



Subsetting Vectors





Subset by index





Subset by name





Subset multiple elements

```
> remain <- c(spades = 11, hearts = 12,
              diamonds = 11, clubs = 13)
> remain_black <- remain[c(1, 4)]</pre>
> remain_black
spades clubs
                     order in selection vector matters!
    11 13
> remain[c(4, 1)]
 clubs spades
    13
           11
> remain[c("clubs", "spades")]
 clubs spades
    13
```





Subset all but some

```
> remain <- c(spades = 11, hearts = 12,
             diamonds = 11, clubs = 13)
> remain[-1]
                               All but index 1 are returned
  hearts diamonds clubs
     12 11
                       13
> remain[-c(1, 2)]
diamonds clubs
      11
              13
> remain[-"spades"]
Error in -"spades" : invalid argument to unary operator
```





Subset using logical vector

```
> remain <- c(spades = 11, hearts = 12,
             diamonds = 11, clubs = 13)
> remain[c(FALSE, TRUE, FALSE, TRUE)]
hearts clubs
   12 13
> selection_vector <- c(FALSE, TRUE, FALSE, TRUE)
> remain[selection_vector]
hearts clubs
    12 13
```





Subset using logical vector

```
> remain <- c(spades = 11, hearts = 12,
              diamonds = 11, clubs = 13)
> remain[c(TRUE, FALSE)]
                             R recycles c(T, F) to c(T, F, T, F)
  spades diamonds
> remain[c(TRUE, FALSE, TRUE, FALSE)]
  spades diamonds
      11
> remain[c(TRUE, FALSE, TRUE)]
 spades diamonds clubs
> remain[c(TRUE, FALSE, TRUE, TRUE)]
  spades diamonds clubs
      11
               11
                        13
```





Let's practice!