

TUG 2021 — Online — August 5–8, 2021

The forty-second annual TUG conference
<https://tug.org/2021> ■ tug2021@tug.org

Conference committee

Jennifer Claudio
 Rohit Goswami
 Steve Grathwohl
 Jim Hefferon
 Tom Hejda
 Jérémy Just
 Robin Laakso
 Ross Moore
 Norbert Preining
 Will Robertson
 Arthur Rosendahl, co-principal organizer
 Paulo Ney de Souza, co-principal organizer
 Boris Veytsman
 Alan Wetmore

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TUG 2021 program

(All times and days listed are UTC.)

Thursday August 5	16:00 Cheryl Ponchin, IDA/CCR-P; Sue DeMeritt, IDA/CCR-La Jolla 18:00 Emílio Kavamura, Univ. Federal do Paraná 20:00 Alexánder Borbón Alpízar, El Tecnológico de Costa Rico <i>(continued)</i>	<i>Workshop: Introduction to L^AT_EX</i> <i>Workshop: Graphics with PGFPlots—in Portuguese</i> <i>Workshop: Introduction to L^AT_EX—in Spanish</i>
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TUG 2021 program (continued)

Friday August 6	16:00	Simon Porter, Digital Science	<i>Data-driven documents using Jupyter Notebooks and Overleaf</i>
	16:45	Amelia Hugill-Fontanel, Cary Graphic Arts Collection	<i>Cary Graphic Arts Collection Pressroom tour</i>
	17:45	Paulo Ney de Souza, BooksInBytes	<i>Producing a book for Amazon KDP</i>
	20:30	David Crossland, Google	<i>Variable fonts</i>
	21:15	Matheus Rocha	<i>How to make a logo/symbol for a font</i>
	22:00	Oliver Austin, San Jose, CA	<i>Plane and simple: Exploration of machine interaction with text type for visual based navigation systems</i>
	23:30	Vafa Khalighi	<i>Persian typesetting in T_EX: Past, present, and future</i>
Saturday August 7	00:15	Norbert Preining, Fujitsu Research	<i>Interview, conducted by Paulo Ney de Souza</i>
	06:15	Aravind Rajendran, Rishi T, Apu V, Rahul Krishnan S, STM Document Engineering	<i>How a L^AT_EX-based company lived through a modern day pandemic</i>
	07:00	Martin Ruckert, Hochschule München	<i>The WEB to CWEB conversion of T_EX</i>
	07:45	Vít Novotný, Masaryk Univ.	<i>Markdown 2.10.0: L^AT_EX themes & snippets, two flavors of comments, and LuaMetaT_EX</i>
	08:30	Rohit Goswami, Univ. of Iceland	<i>Continuous integration and T_EX with Org-Mode</i>
	10:00	Andreas Papasalouros, Antonis Tsolomitis, Univ. of the Aegean	<i>latex2nemeth: A direct L^AT_EX-to-Braille transcribing tool</i>
	10:45	Ulrike Fischer, L ^A T _E X Project	<i>On the road to tagged PDF: about StructElem, Marked Content, PDF/A and squeezed B_ärs</i>
	11:30	Frank Mittelbach, L ^A T _E X Project	<i>Taming the beast — Advances in paragraph tagging with pdfT_EX and X_ƎT_EX</i>
	12:15	Jonathan Fine, Retired, Open Univ., UK	<i>Code and math in the dark</i>
	14:00	Paulo Cereda, Island of T _E X	<i>2020: A year in review, living on an island</i>
	14:45	Joseph Wright, L ^A T _E X Project	<i>Any colo(u)r you like</i>
	15:30	samcarter	<i>News from the TikZ zoo: A short introduction to the TikZlings package</i>
	16:00	Marcel Krüger, L ^A T _E X Project & Univ. of Hamburg	<i>Reviving Type 3 fonts for modern LuaL^AT_EX documents</i>
	16:45	Frank Mittelbach, L ^A T _E X Project	<i>Interview, conducted by Paulo Ney de Souza</i>
	18:30		<i>TUG Annual General Meeting</i>
	19:30	Keiran Harcombe, Open Univ.; Boris Veytsman, George Mason U.	<i>Creating a VPAT statement for T_EX Live</i>
	20:15	Alexei Kolesnikov, Towson Univ.; Al Maneki; Michael Cantino; Rob Beezer, Univ. of Puget Sound; Volker Sorge	<i>Tactile mathematics: Enabling sighted and blind people to share mathematical experience</i>
	21:00	Michael Nolan, Todd Pagano, Sahas Chikkanaravangala Vijayakumar, Rahul Jaiswal, Rochester Inst. of Tech.	<i>Publishing for all: Using L^AT_EX to help improve the accessibility of an open-access journal</i>
	23:00	Ross Moore, Macquarie Univ., Tom Price, Univ. of Akron	<i>Accessible research reports; case study, including acronyms and glossaries</i>
23:45	Jennifer Claudio, San Jose, CA	<i>Word search puzzles in Arabic, Cyrillic, and English using babel's multilingual support for L^AT_EX</i>	

TUG 2021 program (continued)

Sunday	00:30	Antoine Bossard, Kanagawa Univ.	<i>On typesetting an English–Japanese book</i>
August 8	01:15	Vafa Khalighi	<i>Bidirectional typesetting in T_EX: Past, present, and future</i>
	07:00	Mathias Magdowski, Otto von Guericke Univ.	<i>How to generate personalized tasks and sample solutions for anonymous peer review in electrical engineering using L^AT_EX, PGFPlots and CircuiTikZ</i>
	07:45	Vic van Dijk, Set your Text	<i>R and L^AT_EX: Typesetting graphs in a reproducible way</i>
	08:30	Jonathan Fine, Retired, Open Univ., UK	<i>Towards 21st century digital typography</i>
	09:15	Ondřej Sojka, Petr Sojka, Masaryk Univ.	<i>Czechoslovak hyphenation patterns, word lists, and workflow — Why hyphenate Czecho-Slovak simply syllabically?</i>
	11:00	Jean-Michel Hufflen, FEMTO-ST & U. Bourgogne Franche-Comté	<i>Programming bibliographies</i>
	11:45	Nicola Talbot, Dickimaw Books	<i>bib2gls: symbols</i>
	12:30	Heinrich Stamerjohanns, Texmlbus	<i>Texmlbus, a build system to convert documents to XML and other formats</i>
	13:15	Michal Hoftich, Charles Univ.	<i>L^AT_EX to HTML conversion with T_EX4ht</i>
	15:00	Andy Black, Hugh Paterson, SIL International	<i>XLingPaper’s use of T_EX technologies</i>
	15:45	Nicolás Vaughan, U. de los Andes	<i>TEI-XML to L^AT_EX workflow: Issues and lessons</i>
	17:15	John Hammersley, Overleaf	<i>Interview, conducted by Paulo Ney de Souza</i>
	≈ 18:15	<i>end</i>	

TUG 2021 conference report

Arthur Rosendahl and Jennifer Claudio

As with TUG 2020, TUG 2021 was conducted entirely online, due to the continuing global pandemic. The conference spanned a total of four days, of which one had three workshops and the remainder of the days provided the presentation of talks on a 24-hour rotating schedule. This year, there were over 400 attendees from eighteen timezones (approximate map of attendee locations on p. 216). Speakers ranged in age from at least one high school student to long-time users of T_EX in industry.

Like last year, the presentations were scheduled during reasonable waking hours for the speakers, wherever in the world they were, and we tried to group them into consistent sessions. A majority of the talks were given by speakers based in Europe, about a third in the Americas, and a few were in the Asia-Pacific region. This presented some challenges, which we tackled the best we could.

Reflecting the growing interest and activity in accessibility, two sessions were dedicated entirely to producing tagged PDF and mathematical documents for the visually impaired. One particularly interesting entry featured testimonies by blind speakers, one of them a long-term L^AT_EX user. Some of the talks showed a lively interest in T_EX from developers not primarily focussed on it.

XML was the topic of two half-sessions (originally a single one that suffered from some time zone changes). Here again, we were treated to a healthy and enjoyable mix of talks by speakers from both within and outside our community, who all used T_EX-based processes for typesetting XML documents, sometimes as part of a larger workflow.

Workflows of different kinds and scopes were featured in a number of talks, with applications ranging from version control integration, via automated production of student assignments, to large-scale document processing for scientific publishing.

We had several talks about multilingual typesetting, unsurprisingly given the international make-up, and two talks about bibliographies.

A T_EX conference wouldn’t be complete without some talks about fonts, and although there were somewhat fewer of them this year, they were not missing: there was one talk about variable fonts, a second about applications to air travel, and a workshop about making a logo.

To help encourage the function of the conference as a means of idea exchange, the communication and media platforms of Zulip and Topia were offered.

Videos of individual talks will be posted on the TUG YouTube channel when they are available: youtube.com/c/texusersgroup.

◇ Arthur Rosendahl and Jennifer Claudio
<https://tug.org/tug2021>