

Remove rows from dataset

Luis Serra @ Ubiquim Code Academy

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1 Goal

The goal of this tutorial is to learn how to remove rows from our dataset.

2 Data import

```
# In this tutorial we are going to use the iris dataset
data("iris")
str(iris)

## 'data.frame':    150 obs. of  5 variables:
##  $ Sepal.Length: num  5.1 4.9 4.7 4.6 5 5.4 4.6 5 4.4 4.9 ...
##  $ Sepal.Width : num  3.5 3 3.2 3.1 3.6 3.9 3.4 3.4 2.9 3.1 ...
##  $ Petal.Length: num  1.4 1.4 1.3 1.5 1.4 1.7 1.4 1.5 1.4 1.5 ...
##  $ Petal.Width : num  0.2 0.2 0.2 0.2 0.2 0.4 0.3 0.2 0.2 0.1 ...
##  $ Species      : Factor w/ 3 levels "setosa","versicolor",...: 1 1 1 1 1 1 1 1 1 1 ...
```

3 Removing rows by number

```
# When using dataframes we can call elements with the logic
# Dataframe[ rownumber, colnumber]
# In this case we are calling the first row and first column element
iris[1,1]
```

```
## [1] 5.1
```

```
# We can call entire rows using the logic
# Dataframe[ rownumber, ]
iris[5, ]
```

```
## Sepal.Length Sepal.Width Petal.Length Petal.Width Species
## 5           5           3.6           1.4           0.2 setosa
```

```
# At the same time we can use negative numbers to call all rows except the ones we call
# We can see that the row #5 is gone
```

```
head(iris[-5, ])
## Sepal.Length Sepal.Width Petal.Length Petal.Width Species
## 1           5.1           3.5           1.4           0.2 setosa
## 2           4.9           3.0           1.4           0.2 setosa
## 3           4.7           3.2           1.3           0.2 setosa
## 4           4.6           3.1           1.5           0.2 setosa
## 6           5.4           3.9           1.7           0.4 setosa
## 7           4.6           3.4           1.4           0.3 setosa
```

```
# We can use a vector to remove more than one row at the time
# Now rows 1, 4 and 6 are missing
```

```
head(iris[ -c(1, 4, 6), ])
## Sepal.Length Sepal.Width Petal.Length Petal.Width Species
## 2           4.9           3.0           1.4           0.2 setosa
## 3           4.7           3.2           1.3           0.2 setosa
## 5           5.0           3.6           1.4           0.2 setosa
## 7           4.6           3.4           1.4           0.3 setosa
## 8           5.0           3.4           1.5           0.2 setosa
## 9           4.4           2.9           1.4           0.2 setosa
```

4 Conclusion

In this tutorial we have learnt how to remove rows from a dataset calling them by number.