Introduction to LATEX: Week 1: Installation

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Abstract

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The first meeting of the workshop series is focused on getting you up and running with LaTeX. We will help you install a LaTeX compiler and the TeX Maker editor on Linux, Mac, or Windows and practice compiling example documents. Several templates will be provided so that you can begin experimenting immediately. Please bring your laptop.



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· Designed for mathematical content

Theorem (D. (2014) [1])

The number of distinct Lucas tilings of a $1 \times n$ bracelet up to symmetry is:

$$\sum_{i=0}^{\lceil \frac{n-1}{2} \rceil} \left[\frac{1}{n-i} \sum_{d \mid (i,n-i)} \varphi(d) \binom{\frac{n-i}{d}}{\frac{i}{d}} \right]. \tag{1}$$

[1] D. DEFORD: *Enumerating Distinct Chessboard Tilings*, Fibonacci Quarterly, 52(5), 102-116, (2014).



• Designed for mathematical content



- Designed for mathematical content
- High typographical quality



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- Programability



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- Programability
- Open source/stability/portability



- Designed for mathematical content
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- Ease of collaboration



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- Ease of collaboration
- Separation of structural elements from content



Homework Assignments



- Homework Assignments
- Exams



- Homework Assignments
- Exams
- Homework Solutions



- Homework Assignments
- Exams
- Homework Solutions
- Lecture Notes



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- Slideshows



Animations





Figure: Donald Knuth ¹

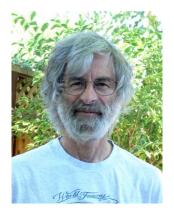


Figure: Leslie Lamport ¹



Figures generated by http://www.wordclouds.com/



(b) Guides

URLs for downloads

Compilers

- MacTEX: http://tug.org/mactex
- MikTEX: http://miktek.org

Editors

- TEXMaker: http://xm1math.net/texmaker/
- TEXWorks: http://www.tug.org/texworks/
- LyX: http://www.lyx.org/



See you next week!

Thanks!

