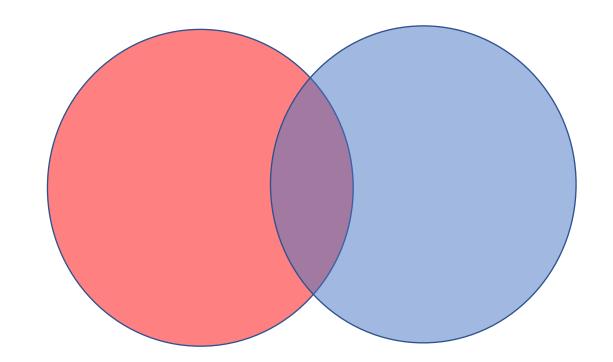
Just what's in both

Left join



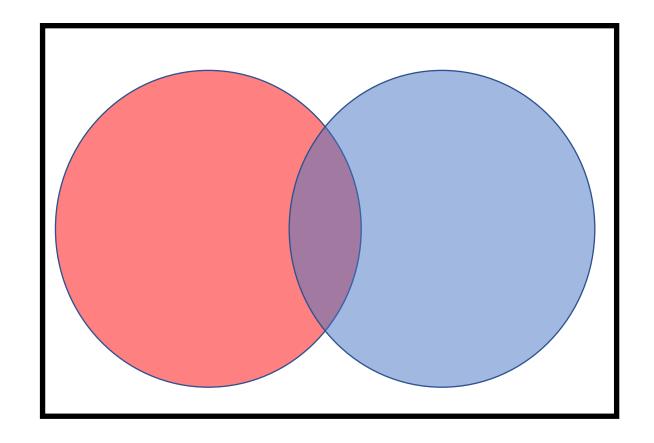
All from left circle, plus any common elements from right – ie no blue bits

Right join



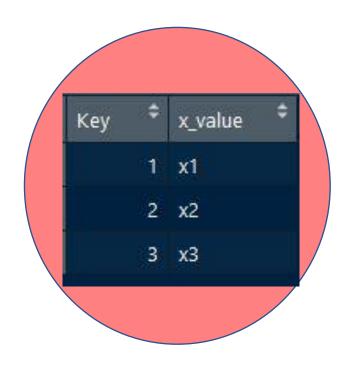
All from right, plus any common elements from left – so no red bits

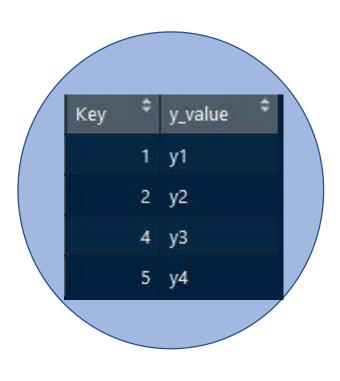
Full join



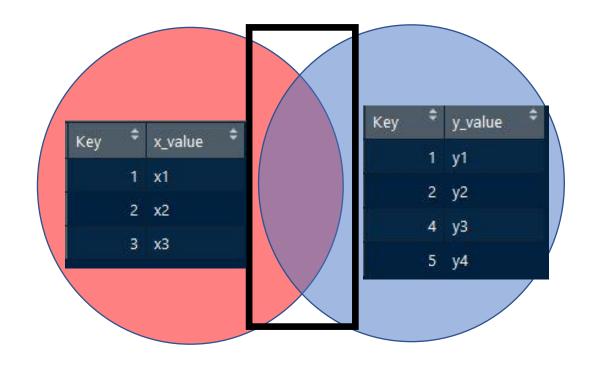
Everything, whether shared or not

Once more with data.....

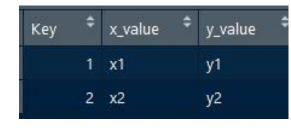




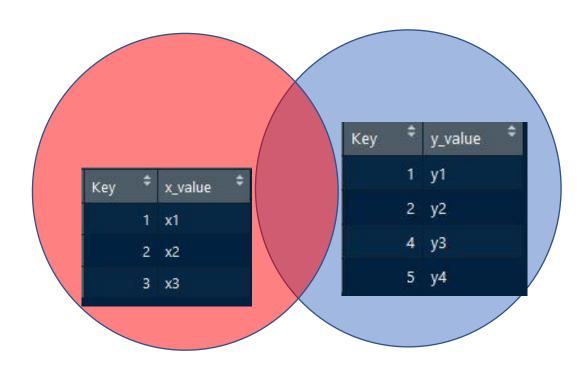
Inner join



Just what's in both

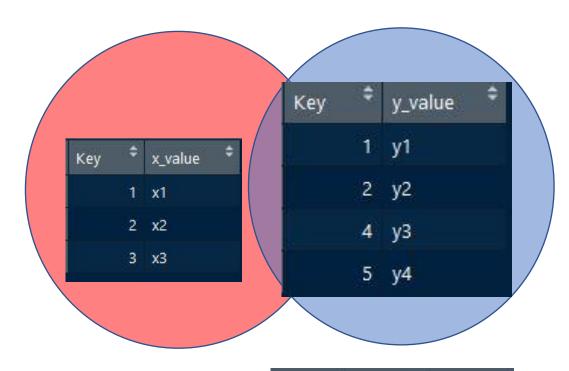


Left join

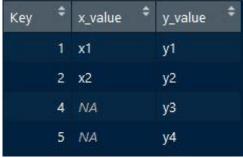


All from left circle, plus any common elements from right – ie no blue bits

Right join

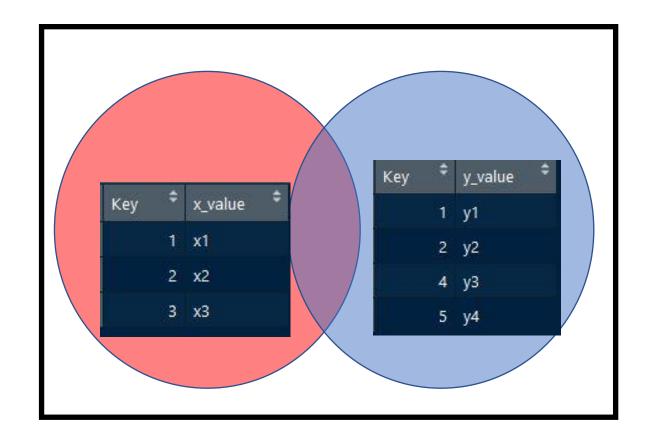


All from right, plus commbits

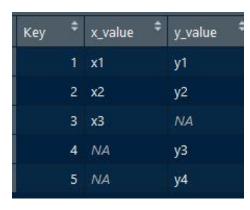


from left – so no red

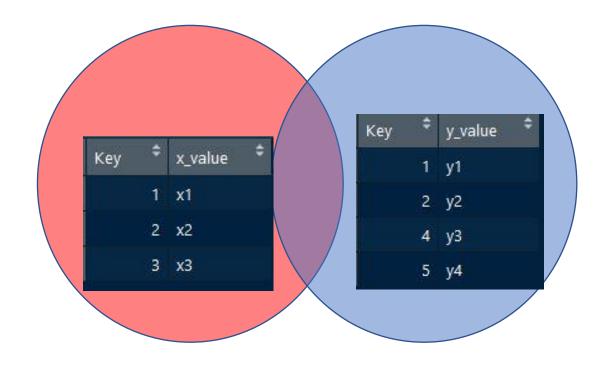
Full join



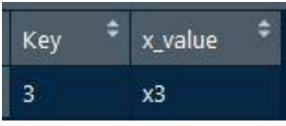
Everything, whether shared or not

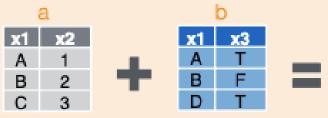


Anti join....



Only what's in red but NOT in blue -



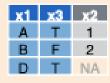


Mutating Joins

x1	x2	х3
Α	1	Т
В	2	F
С	3	NA

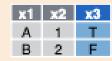
dplyr::left_join(a, b, by = "x1")

Join matching rows from b to a.



dplyr::right_join(a, b, by = "x1")

Join matching rows from a to b.



dplyr::inner_join(a, b, by = "x1")

Join data. Retain only rows in both sets.



dplyr::full_join(a, b, by = "x1")

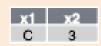
Join data. Retain all values, all rows.

Filtering Joins

x1	x2
Α	1
В	2
12.7	_

dplyr::semi_join(a, b, by = "x1")

All rows in a that have a match in b.



dplyr::anti_join(a, b, by = "x1")

All rows in a that do not have a match in b.

source: https://data-lessons.github.io/gapminder-R/12-joins.html