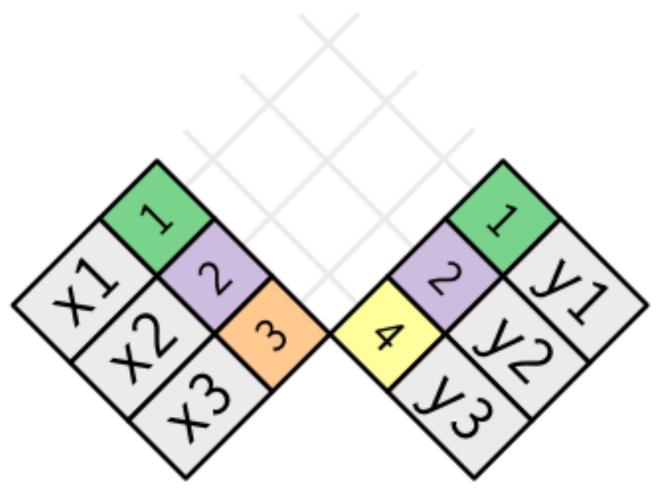
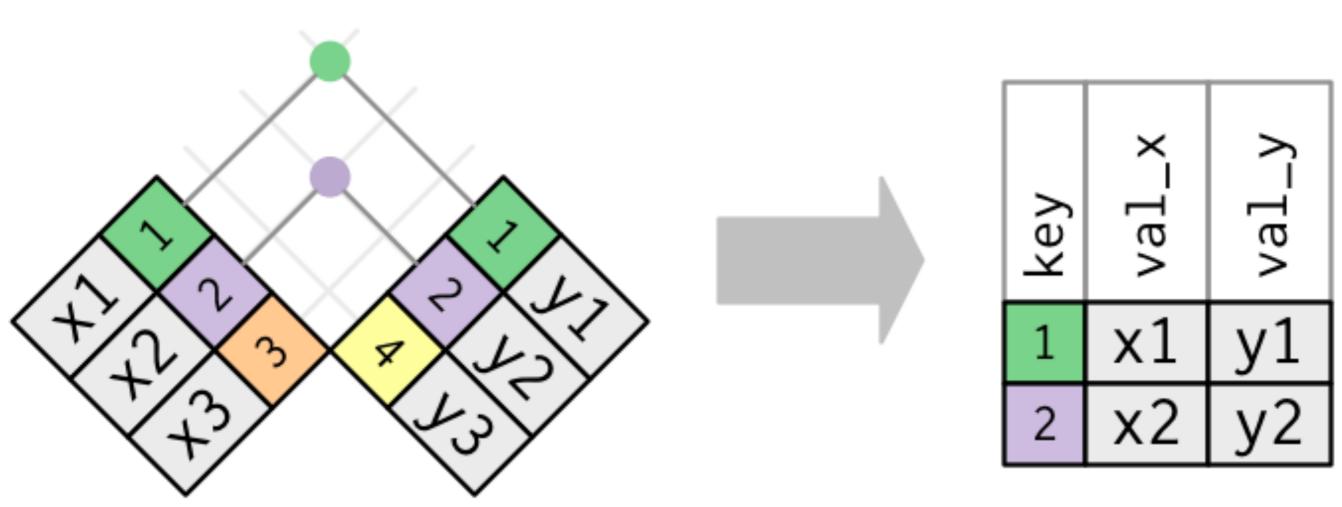
There are several types of join operations

```
x <- tribble(
  ~key, ~val_x,
        "x1",
     1,
     2, "x2",
     3.
        "x3"
  <- tribble(
  ~key, ~val_y,
     1, "y1",
     2, "y2",
     4,
        "v3"
```





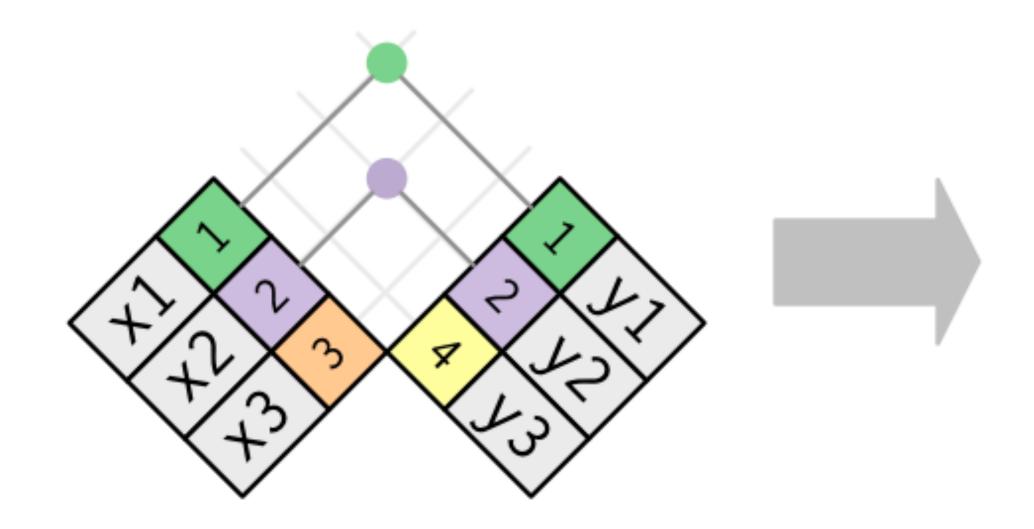
Dots indicate matches during the join

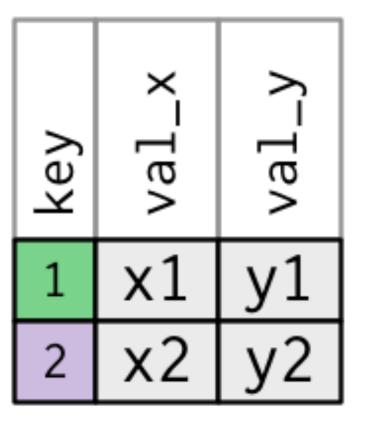
The join shown here is called an "inner join": Inner join matches observations when their keys are equal

```
X %>%
inner_join(y, by = "key")
#> # A tibble: 2 x 3
#> key val x val y
#> <dbl> <chr> <chr>
#> 1
    1 x1 y1
#> 2
    2 x2 y2
```

Inner joins keep observations in both tables

There are several types of join operations





Dots indicate matches during the join

The join shown here is called an "inner join": Inner join matches observations when their keys are equal

Inner joins keep observations in **both** tables

Outer joins versus inner joins

