

# PLPlot

The official plplot documentation is at <http://plplot.sourceforge.net/docbook-manual/plplot-html-5.9.9/>

## Converting PGPLOT to PLPLOT

<code>#include &lt;cpgplot.h&gt;</code>	<code>#include &lt;plplot/plplot.h&gt;;</code>
<code>cpgbeg(0, "/xs", 1, 3)</code>	<code>plstart("xwin", 1, 3);</code>
<code>cpgask(0);</code>	<code>plspause(0);</code>
<code>cpgbbuf();</code>	None?
<code>cpgsci(1);</code>	<code>plcol0(15);</code>
<code>cpgenv(0, nchan, min, max, 0, 0);</code>	<code>plenv(0, nchan, min, max, 0, 0);</code>
<code>cpglab("Channel", "Amplitude", "");</code>	<code>pllab("Channel", "Amplitude", "");</code>
<code>cpgsch(1);</code>	<code>plchr(0, 0.8);</code>
<code>cpgline(nchan, xval, amp[i]);</code>	<code>plline(nchan, xval, amp[i]);</code>
<code>cpgmtxt("T", -1.5, 0.02, 0, sourcename);</code>	<code>plmtex("t", -1.5, 0.02, 0, sourcename);</code>
<code>cpggpt(nchan, xval, phase[i], 17);</code>	<code>plsym(nchan, xval, phase[i], 17);</code>

## Installation

### Debian

For Debian Squeeze I installed

```
> apt-get install libplplot-dev libplplot9 plplot9-driver-cairo plplot9-driver-xwin
```

### OSX

You need to have cmake installed - I get cmake from brew - <http://mxcl.github.com/homebrew/>

Download the source code from sourceforge

```
svn co https://plplot.svn.sourceforge.net/svnroot/plplot/trunk plplot
```

To install I had to disable lots of stuff - your mileage may vary.... In the plplot directory:

```
mkdir build
cd build
cmake .. -DENABLE_python=OFF -DENABLE_wxwidgets=OFF -DENABLE_tcl=OFF -
DENABLE_tk=OFF -DPLD_wxwidgets=OFF
make
sudo make install
```

Disabling python was just because it could not locate Python.h - this may be a problem on my Mac

More recently to compile I had to run cmake as

```
cmake .. -DENABLE_ada=OFF
```

I also had to edit the cmake setup as per

<http://sourceforge.net/p/plplot/plplot/ci/772223c638ecf5dc740c9f3dd7a6883c6d2c83d2/>

## Compiling

plplot supports package config. A simple usage is

```
gcc `pkg-config --cflags --libs plplotd` prog.c -o prog
```

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