



Primeira edição

Título do livro
Subtítulo do livro

Fernando Pujaico Rivera

Lavras/MG

2020

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Amicum lege feliciter, vivas, gaudeas, floreas in Deo.

Fernando

Agradecimentos

Dou muitas graças a Deus

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Fernando Pujaico Rivera

Prólogo

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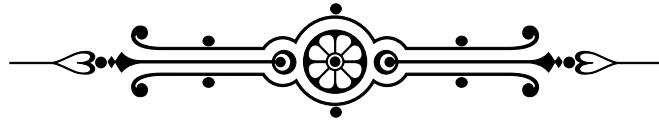
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Parte I



Sample of text

CAPÍTULO 1

Full Connected Neural Network Chapter

1.1 Paragraphs of Text

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Referencia a la Información 1.1.1 (siguiente)

i **Título A:** Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Text

Referencia a las Frases 1.1.1 y 1.1.2

~~~~~

#### Frase 1.1.1: Frase title A

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Autor

~~~~~

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur

id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Frase 1.1.2: Frase title B

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Autor

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

1.2 Citation

This statement requires citation [Smi12]; this one is more specific [Smi13, página 122].

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis,

viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Referencia a la Información 1.2.1 (siguiente)



Título B: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.^a

^aSimple footnote example.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.




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^aSimple footnote example.

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lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

Referencia a la Información 1.2.1 (siguiente)



Elaboração 1.2.1: Título C

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

1.3 Lists

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.¹.

¹Footnote example...

1.3.1 Numbered List

1. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..
2. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..
3. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..

1.3.2 Bullet Points

- Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..
- Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..
- Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..

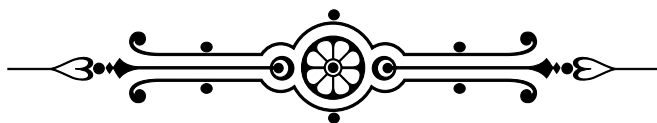
1.3.3 Descriptions and Definitions

Name Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..

Word Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..

Comment Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris..

Parte II



Enviroments

CAPÍTULO 2

In-text Elements

2.1 Boxes

This is an example of theorems. Theorema 2.1.1, 2.1.2, 2.2.1, 2.2.2 e 2.3.1.

2.1.1 Theorems

```
\begin{theorem}[Name of the theorem]
\label{theo:A}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{theorem}
```

| | |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Teorema 2.1.1 | Name of the theorem Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. $x^2 + e^{-\frac{x^2}{2}} = 1 \tag{2.1}$ |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

```
\begin{proofraw}[Relative to Teorema \ref{theo:A}]
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{proofraw}
```

Prova 2.1.1 (Relative to Teorema 2.1.1). *Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.*

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.2)$$

2.1.2 Exercises

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{exercise}[Exercise name]
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{exercise}
```

Exercise name

Exercício 2.1.1: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.3)$$

```
\begin{exercise}[Exercise name A0]
\label{ex:A0}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{exercise}
```

Exercise name A0

Exercício 2.1.2: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \tag{2.4}$$

```
\begin{theorem}
\label{theo:B}
\lipsum[1][1-3]
\end{theorem}
```

Teorema 2.1.2

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

2.2 Examples

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. See Example 2.1.2

```
\begin{example}[Example name]
\label{ex:A0:b}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{example}
```

Exemplo 2.2.1 — Example name: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \tag{2.5}$$

```
\begin{theorem}
\label{theo:C}
\lipsum[1][1-3]
\end{theorem}
```

Teorema 2.2.1

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{theorem}
\label{theo:D}
\lipsum[1][1-3]
\end{theorem}
```

Teorema 2.2.2

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

2.3 Definitions

Definition 2.3.1,

```
\begin{definition}[Definition name]
\label{def:A0}
\lipsum[1][1-3]
\begin{equation}
x^2 + e^{-\frac{x^2}{2}} = 1
\end{equation}
\end{definition}
```

Definição 2.3.1 — Definition name: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.6)$$

```
\begin{theorem}[Theorem name]
\label{theo:E}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{theorem}
```

Teorema
2.3.1

Theorem name

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \tag{2.7}$$

```
\begin{exercise}[Exercise name A]
\label{exer:A}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{exercise}
```

Exercise name A

Exercício 2.3.1: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \tag{2.8}$$

```
\begin{exercise}[Exercise name]
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{exercise}
```

Exercise name

Exercício 2.3.2: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.9)$$

```
\begin{exercise}[Exercise name B]
\label{exer:B}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{exercise}
```

Exercise name B

Exercício 2.3.3: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.10)$$

Exer 2.1.2, 2.3.1 e 2.3.3.

2.4 Notations

Notations 2.4.1, 2.4.2, 2.4.3 e 2.4.4.

```
\begin{notation}
\label{not:A}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{notation}
```

Notação 2.4.1: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.11)$$

```
\begin{notation}[Notation name title very large]
\label{not:B}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{notation}
```

Notation name title very large

Notação 2.4.2: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.12)$$

```
\begin{notation}
\label{not:C}
\lipsum[1][1-3]
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{notation}
```

Notação 2.4.3: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.13)$$

```
\begin{notation}[Notation title]
\label{not:D}
\lipsum[1][1-3]
\end{notation}
```

Notation title

Notação 2.4.4: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

2.5 Equationbox

```
\begin{equationbox}
\begin{equation}
x^2+e^{-\frac{x^2}{2}}=1
\end{equation}
\end{equationbox}
```

$$x^2 + e^{-\frac{x^2}{2}} = 1 \quad (2.14)$$

2.6 Phrasebox

```
\begin{phrasebox}{Frase title}{Fernando P. R.}
\lipsum[1][1-3]
\end{phrasebox}
```

Frase 2.6.1: Frase title

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Fernando P. R.

2.7 Attentionbox

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{attentionbox}
\lipsum[1] [1-3]
\end{attentionbox}
```



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

2.8 Informationbox

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{informationbox}[Título A]
\lipsum[1] [1-3]
\end{informationbox}
```



Título A: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

2.9 Elaborationbox

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{elaborationbox}[Title of elaborationbox]
\lipsum[1] [1-3]
\end{elaborationbox}
```

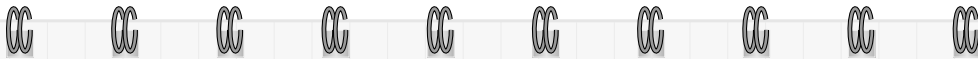


Elaboração 2.9.1: Title of elaborationbox

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{elaborationbox}
\lipsum[1][1-3]
\end{elaborationbox}
```



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

2.10 Bulletjournalitem

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{bulletjournalitem}
\tcbitem \lipsum[1][1-3]
\tcbitem \lipsum[1][2-4]
\tcbitem \lipsum[1][3-5]
\end{bulletjournalitem}
```



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.



Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna.



Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque.

2.11 Bulletjournalpicture

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{bulletjournalpicture}[black]
\tcbitem \lipsum[1][1-3]
\tcbitem \lipsum[1][2-4]
\tcbitem \lipsum[1][3-5]
\end{bulletjournalpicture}
```



1 Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.



2 Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna.



3 Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque.

2.12 Bulletjournalarrow

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{bulletjournalarrow}[black]
\tcbitem First line of text.
\tcbitem Second line of text.
\end{bulletjournalarrow}
```



1 First line of text.



2 Second line of text.

2.13 Bulletjournalround

```
\begin{bulletjournalround}[colorNotation]
\tcbitem First line of text.
\tcbitem Second line of text.
\end{bulletjournalround}
```

1 First line of text.

2 Second line of text.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

```
\begin{notation}[Notation name title very large]
Text before bulletjournalround enviroment.
\begin{bulletjournalround}[colorNotation]
\tcbitem First line of text.
\tcbitem Second line of text.
\end{bulletjournalround}
Text out of bulletjournalround enviroment.
\end{notation}
```

Notation name title very large

Notação 2.13.1:Text before bulletjournalround enviroment.

1 First line of text.

2 Second line of text.

Text out of bulletjournalround enviroment.

2.14 Notebox

```
\begin{notebox}
\lipsum[1][1-3]
\end{notebox}
```



Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris.

CAPÍTULO 3

Presenting Information

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.

3.1 Table

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.



```

\begin{table}[h]
\centering
\begin{tabular}{l l l}
\toprule
\textbf{Treat.} & \textbf{Resp. 1} & \textbf{Resp. 2} \\
\midrule
Treatment 1 & 0.0003262 & 0.562 \\
Treatment 2 & 0.0015681 & 0.910 \\
Treatment 3 & 0.0009271 & 0.296 \\
\bottomrule
\end{tabular}
\caption{Table caption}
\end{table}

```

| Treat. | Resp. 1 | Resp. 2 |
|---------------|----------------|----------------|
| Treatment 1 | 0.0003262 | 0.562 |
| Treatment 2 | 0.0015681 | 0.910 |
| Treatment 3 | 0.0009271 | 0.296 |

Tabela 3.1: Table caption

3.2 Figure

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Ut purus elit, vestibulum ut, placerat ac, adipiscing vitae, felis. Curabitur dictum gravida mauris. Nam arcu libero, nonummy eget, consectetur id, vulputate a, magna. Donec vehicula augue eu neque. Pellentesque habitant morbi tristique senectus et netus et malesuada fames ac turpis egestas. Mauris ut leo. Cras viverra metus rhoncus sem. Nulla et lectus vestibulum urna fringilla ultrices. Phasellus eu tellus sit amet tortor gravida placerat. Integer sapien est, iaculis in, pretium quis, viverra ac, nunc. Praesent eget sem vel leo ultrices bibendum. Aenean faucibus. Morbi dolor nulla, malesuada eu, pulvinar at, mollis ac, nulla. Curabitur auctor semper nulla. Donec varius orci eget risus. Duis nibh mi, congue eu, accumsan eleifend, sagittis quis, diam. Duis eget orci sit amet orci dignissim rutrum.



```
\begin{figure}[h]  
\centering\includegraphics[width=0.3\textwidth]{placeholder}  
\caption{Figure caption}  
\end{figure}
```

Placeholder

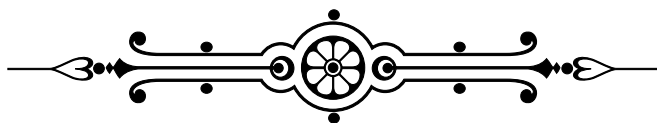
Image

Figura 3.1: Figure caption



Search image files in directory: ./pictures

Parte III



Macros

CAPÍTULO 4

Macros

4.1 File math-macros.tex



```
\begin {equation}  
\FuncOf {f}{x}  
\end {equation}
```

$$f(x) \tag{4.1}$$



```
\begin {equation}  
\MinOf {x}{f(x)}  
\end {equation}
```

$$\min_x f(x) \tag{4.2}$$



```
\begin {equation}  
\ArgMin {x}{f(x)}  
\end {equation}
```

$$\arg_x \min f(x) \tag{4.3}$$



```
\begin {equation}
\ArgMinDef {x}{f}
\end {equation}
```

$$\arg_x \min f(x) = \left\{ x | f(x) = \min_{x'} f(x') \right\} \quad (4.4)$$



```
\begin {equation}
\EigenSet {A}{v}{\lambda }
\end {equation}
```

$$\{v, \lambda | Av = \lambda v\} \quad (4.5)$$



```
\begin {equation}
\InnerProd {x}{y}
\end {equation}
```

$$\langle x, y \rangle \quad (4.6)$$



```
\begin {equation}
\Norm {x}
\end {equation}
```

$$\|x\| \quad (4.7)$$



```
\begin {equation}
\Cardinality {x}
\end {equation}
```

$$\text{card}(x) \quad (4.8)$$



```
\begin {equation}  
\DiagFunc {x}  
\end {equation}
```

$$\text{diag}(x) \quad (4.9)$$



```
\begin {equation}  
\Vector {x}  
\end {equation}
```

$$\mathbf{x} \quad (4.10)$$



```
\begin {equation}  
\Matrix {x}  
\end {equation}
```

$$\mathbf{X} \quad (4.11)$$



```
\begin {equation}  
\DtVector {x}  
\end {equation}
```

$$\dot{\mathbf{x}} \quad (4.12)$$



```
\begin {equation}  
\DDtVector {x}  
\end {equation}
```

$$\ddot{x} \quad (4.13)$$



```
\begin {equation}
\DtMatrix {x}
\end {equation}
```

$$\dot{x} \quad (4.14)$$



```
\begin {equation}
\DDtMatrix {x}
\end {equation}
```

$$\ddot{x} \quad (4.15)$$



```
\begin {equation}
\DPartial {y}{x}
\end {equation}
```

$$\frac{\partial y}{\partial x} \quad (4.16)$$



```
\begin {equation}
\DDPartial {y}{x}
\end {equation}
```

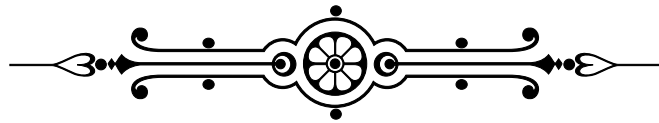
$$\frac{\partial^2 y}{\partial x^2} \quad (4.17)$$



```
\begin {equation}  
\DDPartialXY {z}{x}{y}  
\end {equation}
```

$$\frac{\partial^2 z}{\partial x \partial y} \quad (4.18)$$

Parte IV



Referencias

Bibliografia

- [Smi12] John Smith. *Book title*. 1ª edição. Volume 3. 2. City: Publisher, jan. de 2012, páginas 123–200 (ver página 18).
- [Smi13] James Smith. “Article title”. Em: 14.6 (mar. de 2013), páginas 1–8 (ver página 18).

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