The Clean Thesis Style

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Documentation

The Clean Thesis Style

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Abstract

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Abstract (different language)

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Introduction

You can't do better design with a computer, but you can speed up your work enormously.

— Wim Crouwel (Graphic designer and typographer)

And after the second paragraph follows the third paragraph. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language. Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift - not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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1.1 Postcards: My Address

Ricardo Langner Alfred-Schrapel-Str. 7 01307 Dresden Germany

1.2 Motivation and Problem Statement

Hello, here is some text without a meaning. This text should show what a printed text will look like at this place. If you read this text, you will get no information. Really? Is there no information? Is there a difference between this text and some nonsense like "Huardest gefburn"? Kjift – not at all! A blind text like this gives you information about the selected font, how the letters are written and an impression of the look. This text should contain all letters of the alphabet and it should be written in of the original language. There is no need for special content, but the length of words should match the language.

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[Jür00; Jür95; Mie11a; KJUM11; App10a; App10b; App10c]

1.3 Results

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1.3.1 Some References

[@Fre10; @Mie11b]

1.4 Thesis Structure

Chapter ??

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Chapter 2

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Conclusion

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2.1 System Section 1

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2.2 System Section 2

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2.3 Future Work

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Bibliography

- [AB13] Ferdinando M Ametrano and Marco Bianchetti. "Everything you always wanted to know about multiple interest rate curve bootstrapping but were afraid to ask". In: *Available at SSRN 2219548* (2013).
- [And07] Leif Andersen. "Discount curve construction with tension splines". In: *Review of Derivatives Research* 10.3 (2007), pp. 227–267.
- [AP10] Leif BG Andersen and Vladimir V Piterbarg. *Interest rate modeling*. Atlantic Financial Press, 2010.
- [BC99] Tomas Björk and Bent Jesper Christensen. "Interest rate dynamics and consistent forward rate curves". In: *Mathematical Finance* 9 (1999), pp. 323–348.
- [Bli97] Robert R Bliss. "Testing Term Structure Estimation Methods". In: *Advances in Futures and Options Research* 9 (1997), pp. 197–231.
- [CC10] CFOForum and CROForum. "QIS 5 Technical Specification Risk-free interest rates". In: (2010).
- [Chr+11] Jens HE Christensen, Francis X Diebold, and Glenn D Rudebusch. "The affine arbitrage-free class of Nelson–Siegel term structure models". In: *Journal of Econometrics* 164.1 (2011), pp. 4–20.
- [DL06] Francis X Diebold and Canlin Li. "Forecasting the term structure of government bond yields". In: *Journal of econometrics* 130.2 (2006), pp. 337–364.
- [EIO15] EIOPA. "Technical documentation of the methodology to derive EIOPA's risk- free interest rate term structures". In: https://eiopa.europa.eu/Publications (2015).
- [HK08] Robin Hyndman and Yeasmin Khandakar. "Automatic time series forecasting: The forecast Package for R". In: *Journal of Statistical Software* 27.3 (2008), pp. 1–22.
- [HP81] J Michael Harrison and Stanley R Pliska. "Martingales and stochastic integrals in the theory of continuous trading". In: *Stochastic processes and their applications* 11.3 (1981), pp. 215–260.
- [HU07] Rob J Hyndman and Md Shahid Ullah. "Robust forecasting of mortality and fertility rates: a functional data approach". In: *Computational Statistics & Data Analysis* 51.10 (2007), pp. 4942–4956.
- [HW06] Patrick S Hagan and Graeme West. "Interpolation methods for curve construction". In: *Applied Mathematical Finance* 13.2 (2006), pp. 89–129.

- [HW12] John Hull and Alan White. "The FVA debate". In: *Risk magazine* 25.8 (2012), pp. 83–85.
- [HW90] J. Hull and A. White. "Pricing interest-rate derivative securities". In: *The Review of Financial Studies* 3.4 (1990), pp. 573–592.
- [Jür00] Manuela Jürgens. *LaTeX*: eine Einführung und ein bisschen mehr. FernUniversität Gesamthochschule in Hagen, 2000 (cit. on p. 3).
- [Jür95] Manuela Jürgens. *LaTeX: Fortgeschrittene Anwendungen*. FernUniversität Gesamthochschule in Hagen, 1995 (cit. on p. 3).
- [KJUM11] Markus Kohm and Jens-Uwe-Morawski. *KOMA-Script: Die Anleitung*. 2011 (cit. on p. 3).
- [Lit+91] Robert B Litterman, José Scheinkman, and Laurence Weiss. "Volatility and the yield curve". In: *The Journal of Fixed Income* 1.1 (1991), pp. 49–53.
- [Mie11a] André Miede. A Classic Thesis Style: An Homage to The Elements of Typographic Style. 2011 (cit. on p. 3).
- [NS87] Charles R Nelson and Andrew F Siegel. "Parsimonious modeling of yield curves". In: *Journal of business* (1987), pp. 473–489.
- [RD91] James O Ramsay and CJ Dalzell. "Some tools for functional data analysis". In: *Journal of the Royal Statistical Society. Series B (Methodological)* (1991), pp. 539–572.
- [RS05] JO Ramsay and BW Silverman. "Springer Series in Statistics". In: *Functional data analysis*. Springer, 2005.
- [Sve94] Lars EO Svensson. *Estimating and interpreting forward interest rates: Sweden* 1992-1994. Tech. rep. National Bureau of Economic Research, 1994.
- [SW01] A Smith and T Wilson. "Fitting yield curves with long term constraints". In: *London: Bacon and Woodrow* (2001).
- [Whi12] Richard White. "Multiple Curve Construction". In: *Quantitative research, OpenGamma* (2012).
- [App10a] Apple Inc. Keynote '09 User Guide. Apple Inc., 2010 (cit. on p. 3).
- [App10b] Apple Inc. Numbers '09 User Guide. Apple Inc., 2010 (cit. on p. 3).
- [App10c] Apple Inc. Pages '09 User Guide. Apple Inc., 2010 (cit. on p. 3).

Webseiten

- [@Mie11b] André Miede. A Classic Thesis Style by André Miede. 2011. URL: http://www.miede.de/index.php?page=classicthesis (visited on May 27, 2011) (cit. on p. 3).
- [@Fre10] Free Software Foundation, Inc. GNU General Public License. 2010. URL: http://www.gnu.org/licenses/gpl.html (visited on May 27, 2011) (cit. on p. 3).

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Declaration

You can put your declaration here, to declare that you have completed your wor solely and only with the help of the references you mentioned.
City, August 26, 2015

Ricardo Langner