# TUGBOAT

The Communications of the TeX Users Group



Volume 18, Number 3, September 1997 1997 Annual Meeting Proceedings

#### 1997 Annual Meeting Proceedings

TEX Users Group Eighteenth Annual Meeting San Francisco, California, July 27–August 1, 1997

## TUGBOAT

COMMUNICATIONS OF THE TEX USERS GROUP

TUGBOAT EDITOR BARBARA BEETON
PROCEEDINGS EDITOR ARTHUR OGAWA

Volume 18, Number 3

PORTLAND

Oregon

September 1997

U.S.A.

### $\mathbf{TUG}_{\mathbf{BOAT}}$

Volume 18, Number 3 / September 1997 1997 Annual Meeting Proceedings

TUG <b>'98</b>	146	Call for Papers
Opening Address	147 149	Mimi Jett / Opening Words by the President TUG'97 program
Pictures and TEX		Kristoffer Høgsbro Rose / Very high level 2-dimensional graphics with TEX and Xy-pic
	159	Ross Moore / High quality labels on included graphics, using Xy-pic
T <sub>E</sub> X and Scientific Publishing on the Internet	166 170	Sergey Lesenko / DVIPDF and Graphics Christopher B. Hamlin / From SGML to HTML with help from TEX
Publishing and TEX	$175 \\ 182$	Douglas Lovell / Custom legal documents for the IBM AutoLoan Exchange Michael Downes / Breaking equations
IATEX — state of the art	195	Frank Mittelbach and Chris Rowley / The LATEX3 $Project$
Multilingual Typography Without Boundaries	199 206 214	Frank Mittelbach and Chris Rowley / Language information in structured documents: a model for mark-up and rendering  Werner Lemberg / New font tools for TEX  Werner Lemberg / The CJK package: multilingual support beyond Babel
${\bf News~\&}\\ {\bf Announcements}$	225 148 226	Calendar Mimi Burbank / Production notes TUG'97 list of attendees
TUG Business	$\begin{array}{c} 229 \\ 230 \end{array}$	Institutional members TUG membership form
${f Advertise ments}$	231 232 c3	TEX consulting and production services Y&Y Inc. Blue Sky Research

#### TEX Users Group

#### Memberships and Subscriptions

TUGboat (ISSN 0896-3207) is published quarterly by the T<sub>E</sub>X Users Group, 1466 NW Front Avenue, Suite 3141, Portland, OR 97209-2820, U.S.A.

1998 dues for individual members are as follows:

- Ordinary members: \$60; \$55 if payment received before March 15, 1996.
- Students: \$40; \$35 if payment received before March 15, 1998.

Membership in the TEX Users Group is for the calendar year, and includes all issues of TUGboat for the year in which membership begins or is renewed. Individual membership is open only to named individuals, and carries with it such rights and responsibilities as voting in TUG elections. A membership form is provided on page 230.

TUGboat subscriptions are available to organizations and others wishing to receive TUGboat in a name other than that of an individual. Subscription rates: \$70 a year, including air mail delivery.

Periodical-class postage paid at Portland, OR, and additional mailing offices. Postmaster: Send address changes to TUGboat, TEX Users Group, 1466 NW Front Avenue, Suite 3141, Portland, OR 97209-2820, U.S.A..

#### Institutional Membership

Institutional Membership is a means of showing continuing interest in and support for both TEX and the TEX Users Group. For further information, contact the TUG office.

TUGboat © Copyright 1997, TEX Users Group

Permission is granted to make and distribute verbatim copies of this publication or of individual items from this publication provided the copyright notice and this permission notice are preserved on all copies.

Permission is granted to copy and distribute modified versions of this publication or of individual items from this publication under the conditions for verbatim copying, provided that the entire resulting derived work is distributed under the terms of a permission notice identical to this one.

Permission is granted to copy and distribute translations of this publication or of individual items from this publication into another language, under the above conditions for modified versions, except that this permission notice may be included in translations approved by the TEX Users Group instead of in the original English.

Some individual authors may wish to retain traditional copyright rights to their own articles. Such articles can be identified by the presence of a copyright notice thereon.

Printed in U.S.A.

#### **Board of Directors**

Donald Knuth, Grand Wizard of TeX-arcana<sup>†</sup> Mimi Jett, President\*+ Kristoffer Rose\*+, Vice President Don DeLand\*+, Treasurer Arthur Ogawa\*+, Secretary Barbara Beeton Karl Berry Donna Burnette Kaja Christiansen  $Judv Johnson^+$ Patricia Monohon Cameron Smith, Volunteer Coordinator Petr Sojka Jíři Zlatuška Raymond Goucher, Founding Executive Director<sup>†</sup> Hermann Zapf, Wizard of Fonts<sup>†</sup>

 $^*\,member\,\,of\,\,executive\,\,co\,mmittee$ 

#### TUGboat Production Team

Barbara Beeton Mimi Burbank, Manager Robin Fairbairns Michel Goossens Sebastian Rahtz Christina Thiele

#### Addresses

All correspondence,
payments, parcels,
etc.

T<sub>E</sub>X Users Group 1466 NW Front Avenue Suite 3141

Portland, OR 97209-2820 USA

Telephone

 $+1\ 503\ 223-9994$ 

Fax

 $+1\ 503\ 223 - 3960$ 

#### Electronic Mail

(Internet)
General correspondence:
TUG@mail.tug.org
Submissions to TUGboat:

TUGboat@mail.tug.org

#### World Wide Web

http://www.tug.org/

http://www.tug.org/TUGboat/

TEX is a trademark of the American Mathematical Society.

 $<sup>^+\,</sup>member\,\,of\,\,business\,\,committee$ 

 $<sup>^{\</sup>dagger}$  honorary