

## Introductory

- 263 *Michael Barr* / How TeX changed my life
- math writing, typing, and typesetting
- 260 *Barbara Beeton* / Editorial comments
- typography and TUGboat news
- 265 *Peter Flynn* / Typographers' Inn
- To print or not to print; Centering (again); New device driver for old format; What's in a name
- 360 *Peter Flynn* / Historical review of TeX3
- a 1991 review of TeX, written for those experienced in other typesetting systems
- 259 *Boris Veytsman* / From the president
- the paradox of early adoption; moving free software forward

## Intermediate

- 368 *Karl Berry* / The treasure chest
- new CTAN packages, August–October 2020
- 269 *Lorrie Frear* / Eye charts in focus: The magic of optotypes
- history and design of the optotypes used on eye charts
- 286 *L<sup>A</sup>T<sub>E</sub>X Project Team* / L<sup>A</sup>T<sub>E</sub>X news, issue 32, October 2020
- `xparse` in the format; hook management system; changes in `graphics`, `tools`, `amsmath`, `babel`
- 281 *Matthew Leingang* / Using DocStrip for multiple document variants
- step-by-step example of homework assignments with questions, solutions, and more
- 275 *Kamal Mansour* / The Non-Latin scripts & typography
- examples of the wide range of typesetting and font requirements beyond Latin
- 327 *Luigi Scarso* / Short report on the state of LuaTeX, 2020
- development status and comparison of LuaTeX and its relatives: LuaHBTeX, LuaJITTeX and LuaJITHBTeX
- 324 *Peter Wilson* / Data display, plots and graphs
- simple example of using tables, scatter plots, line graphs, histograms

## Intermediate Plus

- 341 *Island of TeX* / TeXdoc online — a web interface for serving TeX documentation
- HTTP API for `texdoc` and CTAN topics
- 292 *Frank Mittelbach, Chris Rowley* / L<sup>A</sup>T<sub>E</sub>X Tagged PDF — A blueprint for a large project
- background and task summary of an extended feasibility study on the L<sup>A</sup>T<sub>E</sub>X web site
- 318 *Vít Novotný* / Making Markdown into a microwave meal
- freezing Markdown, Minted, and BIBL<sup>A</sup>T<sub>E</sub>X output for single-run processing
- 308 *Nicola Talbot* / `bib2gls`: selection, cross-references and locations
- selecting, grouping, referencing glossary items with L<sup>A</sup>T<sub>E</sub>X's index facilities
- 348 *Petr Olšák* / OpTeX — A new generation of Plain TeX
- modern LuaTeX format with full Unicode support
- 343 *Michal Vlasák* / MMTeX: Creating a minimal and modern TeX distribution for GNU/Linux
- a small TeX distribution with LuaTeX and OpTeX that integrates easily on modern systems

## Advanced

- 299 *Enrico Gregorio* / Functions and `expl3`
- an introduction to L<sup>A</sup>T<sub>E</sub>X3 programming with functions and variables
- 335 *Hans Hagen* / Keyword scanning
- peculiarities of parsing keywords, catcodes, and performance
- 337 *Hans Hagen* / Representation of macro parameters
- considers making unused arguments more efficient and tracing output more consistent
- 320 *Hans Hagen* / User-defined Type 3 fonts in LuaTeX
- constructing a font on the fly that can reference images, other fonts, graphics
- 329 *Hironori Kitagawa* / Distinguishing 8-bit characters and Japanese characters in (u)pTeX
- analysis and solutions for differing interpretations of byte sequences
- 346 *Igor Liferenko* / UTF-8 installations of TeX
- changing TeX's encoding to support reading/writing Unicode

## Reports and notices

- 258 Institutional members
- 355 *Charles Bigelow* / Book reviews: *Robert Granjon, letter-cutter*, and *Granjon's Flowers*, by Hendrik D.L. Vervliet
- detailed review of these two books from Oak Knoll Press on 17th century type designer Robert Granjon
- 358 *Boris Veytsman* / Book review: *Glisterings*, by Peter Wilson
- review of this volume of collected columns from TUGboat, published by TUG
- 369 *TUG Elections committee* / TUG 2021 election
- 370 TeX consulting and production services
- 372 Calendar