Edgar Anderson's Iris Data

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Description

This famous (Fisher's or Anderson's) iris data set gives the measurements in centimeters of the variables sepal length and width and petal length and width, respectively, for 50 flowers from each of 3 species of iris. The species are *Iris setosa*, *versicolor*, and *virginica*.

Usage

iris

Format

iris is a data frame with 150 cases (rows) and 5 variables (columns) named:

- Sepal.Length
- Sepal.Width
- Petal.Length
- Petal.Width
- Species

Source

Anderson, Edgar (1935). "The irises of the Gaspe Peninsula.", Bulletin of the American Iris Society, **59**: 2–5. Fisher, Ronald A. (1936). "The use of multiple measurements in taxonomic problems.", Annals of Eugenics, **7** (Part II): 179–188.

Examples

We investigate the Sepal and Petal leaves for the three species in the Iris data:

summary(iris)

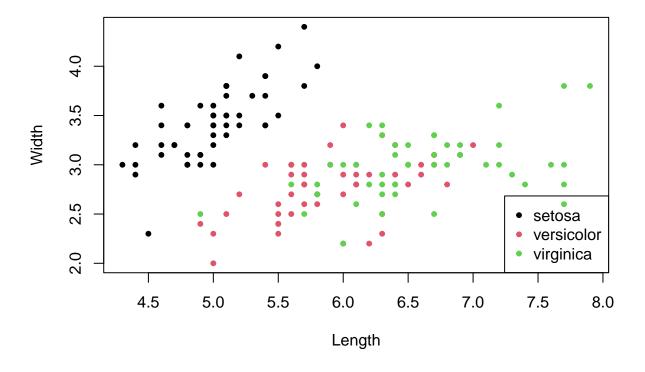
```
## Sepal.Length Sepal.Width Petal.Length Petal.Width ## Min. :4.300 Min. :2.000 Min. :1.000 Min. :0.100
```

```
##
    1st Qu.:5.100
                     1st Qu.:2.800
                                     1st Qu.:1.600
                                                      1st Qu.:0.300
##
    Median :5.800
                    Median :3.000
                                     Median :4.350
                                                      Median :1.300
    Mean
           :5.843
                                            :3.758
##
                    Mean
                            :3.057
                                     Mean
                                                      Mean
                                                             :1.199
    3rd Qu.:6.400
                     3rd Qu.:3.300
                                     3rd Qu.:5.100
##
                                                      3rd Qu.:1.800
##
           :7.900
                    Max.
                            :4.400
                                     Max.
                                             :6.900
                                                      Max.
                                                             :2.500
##
          Species
##
    setosa
              :50
##
    versicolor:50
##
    virginica:50
##
##
##
```

To examine the Sepal leaves, we select the length and the width:

```
llen <- iris$Sepal.Length
lwid <- iris$Sepal.Width</pre>
```

Then we plot the data:



We can also select the Petal leaves:

```
llen <- iris$Petal.Length
lwid <- iris$Petal.Width</pre>
```

This gives us the following plot:

