PWAS_Episode_1

2023-07-09

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Présentation des avantages de Rmarkdown

Liste non numéroté

- Reproductibilité
- Documentation automatique des résultats

Liste numéroté

- 1. Reproductibilité
- 2. Documentation automatique du résultat

Avantage 1: Reproductibilité

Avantage 2: Documentation automatique des résultats

Option de mode modification du texte

Mettre en gras

Ceci est un texte en **gras**

Mettre en Italique

Ceci est un texte en italique

Mettre en gras et en italique

Ceci est un texte en gras et en italique

Ajouter des liens sur le markdown

Abonnez-vous sur LeCoinStat en cliquant ici

Ajouter des equations mathématique

Ceci est une équation mathématique a + b = c

Insérer une image

Voici une image dans le documen



Faire du code avec markdown

```
data(iris)
head(iris)
     Sepal.Length Sepal.Width Petal.Length Petal.Width Species
##
## 1
             5.1
                         3.5
                                      1.4
                                                  0.2 setosa
             4.9
## 2
                         3.0
                                      1.4
                                                  0.2 setosa
## 3
             4.7
                         3.2
                                      1.3
                                                  0.2 setosa
             4.6
## 4
                         3.1
                                      1.5
                                                  0.2 setosa
## 5
             5.0
                         3.6
                                      1.4
                                                  0.2 setosa
## 6
             5.4
                         3.9
                                      1.7
                                                  0.4 setosa
summary(iris)
     Sepal.Length
                    Sepal.Width
                                    Petal.Length
                                                    Petal.Width
##
         :4.300
                                          :1.000
                                                         :0.100
##
   Min.
                   Min.
                          :2.000
                                   Min.
                                                   Min.
##
   1st Qu.:5.100
                   1st Qu.:2.800
                                   1st Qu.:1.600
                                                   1st Qu.:0.300
                                   Median :4.350
   Median :5.800
##
                   Median :3.000
                                                   Median :1.300
   Mean
          :5.843
                   Mean
                                   Mean :3.758
                                                   Mean
                                                          :1.199
##
                         :3.057
##
   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
##
```

```
##
##
```

Ne pas afficher le code

```
##
     Sepal.Length Sepal.Width Petal.Length Petal.Width Species
## 1
              5.1
                          3.5
                                       1.4
                                                   0.2 setosa
              4.9
## 2
                          3.0
                                       1.4
                                                   0.2 setosa
## 3
              4.7
                          3.2
                                                   0.2 setosa
                                       1.3
## 4
              4.6
                          3.1
                                                   0.2 setosa
                                       1.5
## 5
              5.0
                          3.6
                                       1.4
                                                   0.2 setosa
## 6
              5.4
                          3.9
                                       1.7
                                                   0.4 setosa
##
                     Sepal.Width
                                                     Petal.Width
    Sepal.Length
                                     Petal.Length
                                           :1.000
##
   Min.
          :4.300
                    Min.
                           :2.000
                                    Min.
                                                    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
##
##
##
```

Afficher le code sans le résultat

data(iris)
head(iris)
summary(iris)

Faire de plus beaux tableaux

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.1	3.5	1.4	0.2	setosa
4.9	3.0	1.4	0.2	setosa
4.7	3.2	1.3	0.2	setosa
4.6	3.1	1.5	0.2	setosa
5.0	3.6	1.4	0.2	setosa
5.4	3.9	1.7	0.4	setosa
4.6	3.4	1.4	0.3	setosa
5.0	3.4	1.5	0.2	setosa
4.4	2.9	1.4	0.2	setosa
4.9	3.1	1.5	0.1	setosa
5.4	3.7	1.5	0.2	setosa

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
4.8	3.4	1.6	0.2	setosa
4.8	3.0	1.4	0.1	setosa
4.3	3.0	1.1	0.1	setosa
5.8	4.0	1.2	0.2	setosa
5.7	4.4	1.5	0.4	setosa
5.4	3.9	1.3	0.4	setosa
5.1	3.5	1.4	0.3	setosa
5.7	3.8	1.7	0.3	setosa
5.1	3.8	1.5	0.3	setosa
5.4	3.4	1.7	0.2	setosa
5.1	3.7	1.5	0.4	setosa
4.6	3.6	1.0	0.2	setosa
5.1	3.3	1.7	0.5	setosa
4.8	3.4	1.9	0.2	setosa
5.0	3.0	1.6	0.2	setosa
5.0	3.4	1.6	0.4	setosa
5.2	3.5	1.5	0.2	setosa
5.2	3.4	1.4	0.2	setosa
4.7	3.2	1.6	0.2	setosa
4.8	3.1	1.6	0.2	setosa
5.4	3.4	1.5	0.4	setosa
5.2	4.1	1.5	0.1	setosa
5.5	4.2	1.4	0.2	setosa
4.9	3.1	1.5	0.2	setosa
5.0	3.2	1.2	0.2	setosa
5.5	3.5	1.3	0.2	setosa
4.9	3.6	1.4	0.1	setosa
4.4	3.0	1.3	0.2	setosa
5.1	3.4	1.5	0.2	setosa
5.0	3.5	1.3	0.3	setosa
4.5	2.3	1.3	0.3	setosa
4.4	3.2	1.3	0.2	setosa
5.0	3.5	1.6	0.6	setosa
5.1	3.8	1.9	0.4	setosa
4.8	3.0	1.4	0.3	setosa

Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
5.1	3.8	1.6	0.2	setosa
4.6	3.2	1.4	0.2	setosa
5.3	3.7	1.5	0.2	setosa
5.0	3.3	1.4	0.2	setosa
7.0	3.2	4.7	1.4	versicolor
6.4	3.2	4.5	1.5	versicolor
6.9	3.1	4.9	1.5	versicolor
5.5	2.3	4.0	1.3	versicolor
6.5	2.8	4.6	1.5	versicolor
5.7	2.8	4.5	1.3	versicolor
6.3	3.3	4.7	1.6	versicolor
4.9	2.4	3.3	1.0	versicolor
6.6	2.9	4.6	1.3	versicolor
5.2	2.7	3.9	1.4	versicolor
5.0	2.0	3.5	1.0	versicolor
5.9	3.0	4.2	1.5	versicolor
6.0	2.2	4.0	1.0	versicolor
6.1	2.9	4.7	1.4	versicolor
5.6	2.9	3.6	1.3	versicolor
6.7	3.1	4.4	1.4	versicolor
5.6	3.0	4.5	1.5	versicolor
5.8	2.7	4.1	1.0	versicolor
6.2	2.2	4.5	1.5	versicolor
5.6	2.5	3.9	1.1	versicolor
5.9	3.2	4.8	1.8	versicolor
6.1	2.8	4.0	1.3	versicolor
6.3	2.5	4.9	1.5	versicolor
6.1	2.8	4.7	1.2	versicolor
6.4	2.9	4.3	1.3	versicolor
6.6	3.0	4.4	1.4	versicolor
6.8	2.8	4.8	1.4	versicolor
6.7	3.0	5.0	1.7	versicolor
6.0	2.9	4.5	1.5	versicolor
5.7	2.6	3.5	1.0	versicolor
5.5	2.4	3.8	1.1	versicolor

5.5 2.4 3.7 1.0 versicolor 5.8 2.7 3.9 1.2 versicolor 6.0 2.7 5.1 1.6 versicolor 5.4 3.0 4.5 1.5 versicolor 6.0 3.4 4.5 1.6 versicolor 6.7 3.1 4.7 1.5 versicolor 6.3 2.3 4.4 1.3 versicolor 5.6 3.0 4.1 1.3 versicolor 5.5 2.5 4.0 1.3 versicolor 5.5 2.6 4.4 1.2 versicolor 5.8 2.6 4.0 1.2 versicolor 5.8 2.6 4.0 1.2 versicolor 5.0 2.3 3.3 1.0 versicolor 5.6 2.7 4.2 1.3 versicolor 5.7 3.0 4.2 1.2 versicolor 5.7 2.9 4.2 1.3 versicolor 5.7 2.9 4.2 1.3 ver	Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
6.0 2.7 5.1 1.6 versicolor 5.4 3.0 4.5 1.5 versicolor 6.0 3.4 4.5 1.6 versicolor 6.7 3.1 4.7 1.5 versicolor 6.3 2.3 4.4 1.3 versicolor 5.6 3.0 4.1 1.3 versicolor 5.5 2.5 4.0 1.3 versicolor 5.5 2.6 4.4 1.2 versicolor 6.1 3.0 4.6 1.4 versicolor 5.8 2.6 4.0 1.2 versicolor 5.0 2.3 3.3 1.0 versicolor 5.6 2.7 4.2 1.3 versicolor 5.7 3.0 4.2 1.2 versicolor 5.7 2.9 4.2 1.3 versicolor 5.7 2.9 4.2 1.3 versicolor 5.7 2.8 4.1 1.3 versicolor 5.7 2.8 4.1 1.3 ver	5.5	2.4	3.7	1.0	versicolor
5.4 3.0 4.5 1.5 versicolor 6.0 3.4 4.5 1.6 versicolor 6.7 3.1 4.7 1.5 versicolor 6.3 2.3 4.4 1.3 versicolor 5.6 3.0 4.1 1.3 versicolor 5.5 2.5 4.0 1.3 versicolor 5.5 2.6 4.4 1.2 versicolor 6.1 3.0 4.6 1.4 versicolor 5.8 2.6 4.0 1.2 versicolor 5.0 2.3 3.3 1.0 versicolor 5.6 2.7 4.2 1.3 versicolor 5.7 3.0 4.2 1.2 versicolor 5.7 2.9 4.2 1.3 versicolor 5.7 2.9 4.2 1.3 versicolor 5.7 2.9 4.2 1.3 versicolor 5.7 2.8 4.1 1.3 versicolor 5.7 2.8 4.1 1.3 ver	5.8	2.7	3.9	1.2	versicolor
6.0 3.4 4.5 1.6 versicolor 6.7 3.1 4.7 1.5 versicolor 6.3 2.3 4.4 1.3 versicolor 5.6 3.0 4.1 1.3 versicolor 5.5 2.5 4.0 1.3 versicolor 5.5 2.6 4.4 1.2 versicolor 6.1 3.0 4.6 1.4 versicolor 5.8 2.6 4.0 1.2 versicolor 5.0 2.3 3.3 1.0 versicolor 5.0 2.3 3.3 1.0 versicolor 5.6 2.7 4.2 1.3 versicolor 5.7 3.0 4.2 1.2 versicolor 5.7 2.9 4.2 1.3 versicolor 5.7 2.9 4.2 1.3 versicolor 5.7 2.8 4.1 1.3 versicolor 5.7 2.8 4.1 1.3 versicolor 5.7 2.8 4.1 1.3 ver	6.0	2.7	5.1	1.6	versicolor
6.7 3.1 4.7 1.5 versicolor 6.3 2.3 4.4 1.3 versicolor 5.6 3.0 4.1 1.3 versicolor 5.5 2.5 4.0 1.3 versicolor 5.5 2.6 4.4 1.2 versicolor 6.1 3.0 4.6 1.4 versicolor 5.8 2.6 4.0 1.2 versicolor 5.0 2.3 3.3 1.0 versicolor 5.6 2.7 4.2 1.3 versicolor 5.7 3.0 4.2 1.2 versicolor 5.7 2.9 4.2 1.3 versicolor 5.7 2.9 4.2 1.3 versicolor 5.1 2.5 3.0 1.1 versicolor 5.7 2.8 4.1 1.3 versicolor 5.7 2.8 4.1 1.3 versicolor 5.7 2.8 4.1 1.3 versicolor 6.3 3.3 6.0 2.5 vir	5.4	3.0	4.5	1.5	versicolor
6.3 2.3 4.4 1.3 versicolor 5.6 3.0 4.1 1.3 versicolor 5.5 2.5 4.0 1.3 versicolor 5.5 2.6 4.4 1.2 versicolor 6.1 3.0 4.6 1.4 versicolor 5.8 2.6 4.0 1.2 versicolor 5.0 2.3 3.3 1.0 versicolor 5.6 2.7 4.2 1.3 versicolor 5.7 3.0 4.2 1.2 versicolor 5.7 2.9 4.2 1.3 versicolor 5.7 2.9 4.2 1.3 versicolor 5.1 2.5 3.0 1.1 versicolor 5.7 2.8 4.1 1.3 versicolor 6.3 3.3 6.0 2.5 vir	6.0	3.4	4.5	1.6	versicolor
5.6 3.0 4.1 1.3 versicolor 5.5 2.5 4.0 1.3 versicolor 5.5 2.6 4.4 1.2 versicolor 6.1 3.0 4.6 1.4 versicolor 5.8 2.6 4.0 1.2 versicolor 5.0 2.3 3.3 1.0 versicolor 5.6 2.7 4.2 1.3 versicolor 5.7 3.0 4.2 1.2 versicolor 5.7 2.9 4.2 1.3 versicolor 6.2 2.9 4.3 1.3 versicolor 5.1 2.5 3.0 1.1 versicolor 5.7 2.8 4.1 1.3 versicolor 6.3 2.1 virginica <	6.7	3.1	4.7	1.5	versicolor
5.5 2.5 4.0 1.3 versicolor 5.5 2.6 4.4 1.2 versicolor 6.1 3.0 4.6 1.4 versicolor 5.8 2.6 4.0 1.2 versicolor 5.0 2.3 3.3 1.0 versicolor 5.6 2.7 4.2 1.3 versicolor 5.7 3.0 4.2 1.2 versicolor 5.7 2.9 4.2 1.3 versicolor 6.2 2.9 4.3 1.3 versicolor 5.1 2.5 3.0 1.1 versicolor 5.7 2.8 4.1 1.3 versicolor 6.3 3.3 6.0 2.5 virginica 5.8 2.7 5.1 1.9 virginica 6.3 3.3 6.0 2.5 virginica 7.1 3.0 5.9 2.1 virginica 6.5 3.0 5.8 2.2 virginica 6.5 3.0 5.8 2.2 virginica 7.6 3.0 6.6 2.1 virginica 6.7 2.5 5.8 1.8 virginica 6.7	6.3	2.3	4.4	1.3	versicolor
5.5 2.6 4.4 1.2 versicolor 6.1 3.0 4.6 1.4 versicolor 5.8 2.6 4.0 1.2 versicolor 5.0 2.3 3.3 1.0 versicolor 5.6 2.7 4.2 1.3 versicolor 5.7 3.0 4.2 1.2 versicolor 5.7 2.9 4.2 1.3 versicolor 6.2 2.9 4.3 1.3 versicolor 5.1 2.5 3.0 1.1 versicolor 5.7 2.8 4.1 1.3 versicolor 5.7 2.8 4.1 1.3 versicolor 6.3 3.3 6.0 2.5 virginica 6.3 2.9 5.6 1.9 virginica 7.1 3.0 5.9 2.1 virginica 6.5 3.0 5.8 2.2 virginica 6.5 3.0 5.8 2.2 virginica 7.6 3.0 6.6 2.1 virginic	5.6	3.0	4.1	1.3	versicolor
6.1 3.0 4.6 1.4 versicolor 5.8 2.6 4.0 1.2 versicolor 5.0 2.3 3.3 1.0 versicolor 5.6 2.7 4.2 1.3 versicolor 5.7 3.0 4.2 1.2 versicolor 5.7 2.9 4.2 1.3 versicolor 6.2 2.9 4.3 1.3 versicolor 5.1 2.5 3.0 1.1 versicolor 5.7 2.8 4.1 1.3 versicolor 6.3 3.3 6.0 2.5 virginica 5.8 2.7 5.1 1.9 virginica 6.3 2.9 5.6 1.8 virginica 6.5 3.0 5.8 2.2 virginica 6.5 3.0 5.8 2.2 virginica 6.5 3.0 5.8 2.2 virginica 7.2 3.6 6.6 2.1 virginica 6.7 2.5 5.8 1.8 virginica 6.5 3.2 5.1 2.0 virginica 6.5 3.2 5.1 2.0 virginica 6.5	5.5	2.5	4.0	1.3	versicolor
5.8 2.6 4.0 1.2 versicolor 5.0 2.3 3.3 1.0 versicolor 5.6 2.7 4.2 1.3 versicolor 5.7 3.0 4.2 1.2 versicolor 5.7 2.9 4.2 1.3 versicolor 6.2 2.9 4.3 1.3 versicolor 5.1 2.5 3.0 1.1 versicolor 5.7 2.8 4.1 1.3 versicolor 6.3 3.3 6.0 2.5 virginica 5.8 2.7 5.1 1.9 virginica 6.3 2.9 5.6 1.8 virginica 6.5 3.0 5.8 2.2 virginica 6.5 3.0 5.8 2.2 virginica 7.6 3.0 6.6 2.1 virginica 4.9 2.5 4.5 1.7 virginica 6.7 2.5 5.8 1.8 virginica 6.7 2.5 5.8 1.8 virginica 6.5 3.2 5.1 2.0 virginica 6.5 3.2 5.1 2.0 virginica 6.5	5.5	2.6	4.4	1.2	versicolor
5.0 2.3 3.3 1.0 versicolor 5.6 2.7 4.2 1.3 versicolor 5.7 3.0 4.2 1.2 versicolor 5.7 2.9 4.2 1.3 versicolor 6.2 2.9 4.3 1.3 versicolor 5.1 2.5 3.0 1.1 versicolor 5.7 2.8 4.1 1.3 versicolor 6.3 3.3 6.0 2.5 virginica 5.8 2.7 5.1 1.9 virginica 5.8 2.7 5.1 1.9 virginica 6.3 3.0 5.9 2.1 virginica 6.3 2.9 5.6 1.8 virginica 6.5 3.0 5.8 2.2 virginica 7.6 3.0 6.6 2.1 virginica 4.9 2.5 4.5 1.7 virginica 6.7 2.5 5.8 1.8 virginica 6.5 3.2 5.1 2.0 virginica <td>6.1</td> <td>3.0</td> <td>4.6</td> <td>1.4</td> <td>versicolor</td>	6.1	3.0	4.6	1.4	versicolor
5.6 2.7 4.2 1.3 versicolor 5.7 3.0 4.2 1.2 versicolor 5.7 2.9 4.2 1.3 versicolor 6.2 2.9 4.3 1.3 versicolor 5.1 2.5 3.0 1.1 versicolor 5.7 2.8 4.1 1.3 versicolor 6.3 3.3 6.0 2.5 virginica 5.8 2.7 5.1 1.9 virginica 7.1 3.0 5.9 2.1 virginica 6.3 2.9 5.6 1.8 virginica 6.5 3.0 5.8 2.2 virginica 7.6 3.0 6.6 2.1 virginica 7.3 2.9 6.3 1.8 virginica 7.2 3.6 6.1 2.5 virginica 6.5 3.2 5.1 2.0 virginica 6.2 3.2 5.1 2.0 virginica 6.5 3.2 5.1 2.0 virginica <td>5.8</td> <td>2.6</td> <td>4.0</td> <td>1.2</td> <td>versicolor</td>	5.8	2.6	4.0	1.2	versicolor
5.7 3.0 4.2 1.2 versicolor 5.7 2.9 4.2 1.3 versicolor 6.2 2.9 4.3 1.3 versicolor 5.1 2.5 3.0 1.1 versicolor 5.7 2.8 4.1 1.3 versicolor 6.3 3.3 6.0 2.5 virginica 5.8 2.7 5.1 1.9 virginica 5.8 2.7 5.1 1.9 virginica 6.3 2.9 5.6 1.8 virginica 6.3 2.9 5.6 1.8 virginica 6.5 3.0 5.8 2.2 virginica 7.6 3.0 6.6 2.1 virginica 4.9 2.5 4.5 1.7 virginica 6.7 2.5 5.8 1.8 virginica 6.7 2.5 5.8 1.8 virginica 6.5 3.2 5.1 2.0 virginica 6.5 3.2 5.1 2.0 virginica 6.8 3.0 5.5 2.1 virginica 6.8 3.0 5.5 2.1 virginica 5.7	5.0	2.3	3.3	1.0	versicolor
5.7 2.9 4.2 1.3 versicolor 6.2 2.9 4.3 1.3 versicolor 5.1 2.5 3.0 1.1 versicolor 5.7 2.8 4.1 1.3 versicolor 6.3 3.3 6.0 2.5 virginica 5.8 2.7 5.1 1.9 virginica 5.8 2.7 5.1 1.9 virginica 6.3 2.9 5.6 1.8 virginica 6.5 3.0 5.8 2.2 virginica 7.6 3.0 5.8 2.2 virginica 7.2 4.5 1.7 virginica 7.3 2.9 6.3 1.8 virginica 6.7 2.5 5.8 1.8 virginica 6.5 3.2 5.1 2.0 virginica 6.5 3.2 5.5 2.1 virginica 6.5 3.2 5.5 2.1 virginica 6.8 3.0 <	5.6	2.7	4.2	1.3	versicolor
6.2 2.9 4.3 1.3 versicolor 5.1 2.5 3.0 1.1 versicolor 5.7 2.8 4.1 1.3 versicolor 6.3 3.3 6.0 2.5 virginica 5.8 2.7 5.1 1.9 virginica 5.8 2.7 5.1 1.9 virginica 7.1 3.0 5.9 2.1 virginica 6.3 2.9 5.6 1.8 virginica 6.5 3.0 5.8 2.2 virginica 7.6 3.0 6.6 2.1 virginica 4.9 2.5 4.5 1.7 virginica 7.3 2.9 6.3 1.8 virginica 6.7 2.5 5.8 1.8 virginica 6.5 3.2 5.1 2.0 virginica 6.5 3.2 5.1 2.0 virginica 6.5 3.2 5.1 2.0 virginica 6.8 3.0 5.5 2.1 virginica	5.7	3.0	4.2	1.2	versicolor
5.1 2.5 3.0 1.1 versicolor 5.7 2.8 4.1 1.3 versicolor 6.3 3.3 6.0 2.5 virginica 5.8 2.7 5.1 1.9 virginica 5.8 2.7 5.1 1.9 virginica 7.1 3.0 5.9 2.1 virginica 6.3 2.9 5.6 1.8 virginica 6.5 3.0 5.8 2.2 virginica 7.6 3.0 6.6 2.1 virginica 4.9 2.5 4.5 1.7 virginica 6.7 2.5 5.8 1.8 virginica 6.7 2.5 5.8 1.8 virginica 6.5 3.2 5.1 2.0 virginica 6.5 3.2 5.1 2.0 virginica 6.4 2.7 5.3 1.9 virginica 6.8 3.0 5.5 2.1 virginica 5.7 2.5 5.0 2.0 virginica 5.8 2.8 5.1 2.4 virginica	5.7	2.9	4.2	1.3	versicolor
5.7 2.8 4.1 1.3 versicolor 6.3 3.3 6.0 2.5 virginica 5.8 2.7 5.1 1.9 virginica 5.8 2.7 5.1 1.9 virginica 7.1 3.0 5.9 2.1 virginica 6.3 2.9 5.6 1.8 virginica 6.5 3.0 5.8 2.2 virginica 7.6 3.0 6.6 2.1 virginica 4.9 2.5 4.5 1.7 virginica 7.3 2.9 6.3 1.8 virginica 6.7 2.5 5.8 1.8 virginica 6.7 2.5 5.8 1.8 virginica 6.5 3.2 5.1 2.0 virginica 6.4 2.7 5.3 1.9 virginica 6.8 3.0 5.5 2.1 virginica 5.7 2.5 5.0 2.0 virginica 5.8 2.8 5.1 2.4 virginica	6.2	2.9	4.3	1.3	versicolor
6.3 3.3 6.0 2.5 virginica 5.8 2.7 5.1 1.9 virginica 7.1 3.0 5.9 2.1 virginica 6.3 2.9 5.6 1.8 virginica 6.5 3.0 5.8 2.2 virginica 7.6 3.0 6.6 2.1 virginica 4.9 2.5 4.5 1.7 virginica 7.3 2.9 6.3 1.8 virginica 6.7 2.5 5.8 1.8 virginica 6.7 2.5 5.8 1.8 virginica 6.5 3.2 5.1 2.0 virginica 6.4 2.7 5.3 1.9 virginica 6.8 3.0 5.5 2.1 virginica 5.7 2.5 5.0 2.0 virginica 5.8 2.8 5.1 2.4 virginica	5.1	2.5	3.0	1.1	versicolor
5.8 2.7 5.1 1.9 virginica 7.1 3.0 5.9 2.1 virginica 6.3 2.9 5.6 1.8 virginica 6.5 3.0 5.8 2.2 virginica 7.6 3.0 6.6 2.1 virginica 4.9 2.5 4.5 1.7 virginica 7.3 2.9 6.3 1.8 virginica 6.7 2.5 5.8 1.8 virginica 7.2 3.6 6.1 2.5 virginica 6.5 3.2 5.1 2.0 virginica 6.4 2.7 5.3 1.9 virginica 6.8 3.0 5.5 2.1 virginica 5.7 2.5 5.0 2.0 virginica 5.8 2.8 5.1 2.4 virginica	5.7	2.8	4.1	1.3	versicolor
7.1 3.0 5.9 2.1 virginica 6.3 2.9 5.6 1.8 virginica 6.5 3.0 5.8 2.2 virginica 7.6 3.0 6.6 2.1 virginica 4.9 2.5 4.5 1.7 virginica 7.3 2.9 6.3 1.8 virginica 6.7 2.5 5.8 1.8 virginica 6.7 2.5 5.8 1.8 virginica 6.5 3.2 5.1 2.5 virginica 6.4 2.7 5.3 1.9 virginica 6.8 3.0 5.5 2.1 virginica 5.7 2.5 5.0 2.0 virginica 5.8 2.8 5.1 2.4 virginica	6.3	3.3	6.0	2.5	virginica
6.3 2.9 5.6 1.8 virginica 6.5 3.0 5.8 2.2 virginica 7.6 3.0 6.6 2.1 virginica 4.9 2.5 4.5 1.7 virginica 7.3 2.9 6.3 1.8 virginica 6.7 2.5 5.8 1.8 virginica 7.2 3.6 6.1 2.5 virginica 6.5 3.2 5.1 2.0 virginica 6.4 2.7 5.3 1.9 virginica 6.8 3.0 5.5 2.1 virginica 5.7 2.5 5.0 2.0 virginica 5.8 2.8 5.1 2.4 virginica	5.8	2.7	5.1	1.9	virginica
6.5 3.0 5.8 2.2 virginica 7.6 3.0 6.6 2.1 virginica 4.9 2.5 4.5 1.7 virginica 7.3 2.9 6.3 1.8 virginica 6.7 2.5 5.8 1.8 virginica 7.2 3.6 6.1 2.5 virginica 6.5 3.2 5.1 2.0 virginica 6.4 2.7 5.3 1.9 virginica 6.8 3.0 5.5 2.1 virginica 5.7 2.5 5.0 2.0 virginica 5.8 2.8 5.1 2.4 virginica	7.1	3.0	5.9	2.1	virginica
7.6 3.0 6.6 2.1 virginica 4.9 2.5 4.5 1.7 virginica 7.3 2.9 6.3 1.8 virginica 6.7 2.5 5.8 1.8 virginica 7.2 3.6 6.1 2.5 virginica 6.5 3.2 5.1 2.0 virginica 6.4 2.7 5.3 1.9 virginica 6.8 3.0 5.5 2.1 virginica 5.7 2.5 5.0 2.0 virginica 5.8 2.8 5.1 2.4 virginica	6.3	2.9	5.6	1.8	virginica
4.9 2.5 4.5 1.7 virginica 7.3 2.9 6.3 1.8 virginica 6.7 2.5 5.8 1.8 virginica 7.2 3.6 6.1 2.5 virginica 6.5 3.2 5.1 2.0 virginica 6.4 2.7 5.3 1.9 virginica 6.8 3.0 5.5 2.1 virginica 5.7 2.5 5.0 2.0 virginica 5.8 2.8 5.1 2.4 virginica	6.5	3.0	5.8	2.2	virginica
7.3 2.9 6.3 1.8 virginica 6.7 2.5 5.8 1.8 virginica 7.2 3.6 6.1 2.5 virginica 6.5 3.2 5.1 2.0 virginica 6.4 2.7 5.3 1.9 virginica 6.8 3.0 5.5 2.1 virginica 5.7 2.5 5.0 2.0 virginica 5.8 2.8 5.1 2.4 virginica	7.6	3.0	6.6	2.1	virginica
6.7 2.5 5.8 1.8 virginica 7.2 3.6 6.1 2.5 virginica 6.5 3.2 5.1 2.0 virginica 6.4 2.7 5.3 1.9 virginica 6.8 3.0 5.5 2.1 virginica 5.7 2.5 5.0 2.0 virginica 5.8 2.8 5.1 2.4 virginica	4.9	2.5	4.5	1.7	virginica
7.2 3.6 6.1 2.5 virginica 6.5 3.2 5.1 2.0 virginica 6.4 2.7 5.3 1.9 virginica 6.8 3.0 5.5 2.1 virginica 5.7 2.5 5.0 2.0 virginica 5.8 2.8 5.1 2.4 virginica	7.3	2.9	6.3	1.8	virginica
6.5 3.2 5.1 2.0 virginica 6.4 2.7 5.3 1.9 virginica 6.8 3.0 5.5 2.1 virginica 5.7 2.5 5.0 2.0 virginica 5.8 2.8 5.1 2.4 virginica	6.7	2.5	5.8	1.8	virginica
6.4 2.7 5.3 1.9 virginica 6.8 3.0 5.5 2.1 virginica 5.7 2.5 5.0 2.0 virginica 5.8 2.8 5.1 2.4 virginica	7.2	3.6	6.1	2.5	virginica
6.8 3.0 5.5 2.1 virginica 5.7 2.5 5.0 2.0 virginica 5.8 2.8 5.1 2.4 virginica	6.5	3.2	5.1	2.0	virginica
5.7 2.5 5.0 2.0 virginica 5.8 2.8 5.1 2.4 virginica	6.4	2.7	5.3	1.9	virginica
5.8 2.8 5.1 2.4 virginica	6.8	3.0	5.5	2.1	virginica
<u> </u>	5.7	2.5	5.0	2.0	virginica
6.4 3.2 5.3 2.3 virginica	5.8	2.8	5.1	2.4	virginica
	6.4	3.2	5.3	2.3	virginica

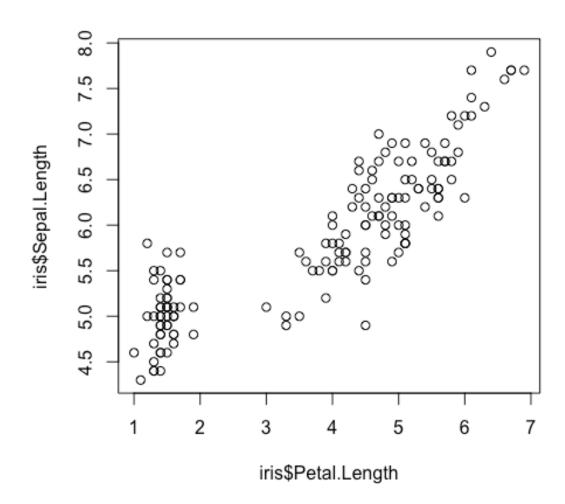
Sepal.Length	Sepal.Width	Petal.Length	Petal.Width	Species
6.5	3.0	5.5	1.8	virginica
7.7	3.8	6.7	2.2	virginica
7.7	2.6	6.9	2.3	virginica
6.0	2.2	5.0	1.5	virginica
6.9	3.2	5.7	2.3	virginica
5.6	2.8	4.9	2.0	virginica
7.7	2.8	6.7	2.0	virginica
6.3	2.7	4.9	1.8	virginica
6.7	3.3	5.7	2.1	virginica
7.2	3.2	6.0	1.8	virginica
6.2	2.8	4.8	1.8	virginica
6.1	3.0	4.9	1.8	virginica
6.4	2.8	5.6	2.1	virginica
7.2	3.0	5.8	1.6	virginica
7.4	2.8	6.1	1.9	virginica
7.9	3.8	6.4	2.0	virginica
6.4	2.8	5.6	2.2	virginica
6.3	2.8	5.1	1.5	virginica
6.1	2.6	5.6	1.4	virginica
7.7	3.0	6.1	2.3	virginica
6.3	3.4	5.6	2.4	virginica
6.4	3.1	5.5	1.8	virginica
6.0	3.0	4.8	1.8	virginica
6.9	3.1	5.4	2.1	virginica
6.7	3.1	5.6	2.4	virginica
6.9	3.1	5.1	2.3	virginica
5.8	2.7	5.1	1.9	virginica
6.8	3.2	5.9	2.3	virginica
6.7	3.3	5.7	2.5	virginica
6.7	3.0	5.2	2.3	virginica
6.3	2.5	5.0	1.9	virginica
6.5	3.0	5.2	2.0	virginica
6.2	3.4	5.4	2.3	virginica
5.9	3.0	5.1	1.8	virginica

Faire de plus beaux tableaux

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

Code avec un figure

plot(iris\$Petal.Length,iris\$Sepal.Length)



Lien vers les options plus avancée

• Pour approfondir voici quelques ressources bookdown

- Utiliser flextable disponible ici flextable`
- Utiliser kableextra disponible ici

Parler de l'exportation en word

Debuger le code R-Markdown