

# Intersection, Union and Difference off Arrays in ruby

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– Difference - Returns a new array that is a copy of the first array with any items that also appear in second array removed.

& Intersection - Creates a new array from two existing arrays containing only elements that are common to both arrays. Duplicates are removed.

| Union - Concatenates two arrays. Duplicates are removed.

Examples:

```
food1 = ['pizza', 'hotdog', 'wurst', 'frits', 'pie']  
food2 = ['pizza', 'hamburger', 'wurst']
```

The difference between the 2 arrays

```
2.7.0 :003 > food1 - food2  
=> ["hotdog", "frits", "pie"]
```

Get the elements that are common to both arrays.

```
2.7.0 :004 > food1 & food2  
=> ["pizza", "wurst"]
```

Union of the two arrays.

```
2.7.0 :005 > food1 | food2  
=> ["pizza", "hotdog", "wurst", "frits", "pie", "hamburger"]
```