TEX and PDF in Education

M. Ćirić and G. Kljajić

Department of Mathematics & Informatics Faculty of Sciences & Mathematics University of Niš, Serbia

<u>**TEX**</u> is a computer language, created by <u>Donald Knuth</u>, intended to produce high-quality typesetting.

<u>TEX</u> sets normal text beautifully, with linebreaking algorithms that are noticeably better than those used by common word processors.

But $\underline{T_{EX}}$ really excels when it comes to setting extremely complicated material such as is common in science, engineering and mathematics.

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But $\underline{T_EX}$ really excels when it comes to setting extremely complicated material such as is common in science, engineering and mathematics.

The $\underline{T_{EX}}$ program itself is a macro compiler, and it's input consists of a stream of mixed macro commands and text.

The <u>TEX</u> system has precise knowledge of the sizes of all characters and symbols, and using this information, it computes the optimal arrangement of letters per line and lines per page.

It then produces a <u>DVI file</u> (for "<u>device independent</u>"), as it's primary output format, containing the final locations of all characters.

This <u>DVI file</u> can be printed directly given an appropriate printer driver, viewed using some of many existing viewers, or it can be converted to other formats.

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- **ETEX** is an extension of **TEX** whose major features include a strong focus on document structure and the logical markup of text, automatic numbering and cross-referencing, and much more. It was originally written in 1984 by Leslie Lamport and has become the dominant method for using **TEX**. The current version is **ETEX2** ε developed by the **ETEX3** team –
 - Frank Mittelbach (project leader), David Carlisle and others.
- AMSTEX (produced by the American Mathematical Society) provides many features to make typesetting mathematics convenient while meeting the standards of the AMS for publication. <u>AMSTEX</u> provides many additional mathematical constructs and fonts with many more mathematical symbols than the fonts that come with TEX.

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<u>AMSETEX</u> provides all of the functionality of ET_EX (as its extension) and the functionality of AMSTEX in ET_EX syntax and access to additional mathematical constructs and mathematical symbols not present in ET_EX .

In <u> $ETEX 2\varepsilon$ </u> this is achieved using <u>amsmath</u>, <u>amsfonts</u> and <u>amscls</u> document class packages.

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It is a very compact language, already well-established as a de facto standard portable document format both on and off the web.

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The oldest way for creating PDF from T_EX or ET_EX source consists of the three steps:

- (1) compiling T_EX source file to DVI file which contains \special commands for PDF support;
- (2) converting DVI file to PostScript by some DVI-to-PostScript driver, such as dvips or dvipsone;
- (3) translating PostScript file to PDF by some PostScript-to-PDF translator, such as Acrobat Distiller or Ghostscript.

Another way is to use dvipdf or dvipdfm, <u>DVI-to-PDF drivers</u> made by <u>Sergey Lesenko</u>, which can simplify this process by eliminating the need for PostScript generation.

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We will present several ways to use PDF in the classroom.

PDF Slide Presentations: They can be made thanks to various dynamic and navigation effects present in the PDF. We will mention several packages and tools for creating PDF

slide presentations.

Exercises and Quizzes: They can be made thanks to the interactivity and the form support in the PDF.

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Slide Development Packages are LTEX document classes and other accessories which define PDF specials producing PDF presentations with various dynamic effects – background colors and gradients, transitions effects and step by step presentation of talking points.

Slide Enhancement Tools are either programs which are used to post-process presentations in PostScript or PDF format made by other slide development packages, in order to provide some additional dynamic effects, or are <u>add-ons</u> to other document classes which create dynamic effects.

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Java Power Presenter - JPP is a presentation bundle, created by <u>Thorsten Ehm</u> (University of Augsburg, Germany), offering a platform-independent way to build <u>PowerPoint</u>-like presentations in <u>ETEX</u> reusing all the previously written <u>ETEX</u> code.

It consist of the $ET_EX2\varepsilon$ class file (jpp.cls) based on the ET_EX Seminar style, and a software written in Java.

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The process requires generation of <u>PDF</u> by way of <u>PostScript</u>, as some effects (notably "builds/incremental display") are implemented by post-processing the PostScript generated from T_EX.

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<u>PPower4</u> is a post processor of PDF documents written by <u>Klaus</u> <u>Guntermann</u> (Technical University of Darmstadt, Germany).

It is used to post process presentations in <u>PDF format</u> which were prepared using <u>ETEX</u> to add dynamic and background effects.

<u>PPower4</u> can only provide those effects, which are implemented in the reader.

The PDF files can be created with $pdf \pounds T_E X$ or with standard $\pounds T_E X$ and then converted to PDF with dvipdfm.

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The PDF files can be created with $pdf \& T_E X$ or with standard $\& T_E X$ and then converted to PDF with dvipdfm.

<u>PPower4</u> provides a small <u>ETEX</u> package (<u>pause.sty</u>) which let's the user insert small colored spots (using the command \pause) in the PDF file where a break should be make during display.

During postprocessing <u>PPower4</u> removes these colored chunks and adjusts the page number. This makes an impression that the same page is displayed step by step.

Additional packages are provided for setting

- background colors (background.sty) and
- page transitions (pagetrans.tex)

The last is actually a feature of <u>hyperref.sty</u> and can be used with any <code>ETEX</code> based solution.

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Building	your	table
line	by	line,



Building	your	table
line	by	line,
entry		



Building	your	table
line	by	line,
entry	by	



Building	your	table
line	by	line,
entry	by	entry,



Building	your	table
line	by	line,
entry	by	entry,


Building	your	table
line	by	line,
entry	by	entry,
from	the	bottom
growing	up,	too.

Show	
the	
first	
column,	

Show	then
the	the
first	second,
column,	and

Show	then	finally,
the	the	also
first	second,	the
column,	and	third.



Fill	
the	
first	
column,	

Fill	then	
the	the	
first	second,	
column,	and	

Fill	then	finally,
the	the	also
first	second,	the
column,	and	third.









Fill		
	the	
		table



Fill		at
	the	
		table



Fill		at
	the	
random		
	positions	table



Fill	leave	at
some	the	
random		empty
	positions	table



Fill	leave	
some	the	well,
random	almost	empty
empty	positions	table



Fill	leave	
some	the	well,
random	almost	empty
empty	positions	table

Did you notice, that the element in the upper right corner has vanished?



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It works well in conjunction with <u>pdfslide</u> and <u>pdfscreen</u>, as well as with <u>seminar</u>, <u>foils</u>, or any other class/package for designing slides.

No post-processing or additional tools are needed – the standard **ETEX** distribution will do.

However, using the <u>pp4slide.sty</u> with <u>TeXPower</u> and then postprocessing the PDF presentation with <u>PPower4</u>, some additional effects can be achieved.

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The heart of the bundle is the <u>TeXPower</u> package (<u>texpower.sty</u>), which enables some commands for dynamic presentation effects in PostScript and <u>PDF</u> documents produced from \mbox{ET}_{EX} .

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This includes <u>page transitions</u>, <u>color highlighting</u> and <u>displaying pages</u> incrementally.

The AcroT_EX eDucation Bundle

The AcroT_EX eDucation Bundle is a collection of $\[mathbb{E}T_{E}X\]$ macro files, along with various support and sample files, created by <u>D. P. Story</u> (University of Akron, USA).

The overall theme of the bundle is ePublication in the education sector using ET_EX as the authoring application and Adobes Portable Document Format (PDF) as the file format of the output document.

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web package is used to create an attractive, easy-on-the-eye page layout suitable for the web or classroom/conference presentations;

exerquiz package makes it very easy to create interactive exercises and quizzes;

insdljs package allows for the automatics insertion of document level JavaScript, which is used for processing of the <u>exerquiz</u> quizzes;

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There are also two additional components:

eq2db package is used to customize exerquiz to save results of the quiz environment to a database.

It has three options

eqRecord – a simple ASP script that takes some <u>exerquiz</u> data and saves it to a database;

eqEmail – an ASP script that e-mails quiz results to the instructor;

custom – this is a hook for other developers to use this package and its macros.

eForm support defines six basic (and internal) commands for creating the six types of form elements used in the AcroT_EX quizzes – push buttons, check boxes, radio buttons, list boxes, combo boxes and text fields.

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