

# LaTeXWorkshop Graduate School of Governance Maastricht

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*This version is dated November 14, 2009*

November 18, 2009

# Outline

- 1 L<sup>A</sup>T<sub>E</sub>XPrimer
  - What is L<sup>A</sup>T<sub>E</sub>X?
- 2 Software requirements
  - Interfaces for a Windows PC
  - Interfaces for a Mac
- 3 Installation
- 4 Further info
  - Add-ons (from [winedt.org](http://winedt.org))
  - Add-ons (for Mac)
- 5 An example

# What is LaTeX?

- LaTeX is a document preparation system for high-quality typesetting. It is based on Donald E. Knuth's TeX typesetting language. LaTeX was first developed in 1985 by Leslie Lamport, and is now being maintained and developed by the LaTeX3 Project.
- LaTeX is a markup language (like HTML, but much smarter).
- LaTeX is most often used for medium-to-large technical or scientific documents, but it can be used for almost any form of publishing.
- LaTeX is not a word processor! Instead, LaTeX encourages authors not to worry too much about the appearance of their documents, but to concentrate on getting the right content.
- More info here: [▶ Jump to the end](#)

# What is a markup language?

- Well, for starters, consider the LaTeX code for the beginning of this presentation:

```

13 \title[research skills]{\large \LaTeX Workshop Graduate School of Governance
    Maastricht}
14 \author{\normalsize Jaap Bos (Utrecht \emph{University} School of Economics)}
15 \institute[USE]{\emph{This version is dated June 18, 2009}}
16 \date{\small June 18, 2009}
17
18 \begin{document}
19
20 \begin{frame}
21 \titlepage
22 \end{frame}
23
24 \begin{frame}
25 \frametitle{Outline}
26 \tableofcontents
27 \end{frame}
28
29 \section{\LaTeX Primer}
  
```

# A bit more about markup languages

- So somewhere you or someone else has defined what e.g. title should look like....
- A collection of those features is called a **shell**.
- Once you've chosen your shell, you no longer worry about layout....
- In the end, you *compile* the document, and a software package turns it into readable and printable output.

# Who uses L<sup>A</sup>T<sub>E</sub>X?

- Scientists (physics, etc.), and other geeks, nerds ([www.tug.org](http://www.tug.org), or [www.dante.org](http://www.dante.org))
- Increasingly many people working in economics and finance.
- The publishers of the journals that you read and submit to...
- Many people in your science.
- Yours truly.

# What kind of a L<sup>A</sup>T<sub>E</sub>X user am I?

- For 99% of my work I use the same shell (which I downloaded from Elsevier (it's what they use for their journals as well)).
- It makes me much more productive and helps me avoid some of the wordprocessing problems I hate the most.
- I've occasionally used it to do math as well (more later, or ask me!).
- It helps now that I'll be writing a book and integrating some papers in that book.
- I really like the combination with Stata.
- I sometimes use SWP like old-school Wordperfect (with the underwater screen).
- Every now and then I like to do some of my own programming...

# How does Scientific Workplace relate to L<sup>A</sup>T<sub>E</sub>X?

- Scientific Workplace (SWP) is one of those programs used for programming in L<sup>A</sup>T<sub>E</sub>X. The key difference with most of the other programs: it is (almost) completely windows based. So you don't have to worry about all that code.
- L<sup>A</sup>T<sub>E</sub>Xsnobs will tell you SWP is for dummies, but the truth is, it can almost completely be integrated with L<sup>A</sup>T<sub>E</sub>X.
- So in principle you don't have to choose: you can start with SWP and later switch to L<sup>A</sup>T<sub>E</sub>X.
- SWP is a commercial package, so you (or USE) will have to pay....
- SWP has MUPAD (remember the math I talked about?)

# How does Word relate to SWP and L<sup>A</sup>T<sub>E</sub>X?

- Word is not a markup language (yet!)...
- ...but HTML is.
- Word becomes more and more like HTML (try opening a website in Word, and you'll see what I mean).
- Word2T<sub>E</sub>X is relatively simple.
- T<sub>E</sub>X2Word is more troublesome.
- A bit about writing papers with Word users...

# Pros of Scientific Workplace

- 1 It is very stable.
- 2 It is easy to use (easier than L<sup>A</sup>T<sub>E</sub>X)
- 3 It is somewhat (!) more compatible to Word than L<sup>A</sup>T<sub>E</sub>X.
- 4 Your documents will look great.
- 5 Almost all types, shapes and looks of documents are available.
- 6 SWP5 now has pdftex....
- 7 You can use a lot of L<sup>A</sup>T<sub>E</sub>X programming, should you choose to do so.

# Cons of SWP

- 1 It is definitely not as flexible as Word.
- 2 To get more flexibility you'll still have to learn how to program (big minus, unless you know and like html).
- 3 It comes at a price (albeit a reasonable price).
- 4 You'll have to learn a new program.

# Pros of L<sup>A</sup>T<sub>E</sub>X

- 1 It is the best package for documents containing mathematics.
- 2 It is free on virtually every computer in the world.
- 3 It is portable: stick to the standard commands and everyone can read and exchange documents.
- 4 The source file is purely alphanumeric so it can be read by eye or posted by e-mail with no problems associated with different versions or binary files.
- 5 L<sup>A</sup>T<sub>E</sub>X has the reputation of being hard, but in fact it is effectively the same as HTML!
- 6 It is very stable (graphs, tables, citations, reference lists, table of contents, etc.).
- 7 It can be integrated with Stata.

# Cons of L<sup>A</sup>T<sub>E</sub>X

- 1 It is perhaps not as flexible as Word.
- 2 To get more flexibility you have to learn how to program (big minus, unless you know and like html).
- 3 It is very difficult to write with non-L<sup>A</sup>T<sub>E</sub>X users.
- 4 In a way, you're still more layout focussed, just like a Word-user.

# Interfaces for a Windows PC

# Winedt.com

<http://www.winedt.com>

The screenshot shows a web browser window with the following content:

- Navigation Links (Left Sidebar):**
  - [e-mail](#)
  - [WinEdt Mailing List](#)
  - [About WinEdt](#)
  - [Snapshots](#)
  - [WinEdt and TeX](#)
  - [Licensing Agreement](#)
  - [License and Registration](#)
  - [Installing WinEdt](#)
  - [Downloads](#)
  - [New: WinEdt 5.5](#)
- Header:**
  - WinEdt logo
  - WinEdt Shell logo (with a pen and sigma symbol)
- Main Content:**
  - Text: WinEdt™ (shareware) is a powerful and versatile ASCII editor and shell for MS Windows with a strong predisposition towards the creation of [La]TeX documents...
  - Text: WinEdt is widely used as a front-end for compilers and typesetting systems, such as TeX or HTML. WinEdt's highlighting schemes can be customized for different modes and its spell checking functionality supports multi-lingual setups, with dictionaries (word-lists) for many languages available for downloading from WinEdt's Community Site.
  - Text: *Check out WinEdt's Features Overview and Downloads pages for more information on WinEdt, TeX and links to other programs needed to make WinEdt and TeX fully operational on Win32 platform.*
  - New: WinEdt 5.5**
    - Text: WinEdt 5.5 is now the *official* release of WinEdt. It will be uploaded to CTAN soon. This version integrates seamlessly with MiKTeX 2.5--2.7 and Adobe 5--8. It has a new TeX Live configuration compatible with TeX Live 2007 release. It has also been extensively tested under Windows Vista. To install WinEdt 5.5 follow the link below and proceed according to the instructions:
    - [WinEdt 5.5: \[Build: 20071003\]](#)
- Footer:**
  - Created with WinEdt logo
  - Navigation icons: back, forward, search, etc.

# Winedt.com - other programs to install

<http://www.winedt.com>



[e-mail](#)  
[WinEdt Mailing List](#)  
[About WinEdt](#)  
[Snapshots](#)  
[WinEdt and TeX](#)  
[Licensing Agreement](#)  
[License and Registration](#)  
[Installing WinEdt](#)  
[Downloads](#)  
[New: WinEdt 5.5](#)



[WinEdt 5.5: \[Build: 20071003\]](#)

## CTAN (Comprehensive TeX Archive Network) Servers:

WinEdt can be downloaded from "/tex-archive/systems/win32/winedt/" directory on CTAN:

<a href="#">WinEdt Version and Build</a>	Size	<a href="#">England</a>	<a href="#">Germany</a>	<a href="#">USA</a>
WinEdt 5.4 [Build: 20050701] (old)	6.07MB	<a href="#">WinEdt 5.4</a>	<a href="#">WinEdt 5.4</a>	<a href="#">WinEdt 5.4</a>
WinEdt 5.3 [Build: 20020323] (obsolete)	4.0MB	<a href="#">WinEdt 5.3</a>	<a href="#">WinEdt 5.3</a>	<a href="#">WinEdt 5.3</a>
WinEdt32 [Build: 19981003 (v 1.414)] (obsolete)	2.1MB	<a href="#">WinEdt32</a>	<a href="#">WinEdt32</a>	<a href="#">WinEdt32</a>
WinEdt16 [Build: 19980623 (v 1.41-e)] (obsolete)	1.3MB	<a href="#">WinEdt16</a>	<a href="#">WinEdt16</a>	<a href="#">WinEdt16</a>

*On CTAN you'll also find other TeX related packages and accessories!*

WinEdt dictionaries for many languages are also available on CTAN, via:

- [Dictionaries \(word lists\) for WinEdt](#)

## WinEdt: Additional Macros and Packages

- [www.winedt.org](http://www.winedt.org) ([WinEdt Macro Library and Configurations](#))

## Links to other Home Pages containing WinEdt or TeX related material:

- [TUG: TeX Users Group](#)
- [MiKTeX's Home Page](#)
- [TeX Live Home Page \(TUG\)](#)
- [Ghostscript's Home Page \(GS and GSView\)](#)

# Interfaces for a Windows PC

# MiKTeX

<http://www.miktex.org/>



*...typesetting beautiful documents...*

Web  miktex.org

Google Search

## Home

### About

MiKTeX  
MiKTeX Tools

### Download

MiKTeX 2.7

### DVD/CD

MiKTeX on DVD-R  
MiKTeX on CD-R

### Help & Support

Documentation  
Support  
Feature Requests  
Troubleshooting

Welcome to the MiKTeX project page!

MiKTeX is an up-to-date TeX implementation for the Windows operating system.

TeX is a typesetting system written by [Donald E. Knuth](#), who says that it is "*intended for and especially for books that contain a lot of mathematics*".

[Learn more...](#)

### MiKTeX Releases [\[compare\]](#)

- 2.8 [\[status\]](#)  
xetex 0.997, pdftex 1.40.4, LuaTeX, mpost 1.001
- 2.7 [\[status\]](#) [\[download\]](#) [\[issues\]](#)  
xetex 0.997, pdftex 1.40.4, mpost 1.001
- 2.6 [\[status\]](#) [\[download\]](#) [\[issues\]](#)  
pdftex 1.40.4, mpost 1.000
- 2.5 [\[status\]](#) [\[download\]](#) [\[issues\]](#)  
pdftex 1.30.6, mpost 0.901

### MiKTeX Package Repository [\[status\]](#)

Version: 2948  
Date: 1/27/2008  
Packages: 1542

# Ghostscript and Ghostview

<http://www.ghostscript.com/awki>

## Ghostscript Website



Welcome to [Ghostscript](#), an interpreter for the PostScript language and for PDF.

### Releases and News

The leading edge of Ghostscript development is now under GPL license, as is the latest release, Ghostscript 8.60.

Ghostscript can be downloaded from [cs.wisc.edu](#) and [sourceforge.net](#).

### Documentation

We keep online documentation for the [development tree](#) and many previous releases in the [documentation](#) archive.

### Developers

- [Mailing lists](#)
- [Bugzilla](#)
- [Source repository](#)
- [Bug bounty program](#)

### Related projects

Other page description languages:

- [Ghostpcl](#)
- [Ghostpdf](#)
- [Ghostxps](#)
- [MuPDF](#)

A user-friendly viewer:

- [GSview](#)

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Search:



# Step-by-step installation on a Windows PC

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  - MikTeX is your actual TeX code. You first download an installation program, and can then opt for a full TeX installation, or a basic installation. If at all possible, install the full MikTeX (it will take a while, but it is worth it).

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- 4 You're set to go!

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- 5 Check out [http://guides.macrumors.com/Installing\\_LaTeX\\_on\\_a\\_Mac](http://guides.macrumors.com/Installing_LaTeX_on_a_Mac)

# Life, the L<sup>A</sup>T<sub>E</sub>X way

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  - L<sup>A</sup>T<sub>E</sub>X users love open source, and they share their wisdom. Key sites are [www.tug.org](http://www.tug.org) (TeX Users Group) and [www.dante.org](http://www.dante.org) (German TeX users, site is also in English).

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- 3 You *will* have a steep learning curve in the beginning.
  - But things go much smoother after a short while (my co-authors wrote their first draft of our joint paper in a week after they first used L<sup>A</sup>T<sub>E</sub>X).

# Most common mistakes

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# JabRef

<http://jabref.sourceforge.net/>



[Overview](#) [FAQ](#) [Documentation](#) [Journals](#) [Screenshots](#) [History](#) [Contact](#) [Download](#)

## About

JABREF is an open source bibliography reference manager. The native file format used by JABREF is BIBTEX, the standard LATEX bibliography format. JABREF runs on the Java VM (version 1.5 or newer), and should work equally well on Windows, Linux and Mac OS X.

BIBTEX is an application and a bibliography file format written by Oren Patashnik and Leslie Lamport for the LATEX document preparation system. [General information about BIBTEX.](#)

Bibliographies generated by LATEX and BIBTEX from a BIBTEX file can be formatted to suit any reference list specifications through the use of different BIBTEX style files. We support this initiative to build a searchable database of BIBTEX style files, organized by journal names: [LATEX bibliography style database.](#)

You can run JABREF instantly with Java Web Start: [Run JABREF.](#)

## Features

**Web Start**  
run JabRef instantly

**Download**  
latest stable version

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**News**

November 29th, 2007  
Version 2.3.1

November 8th, 2007  
Version 2.3

October 6th, 2007  
Version 2.3beta3

August 29th, 2007  
Version 2.3beta2

June 28th, 2007  
Version 2.3beta

January 30th, 2007

# TexAide

<http://www.dessci.com/en/products/texaide/>

**Design Science**  
How Science Communicates®

Products Solutions Store Support Reference Company

Search  Products > TexAide

## TeXaide

Design Science TeXaide™ is a special version of our Equation Editor that generates TeX and LaTeX using MathType's translator technology. Whereas Equation Editor can be used with any application that supports OLE or can paste a graphic from the clipboard, TeXaide only generates TeX/LaTeX on the clipboard, where it can be pasted into any TeX/LaTeX system. Now you can generate TeX/LaTeX equations using Equation Editor's easy-to-use interface! Insert hundreds of characters and symbols without having to look them up!

The following translators are supplied:

- Plain TeX
- AMS TeX
- AMS LaTeX
- LaTeX 2.09 and later

TeXaide is available for Windows 95, 98, 2000, Me, NT and XP, and comes with a comprehensive help file that describes how to use the product. The download is only 1MB.

TeXaide is free. Before you download, we invite you to give us your email address. This is completely optional but doing so will allow us to keep you up to date on our products. **Your Personal Information Is Protected.** We will not share or sell your information at any time for any reason whatsoever. [View our Privacy Policy.](#)

To download TeXaide, enter your email address below and click the Download TeXaide button. This will download a file called ta40a.exe. Make a note of the folder you download it to on your computer. Once the download has completed, run ta40a.exe. If your browser offers to Open this file once downloaded, click Open. Otherwise use Windows Explorer to open the download folder, and then double-click ta40a.exe.

# Excel2Latex

<http://www.ctan.org/tex-archive/support/excel2latex/>

The screenshot shows a web browser window with the address bar containing `http://www.ctan.org/tex-archive/support/excel2latex/`. The browser's navigation bar includes links for Apple, Yahoo!, Research, Teaching, LaTeX, Stata, Hobbies, Outdoor, Mac, Webdesign, Photography, Instruments, Music, Design, News, and Conferences. The main content area features the CTAN logo and the text "the Comprehensive TeX Archive Network". To the right is a cartoon illustration of a dog reading a book. Below the logo, the text reads "Directory: [CTAN home](#) / [tex-archive](#) / [support](#) / [excel2latex](#)". A paragraph follows: "You can get this entire directory bundled as [excel2latex.zip](#)".

**Packages located here**

Package	Caption
<a href="#">excel2latex</a>	Convert Excel spreadsheets to LaTeX tables.

**Subdirectories of this one**

There are no subdirectories here.

**Files in this directory**

Name	Date	Size	Description
Excel2LaTeX.xla	2001-07-22	83 Kbyte	<a href="#">download</a>

Add-ons (from winedt.org)

# Tablas (also in English)

<http://www.informatica.us.es/calvo/latex.html>

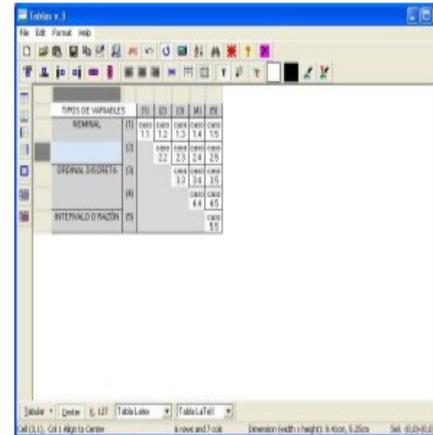
## Tablas

versión 3.0.0.4 (2-6-2004)

Programa que permite exportar e importar tablas LaTeX de forma visual.

Algunas características de este programa son:

- Admite distintos idiomas (por ahora, español, inglés).
- Tiene fichero de ayuda para windows en español o inglés.
- Permite exportar a formato JPEG.
- Se pueden utilizar bordes, colores de fondo, colores de letra, columnas de ancho automático o fijo, justificar el texto en las celdas, crear multicolumn, etc.
- Permite el intercambio de información en los dos sentidos con [Winedt](#).
- Permite ver el aspecto de la tabla si tenemos instalado LaTeX (por ejemplo: [MikTeX](#) con Yap).
- También puede crear código [Pstricks](#) para representar Redes y Árboles.
- Etc.



### Download:

- [tablas3sp.zip](#) (con ayuda en español).
- [tablas3.zip](#) (con ayuda en inglés).
- **Versiones anteriores de tablas:**

### Nota:

Ayuda en línea de Tablas en su versión actual en [español](#) o [inglés](#).

[Versiones anteriores](#) de Tablas.

# Latable

<http://www.g32.org/latable/>

Home | G32 | Graphics32 | TBX | LaTable | VCL Components

## LaTable

a visual table editor for LaTeX

- [Description](#)
- [Features](#)
- [Screenshots](#)
- [Support](#)
- [License](#)
- [Downloads](#)

### News

Date	Description
04 September 2002	Version 0.7.2. Fixed a bug with importing text (csv, tab-separated, etc.) files
15 January 2002	Version 0.7.1. Fixed a bug with selection rectangle
15 January 2002	Version 0.7. Fixed a bug with custom environment types. Now Latable supports windows xp visual styles and new implementation of custom themes.
1 November 2001	Version 0.6.5. A new UI appearance theme is included.
8 October 2001	Version 0.6.4 is uploaded. A few bug fixes, including some resource leakages.
14 August 2001	Version 0.6.3. Minor changes in license and documentation.
8 Aug 2001	Due to TBX bug disabled menu items were not actually disabled. Fixed. (version 0.6.2.62)
7 Aug 2001	Version 0.6.2 is uploaded. Changes in UI, incorporating TBX menus and toolbars
29 Jun 2001	Added Documentation. (version 0.6.1)
27 Jun 2001	First Public Release (version 0.6)

### Description

Adding tables to LaTeX documents is a matter of typing a few lines or text as long as table is simple and small. When larger tables are needed, with merged cells, various alignment styles, etc., navigation and manual editing of the LaTeX code gets a bit complicated.

LaTable was designed to help in such cases, providing convenient visual tool. Although LaTable does not support extension packages explicitly, you may easily customize the table appearance using custom column format and row prefixes and postfixes.

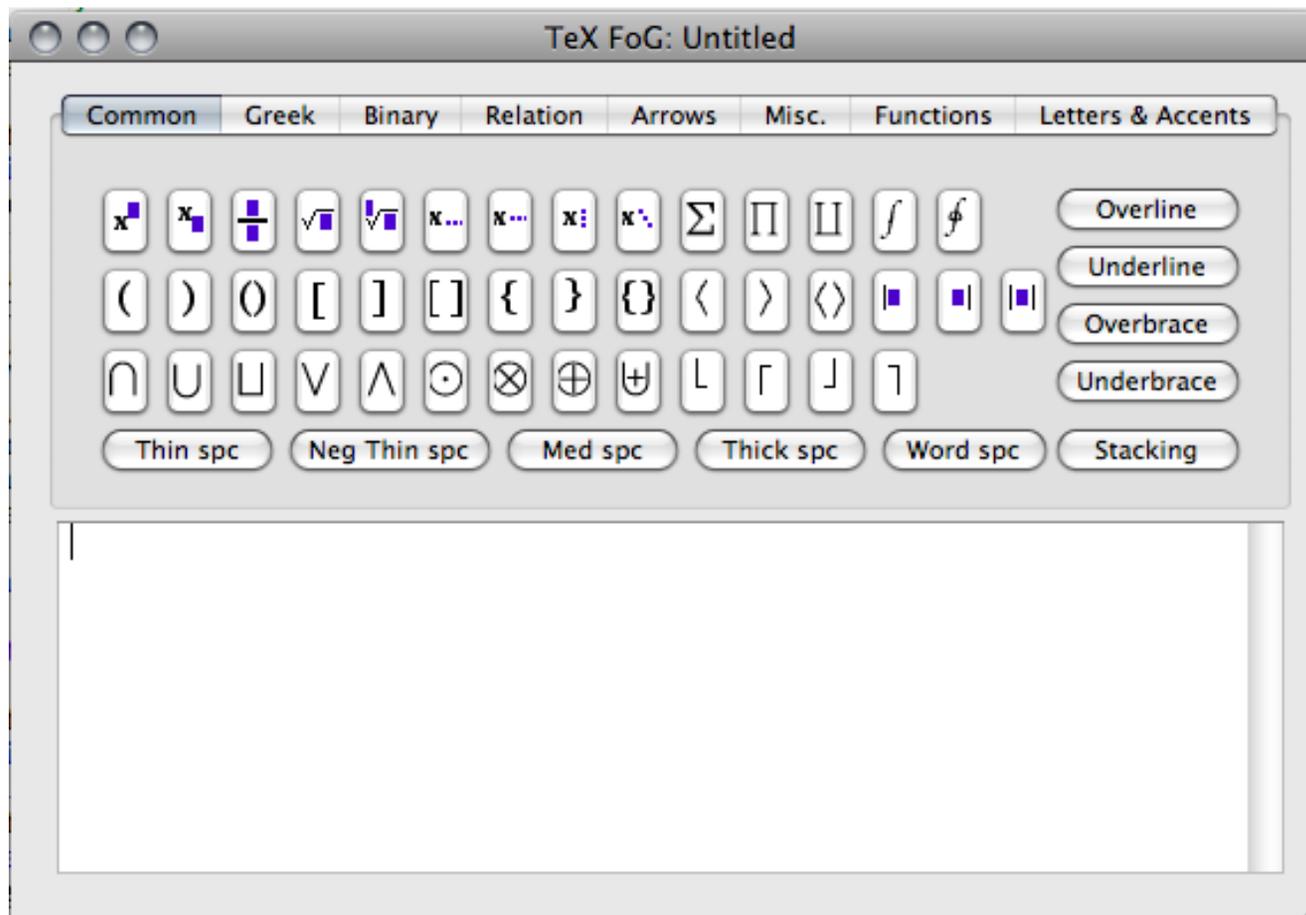
### Features

- Near-WYSIWYG editing style;
- Real-time LaTeX code preview;
- Simple navigation through the table;
- Limited clipboard support for import/export into other spreadsheet and text editors;
- CSV file format support;
- Generates 'tabular', 'array' and custom environments;
- Support for custom column formats;

Add-ons (for Mac)

# TeX FoG (for Mac)

[http://homepage.mac.com/marco\\_coisson/TeXFoG/](http://homepage.mac.com/marco_coisson/TeXFoG/)



# An example

- Now we'll go through a simple paper, with:
  - A graph
  - A table
  - A reference list, and two types of references

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- The paper will be available at the same place where all other material for this seminar is available.

# Where to find this information

- Until the end of October, you can visit <http://www.jwbbos.com/SoG>. Use the username and password that were supplied to you.
- Otherwise, visit my website at <http://www.jwbbos.com>. Go to "**Code**", and find the post that is entitled "**LaTeX Primer.**"