

Including Landscape Figures and Tables in a L^AT_EX Document

To insert landscape figures or tables, you'll need two packages, `graphicx` and `rotating`, which are included with most T_EX/L^AT_EX distributions. The `graphicx` package defines a new command called `\includegraphics` that enables you to include (and scale, if necessary) an imported graphic. Note that L^AT_EX plus `dvips` requires imported graphics to be in encapsulated PostScript (EPS) format, while pdfL^AT_EX accepts PDF, JPEG, or PNG formats but *not* EPS. (The conversion programs `epstopdf` and `jpeg2ps` are very useful.) The `rotating` package provides two new environments, `sidewaysfigure` and `sidewaystable`, which you use in place of the standard L^AT_EX environments `figure` and `table`. The sideways environments always put the landscape table or figure on a page by itself.

Documentation

Full documentation for the `rotating` package is in the book *The L^AT_EX Companion* by Mittlebach & Goossens. Documentation for the `graphicx` package is in the file `grfguide.pdf`. Under TeXLive 2005 this file is in the folder: `C:\TeXLive2005\texmf-dist\doc\latex\graphics\`. On other systems, it will be in a similar location. The material on including graphics is in Section 4.4.

Another useful document is *Using Imported Graphics in L^AT_EX2 ϵ* , a large PDF document by Keith Reckdahl of Stanford University. It includes all you would ever want to know with many examples. You can find it at <http://www.ctan.org/tex-archive/info/epslatex.pdf>.

Viewing the Result

If you use pdfL^AT_EX, the resulting PDF file should display everything properly. If you are running L^AT_EX to process your file, most of the time the previewer will be able to display the included PostScript graphics (by calling the `ghostscript` program). However, landscape tables will not display correctly, and if the graphic is in landscape orientation, it may not display properly. To see a correct display, use `dvips` to put the output in a PostScript file and then use GSVIEW to view it.

To view the output from this document, which contains landscape figures and tables, look at either of the files `exrotating.ps` or `exrotating.pdf`. If you compare the output with the L^AT_EX input (`exrotating.tex`), you'll see how the latex code generated the resulting output. To try it yourself, copy `exrotating.tex` to your own directory, along with the graphics files `cat.eps`, `smokeblk.eps` and `cat.pdf`, `smokeblk.pdf`. Then either run L^AT_EX followed by `dvips` or run pdfL^AT_EX.

Examples

This file illustrates the use of both the `graphicx` and `rotating` packages and can be processed either with pdfL^AT_EX or with L^AT_EX plus `dvips`. Note that, in the examples that follow, the filename extension is purposely omitted in the `\includegraphics` commands. L^AT_EX will look for files with the extension `.eps` and pdfL^AT_EX will look for files with extensions `.pdf`, `.jpg` or `.png`.



Figure 1: Here is a very small picture of a cat.

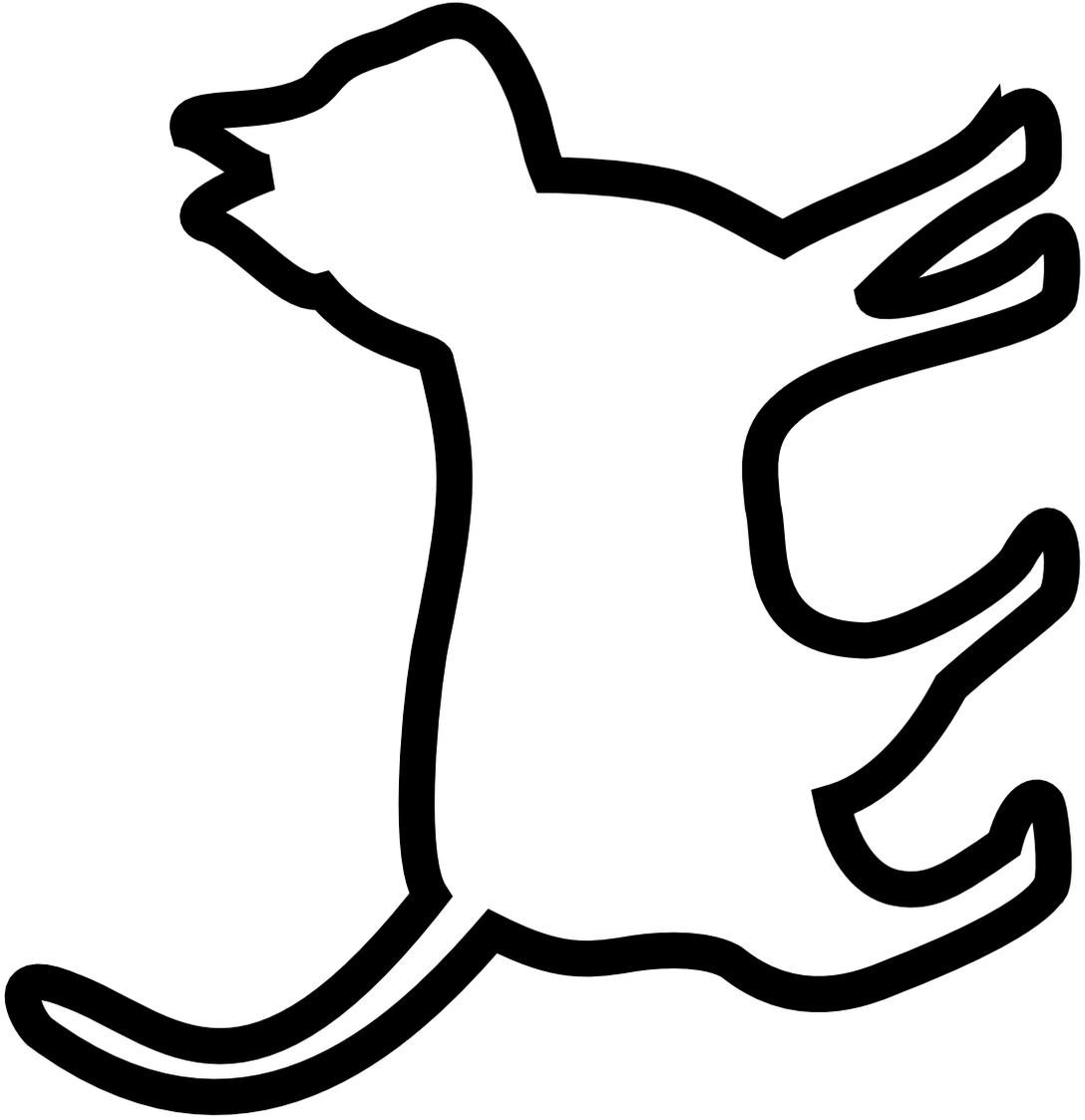


Figure 2: This is a stretched out cat to fill up the landscape page.

Table 1: A Very Wide Table

Text in columns 1 through 6					
Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
Column 1	Column 2	Column 3	Column 4	Column 5	Column 6
A paragraph 2.5 inches wide					
This text is a paragraph. It will wrap around to the next line if necessary.					
The paragraph column					

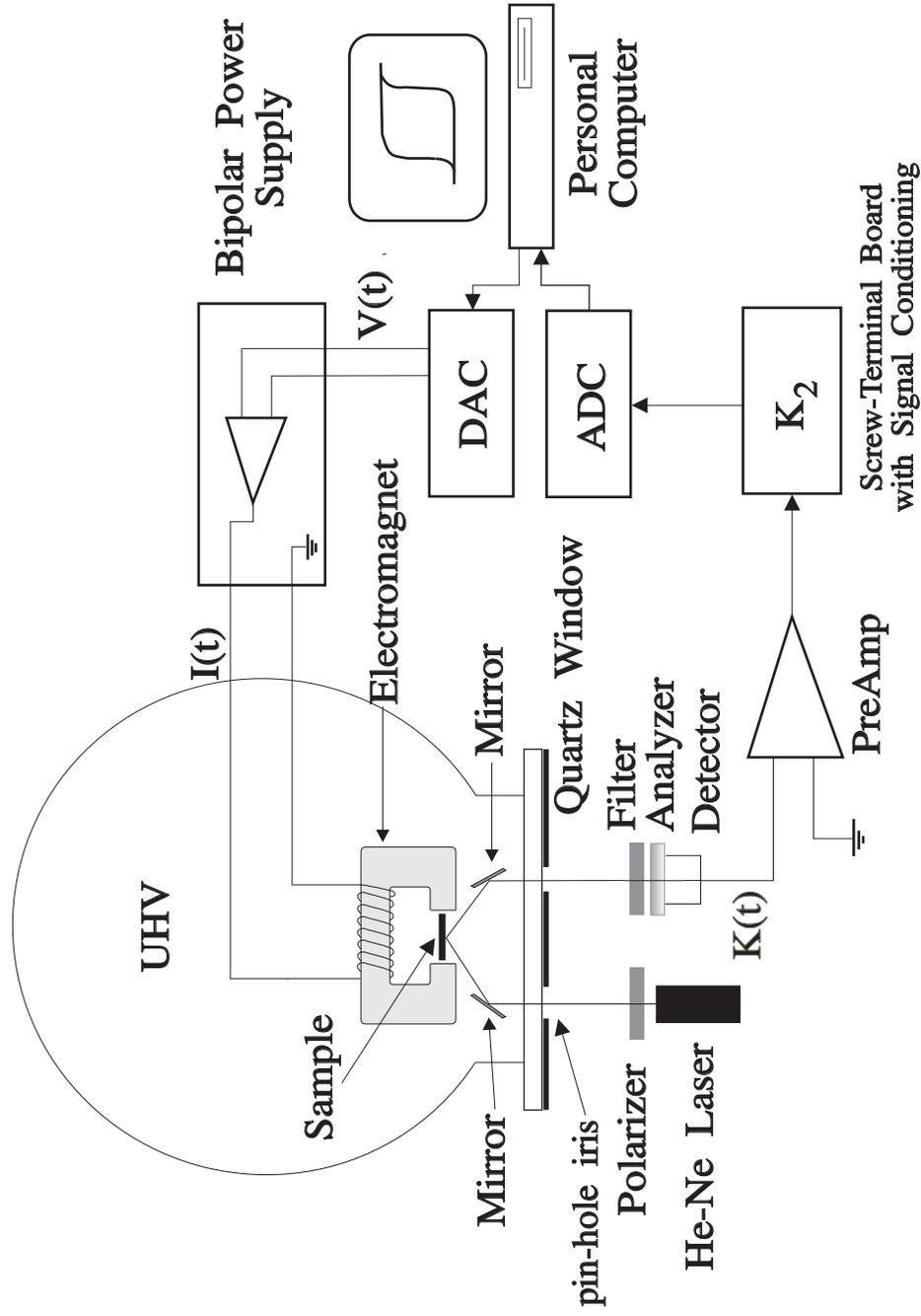


Figure 3: The Block diagram of the SMOKE setup showing the electromagnet, bipolar power supply, optical components, preamplifier, photodetector, and a personal computer installed with an ADC and DAC board.