LuaBill: LuaLaTeX check

Sichtprüfung / Visual checks

This document loads all LaTeX packages used by LuaBill and tests all five document languages. Compile twice with **LuaLaTeX**.

1. Languages and text fonts

Language	Sample text
EN	Invoice, quotation and purchase order.
DE	Rechnung, Angebot, Größe, Prüfung, Straße.
FR	Facture, devis, société, échéance, Noël.
IT	Fattura, offerta, quantità, società, più.
RU	Счёт, предложение, заказ, проверка, ёж.

Bold / Полужирный; *italic / курсив*; `monospace` / Кириллица 123.

Standard underline; Soul underline; “Quotation marks from csquotes”.

2. Currency, contact icons and links

EUR € USD $ RUB ₽ CNY ¥ GBP £ CHF 1 234.56

✔ VAT	Check icon / Prüfsymbol
E-mail	example@example.com
Phone	+49 30 1234567
Mobile	+49 170 1234567
Fax	+49 30 7654321
Website	luabill.com

3. Formulas and colored invoice table

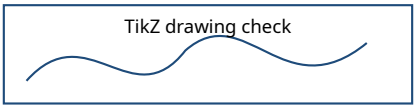
$$u(t) = K_p e(t) + K_i \int_0^t e(\tau)\,d\tau + K_d \frac{de(t)}{dt}, \qquad \sum_{k=1}^{n} k = \frac{n(n+1)}{2}, \qquad \sqrt{\alpha^2 + \beta^2}.$$

Description	Qty	EUR
Analog PID controller development	1	1 250.00
Digital PI controller development	1	850.00
Example net total		**2 100.00**

4. Lua execution, images and TikZ

Lua calculation: $100 + 19 = 119$.

Embedded PNG:  Image transform OK



Setup and diagnostic details

Einrichtung und Diagnose

Text font: **Noto Sans**. Monospace font: **Noto Sans Mono**.

Packages loaded by this check

The package order and options follow the current LuaBill template. Their own dependencies are loaded by the TeX distribution automatically.

Package	Purpose / Zweck
`xcolor [table]`	Colors and colored table rows/cells; loaded before TikZ.
`fontspec`	Unicode text fonts, Cyrillic and currency symbols.
`amsmath`	Fractions, sums, integrals and standard math fonts.
`fontawesome`	Font Awesome 4: VAT, e-mail, telephone, fax and web icons.
`babel`	Imported language data for EN, DE, FR, IT and RU.
`csquotes`	Language-aware quotation support.
`textcomp`	Additional text symbols.
`geometry`	A4 paper and page margins.
`tikz`	PGF graphics; also loads image support.
`fancyhdr`	Page headers and footers.
`enumitem`	Contact list layout.
`hyperref [pdfa]`	Clickable e-mail, telephone and website links.
`soul`	Underlining.
`lastpage`	Total page count; requires a second compilation.
`textpos [absolute,overlay]`	Absolute positioning.
`luacode`	Embedded Lua execution and the generated image fixture.
`ltablex`	Flexible-width tables and long-table support.
`draftwatermark`	The light TEST watermark.
`eso-pic`	Page overlays and the small left-hand mark.

MiKTeX: automatic package installation

MiKTeX Console > Settings > General: enable **Always install missing packages on-the-fly**, or allow each installation prompt. A working repository and Internet connection are required. Then compile this file twice with LuaLaTeX and retry the document in LuaBill.

Fonts and scope of the result

The text font selection matches LuaBill: Noto Sans, then DejaVu Sans, then Arial. Monospace: Noto Sans Mono, DejaVu Sans Mono, then Courier New. Missing system fonts need a separate installation; checking a font name does not download it. This test checks LaTeX rendering. It does not check Java, Ghostscript, XML validation or ZUGFeRD packaging.

If compilation fails / Bei einem Fehler

Send the complete `LuaBill_LaTeX_check.log` and the first error from the editor's output. Package versions are listed near the end of a successful log. Check that the page counter reads **2/2** after the second compilation.

✔ LaTeX checks reached the final page.

Look for the final success marker in the log and an error-free exit.