
A TEMPLATE FOR THE ARXIV STYLE

A PREPRINT

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Abstract

Enter the text of your abstract here.

title: “Costos Operativos” author: “Grupo Sierra” date: “2024-03-28”

0.1 output: pdf_document

1 Análisis de Herramientas para emprendimiento

1.1 Computadoras

Característica	Samsung	lenovo
Precio	\$600000	800000
Calidad	Buena	Excelente
Funcionalidades	Limitadas	Variadas

1.2 Servidores

Característica	Servido core i7	Servidor core i5
Precio	\$1210000	\$900000
velocidad	Rápida	media
Memoria	grande	grande

1.3 Sevicios de antivirus

*Use footnote for providing further information about author (webpage, alternative address)—*not* for acknowledging funding agencies. Optional.

Avast	AVG
\$500	\$300
mejor para seguridad en linea	mejor para optimizar sistemas

1.4 Escritorios de trabajo

- Escritorio de madera
 - madera de cedro \$50000
 - madera de pino \$60000
- escritorio de hierro \$90000
- escritorio de melamina \$120000

1.5 Seguros de computadoras

1.5.1 Cobertura por destruccion total

- Seguro “La caja” \$2000/mes
- Seguro “Allians” \$1500/mes
- Seguro “San Cristobal” \$3000/mes

1.6 Servicio de internet

1.6.1 Fibra óptica

- Movistar: \$15000/mes
- Personal: \$ 12000/mes
- Arlink: \$17000/mes keywords:
 - blah
 - blee
 - bloo
 - these are optional and can be removed bibliography: references.bib biblio-style: unsrt output: rticles::arxiv_article —

2 Introduction

Para poner titulos se usa el simbolo # y subtítulos el ## y así sucesivamente decreciendo el orden de importancia se va agregando # Para hacer un cuadro se usa las barras verticales y se separa los encabezados con guiones medios debajo del encabezado. Para poner viñetas se pone *

3 Headings: first level

You can use directly LaTeX command or Markdown text.

LaTeX command can be used to reference other section. See Section 3. However, you can also use **bookdown** extensions mechanism for this. ##Vectores

Un vector es una estructuar de datos que almacena numeros de doble precision

```
mi_vector_a <- c(12,34,12,54,23,12,65,34,12,56,66)
mi_vector_b <- seq(1:16)

mi_vector_a
```

```
## [1] 12 34 12 54 23 12 65 34 12 56 66
```

```
mi_vector_b
```

```
## [1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
```

##Matrices Las matrices se parecen a los vectores, pero tienen filas y columnas se alimentan vectores

```
mi_matriz_c <-matrix(mi_vector_b,nrow=4,byrow=TRUE)
mi_matriz_c
```

```
##      [,1] [,2] [,3] [,4]
## [1,]    1    2    3    4
## [2,]    5    6    7    8
## [3,]    9   10   11   12
## [4,]   13   14   15   16
```

Para acceder a un elemento de la matriz uso las filas y columnas entre corchetes

```
mi_matriz_c[2,3]
```

```
## [1] 7
```

Como traer la fila 4 completa?

```
mi_matriz_c[4,]
```

```
## [1] 13 14 15 16
```

Como traer una columna?

```
mi_matriz_c[,2]
```

```
## [1] 2 6 10 14
```

Que hara este comando?

```
mi_matriz_c[-2,]
```

```
##      [,1] [,2] [,3] [,4]
## [1,]    1    2    3    4
## [2,]    9   10   11   12
## [3,]   13   14   15   16
```

```
mi_vector_i <- seq(1:100)
mi_vector_i
```

```
##      [1] 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
## [19] 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36
## [37] 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54
## [55] 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72
## [73] 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90
## [91] 91 92 93 94 95 96 97 98 99 100
```

```
start_time <- Sys.time()
mi_matriz_i <-matrix(mi_vector_i,nrow=100,byrow=TRUE)
mi_matriz_i
```

```
##      [,1]
## [1,]    1
## [2,]    2
## [3,]    3
## [4,]    4
```

```

## [5,] 5
## [6,] 6
## [7,] 7
## [8,] 8
## [9,] 9
## [10,] 10
## [11,] 11
## [12,] 12
## [13,] 13
## [14,] 14
## [15,] 15
## [16,] 16
## [17,] 17
## [18,] 18
## [19,] 19
## [20,] 20
## [21,] 21
## [22,] 22
## [23,] 23
## [24,] 24
## [25,] 25
## [26,] 26
## [27,] 27
## [28,] 28
## [29,] 29
## [30,] 30
## [31,] 31
## [32,] 32
## [33,] 33
## [34,] 34
## [35,] 35
## [36,] 36
## [37,] 37
## [38,] 38
## [39,] 39
## [40,] 40
## [41,] 41
## [42,] 42
## [43,] 43
## [44,] 44
## [45,] 45
## [46,] 46
## [47,] 47
## [48,] 48
## [49,] 49
## [50,] 50
## [51,] 51
## [52,] 52
## [53,] 53
## [54,] 54
## [55,] 55
## [56,] 56
## [57,] 57
## [58,] 58
## [59,] 59
## [60,] 60
## [61,] 61
## [62,] 62
## [63,] 63

```

```
## [64,] 64
## [65,] 65
## [66,] 66
## [67,] 67
## [68,] 68
## [69,] 69
## [70,] 70
## [71,] 71
## [72,] 72
## [73,] 73
## [74,] 74
## [75,] 75
## [76,] 76
## [77,] 77
## [78,] 78
## [79,] 79
## [80,] 80
## [81,] 81
## [82,] 82
## [83,] 83
## [84,] 84
## [85,] 85
## [86,] 86
## [87,] 87
## [88,] 88
## [89,] 89
## [90,] 90
## [91,] 91
## [92,] 92
## [93,] 93
## [94,] 94
## [95,] 95
## [96,] 96
## [97,] 97
## [98,] 98
## [99,] 99
## [100,] 100
```

```
end_time <- Sys.time()
end_time - start_time
```

```
## Time difference of 0.002015829 secs
```

3.1 Headings: second level

You can use equation in blocks

$$\xi_{ij}(t) = P(x_t = i, x_{t+1} = j | y, v, w; \theta) = \frac{\alpha_i(t) a_{ij}^{w_t} \beta_j(t+1) b_j^{v_{t+1}}(y_{t+1})}{\sum_{i=1}^N \sum_{j=1}^N \alpha_i(t) a_{ij}^{w_t} \beta_j(t+1) b_j^{v_{t+1}}(y_{t+1})}$$

But also inline i.e $z = x + y$

3.1.1 Headings: third level

Another paragraph.

4 Examples of citations, figures, tables, references

You can insert references. Here is some text (Kour and Saabne 2014b, 2014a) and see Hadash et al. (2018).



Figure 1: Sample figure caption.

Table 4: Sample table title

Part		
Name	Description	Size (μm)
Dendrite	Input terminal	~ 100
Axon	Output terminal	~ 10
Soma	Cell body	up to 10^6

The documentation for `natbib` may be found at

You can use custom blocks with LaTeX support from `rmarkdown` to create environment.

<http://mirrors.ctan.org/macros/latex/contrib/natbib/natnotes.pdf%7D>

Of note is the command `\citet`, which produces citations appropriate for use in inline text.

You can insert LaTeX environment directly too.

```
\citet{hasselmo} investigated\dots
```

produces

Hasselmo, et al. (1995) investigated...

<https://www.ctan.org/pkg/booktabs>

4.1 Figures

You can insert figure using LaTeX directly.

See Figure 1. Here is how you add footnotes. [[^]Sample of the first footnote.]

But you can also do that using R.

```
plot(mtcars$mpg)
```

You can use `bookdown` to allow references for Tables and Figures.

4.2 Tables

Below we can see how to use tables.

See awesome Table~4 which is written directly in LaTeX in source Rmd file.

You can also use R code for that.

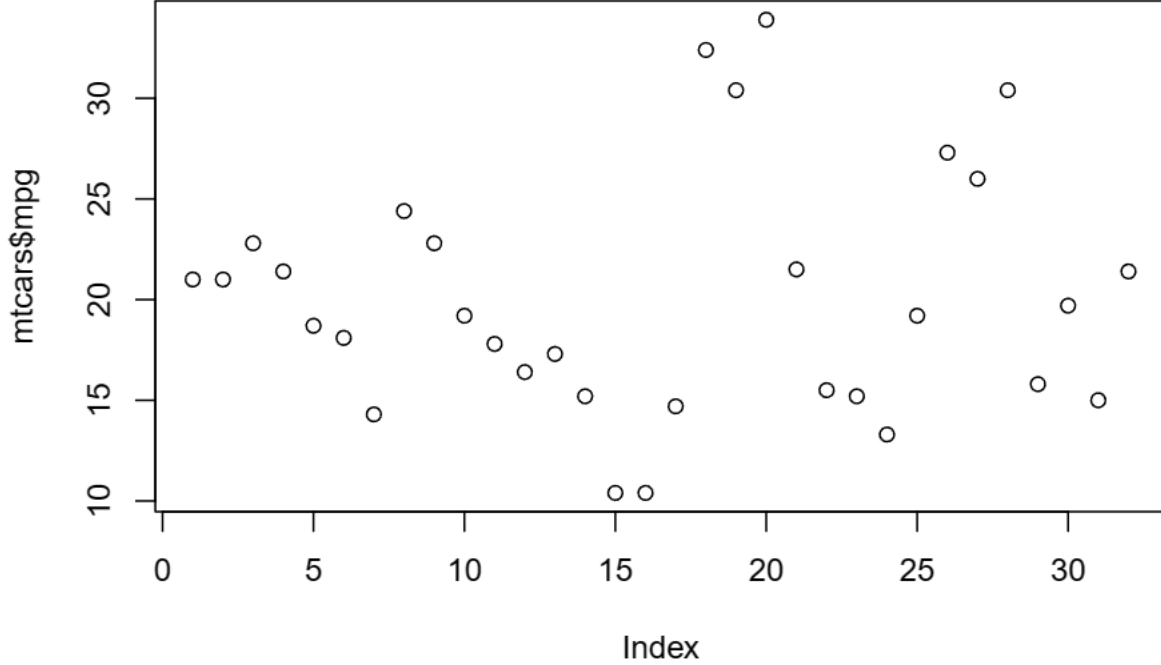


Figure 2: Another sample figure

```
knitr::kable(head(mtcars), caption = "Head of mtcars table")
```

Table 5: Head of mtcars table

	mpg	cyl	disp	hp	drat	wt	qsec	vs	am	gear	carb
Mazda RX4	21.0	6	160	110	3.90	2.620	16.46	0	1	4	4
Mazda RX4 Wag	21.0	6	160	110	3.90	2.875	17.02	0	1	4	4
Datsun 710	22.8	4	108	93	3.85	2.320	18.61	1	1	4	1
Hornet 4 Drive	21.4	6	258	110	3.08	3.215	19.44	1	0	3	1
Hornet Sportabout	18.7	8	360	175	3.15	3.440	17.02	0	0	3	2
Valiant	18.1	6	225	105	2.76	3.460	20.22	1	0	3	1

4.3 Lists

- Item 1
- Item 2
- Item 3

Hadash, Guy, Einat Kermany, Boaz Carmeli, Ofer Lavi, George Kour, and Alon Jacovi. 2018. “Estimate and Replace: A Novel Approach to Integrating Deep Neural Networks with Existing Applications.” *arXiv Preprint arXiv:1804.09028*.

Kour, George, and Raid Saabne. 2014a. “Fast Classification of Handwritten on-Line Arabic Characters.” In *Soft Computing and Pattern Recognition (SoCPaR), 2014 6th International Conference of*, 312–18. IEEE.

———. 2014b. “Real-Time Segmentation of on-Line Handwritten Arabic Script.” In *Frontiers in Handwriting Recognition (ICFHR), 2014 14th International Conference on*, 417–22. IEEE.