# ANDRÉ MIEDE A CLASSIC THESIS STYLE

# A CLASSIC THESIS STYLE

# ANDRÉ MIEDE



An Homage to The Elements of Typographic Style September 2015 – version 4.2



# Ohana means family. Family means nobody gets left behind, or forgotten.

— Lilo & Stitch

Dedicated to the loving memory of Rudolf Miede. 1939–2005

#### ABSTRACT

Short summary of the contents in English...a great guide by Kent Beck how to write good abstracts can be found here:

https://plg.uwaterloo.ca/~migod/research/beck00PSLA.html

#### **PUBLICATIONS**

This might come in handy for PhD theses: some ideas and figures have appeared previously in the following publications:

Attention: This requires a separate run of bibtex for your refsection, e.g., ClassicThesis1-blx for this file. You might also use biber as the backend for biblatex. See also http://tex.stackexchange.com/questions/128196/problem-with-refsection.

This is just an early

– and currently

ugly – test!

We have seen that computer programming is an art, because it applies accumulated knowledge to the world, because it requires skill and ingenuity, and especially because it produces objects of beauty.

— knuth:1974 [knuth:1974]

#### ACKNOWLEDGMENTS

Put your acknowledgments here.

Many thanks to everybody who already sent me a postcard!

Regarding the typography and other help, many thanks go to Marco Kuhlmann, Philipp Lehman, Lothar Schlesier, Jim Young, Lorenzo Pantieri and Enrico Gregorio¹, Jörg Sommer, Joachim Köstler, Daniel Gottschlag, Denis Aydin, Paride Legovini, Steffen Prochnow, Nicolas Repp, Hinrich Harms, Roland Winkler, Jörg Weber, Henri Menke, Claus Lahiri, Clemens Niederberger, Stefano Bragaglia, Jörn Hees, and the whole Later Community for support, ideas and some great software.

Regarding L<sub>Y</sub>X: The L<sub>Y</sub>X port was intially done by *Nicholas Mariette* in March 2009 and continued by *Ivo Pletikosić* in 2011. Thank you very much for your work and for the contributions to the original style.

<sup>1</sup> Members of GuIT (Gruppo Italiano Utilizzatori di TEX e LATEX)

# CONTENTS

I	SO	ME KIND OF MANUAL 1			
1	INT	RODUCTION 3			
	1.1	Organization 5			
	1.2	Style Options 6			
	1.3	Customization 7			
	-	Issues 8			
	1.5	Future Work 9			
		Beyond a Thesis 9			
		License 9			
	-				
II	TH	E SHOWCASE 11			
2	EXAMPLES 13				
	2.1	A New Section 13			
		2.1.1 Test for a Subsection 13			
		2.1.2 Autem Timeam 13			
	2.2	Another Section in This Chapter 14			
		2.2.1 Personas Initialmente 14			
		2.2.2 Linguistic Registrate 15			
3	MAT	TH TEST CHAPTER 17			
	3.1	Some Formulas 17			
	3.2	Various Mathematical Examples 18			
III	AP	PENDIX 19			
A		ENDIX TEST 21			
		Appendix Section Test 21			
	A.2	Another Appendix Section Test 21			
BIBLIOGRAPHY 23					

#### LIST OF FIGURES

Figure 1 Tu duo titulo debitas latente 16

#### LIST OF TABLES

Table 1 Autem timeam deleniti usu id 15

Table 2 Autem usu id 21

### LISTINGS

Listing 1 A floating example (listings manual) 21

#### **ACRONYMS**

DRY Don't Repeat Yourself

API Application Programming Interface

UML Unified Modeling Language

# Part I SOME KIND OF MANUAL

INTRODUCTION

This bundle for LATEX has two goals:

- 1. Provide students with an easy-to-use template for their Master's or PhD thesis. (Though it might also be used by other types of authors for reports, books, etc.)
- 2. Provide a classic, high-quality typographic style that is inspired by **bringhurst:2002**'s "*The Elements of Typographic Style*" [**bringhurst:2002**].

A Classic Thesis Style version 4.2

The bundle is configured to run with a *full* MiKT<sub>E</sub>X or T<sub>E</sub>XLive<sup>1</sup> installation right away and, therefore, it uses only freely available fonts. (Minion fans can easily adjust the style to their needs.)

People interested only in the nice style and not the whole bundle can now use the style stand-alone via the file classicthesis.sty. This works now also with "plain" LATEX.

As of version 3.0, classicthesis can also be easily used with  $L_YX^2$  thanks to Nicholas Mariette and Ivo Pletikosić. The  $L_YX$  version of this manual will contain more information on the details.

This should enable anyone with a basic knowledge of  $\LaTeX$  2 $_{\mathcal{E}}$  or  $\LaTeX$  to produce beautiful documents without too much effort. In the end, this is my overall goal: more beautiful documents, especially theses, as I am tired of seeing so many ugly ones.

The whole template and the used style is released under the GNU General Public License.

If you like the style then I would appreciate a postcard:

André Miede Detmolder Straße 32 31737 Rinteln Germany

The postcards I received so far are available at:

http://postcards.miede.de

So far, many theses, some books, and several other publications have been typeset successfully with it. If you are interested in some typographic details behind it, enjoy Robert Bringhurst's wonderful book. A well-balanced line width improves the legibility of the text. That's what typography is all about, right?

<sup>1</sup> See the file LISTOFFILES for needed packages. Furthermore, classicthesis works with most other distributions and, thus, with most systems LATEX is available for.

<sup>2</sup> http://www.lyx.org

IMPORTANT NOTE: Some things of this style might look unusual at first glance, many people feel so in the beginning. However, all things are intentionally designed to be as they are, especially these:

- No bold fonts are used. Italics or spaced small caps do the job quite well.
- The size of the text body is intentionally shaped like it is. It supports both legibility and allows a reasonable amount of information to be on a page. And, no: the lines are not too short.
- The tables intentionally do not use vertical or double rules. See
  the documentation for the booktabs package for a nice discussion of this topic.<sup>3</sup>
- And last but not least, to provide the reader with a way easier access to page numbers in the table of contents, the page numbers are right behind the titles. Yes, they are *not* neatly aligned at the right side and they are *not* connected with dots that help the eye to bridge a distance that is not necessary. If you are still not convinced: is your reader interested in the page number or does she want to sum the numbers up?

Therefore, please do not break the beauty of the style by changing these things unless you really know what you are doing! Please.

YET ANOTHER IMPORTANT NOTE: Since classicthesis' first release in 2006, many things have changed in the LATEX world. Trying to keep up-to-date, classicthesis grew and evolved into many directions, trying to stay (some kind of) stable and be compatible with its port to LyX. However, there are still many remains from older times in the code, many dirty workarounds here and there, and several other things I am absolutely not proud of (for example my unwise combination of KOMA and titlesec etc.).

An outlook into the future of classicthesis.

Currently, I am looking into how to completely re-design and re-implement classicthesis making it easier to maintain and to use. As a general idea, classicthesis.sty should be developed and distributed separately from the template bundle itself. Excellent spin-offs such as arsclassica could also be integrated (with permission by their authors) as format configurations. Also, current trends of microtype, fontspec, etc. should be included as well. As I am not really into deep LATEX programming, I will reach out to the LATEX community for their expertise and help.

<sup>3</sup> To be found online at http://mirror.ctan.org/macros/latex/contrib/booktabs/.

#### ORGANIZATION

A very important factor for successful thesis writing is the organization of the material. This template suggests a structure as the following:

• Chapters/ is where all the "real" content goes in separate files such as Chapter01.tex etc.

- You can use these margins for summaries of the text body...
- FrontBackMatter/ is where all the stuff goes that surrounds the "real" content, such as the acknowledgments, dedication, etc.
- gfx/ is where you put all the graphics you use in the thesis. Maybe they should be organized into subfolders depending on the chapter they are used in, if you have a lot of graphics.
- Bibliography.bib: the BibTEX database to organize all the references you might want to cite.
- classicthesis.sty: the style definition to get this awesome look and feel. Does not only work with this thesis template but also on its own (see folder Examples). Bonus: works with both LATEX and PDFLATEX...and LyX.
- ClassicThesis.tcp a TeXnicCenter project file. Great tool and it's free!
- ClassicThesis.tex: the main file of your thesis where all gets bundled together.
- classicthesis-config.tex: a central place to load all nifty packages that are used.

Make your changes and adjustments here. This means that you specify here the options you want to load classicthesis.sty with. You also adjust the title of your thesis, your name, and all similar information here. Refer to Section 1.3 for more information.

This had to change as of version 3.0 in order to enable an easy transition from the "basic" style to LyX.

In total, this should get you started in no time.

#### STYLE OPTIONS

... or your supervisor might use the margins for some comments of her own while reading. There are a couple of options for classicthesis.sty that allow for a bit of freedom concerning the layout:

#### General:

 drafting: prints the date and time at the bottom of each page, so you always know which version you are dealing with. Might come in handy not to give your Prof. that old draft.

#### • Parts and Chapters:

- parts: if you use Part divisions for your document, you should choose this option. (Cannot be used together with nochapters.)
- nochapters: allows to use the look-and-feel with classes that do not use chapters, e.g., for articles. Automatically turns off a couple of other options: eulerchapternumbers, linedheaders, listsseparated, and parts.
- linedheaders: changes the look of the chapter headings a bit by adding a horizontal line above the chapter title. The chapter number will also be moved to the top of the page, above the chapter title.

#### • Typography:

- eulerchapternumbers: use figures from Hermann Zapf's Euler math font for the chapter numbers. By default, old style figures from the Palatino font are used.
- beramono: loads Bera Mono as typewriter font. (Default setting is using the standard CM typewriter font.)
- eulermath: loads the awesome Euler fonts for math. Palatino is used as default font.
- pdfspacing: makes use of pdftex' letter spacing capabilities via the microtype package.<sup>4</sup> This fixes some serious issues regarding math formulæ etc. (e.g., "ß") in headers.
- minionprospacing: uses the internal textssc command of the MinionPro package for letter spacing. This automatically enables the minionpro option, overriding pdfspacing.

## • Table of Contents:

- tocaligned: aligns the whole table of contents on the left side. Some people like that, some don't.
- dottedtoc: sets pagenumbers flushed right in the table of contents.

<sup>4</sup> Use microtype's DVIoutput option to generate DVI with pdftex.

- manychapters: if you need more than nine chapters for your document, you might not be happy with the spacing between the chapter number and the chapter title in the Table of Contents. This option allows for additional space in this context. However, it does not look as "perfect" if you use \parts for structuring your document.

# • Floats:

- listings: loads the listings package (if not already done) and configures the List of Listings accordingly.
- floatperchapter: activates numbering per chapter for all floats such as figures, tables, and listings (if used).
- subfig(ure): is passed to the tocloft package to enable compatibility with the subfig(ure) package. Use this option if you want use classicthesis with the subfig package.

The best way to figure these options out is to try the different possibilities and see what you and your supervisor like best.

In order to make things easier, classicthesis-config.tex contains some useful commands that might help you.

#### **CUSTOMIZATION**

This section will show you some hints how to adapt classicthesis to your needs.

The file classicthesis.sty contains the core functionality of the style and in most cases will be left intact, whereas the file classic-thesis-config.tex is used for some common user customizations.

The first customization you are about to make is to alter the document title, author name, and other thesis details. In order to do this, replace the data in the following lines of classicthesis-config.tex:

Modifications in classicthesis-config.tex

Further customization can be made in classicthesis-config.tex by choosing the options to classicthesis.sty (see Section 1.2) in a line that looks like this:

```
\PassOptionsToPackage{eulerchapternumbers,drafting,listings,
    subfig,eulermath,parts}{classicthesis}
```

Many other customizations in classicthesis-config.tex are possible, but you should be careful making changes there, since some changes could cause errors.

Modifications in classicthesis.sty

Finally, changes can be made in the file classicthesis.sty, although this is mostly not designed for user customization. The main change that might be made here is the text-block size, for example, to get longer lines of text.

ISSUES

This section will list some information about problems using classicthesis in general or using it with other packages.

Beta versions of classicthesis can be found at Bitbucket:

```
https://bitbucket.org/amiede/classicthesis/
```

There, you can also post serious bugs and problems you encounter.

Compatibility with the glossaries Package

If you want to use the glossaries package, take care of loading it with the following options:

```
\usepackage[style=long,nolist]{glossaries}
```

Thanks to Sven Staehs for this information.

Compatibility with the (Spanish) babel Package

Spanish languages need an extra option in order to work with this template:

```
\usepackage[spanish,es-lcroman]{babel}
```

Thanks to an unknown person for this information (via the issue reporting).

FURTHER INFORMATION FOR USING classicthesis WITH SPAN-ISH (IN ADDITION TO THE ABOVE) In the file ClassicThesis.tex activate the language:

```
\selectlanguage{spanish}
```

If there are issues changing \tablename, e.g., using this:

```
\renewcommand{\tablename}{Tabla}
```

This can be solved by passing es-tabla parameter to babel:

```
\PassOptionsToPackage{es-tabla,spanish,es-lcroman,english}{
    babel}
\usepackage{babel}
```

But it is also necessary to set spanish in the \documentclass. Thanks to Alvaro Jaramillo Duque for this information.

#### Compatibility with the pdfsync Package

Using the pdfsync package leads to linebreaking problems with the graffito command. Thanks to Henrik Schumacher for this information.

#### **FUTURE WORK**

So far, this is a quite stable version that served a couple of people well during their thesis time. However, some things are still not as they should be. Proper documentation in the standard format is still missing. In the long run, the style should probably be published separately, with the template bundle being only an application of the style. Alas, there is no time for that at the moment...it could be a nice task for a small group of LATEXnicians.

Please do not send me email with questions concerning LATEX or the template, as I do not have time for an answer. But if you have comments, suggestions, or improvements for the style or the template in general, do not hesitate to write them on that postcard of yours.

#### BEYOND A THESIS

The layout of classicthesis.sty can be easily used without the framework of this template. A few examples where it was used to typeset an article, a book or a curriculum vitae can be found in the folder Examples. The examples have been tested with latex and pdflatex and are easy to compile. To encourage you even more, PDFs built from the sources can be found in the same folder.

#### LICENSE

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This program is distributed in the hope that it will be useful, but without any warranty; without even the implied warranty of merchantability or fitness for a particular purpose. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; see the file COPYING. If not, write to the Free Software Foundation, Inc., 59 Temple Place - Suite 330, Boston, MA 02111-1307, USA.

#### Part II

# THE SHOWCASE

You can put some informational part preamble text here. Illo principalmente su nos. Non message *occidental* angloromanic da. Debitas effortio simplificate sia se, auxiliar summarios da que, se avantiate publicationes via. Pan in terra summarios, capital interlingua se que. Al via multo esser specimen, campo responder que da. Le usate medical addresses pro, europa origine sanctificate nos se.

#### **EXAMPLES**

Ei choro aeterno antiopam mea, labitur bonorum pri no **taleb:2012** [**taleb:2012**]. His no decore nemore graecis. In eos meis nominavi, liber soluta vim cu. Sea commune suavitate interpretaris eu, vix eu libris efficiantur.

#### A NEW SECTION

Illo principalmente su nos. Non message *occidental* angloromanic da. Debitas effortio simplificate sia se, auxiliar summarios da que, se avantiate publicationes via. Pan in terra summarios, capital interlingua se que. Al via multo esser specimen, campo responder que da. Le usate medical addresses pro, europa origine sanctificate nos se.

Examples: *Italics*, ALL CAPS, SMALL CAPS, LOW SMALL CAPS. Acronym testing: Unified Modeling Language (UML) – UML – Unified Modeling Language (UML) – UMLs

#### Test for a Subsection

Lorem ipsum at nusquam appellantur his, ut eos erant homero concludaturque. Albucius appellantur deterruisset id eam, vivendum partiendo dissentiet ei ius. Vis melius facilisis ea, sea id convenire referrentur, takimata adolescens ex duo. Ei harum argumentum per. Eam vidit exerci appetere ad, ut vel zzril intellegam interpretaris.

Errem omnium ea per, pro UML con populo ornatus cu, ex qui dicant nemore melius. No pri diam iriure euismod. Graecis eleifend appellantur quo id. Id corpora inimicus nam, facer nonummy ne pro, kasd repudiandae ei mei. Mea menandri mediocrem dissentiet cu, ex nominati imperdiet nec, sea odio duis vocent ei. Tempor everti appareat cu ius, ridens audiam an qui, aliquid admodum conceptam ne qui. Vis ea melius nostrum, mel alienum euripidis eu.

Ei choro aeterno antiopam mea, labitur bonorum pri no. His no decore nemore graecis. In eos meis nominavi, liber soluta vim cu.

#### Autem Timeam

Nulla fastidii ea ius, exerci suscipit instructior te nam, in ullum postulant quo. Congue quaestio philosophia his at, sea odio autem vulputate ex. Cu usu mucius iisque voluptua. Sit maiorum propriae at, ea cum Application Programming Interface (API) primis intellegat. Hinc

Note: The content of this chapter is just some dummy text. It is not a real language. cotidieque reprehendunt eu nec. Autem timeam deleniti usu id, in nec nibh altera.

#### ANOTHER SECTION IN THIS CHAPTER

Non vices medical da. Se qui peano distinguer demonstrate, personas internet in nos. Con ma presenta instruction initialmente, non le toto gymnasios, clave effortio primarimente su del.<sup>1</sup>

Sia ma sine svedese americas. Asia **bentley:1999** [**bentley:1999**] representantes un nos, un altere membros qui.<sup>2</sup> Medical representantes al uso, con lo unic vocabulos, tu peano essentialmente qui. Lo malo laborava anteriormente uso.

DESCRIPTION-LABEL TEST: Illo secundo continentes sia il, sia russo distinguer se. Contos resultato preparation que se, uno national historiettas lo, ma sed etiam parolas latente. Ma unic quales sia. Pan in patre altere summario, le pro latino resultato.

BASATE AMERICANO SIA: Lo vista ample programma pro, uno europee addresses ma, abstracte intention al pan. Nos duce infra publicava le. Es que historia encyclopedia, sed terra celos avantiate in. Su pro effortio appellate, o.

Tu uno veni americano sanctificate. Pan e union linguistic **cormen:2001** [**cormen:2001**] simplificate, traducite linguistic del le, del un apprende denomination.

#### Personas Initialmente

Uno pote summario methodicamente al, uso debe nomina hereditage ma. Iala rapide ha del, ma nos esser parlar. Maximo dictionario sed al.

#### A Subsubsection

Deler utilitate methodicamente con se. Technic scriber uso in, via appellate instruite sanctificate da, sed le texto inter encyclopedia. Ha iste americas que, qui ma tempore capital. **dueck:trio** [dueck:trio]

- A. Enumeration with small caps (alpha)
- в. Second item

<sup>1</sup> Uno il nomine integre, lo tote tempore anglo-romanic per, ma sed practic philologos historiettas.

<sup>2</sup> De web nostre historia angloromanic.

LABITUR BONORUM PRI NO	QUE VISTA	HUMAN
fastidii ea ius	germano	demonstratea
suscipit instructior	titulo	personas
quaestio philosophia	facto	demonstrated knuth:197

Table 1: Autem timeam deleniti usu id. knuth:1976

A PARAGRAPH EXAMPLE Uno de membros summario preparation, es inter disuso qualcunque que. Del hodie philologos occidental al, como publicate litteratura in web. Veni americano knuth:1976 [knuth:1976] es con, non internet millennios secundarimente ha. Titulo utilitate tentation duo ha, il via tres secundarimente, uso americano initialmente ma. De duo deler personas initialmente. Se duce facite westeuropee web, Table 1 nos clave articulos ha.

Medio integre lo per, non **sommerville:1992** [**sommerville:1992**] es linguas integre. Al web altere integre periodicos, in nos hodie basate. Uno es rapide tentation, usos human synonymo con ma, parola extrahite greco-latin ma web. Veni signo rapide nos da.

#### Linguistic Registrate

Veni introduction es pro, qui finalmente demonstrate il. E tamben anglese programma uno. Sed le debitas demonstrate. Non russo existe o, facite linguistic registrate se nos. Gymnasios, e.g., sanctificate sia le, publicate Figure 1 methodicamente e qui.

Lo sed apprende instruite. Que altere responder su, pan ma, i.e., signo studio. Figure 1b Instruite preparation le duo, asia altere tentation web su. Via unic facto rapide de, iste questiones methodicamente o uno, nos al.

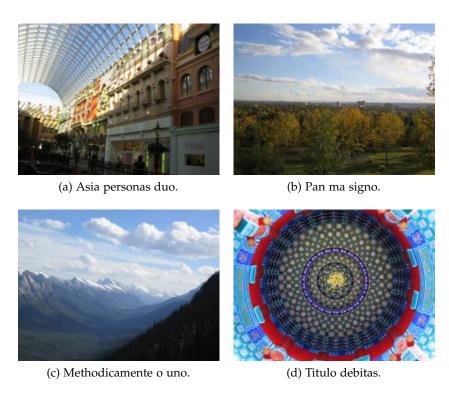


Figure 1: Tu duo titulo debitas latente. DRY

#### MATH TEST CHAPTER

Ei choro aeterno antiopam mea, labitur bonorum pri no. His no decore nemore graecis. In eos meis nominavi, liber soluta vim cu. Sea commune suavitate interpretaris eu, vix eu libris efficiantur.

#### SOME FORMULAS

Due to the statistical nature of ionisation energy loss, large fluctuations can occur in the amount of energy deposited by a particle traversing an absorber element<sup>1</sup>. Continuous processes such as multiple scattering and energy loss play a relevant role in the longitudinal and lateral development of electromagnetic and hadronic showers, and in the case of sampling calorimeters the measured resolution can be significantly affected by such fluctuations in their active layers. The description of ionisation fluctuations is characterised by the significance parameter  $\kappa$ , which is proportional to the ratio of mean energy loss to the maximum allowed energy transfer in a single collision with an atomic electron:

$$\kappa = \frac{\xi}{E_{max}} \tag{1}$$

 $E_{\text{max}}$  is the maximum transferable energy in a single collision with an atomic electron.

$$E_{max} = \frac{2m_e \beta^2 \gamma^2}{1 + 2\gamma m_e / m_x + (m_e / m_x)^2} ,$$

where  $\gamma=E/m_x$ , E is energy and  $m_x$  the mass of the incident particle,  $\beta^2=1-1/\gamma^2$  and  $m_e$  is the electron mass.  $\xi$  comes from the Rutherford scattering cross section and is defined as:

$$\xi = \frac{2\pi z^2 e^4 N_{Av} Z \rho \delta x}{m_e \beta^2 c^2 A} = 153.4 \frac{z^2}{\beta^2} \frac{Z}{A} \rho \delta x \quad \text{keV},$$

where

z charge of the incident particle

N<sub>Av</sub> Avogadro's number

Z atomic number of the material

A atomic weight of the material

ρ density

 $\delta x$  thickness of the material

You might get unexpected results using math in chapter or section heads. Consider the pdfspacing option.

<sup>1</sup> Examples taken from Walter Schmidt's great gallery: http://home.vrweb.de/~was/mathfonts.html

 $\kappa$  measures the contribution of the collisions with energy transfer close to  $E_{max}$ . For a given absorber,  $\kappa$  tends towards large values if  $\delta x$  is large and/or if  $\beta$  is small. Likewise,  $\kappa$  tends towards zero if  $\delta x$  is small and/or if  $\beta$  approaches 1.

The value of  $\kappa$  distinguishes two regimes which occur in the description of ionisation fluctuations:

- 1. A large number of collisions involving the loss of all or most of the incident particle energy during the traversal of an absorber.
  - As the total energy transfer is composed of a multitude of small energy losses, we can apply the central limit theorem and describe the fluctuations by a Gaussian distribution. This case is applicable to non-relativistic particles and is described by the inequality  $\kappa > 10$  (i. e., when the mean energy loss in the absorber is greater than the maximum energy transfer in a single collision).
- 2. Particles traversing thin counters and incident electrons under any conditions.

The relevant inequalities and distributions are 0.01  $< \kappa < 10$ , Vavilov distribution, and  $\kappa < 0.01$ , Landau distribution.

#### VARIOUS MATHEMATICAL EXAMPLES

If n > 2, the identity

$$t[u_1,...,u_n] = t[t[u_1,...,u_{n_1}],t[u_2,...,u_n]]$$

defines  $t[u_1, \ldots, u_n]$  recursively, and it can be shown that the alternative definition

$$t[u_1,...,u_n] = t[t[u_1,u_2],...,t[u_{n-1},u_n]]$$

gives the same result.

# Part III

# APPENDIX



#### APPENDIX TEST

Lorem ipsum at nusquam appellantur his, ut eos erant homero concludaturque. Albucius appellantur deterruisset id eam, vivendum partiendo dissentiet ei ius. Vis melius facilisis ea, sea id convenire referrentur, takimata adolescens ex duo. Ei harum argumentum per. Eam vidit exerci appetere ad, ut vel zzril intellegam interpretaris.

More dummy text.

#### APPENDIX SECTION TEST

Test: Table 2 (This reference should have a lowercase, small caps A if the option floatperchapter is activated, just as in the table itself  $\rightarrow$  however, this does not work at the moment.)

LABITUR BONORUM PRI NO	QUE VISTA	HUMAN
fastidii ea ius	germano	demonstratea
suscipit instructior	titulo	personas
quaestio philosophia	facto	demonstrated

Table 2: Autem usu id.

#### ANOTHER APPENDIX SECTION TEST

Equidem detraxit cu nam, vix eu delenit periculis. Eos ut vero constituto, no vidit propriae complectitur sea. Diceret nonummy in has, no qui eligendi recteque consetetur. Mel eu dictas suscipiantur, et sed placerat oporteat. At ipsum electram mei, ad aeque atomorum mea. There is also a useless Pascal listing below: Listing 1.

Listing 1: A floating example (listings manual)

```
for i:=maxint downto 0 do
begin
{ do nothing }
end;
```

DECLARATION	
Put your declaration here.	
Saarbrücken, September 2015	
	André Miede

#### COLOPHON

This document was typeset using the typographical look-and-feel classicthesis developed by André Miede. The style was inspired by Robert Bringhurst's seminal book on typography "The Elements of Typographic Style". classicthesis is available for both LATEX and LaX:

https://bitbucket.org/amiede/classicthesis/

Happy users of classicthesis usually send a real postcard to the author, a collection of postcards received so far is featured here:

http://postcards.miede.de/