



Exploring the Physical Manifestation of Humanity's Subconscious Desires

A Practical Guide

Goro Akechi



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First printing, March 2022



Contents

I

Part One Title

1	Sectioning Examples	11
1.1	Section Title	11
1.1.1	Subsection Title	11
2	In-text Element Examples	13
2.1	Referencing Publications	13
2.2	Link Examples	13
2.3	Lists	13
2.3.1	Numbered List	13
2.3.2	Bullet Point List	13
2.3.3	Descriptions and Definitions	13
2.4	International Support	14
2.5	Ligatures	14

II

Part Two Title

3	Mathematics	17
3.1	Theorems	17
3.1.1	Several equations	17
3.1.2	Single Line	17
3.2	Definitions	17
3.3	Notations	17
3.4	Remarks	18
3.5	Corollaries	18
3.6	Propositions	18
3.6.1	Several equations	18

3.6.2	Single Line	18
3.7	Examples	18
3.7.1	Equation Example	18
3.7.2	Text Example	18
3.8	Exercises	18
3.9	Problems	19
3.10	Vocabulary	19
4	Presenting Information and Results with a Long Chapter Title	21
4.1	Table	21
4.2	Figure	21
	Bibliography	23
	Articles	23
	Books	23
	Index	25
	Appendices	27
A	Appendix Chapter Title	27
A.1	Appendix Section Title	27
B	Appendix Chapter Title	29
B.1	Appendix Section Title	29



List of Figures

4.1	Figure caption.	21
4.2	Floating figure.	22



List of Tables

4.1	Table caption.	21
4.2	Floating table.	22



Part One Title

1	Sectioning Examples	11
1.1	Section Title	11
2	In-text Element Examples	13
2.1	Referencing Publications	13
2.2	Link Examples	13
2.3	Lists	13
2.4	International Support	14
2.5	Ligatures	14



1. Sectioning Examples

1.1 Section Title

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1.1.1 Subsection Title

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1.1.1.1 Subsubsection Title

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Unnumbered Section

Unnumbered Subsection

Unnumbered Subsubsection



2. In-text Element Examples

2.1 Referencing Publications

This statement requires citation [Smith:2022jd]; this one is more specific [Smith:2021qr].

2.2 Link Examples

This is a URL link: [LaTeX Templates](#). This is an email link: example@example.com. This is a monospaced URL link: `https://www.LaTeXTemplates.com`.

2.3 Lists

Lists are useful to present information in a concise and/or ordered way.

2.3.1 Numbered List

1. First numbered item
 - a. First indented numbered item
 - b. Second indented numbered item
 - i. First second-level indented numbered item
2. Second numbered item
3. Third numbered item

2.3.2 Bullet Point List

- First bullet point item
 - First indented bullet point item
 - Second indented bullet point item
 - First second-level indented bullet point item
- Second bullet point item
- Third bullet point item

2.3.3 Descriptions and Definitions

Name Description

Word Definition

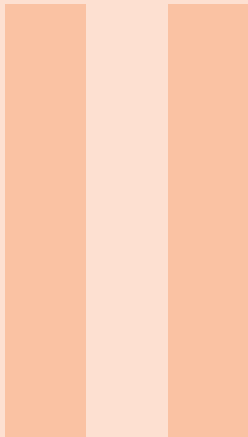
Comment Elaboration

2.4 International Support

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 ßÇÈÆČŠŽ

2.5 Ligatures

fi fj fl ffi ffi Ty



Part Two Title

3	Mathematics	17
3.1	Theorems	17
3.2	Definitions	17
3.3	Notations	17
3.4	Remarks	18
3.5	Corollaries	18
3.6	Propositions	18
3.7	Examples	18
3.8	Exercises	18
3.9	Problems	19
3.10	Vocabulary	19
4	Presenting Information and Results with a Long Chapter Title	21
4.1	Table	21
4.2	Figure	21

3. Mathematics

3.1 Theorems

3.1.1 Several equations

This is a theorem consisting of several equations.

Theorem 3.1 — Name of the theorem. In $E = \mathbb{R}^n$ all norms are equivalent. It has the properties:

$$||\mathbf{x}| - ||\mathbf{y}|| \leq ||\mathbf{x} - \mathbf{y}|| \quad (3.1)$$

$$||\sum_{i=1}^n \mathbf{x}_i|| \leq \sum_{i=1}^n ||\mathbf{x}_i|| \quad \text{where } n \text{ is a finite integer} \quad (3.2)$$

3.1.2 Single Line

This is a theorem consisting of just one line.

Theorem 3.2 A set $\mathcal{D}(G)$ is dense in $L^2(G)$, $|\cdot|_0$.

3.2 Definitions

A definition can be mathematical or it could define a concept.

Definition 3.1 — Definition name. Given a vector space E , a norm on E is an application, denoted $||\cdot||$, E in $\mathbb{R}^+ = [0, +\infty[$ such that:

$$||\mathbf{x}|| = 0 \Rightarrow \mathbf{x} = \mathbf{0} \quad (3.3)$$

$$||\lambda \mathbf{x}|| = |\lambda| \cdot ||\mathbf{x}|| \quad (3.4)$$

$$||\mathbf{x} + \mathbf{y}|| \leq ||\mathbf{x}|| + ||\mathbf{y}|| \quad (3.5)$$

3.3 Notations

■ **Notation 3.1** Given an open subset G of \mathbb{R}^n , the set of functions φ are:

1. Bounded support G ;
2. Infinitely differentiable;

a vector space is denoted by $\mathcal{D}(G)$.

3.4 Remarks

This is an example of a remark.



The concepts presented here are now in conventional employment in mathematics. Vector spaces are taken over the field $\mathbb{K} = \mathbb{R}$, however, established properties are easily extended to $\mathbb{K} = \mathbb{C}$.

3.5 Corollaries

Corollary 3.1 — Corollary name. The concepts presented here are now in conventional employment in mathematics. Vector spaces are taken over the field $\mathbb{K} = \mathbb{R}$, however, established properties are easily extended to $\mathbb{K} = \mathbb{C}$.

3.6 Propositions

3.6.1 Several equations

Proposition 3.1 — Proposition name. It has the properties:

$$||\mathbf{x}|| - ||\mathbf{y}|| \leq ||\mathbf{x} - \mathbf{y}|| \quad (3.6)$$

$$||\sum_{i=1}^n \mathbf{x}_i|| \leq \sum_{i=1}^n ||\mathbf{x}_i|| \quad \text{where } n \text{ is a finite integer} \quad (3.7)$$

3.6.2 Single Line

Proposition 3.2 Let $f, g \in L^2(G)$; if $\forall \varphi \in \mathcal{D}(G)$, $(f, \varphi)_0 = (g, \varphi)_0$ then $f = g$.

3.7 Examples

3.7.1 Equation Example

■ **Example 3.1** Let $G = \{x \in \mathbb{R}^2 : |x| < 3\}$ and denoted by: $x^0 = (1, 1)$; consider the function:

$$f(x) = \begin{cases} e^{|x|} & \text{si } |x - x^0| \leq 1/2 \\ 0 & \text{si } |x - x^0| > 1/2 \end{cases} \quad (3.8)$$

The function f has bounded support, we can take $A = \{x \in \mathbb{R}^2 : |x - x^0| \leq 1/2 + \varepsilon\}$ for all $\varepsilon \in]0; 5/2 - \sqrt{2}[$. ■

3.7.2 Text Example

■ **Example 3.2 — Example name.** Aliquam arcu turpis, ultrices sed luctus ac, vehicula id metus. Morbi eu feugiat velit, et tempus augue. Proin ac mattis tortor. Donec tincidunt, ante rhoncus luctus semper, arcu lorem lobortis justo, nec convallis ante quam quis lectus. Aenean tincidunt sodales massa, et hendrerit tellus mattis ac. Sed non pretium nibh. Donec cursus maximus luctus. Vivamus lobortis eros et massa porta porttitor. ■

3.8 Exercises

Exercise 3.1 This is a good place to ask a question to test learning progress or further cement ideas into students' minds. ■

3.9 Problems

Problem 3.1 What is the average airspeed velocity of an unladen swallow?

3.10 Vocabulary

Define a word to improve a students' vocabulary.

■ **Vocabulary 3.1 — Word.** Definition of word.

4. Presenting Information and Results with a Long Chapter Title

4.1 Table

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Treatments	Response 1	Response 2
Treatment 1	0.0003262	0.562
Treatment 2	0.0015681	0.910
Treatment 3	0.0009271	0.296

Table 4.1: Table caption.

Referencing Table 4.1 in-text using its label.

4.2 Figure

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Figure 4.1: Figure caption.

Referencing Figure 4.1 in-text using its label.

Treatments	Response 1	Response 2
Treatment 1	0.0003262	0.562
Treatment 2	0.0015681	0.910
Treatment 3	0.0009271	0.296

Table 4.2: Floating table.

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Figure 4.2: Floating figure.

Bibliography

Articles

Books

Index

Citation, 13
Corollaries, 18

Definitions, 17

Examples, 18
 Equation, 18
 Text, 18
Exercises, 18

Figure, 21

Links, 13
Lists, 13
 Bullet Points, 13
 Descriptions and Definitions, 13
 Numbered List, 13

Notations, 17

Problems, 19
Propositions, 18
 Several Equations, 18
 Single Line, 18

Remarks, 18

Sectioning, 11
 Paragraphs, 12
 Sections, 11
 Subsections, 11
 Subsubsections, 12

Table, 21
Theorems, 17
 Several Equations, 17
 Single Line, 17

Vocabulary, 19



A. Appendix Chapter Title

A.1 Appendix Section Title

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B. Appendix Chapter Title

B.1 Appendix Section Title

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