1 Introduction

A new version of \LaTeX2HTML (version 95.1) has been available since January 1995. This article outlines some of the main changes.

2 Brief overview of \LaTeX2HTML

\LaTeX2HTML is a conversion tool that allows documents written in \LaTeX to be converted into the hypertext format (HTML) used by WorldWide Web navigators.

\LaTeX2HTML recreates the basic structure of a paper document as a set of interconnected hypertext nodes which can be explored using automatically generated navigation panels. Any cross-references, citations, footnotes, etc are converted into hypertext links. Formatting information (eg for mathematical equations or pictures) is converted into images which are placed automatically in the hypertext document.

\LaTeX2HTML is being widely used for the preparation of active electronic books, online documentation, electronic scientific papers, lecture notes, training and coursework material, literate programming tools, active bibliographic references and much more. Several thousands of copies of \LaTeX2HTML have been distributed to academic, commercial and government institutions since May 93 when it was first released.

3 \LaTeX2HTML 95.1 new features summary

- Much improved inlined equation baseline alignment!

  (Thanks to Mark Segal, segal@spud.asd.sgi.com) Inlined equation bitmaps are now aligned correctly depending on whether they contain subscripts, superscripts etc.

- Support for internationalization

  (Thanks to Martin Boyer, gamin@ireq-robot.hydro.qc.ca) A global variable \texttt{LANGUAGE\_TITLES} can now be used to change the language in which some section titles (eg ‘Table of Contents’) are printed. It is also very easy to add support for more languages.

- More efficient implementation

  There has been a major overhaul of the way the source text is parsed and analysed in order to reduce the memory requirements of this process.

- ‘Off-line’ Image Generation

  Two new options \texttt{-no\_images} and \texttt{-images\_only} allow ‘off-line’ image conversion. The advantage of using these options is that the translation can be allowed to finish even when there are problems with image conversion. In addition it may be possible to fix manually any image conversion problems and then run \LaTeX2HTML again just to integrate the new images without having to translate the rest of the text.

  Also, a new option \texttt{map=\langle image \_map \_URL\rangle} in the command \texttt{htmlimage} can turn an included postscript image into an active image map.

4 Examples of converted documents

Electronic books

- Spinning the Web,\textsuperscript{1} a book for WWW developers by Andrew Ford.

- Designing and Building Parallel Programs (Online)\textsuperscript{2} which is an ‘evolving online resource’ incorporating the content of a 500-page textbook published by Addison-Wesley.

- Common Lisp the Language, 2nd Edition\textsuperscript{3} — an electronic version of the 1000+ page \textit{LISP bible} by Guy L. Steele, published with permission from Digital Press.

- Computational Science Education Project.\textsuperscript{4}

Scientific papers

- The MIT transit project,\textsuperscript{5} and a paper on electronic submissions to an IEEE journal.\textsuperscript{6} Also, some sam-

\textsuperscript{1}http://power.globalnews.com:80/stw/stw/home.htm
\textsuperscript{2}http://www.mcs.anl.gov/dbpp
\textsuperscript{3}http://www.cs.cmu.edu:8001/Web/Groups/Al/html/cltl/cltl2.html
\textsuperscript{4}http://csep1.phy.ornl.gov/csep.html
\textsuperscript{5}http://www.ai.mit.edu/projects/transit/tncat.html
\textsuperscript{6}http://www.research.att.com/esubmit/esubmit.html
ple journal articles in SEPTEMBER (AT&T’s Secure Electronic Publishing Trial)

Training and teaching support material
• ISLE — The Intensely Supportive Learning Environment project at ICBL, Heriot-Watt University, lecture notes at Cardiff, and at Brigham Young Universities.

System documentation
• The REDUCE algebra system, the PYTHON tutorials and the user guide to the Compton Observatory Science Support Center.

5 Where to get it, how to use it
\LaTeX2HTML runs on Unix systems (SunOS, OSF, Linux, AIX etc) with at least Perl version 4 at patch level 36. Versions of \LaTeX2HTML earlier than 95.1 will not work with the newer Perl version 5.

You can get \LaTeX2HTML from the ‘Getting \LaTeX2HTML’ section of the \LaTeX2HTML manual or via ftp from ftp://ftp.tex.ac.uk/pub/archive/support/latex2html or other CTAN archives.

Fully searchable archives of user comments, bug reports, the \LaTeX2HTML user manual, the \LaTeX2HTML mailing list, links to converted documents, the source code, and much more are available from the \LaTeX2HTML server.

6 Appendix (added by MAPS editor)

6.1 The \LaTeX2HTML Mailing List
A \LaTeX2HTML mailing list has been set up. To join send a message to:
latex2html-request@mcs.anl.gov
with the contents
subscribe

To be removed from the list send a message to:
latex2html-request@mcs.anl.gov
with the contents
unsubscribe

Please send these messages to latex2html-request and not to everybody else on the list.

The address of the \LaTeX2HTML mailing list is:
latex2html@mcs.anl.gov

6.2 Future support and further development
On 3 Apr 1995, the following e-mail was distributed on the latex2html@mcs.anl.gov discussion list by the \LaTeX2HTML author Nikos Drakos.

Dear All,

This is to let you know about some changes that will affect the development and support for \LaTeX2HTML in the future.

First of all despite the freedom, encouragement and excellent working environment at the Computer Based Learning Unit of the Univ. of Leeds, I have moved on to another position. During the move a large backlog (several hundred) \LaTeX2HTML-related messages, queries and bug-reports have accumulated. Apologies to all who have not received any replies...

Future Support
Because of the current workload and the change in circumstances it is no longer possible for me to answer all the \LaTeX2HTML queries I receive. I will try to respond as much as possible but in many situations enquirers will receive a standard reply (directing them to the archives and to this mailing list).

\LaTeX2HTML Archives
The searchable \LaTeX2HTML archives (including messages from this mailing list, comments, bug reports, documentation, etc) will continue to be updated and maintained. They will be kept at the usual address.

Future Development
The development of \LaTeX2HTML will continue but at a much slower pace. There are already contributions from others which need to be integrated into the main package. Another obvious candidate is the problem of the postscript to GIF conversion. Also, a project between the Computer Based Learning Unit at Leeds and some other institutions concerning an electronic journal is likely to involve contributions in terms of further enhancements to \LaTeX2HTML.

Cheers,
Nikos.