

# Título de la tesis



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Me gustaría dedicar esta tesis a ...

## **Agradecimientos**

Y me gustaría reconocer...

## **Resumen**

Aquí es donde escribes tu resumen...

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# 1 Capítulo 1

## 2 Getting started

### 3 1.1. What is lorem ipsum? Title with math $\sigma$

4 Lorem Ipsum is simply dummy text of the printing and typesetting industry (see  
5 Section 1.3). Lorem Ipsum (Aupetit, 1991) has been the industry’s standard dummy  
6 text ever since the 1500s, when an unknown printer took a galley of type and scrambled  
7 it to make a type specimen book. It has survived not only five centuries, but also the  
8 leap into electronic typesetting, remaining essentially unchanged. It was popularised  
9 in the 1960s with the release of Letraset sheets containing Lorem Ipsum passages,  
10 and more recently with desktop publishing software like Aldus PageMaker including  
11 versions of Lorem Ipsum (Abramovich et al. 1995; Conway, 1990; Ljubič y Macaev,  
12 1965).

13 The most famous equation in the world:  $E^2 = (m_0c^2)^2 + (pc)^2$ , which is known as  
14 the **energy-mass-momentum** relation as an in-line equation.

15 A *LaTeX class file* is a file, which holds style information for a particular *LaTeX*.

$$16 \quad CIF : \quad F_0^j(a) = \frac{1}{2\pi i} \oint_{\gamma} \frac{F_0^j(z)}{z-a} dz \quad (1.1)$$

17

### 18 1.2. Why do we use lorem ipsum?

19 It is a long established fact that a reader will be distracted by the readable content  
20 of a page when looking at its layout. The point of using Lorem Ipsum is that it has a  
21 more-or-less normal distribution of letters, as opposed to using ‘Content here, content  
22 here’, making it look like readable English. Many desktop publishing packages and  
23 web page editors now use Lorem Ipsum as their default model text, and a search for  
24 ‘lorem ipsum’ will uncover many web sites still in their infancy. Various versions have



evolved over the years, sometimes by accident, sometimes on purpose (injected humour and the like).

Nombre: Esto es una nota de ejemplo.

### 1.3. Where does it come from?

Contrary to popular belief, Lorem Ipsum is not simply random text. It has roots in a piece of classical Latin literature from 45 BC, making it over 2000 years old. Richard McClintock, a Latin professor at Hampden-Sydney College in Virginia, looked up one of the more obscure Latin words, consectetur, from a Lorem Ipsum passage, and going through the cites of the word in classical literature, discovered the undoubtable source. Lorem Ipsum comes from sections 1.10.32 and 1.10.33 of "de Finibus Bonorum et Malorum" (The Extremes of Good and Evil) by Cicero, written in 45 BC. This book is a treatise on the theory of ethics, very popular during the Renaissance. The first line of Lorem Ipsum, "Lorem ipsum dolor sit amet..", comes from a line in section 1.10.32.

The standard chunk of Lorem Ipsum used since the 1500s is reproduced below for those interested. Sections 1.10.32 and 1.10.33 from "de Finibus Bonorum et Malorum" by Cicero are also reproduced in their exact original form, accompanied by English versions from the 1914 translation by H. Rackham

"Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum."

Section 1.10.32 of "de Finibus Bonorum et Malorum", written by Cicero in 45 BC: "Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur?"

1914 translation by H. Rackham: "But I must explain to you how all this mistaken idea of denouncing pleasure and praising pain was born and I will give you a complete account of the system, and expound the actual teachings of the great explorer of

1 the truth, the master-builder of human happiness. No one rejects, dislikes, or avoids  
2 pleasure itself, because it is pleasure, but because those who do not know how to  
3 pursue pleasure rationally encounter consequences that are extremely painful. Nor  
4 again is there anyone who loves or pursues or desires to obtain pain of itself, because  
5 it is pain, but because occasionally circumstances occur in which toil and pain can  
6 procure him some great pleasure. To take a trivial example, which of us ever undertakes  
7 laborious physical exercise, except to obtain some advantage from it? But who has any  
8 right to find fault with a man who chooses to enjoy a pleasure that has no annoying  
9 consequences, or one who avoids a pain that produces no resultant pleasure?"

10 Section 1.10.33 of "de Finibus Bonorum et Malorum", written by Cicero in 45  
11 BC: "At vero eos et accusamus et iusto odio dignissimos ducimus qui blanditiis prae-  
12 sentium voluptatum deleniti atque corrupti quos dolores et quas molestias excepturi  
13 sint occaecati cupiditate non provident, similique sunt in culpa qui officia deserunt  
14 mollitia animi, id est laborum et dolorum fuga. Et harum quidem rerum facilis est et  
15 expedita distinctio. Nam libero tempore, cum soluta nobis est eligendi optio cumque  
16 nihil impedit quo minus id quod maxime placeat facere possimus, omnis voluptas assu-  
17 menda est, omnis dolor repellendus. Temporibus autem quibusdam et aut officiis debitis  
18 aut rerum necessitatibus saepe eveniet ut et voluptates repudiandae sint et molestiae  
19 non recusandae. Itaque earum rerum hic tenetur a sapiente delectus, ut aut reiciendis  
20 voluptatibus maiores alias consequatur aut perferendis doloribus asperiores repellat."

21 1914 translation by H. Rackham: "On the other hand, we denounce with righteous  
22 indignation and dislike men who are so beguiled and demoralized by the charms of  
23 pleasure of the moment, so blinded by desire, that they cannot foresee the pain and  
24 trouble that are bound to ensue; and equal blame belongs to those who fail in their duty  
25 through weakness of will, which is the same as saying through shrinking from toil and  
26 pain. These cases are perfectly simple and easy to distinguish. In a free hour, when  
27 our power of choice is untrammelled and when nothing prevents our being able to do  
28 what we like best, every pleasure is to be welcomed and every pain avoided. But in  
29 certain circumstances and owing to the claims of duty or the obligations of business it  
30 will frequently occur that pleasures have to be repudiated and annoyances accepted.  
31 The wise man therefore always holds in these matters to this principle of selection: he  
32 rejects pleasures to secure other greater pleasures, or else he endures pains to avoid  
33 worse pains."

# Capítulo 2

1

## My second chapter

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### 2.1. Reasonably long section title

3

If you have trouble viewing this document contact Krishna at: [kks32@cam.ac.uk](mailto:kks32@cam.ac.uk) or raise an issue at <https://github.com/kks32/phd-thesis-template/>

4

5

See that Aupetit, 1991 and (Ancey et al. 1996) and Dunford y Schwartz (1957).

6

### Enumeration

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1 Curabitur placerat finibus velit, eu ultricies risus imperdiet ut. Suspendisse lorem orci,  
2 luctus porta eros a, commodo maximus nisi.

3 Nunc et dolor diam. Phasellus eu justo vitae diam vehicula tristique. Vestibulum  
4 vulputate cursus turpis nec commodo. Etiam elementum sit amet erat et pellentesque.  
5 In eu augue sed tortor mollis tincidunt. Mauris eros dui, sagittis vestibulum vestibulum  
6 vitae, molestie a velit. Donec non felis ut velit aliquam convallis sit amet sit amet velit.  
7 Aliquam vulputate, elit in lacinia lacinia, odio lacus consectetur quam, sit amet facilisis  
8 mi justo id magna. Curabitur aliquet pulvinar eros. Cras metus enim, tristique ut magna  
9 a, interdum egestas nibh. Aenean lorem odio, varius a sollicitudin non, cursus a odio.  
10 Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere cubilia Curae;

11 1. The first topic is dull

12 2. The second topic is duller

13 a) The first subtopic is silly

14 b) The second subtopic is stupid

15 3. The third topic is the dullest

16 Morbi bibendum est aliquam, hendrerit dolor ac, pretium sem. Nunc molestie, dui  
17 in euismod finibus, nunc enim viverra enim, eu mattis mi metus id libero. Cras sed  
18 accumsan justo, ut volutpat ipsum. Nam faucibus auctor molestie. Morbi sit amet eros  
19 a justo pretium aliquet. Maecenas tempor risus sit amet tincidunt tincidunt. Curabitur  
20 dapibus gravida gravida. Vivamus porta ullamcorper nisi eu molestie. Ut pretium nisl  
21 eu facilisis tempor. Nulla rutrum tincidunt justo, id placerat lacus laoreet et. Sed cursus  
22 lobortis vehicula. Donec sed tortor et est cursus pellentesque sit amet sed velit. Proin  
23 efficitur posuere felis, porta auctor nunc. Etiam non porta risus. Pellentesque lacinia  
24 eros at ante iaculis, sed aliquet ipsum volutpat. Suspendisse potenti.

25 Ut ultrices lectus sed sagittis varius. Nulla facilisi. Nullam tortor sem, placerat nec  
26 condimentum eu, tristique eget ex. Nullam pretium tellus ut nibh accumsan elementum.  
27 Aliquam posuere gravida tellus, id imperdiet nulla rutrum imperdiet. Nulla pretium  
28 ullamcorper quam, non iaculis orci consectetur eget. Curabitur non laoreet nisl. Maece-  
29 nas lacinia, lorem vel tincidunt cursus, odio lorem aliquet est, gravida auctor arcu urna  
30 id enim. Morbi accumsan bibendum ipsum, ut maximus dui placerat vitae. Nullam  
31 pretium ac tortor nec venenatis. Nunc non aliquet neque.

## 32 Itemize

33 ■ The first topic is dull

34 ■ The second topic is duller

35 • The first subtopic is silly

- The second subtopic is stupid1
- The third topic is the dullest2

Description3

The first topic is dull4

The second topic is duller5

The first subtopic is silly6

The second subtopic is stupid7

The third topic is the dullest8

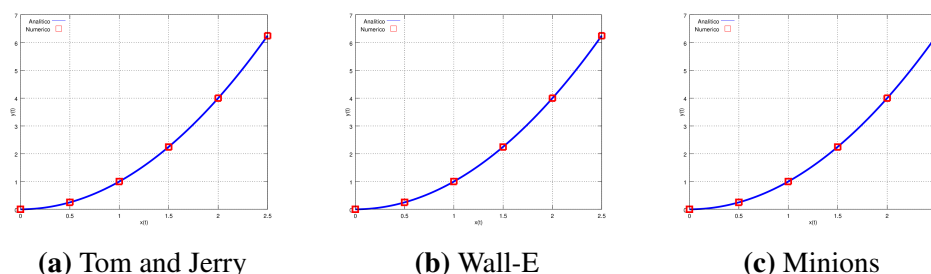
## 2.2. Hidden section

**Lorem ipsum dolor sit amet**, consectetur adipiscing elit. In magna nisi, aliquam id blandit id, congue ac est. Fusce porta consequat leo. Proin feugiat at felis vel consectetur. Ut tempus ipsum sit amet congue posuere. Nulla varius rutrum quam. Donec sed purus luctus, faucibus velit id, ultrices sapien. Cras diam purus, tincidunt eget tristique ut, egestas quis nulla. Curabitur vel iaculis lectus. Nunc nulla urna, ultrices et eleifend in, accumsan ut erat. In ut ante leo. Aenean a lacinia nisl, sit amet ullamcorper dolor. Maecenas blandit, tortor ut scelerisque congue, velit diam volutpat metus, sed vestibulum eros justo ut nulla. Etiam nec ipsum non enim luctus porta in in massa. Cras arcu urna, malesuada ut tellus ut, pellentesque mollis risus. Morbi vel tortor imperdiet arcu auctor mattis sit amet eu nisi. Nulla gravida urna vel nisl egestas varius. Aliquam posuere ante quis malesuada dignissim. Mauris ultrices tristique eros, a dignissim nisl iaculis nec. Praesent dapibus tincidunt mauris nec tempor. Curabitur et consequat nisi. Quisque viverra egestas risus, ut sodales enim blandit at. Mauris quis odio nulla. Cras euismod turpis magna, in facilisis diam congue non. Mauris faucibus nisl a orci dictum, et tempus mi cursus.

Etiam elementum tristique lacus, sit amet eleifend nibh eleifend sed <sup>1</sup>. Maecenas dapibus augue ut urna malesuada, non tempor nibh mollis. Donec sed sem sollicitudin, convallis velit aliquam, tincidunt diam. In eu venenatis lorem. Aliquam non augue porttitor tellus faucibus porta et nec ante. Proin sodales, libero vitae commodo sodales, dolor nisi cursus magna, non tincidunt ipsum nibh eget purus. Nam rutrum tincidunt arcu, tincidunt vulputate mi sagittis id. Proin et nisi nec orci tincidunt auctor et porta elit. Praesent eu dolor ac magna cursus euismod. Integer non dictum nunc.

## Subplots

I can cite Wall-E (see Fig. 2.1b) Figura 2.1c and Figura 2.1a Minions in despicable me (Fig. 2.1c) or I can cite the whole figure as Fig. 2.1



**Figura 2.1** Best Animations

<sup>1</sup>My footnote goes blah blah blah! ...

# Capítulo 3

1

## My third chapter

2

### 3.1. First section of the third chapter

3

And now I begin my third chapter here ...<sup>1</sup>

4

And now to cite some more people Ancey et al. (1996) y Read (1985)

5

#### 3.1.1. First subsection in the first section

6

...and some more<sup>2</sup>

7

#### 3.1.2. Second subsection in the first section

8

...and some more ...

9

#### First subsub section in the second subsection

10

...and some more in the first subsub section otherwise it all looks the same doesn't it? well we can add some text to it ...

11

12

#### 3.1.3. Third subsection in the first section

13

...and some more ...

14

#### First subsub section in the third subsection

15

...and some more in the first subsub section otherwise it all looks the same doesn't it? well we can add some text to it and some more and some more and some more and some more and some more and some more ...

16

17

18

---

<sup>1</sup>Otra nota al pie.

<sup>2</sup>Otra nota al pie.

### 1 **Second subsub section in the third subsection**

2 ...and some more in the first subsub section otherwise it all looks the same doesn't  
3 it? well we can add some text to it ...

## 4 **3.2. Second section of the third chapter**

5 and here I write more ...

## 6 **3.3. The layout of formal tables**

7 This section has been modified from “Publication quality tables in  $\text{\LaTeX}$ ” by  
8 Simon Fear.

9 The layout of a table has been established over centuries of experience and should  
10 only be altered in extraordinary circumstances.

11 When formatting a table, remember two simple guidelines at all times:

12 1. Never, ever use vertical rules (lines).

13 2. Never use double rules.

14 These guidelines may seem extreme but I have never found a good argument in  
15 favour of breaking them. For example, if you feel that the information in the left half of  
16 a table is so different from that on the right that it needs to be separated by a vertical  
17 line, then you should use two tables instead. Not everyone follows the second guideline:

18 There are three further guidelines worth mentioning here as they are generally not  
19 known outside the circle of professional typesetters and subeditors:

20 3. Put the units in the column heading (not in the body of the table).

21 4. Always precede a decimal point by a digit; thus 0.1 *not* just .1.

22 5. Do not use ‘ditto’ signs or any other such convention to repeat a previous value.

23 In many circumstances a blank will serve just as well. If it won't, then repeat the  
24 value.

25 A frequently seen mistake is to use ‘`\begin{center}`’ ... ‘`\end{center}`’ inside a  
26 figure or table environment. This center environment can cause additional vertical  
27 space. If you want to avoid that just use ‘`\centering`’



**Tabla 3.1** A badly formatted table

	Species I		Species II	
Dental measurement	mean	SD	mean	SD
I1MD	6.23	0.91	5.2	0.7
I1LL	7.48	0.56	8.7	0.71
I2MD	3.99	0.63	4.22	0.54
I2LL	6.81	0.02	6.66	0.01
CMD	13.47	0.09	10.55	0.05
CBL	11.88	0.05	13.11	0.04

**Tabla 3.2** A nice looking table

Dental measurement	Species I		Species II	
	mean	SD	mean	SD
I1MD	6.23	0.91	5.2	0.7
I1LL	7.48	0.56	8.7	0.71
I2MD	3.99	0.63	4.22	0.54
I2LL	6.81	0.02	6.66	0.01
CMD	13.47	0.09	10.55	0.05
CBL	11.88	0.05	13.11	0.04

**Tabla 3.3** Even better looking table using booktabs

Dental measurement	Species I		Species II	
	mean	SD	mean	SD
I1MD	6.23	0.91	5.2	0.7
I1LL	7.48	0.56	8.7	0.71
I2MD	3.99	0.63	4.22	0.54
I2LL	6.81	0.02	6.66	0.01
CMD	13.47	0.09	10.55	0.05
CBL	11.88	0.05	13.11	0.04

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9 [1484\(199610\)1:4%3C385::AID-CFM20%3E3.0.CO;2-0](http://doi.wiley.com/10.1002/(SICI)1099-1484(199610)1:4%3C385::AID-CFM20%3E3.0.CO;2-0)
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# Apéndice A

1

## Primer apéndice

2

Este es el primer apéndice.

3

## <sup>1</sup> **Apéndice B**

### <sup>2</sup> **Segundo apéndice**

<sup>3</sup> Este es el segundo apéndice.

