Iris Data Set

TL

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Description
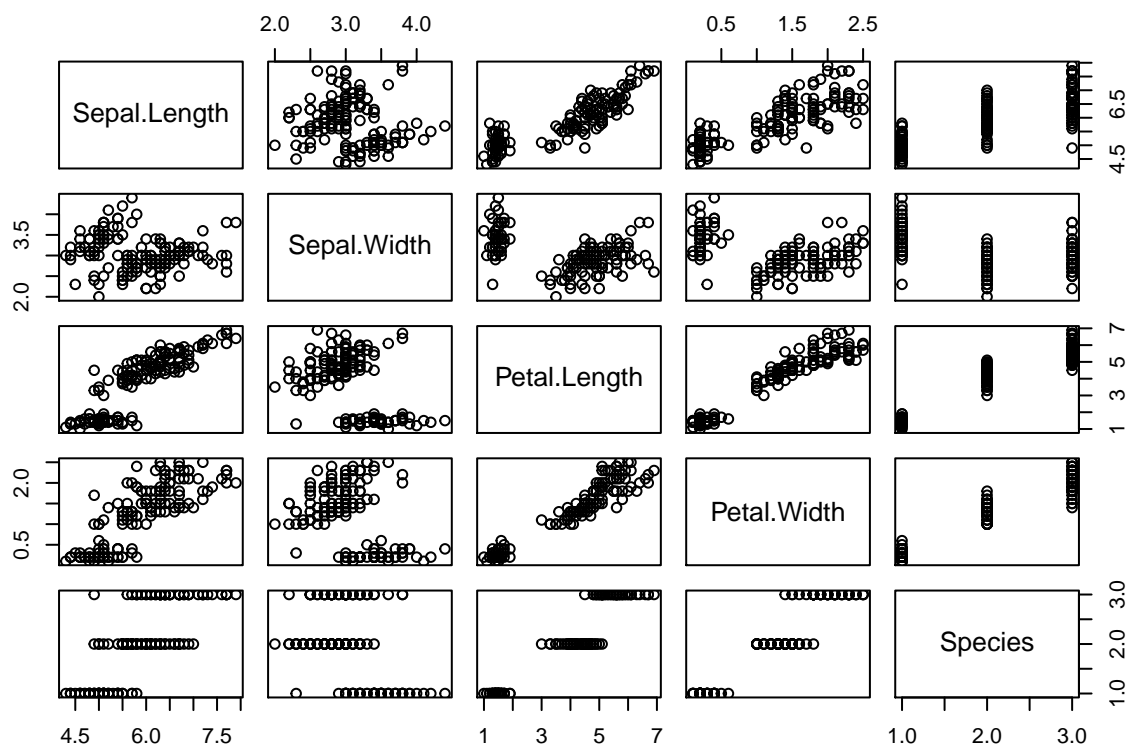
```
summary(iris)
```

```
##   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   Mean   :3.057   Mean   :3.758   Mean   :1.199
##  3rd Qu.:6.400   3rd Qu.:3.300   3rd Qu.:5.100   3rd Qu.:1.800
##  Max.   :7.900   Max.   :4.400   Max.   :6.900   Max.   :2.500
##        Species
##  setosa    :50
##  versicolor:50
##  virginica :50
##
##
##
```

	Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
1	Min. :4.300	Min. :2.000	Min. :1.000	Min. :0.100	setosa :50
2	1st Qu.:5.100	1st Qu.:2.800	1st Qu.:1.600	1st Qu.:0.300	versicolor:50
3	Median :5.800	Median :3.000	Median :4.350	Median :1.300	virginica :50
4	Mean :5.843	Mean :3.057	Mean :3.758	Mean :1.199	
5	3rd Qu.:6.400	3rd Qu.:3.300	3rd Qu.:5.100	3rd Qu.:1.800	
6	Max. :7.900	Max. :4.400	Max. :6.900	Max. :2.500	

Table 1: Summary of the data set

Scatterplot Matrix


```r
iris[['Is.Versicolor']] <- as.numeric(iris[['Species']] == 'versicolor')
iris[['Is.Virginica']] <- as.numeric(iris[['Species']] == 'virginica')
fit.1 <- glm(Is.Versicolor ~ Petal.Length + Sepal.Length, data = iris)
fit.2 <- glm(Is.Virginica ~ Petal.Length + Sepal.Length, data = iris)
#summary(fit)
output <- capture.output(stargazer(fit.1, fit.2, title = 'Regression Results',  summary=FALSE, header=F.
cat(output)
```

Table 2: Regression Results

	Dependent variable:	
	Is.Versicolor	Is.Virginica
	(1)	(2)
Petal.Length	0.148***	0.184***
	(0.043)	(0.031)
Sepal.Length	−0.230**	0.023
	(0.092)	(0.067)
Constant	1.119***	−0.490*
	(0.407)	(0.294)
Observations	150	150
Log Likelihood	−94.823	−45.951
Akaike Inf. Crit.	195.646	97.902
Note:	*p<0.1; **p<0.05; ***p<0.01	