

Template for homework assignment reports

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An alternative for big teams, all in one line - Chick Corea (884422), Baby Yoda (774455), Paco de Lucía (778899), Suzanne Ciani (365411), and others.

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Abstract

Summary of main findings and conclusions.

Keywords: quantitative finance; financial risk; financial modeling in R

1 Introduction.

Look how you can add web links in the following sentence. This template is based on the generic OUP template available [here](#). *Now, look how you can add a different font, this is useful for file or function names* The original OUP sample tex document, providing more details on preferred formatting for LaTeX documents, is included with the template in the file `ouparticle_sample.tex`.

Here are some sample references. *Reference in brackets as in a list* Please see (Hull 2015; Carhart 1997) for a full discussion of multi-factor models. Bibliography will appear at the end of the document. *Second, without brackets, separated by a comma* See Hull

(2015), Cochrane (2009) for a formal demonstration of analytical results, and (Carhart 1997; Cochrane 1996) for some empirical results.

2 Methodology.

An equation with a label for cross-referencing:

$$\int_0^{r_2} F(r, \varphi) dr d\varphi = [\sigma r_2 / (2\mu_0)] \int_0^\infty \exp(-\lambda |z_j - z_i|) \lambda^{-1} J_1(\lambda r_2) J_0(\lambda r_i) \lambda d\lambda \quad (1)$$

This equation can be referenced as follows: Eq. 1. Now a simpler equation:

$$w = \sum_{i=1}^{20} [1/n^i] \quad (2)$$

This equation can be referenced as Eq. 2.

We can also write equations within the main text as here: $w = \sum_{i=1}^{20} [1/n^i]$.

2.1 A subsection.

A numbered list:

- 1) First numbered point
- 2) Second numbered point

- Subpoint

A bullet list:

- First point
- Second point

3 Results

3.1 Generate a figure.

```
plot(1:10, main = "Some data", xlab = "Distance (cm)", ylab = "Time (hours)")
```

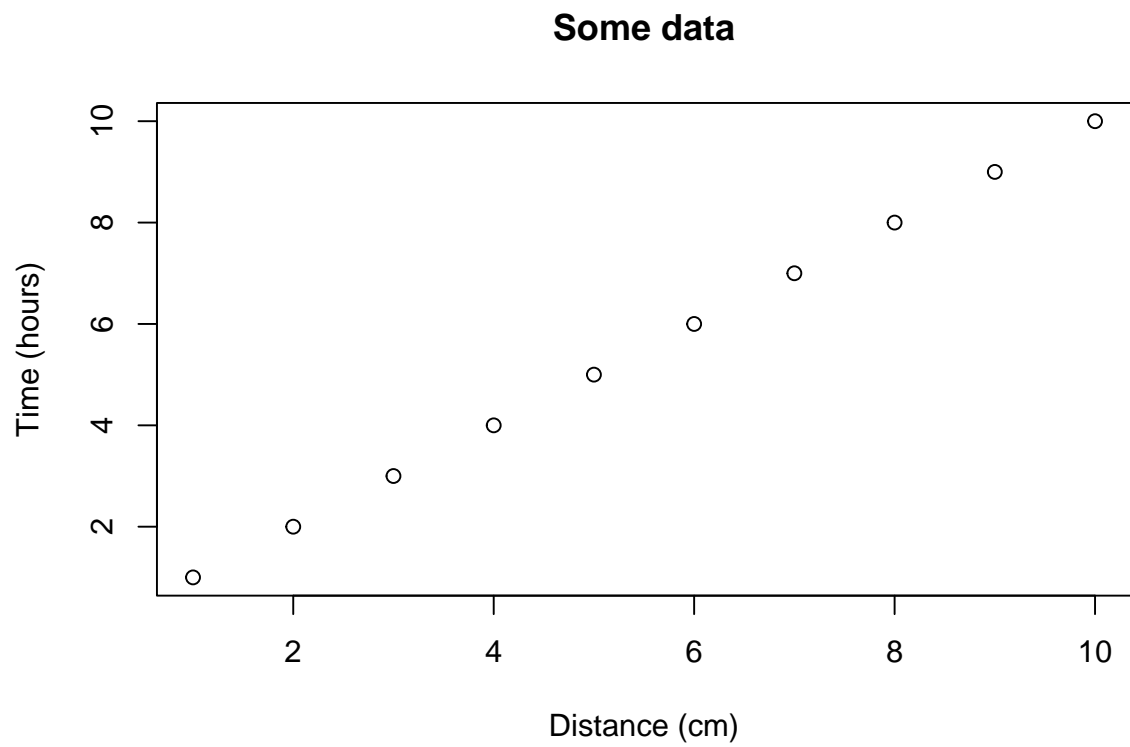


Figure 1: This is the first figure.

You can reference this figure as follows: Fig. 1.

```
plot(1:5, pch = 19, main = "Some data", xlab = "Distance (cm)", ylab = "Time (hours)"
```

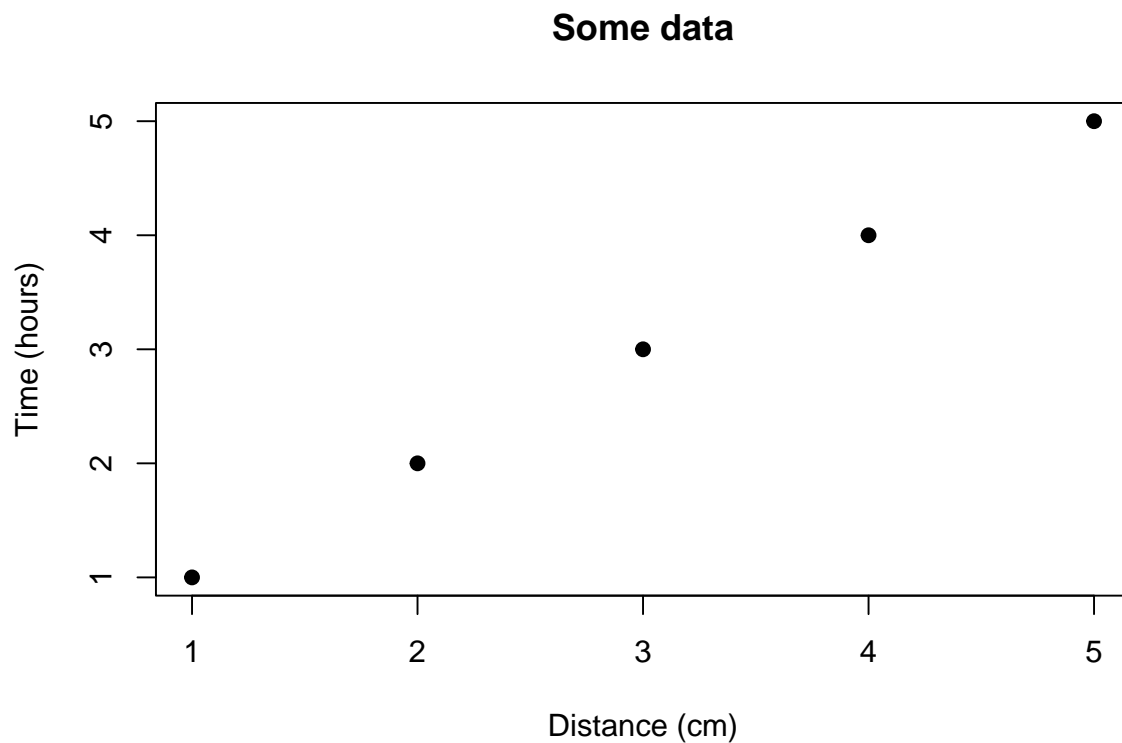


Figure 2: This is the second figure.

Reference to second figure: Fig. 2

3.2 Generate a table using xtable

```
df = data.frame(ID = 1:3, code = letters[1:3])

# Creates tables that follow OUP guidelines using xtable
library(xtable)
print(xtable(df, caption = "This is the table caption", label = "tab:tab1"),
      comment = FALSE)
```

	ID	code
1	1	a
2	2	b
3	3	c

Table 1: This is the table caption

You can reference this table as follows: Table 1.

Table 2: This is the table caption

ID	code
1	a
2	b
3	c

3.3 Generate a table using kable

```
df = data.frame(ID = 1:3, code = letters[1:3])

# kable can also be used for creating tables
knitr::kable(df, caption = "This is the table caption", format = "latex",
              booktabs = TRUE, label = "tab2")
```

You can reference this table as follows: Table 2.

4 Discussion.

You can cross-reference sections and subsections as follows: Section 2 and Section 2.1.

Note: the last section in the document will be used as the section title for the bibliography.

References.

- Carhart, Mark M. 1997. “On Persistence in Mutual Fund Performance.” *The Journal of Finance* 52 (1): 57–82.
- Cochrane, John H. 1996. “A Cross-Sectional Test of an Investment-Based Asset Pricing Model.” *Journal of Political Economy* 104 (3): 572–621.
- . 2009. *Asset Pricing: Revised Edition*. Princeton university press.
- Hull, John C. 2015. *Options, Futures, and Other Derivatives*. 9th ed. Prentice Hall.