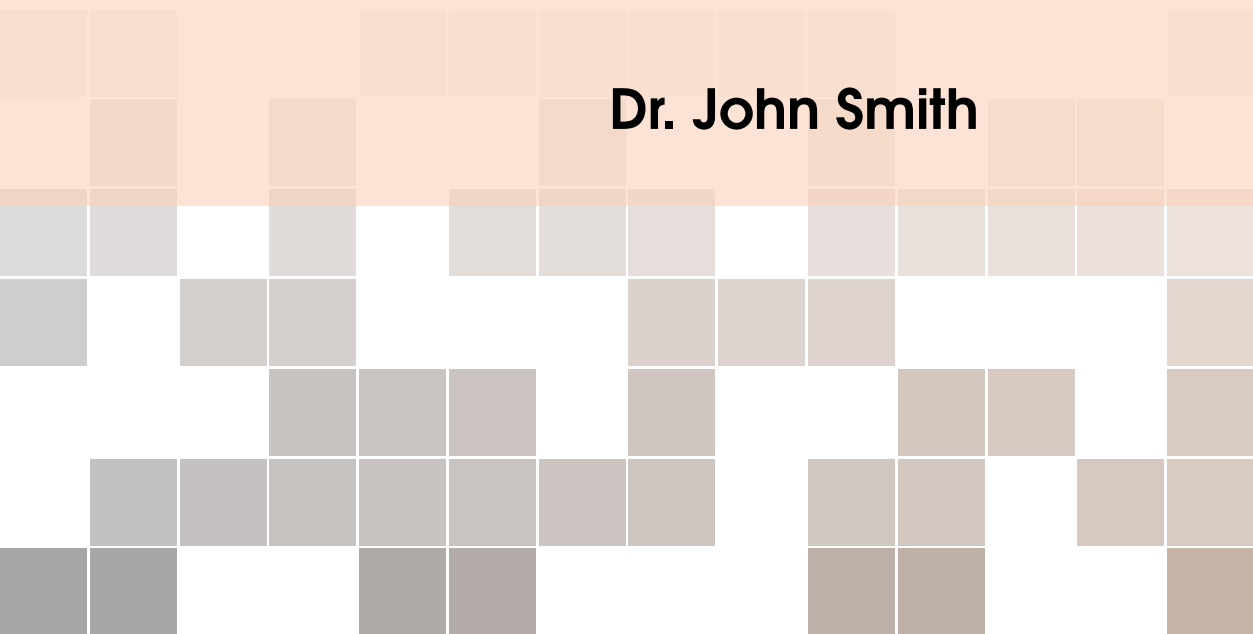


The Search for a Title

A Profound Subtitle

Dr. John Smith



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First printing, March 2013

Contents

I	Part One	
1	Text Chapter	7
1.1	Paragraphs of Text	7
1.2	Citation	8
1.3	Lists	8
1.3.1	Numbered List	8
1.3.2	Bullet Points	8
1.3.3	Descriptions and Definitions	8
2	In-text Elements	11
2.1	Theorems	11
2.1.1	Several equations	11
2.1.2	Single Line	11
2.2	Definitions	11
2.3	Notations	12
2.4	Remarks	12
2.5	Corollaries	12
2.6	Propositions	12
2.6.1	Several equations	12
2.6.2	Single Line	12
2.7	Examples	12
2.7.1	Equation and Text	12
2.7.2	Paragraph of Text	13

2.8	Exercises	13
2.9	Problems	13
2.10	Vocabulary	13

II	Part Two
----	----------

3	Presenting Information	17
3.1	Table	17
3.2	Figure	17
3.3	Example of Link To Section	18
	Bibliography	19
	Index	21



Part One

1	Text Chapter	7
1.1	Paragraphs of Text	
1.2	Citation	
1.3	Lists	
2	In-text Elements	11
2.1	Theorems	
2.2	Definitions	
2.3	Notations	
2.4	Remarks	
2.5	Corollaries	
2.6	Propositions	
2.7	Examples	
2.8	Exercises	
2.9	Problems	
2.10	Vocabulary	



1. Text Chapter

1.1 Paragraphs of Text

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1.2 Citation

This statement requires citation ([John Smith 2012](#)); this one is more specific ([James Smith 2013](#)). Direct citations John Smith ([2012](#)) and James Smith ([2013](#)).

1.3 Lists

Lists are useful to present information in a concise and/or ordered way¹.

1.3.1 Numbered List

1. The first item
2. The second item
3. The third item

1.3.2 Bullet Points

- The first item
- The second item
- The third item

1.3.3 Descriptions and Definitions

Name Description

Word Definition

Comment Elaboration

Name Description

¹Footnote example...

Word	Definition
Comment	Elaboration

2. In-text Elements

2.1 Theorems

This is an example of theorems.

2.1.1 Several equations

This is a theorem consisting of several equations.

Theorem 2.1.1 — Name of the theorem. In $E = \mathbb{R}^n$ all norms are equivalent. It has the properties:

$$||\mathbf{x}|| - ||\mathbf{y}|| \leq ||\mathbf{x} - \mathbf{y}|| \quad (2.1)$$

$$||\sum_{i=1}^n \mathbf{x}_i|| \leq \sum_{i=1}^n ||\mathbf{x}_i|| \quad \text{where } n \text{ is a finite integer} \quad (2.2)$$

2.1.2 Single Line

This is a theorem consisting of just one line.

Theorem 2.1.2 A set $\mathcal{D}(G)$ is dense in $L^2(G)$, $|\cdot|_0$.

2.2 Definitions

This is an example of a definition. A definition could be mathematical or it could define a concept.

Definition 2.2.1 — Definition name. Given a vector space E , a norm on E is an application, denoted $||\cdot||$, E in $\mathbb{R}^+ = [0, +\infty[$ such that:

$$||\mathbf{x}|| = 0 \Rightarrow \mathbf{x} = \mathbf{0} \quad (2.3)$$

$$||\lambda \mathbf{x}|| = |\lambda| \cdot ||\mathbf{x}|| \quad (2.4)$$

$$||\mathbf{x} + \mathbf{y}|| \leq ||\mathbf{x}|| + ||\mathbf{y}|| \quad (2.5)$$

2.3 Notations

Notation 2.1. 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 $\mathcal{D}(G)$.

2.4 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 $\mathbb{K} = \mathbb{C}$.

2.5 Corollaries

This is an example of a corollary.

Corollary 2.5.1 — 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 $\mathbb{K} = \mathbb{C}$.

2.6 Propositions

This is an example of propositions.

2.6.1 Several equations

Proposition 2.6.1 — Proposition name. It has the properties:

$$||\mathbf{x}|| - ||\mathbf{y}|| \leq ||\mathbf{x} - \mathbf{y}|| \quad (2.6)$$

$$||\sum_{i=1}^n \mathbf{x}_i|| \leq \sum_{i=1}^n ||\mathbf{x}_i|| \quad \text{where } n \text{ is a finite integer} \quad (2.7)$$

2.6.2 Single Line

Proposition 2.6.2 Let $f, g \in L^2(G)$; if $\forall \varphi \in \mathcal{D}(G)$, $(f, \varphi)_0 = (g, \varphi)_0$ then $f = g$.

2.7 Examples

This is an example of examples.

2.7.1 Equation and Text

■ **Example 2.1** Let $G = \{x \in \mathbb{R}^2 : |x| < 3\}$ and denoted by: $x^0 = (1, 1)$; consider the function:

$$f(x) = \begin{cases} e^{|x|} & \text{si } |x - x^0| \leq 1/2 \\ 0 & \text{si } |x - x^0| > 1/2 \end{cases} \quad (2.8)$$

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

2.7.2 Paragraph of Text

■ **Example 2.2 — Example name.** Nam dui ligula, fringilla a, euismod sodales, sollicitudin vel, wisi. Morbi auctor lorem non justo. Nam lacus libero, pretium at, lobortis vitae, ultricies et, tellus. Donec aliquet, tortor sed accumsan bibendum, erat ligula aliquet magna, vitae ornare odio metus a mi. Morbi ac orci et nisl hendrerit mollis. Suspendisse ut massa. Cras nec ante. Pellentesque a nulla. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Aliquam tincidunt urna. Nulla ullamcorper vestibulum turpis. Pellentesque cursus luctus mauris. ■

2.8 Exercises

This is an example of an exercise.

Exercise 2.1 This is a good place to ask a question to test learning progress or further cement ideas into students' minds. ■

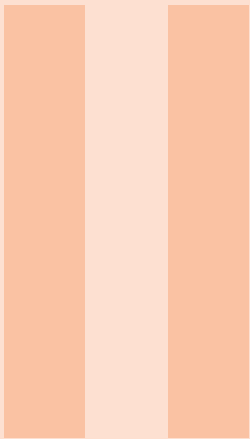
2.9 Problems

Problem 2.1 What is the average airspeed velocity of an unladen swallow?

2.10 Vocabulary

Define a word to improve a students' vocabulary.

Vocabulary 2.1 — Word. Definition of word.



Part Two

3	Presenting Information	17
3.1	Table	
3.2	Figure	
3.3	Example of Link To Section	
	Bibliography	19
	Index	21

3. Presenting Information

3.1 Table

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

Table 3.1: Table caption

3.2 Figure



Figure 3.1: Figure caption

Use command `![Test Figure](Pictures/placeholder.jpg){#fig:testfig width=50%}` for figure. See [Figure 3.2](#) below.

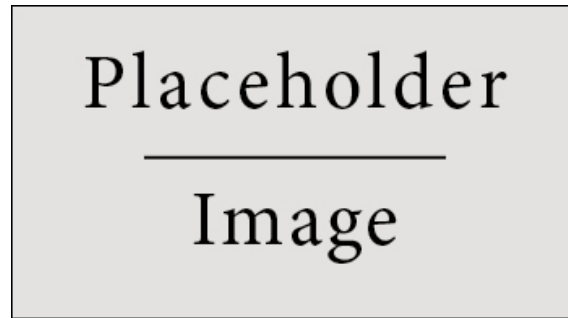


Figure 3.2: Test Figure

3.3 Example of Link To Section

[Link to this subsection](#)



Bibliography

Smith, James. 2013. "Article Title" 14 (6): 1–8.

Smith, John. 2012. *Book Title*. 1st ed. Vol. 3. 2nd Series. City: Publisher.

Index

C

Citation	8
Corollaries	12

D

Definitions	11
-------------------	----

E

Examples	12
Equation and Text	12
Paragraph of Text	13
Exercises	13

F

Figure	17
--------------	----

L

Link to Section	18
Lists	8
Bullet Points	8
Descriptions and Definitions	8
Numbered List	8

N

Notations	12
-----------------	----

P

Paragraphs of Text	7
Problems	13
Propositions	12
Several Equations	12
Single Line	12

R

Remarks	12
---------------	----

T

Table	17
Theorems	11
Several Equations	11
Single Line	11

V

Vocabulary	13
------------------	----