Introduction to Theoretical Ecology

Instructor: Po-Ju Ke Teaching Assistant: Gen-Chang Hsu

2021 Fall at National Taiwan Univeristy

Contents

Course description

see the contents on ceiba

Requirements

see the contents on ceiba

Objectives

see the contents on ceiba

Course information

course schedule and location

grading policy

contact info

office hours

Syllabus

see the contents on ceiba

Sepal.Length	Sepal.Width
5.1	3.5
4.9	3.0
4.7	3.2
4.6	3.1
5.0	3.6
5.4	3.9
4.6	3.4
5.0	3.4
4.4	2.9
4.9	3.1
5.4	3.7
4.8	3.4
4.8	3.0
4.3	3.0
5.8	4.0
5.7	4.4
5.4	3.9
5.1	3.5
5.7	3.8
5.1	3.8
5.4	3.4
5.1	3.7
4.6	3.6
5.1	3.3
4.8	3.4
5.0	3.0
5.0	3.4
5.2	3.5
5.2	3.4

Week 1

Figure with label and caption

```
par(mar = c(4, 4, .1, .1))
plot(pressure, type = 'b', pch = 19)
```

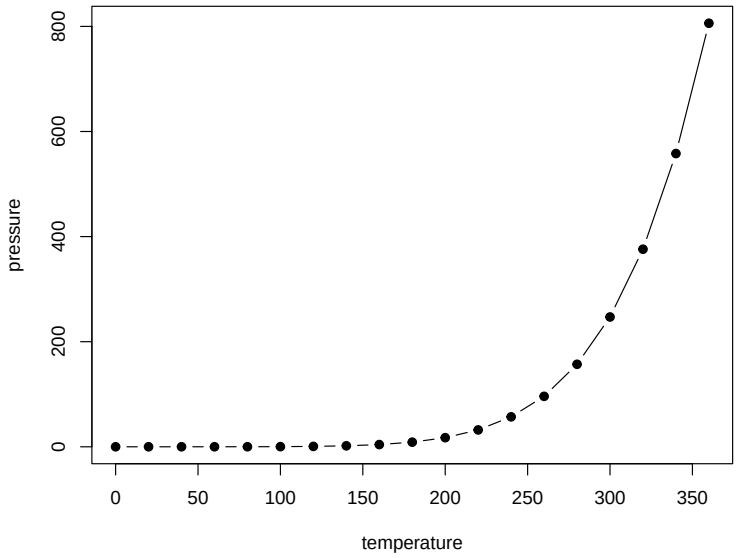

Figure 1: Here is a nice figure!

External image with label and caption

```
knitr::include_graphics("knit-logo.png")
```

Table with label and caption

Figure 2: Here is a nice figure!

```
knitr::kable(
  head(iris, 20), caption = 'Here is a nice table!',
  booktabs = TRUE
)
```

Internal Link to anchor

Equations

$f(k) = \binom{n}{k} p^k (1-p)^{n-k}$

$$f(k) = \binom{n}{k} p^k (1-p)^{n-k}$$

$$\begin{vmatrix} a & b \\ c & d \end{vmatrix} = ad - bc$$

$$f\left(k\right) = \binom{n}{k} p^k \left(1-p\right)^{n-k} \tag{1}$$

$$\frac{d}{dx}\left(\int_{a}^{x} f(u)\,du\right) = f(x)$$

Text references

Table 1: Here is a nice table!

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
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

```
plot(cars)  # a scatterplot
```

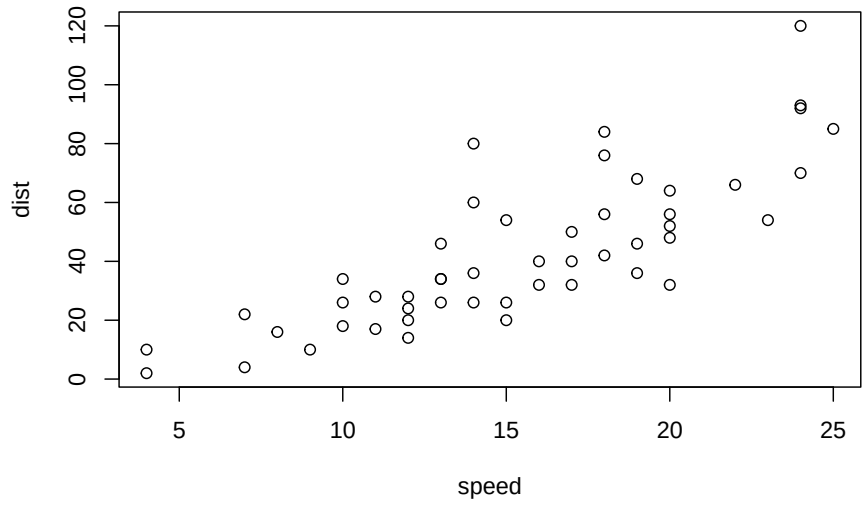

Figure 3: A scatterplot of the data `cars` using **base** R graphics.

see this!!!

Week 2

```
plot(cars)  # a scatterplot
```

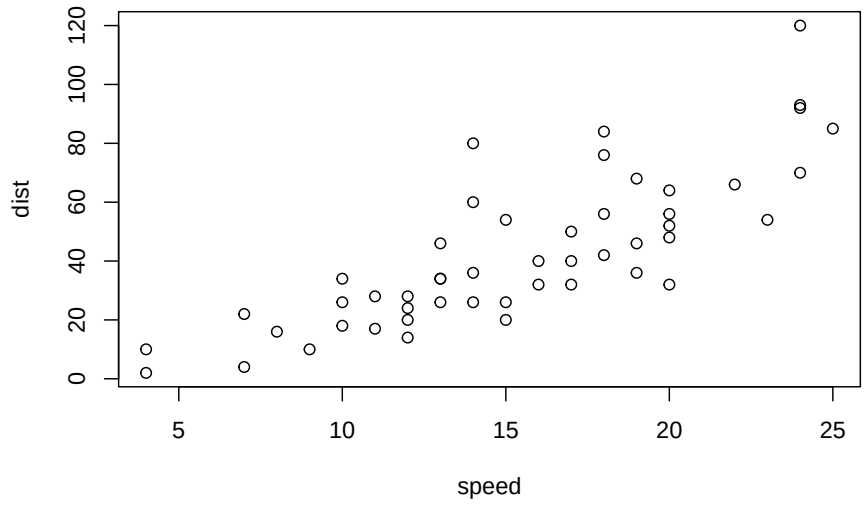

Figure 4: A scatterplot of the data `cars` using **base** R graphics.

Course information

non-English books

non-English books2

Figure 1

Cross-reference

Reference a figure by its code chunk label with the `fig:` prefix, e.g., see Figure 1. Similarly, you can reference tables generated from `knitr::kable()`, e.g., see Table 1.

see R Core Team (2021) for details

also Xie (2021) for details

Bibliography

R Core Team (2021). *R: A Language and Environment for Statistical Computing*. R Foundation for Statistical Computing, Vienna, Austria.

Xie, Y. (2021). *bookdown: Authoring Books and Technical Documents with R Markdown*. R package version 0.22.