A brief comparison of gure generation methods for LaTeX documents

September 22, 2014

Comparison Table

	Win	Mac	Linux	Input	Render	Free
				Latex	Vectors	
Хg	3	3	3	3	3	3 ¹
IPE	3	3	3	3	3	3
Inkscape	3	3	3	3	3	3
PowerPoint	3	3	5	2;3	5	5
Apple Keynote	5	3	5	2	5	3
Matlab ⁴	3	3	3	5	?	5
Maple ⁵	3	3	3	5	?	5
LatexDraw	3	3	3	3	•	'

Details

X g

X g is an older vector drawing tool. Latex code can be input if the text eld is set to \special" and the gure is exported as Combined PS/Latex. Latex code is not rendered within x g, but instead is compiled when latex'ing the document. This makes using latex placement with gures somewhat more di cult with x g.

http://xfig.org/userman/installation.html#install-xfigwin

http://winfig.com/

IPE

IPE is a WYSIWYG vector drawing tool with built-in Latex support. Creating gures with Latex math symbols and formulae is very easy. Files can be exported as PDFs. If exported PDFs are not modiled by other applications, they can be opened and edited.

http://ipe7.sourceforge.net/

Inkscape

Inkscape is a vector drawing tool with built-in support for Latex. However, latex, dvips and psto(rdi44ja2kPnl)5336(des5336upp)-28(or)1(t)-337(for)-336(Latex.)-466im-slatex. documeninpu.i. .pu.i. fo.pl.an.edr,

Powerpoint

Powerpoint has basic vector drawing features and recent versions allow the export of PDF les. It does not support the input of Latex code, however LaTeXiT could be used with this.

Apple Keynote

Apple Keynote can export as PDF, however only as complete slides. https://www.apple.com/nz/mac/keynote/

Matlab

Matlab's Symbolic Math Toolnbox has some basic support for rendering Latex symbols.

http://www.mathworks.com.au/help/symbolic/latex.html http://www.mathworks.com.au/help/symbolic/texlabel.html

Maple

Maple does not support Latex code input. However, it can export equations in Latex code.

http://www.maplesoft.com/support/help/Maple/view.aspx?path=latex

PSTricks / PSPicture

The PSTricks Latex package allows the plotting of gures directly in the Latex document. This is not so easy because one cannot view the gure until the document is compiled. However, the LatexDraw editor is a WYSIWYG editor that can generate PSTricks code and also PDF/PS les.

http://en.wikibooks.org/wiki/LaTeX/PSTricks

http://latexdraw.sourceforge.net/

TikZ

The TikZ Latex package also allows the plotting of gures within the Latex document. TikZ allows the plotting of technical and complex gures. http://www.texample.net/tikz/examples/