

News - 2020

new macros and bugfixes for the basic package.

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Part I.

pstricks – package

1. pstricks.sty – pstricks-pdf.sty

With the package pstricks-pdf you can now use

```
pdflatex --shell-escape <file>
```

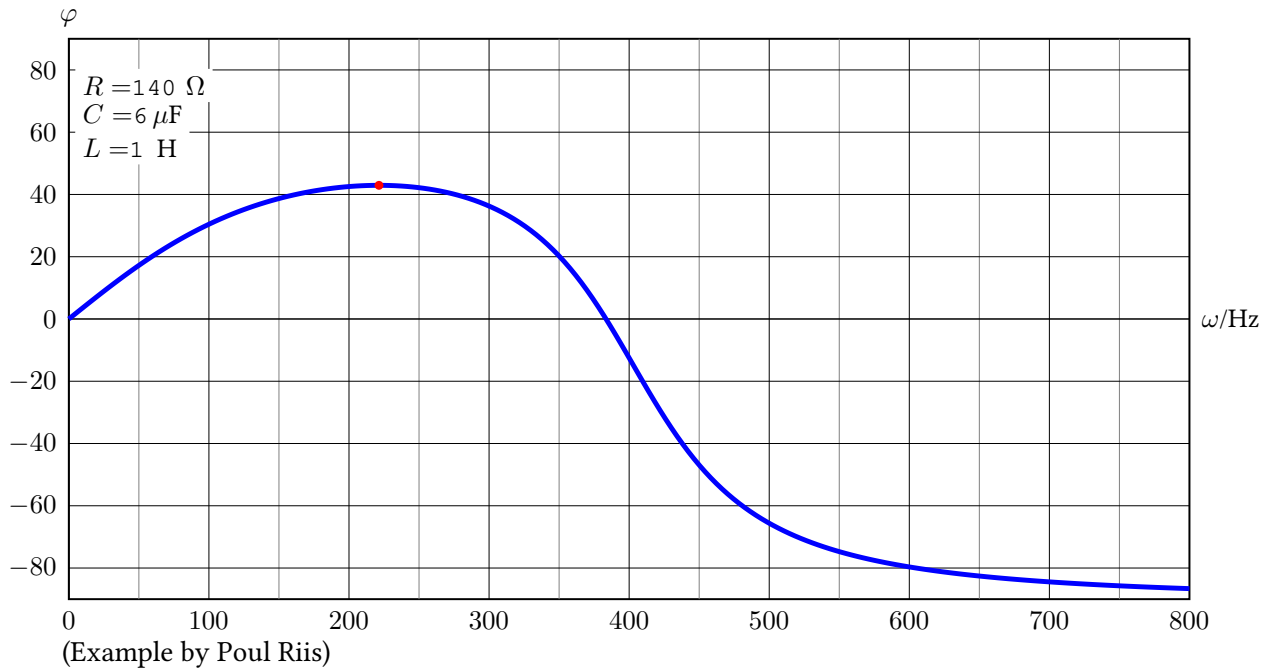
This document was created this way. Remember that you have to use the environment `postscript` if you do not use the environment `pspicture` or a lot of PS-code outside this environment:

```
\begin{postscript}
\pstVerb{/LL 1 def /RR 140 def /CCmy 6 def /RsQC RR dup mul 1000 div CCmy mul 1000 div def
/omegam LL RR div 1000 mul RR div CCmy div 1000 mul 1 sub sqrt RR mul 3 sqrt div LL div def
/phiomegafunc {/omega exch def LL RsQC sub omega CCmy mul 1000 div omega mul 1000 div
LL mul LL mul sub omega mul dup 0 ge {RR atan}{RR atan 360 sub} ifelse} def
/phimax omegam phiomegafunc def}
\begin{center}
\begin{psgraph}[axesstyle=frame,yAxisLabel=$\varphi$,xAxisLabel=$\omega$/Hz,
yticks=0 16cm,xticks=-90
90,subticks=1,Dy=20,Dx=100,xsubticks=2](0,0)(0,-90)(800,90){16cm}{8cm}
```

```

\psplot[linecolor=Blue1,plotpoints=200,linewidth=2pt]{0}{800}{x phiomegafunc}
\uput{0pt}[0](10,75){$R=\psPrintValue{RR}\hspace{2em}$\Omega$}
\uput{0pt}[0](10,65){$C=\psPrintValue{CCmy}\hspace{0.75em}$\mu$F}
\uput{0pt}[0](10,55){$L=\psPrintValue{LL}\hspace{0.75em}$\text{H}$}
\pscircle*[linecolor=Red1](!omegam phimax){2pt}
\end{psgraph}
\end{center}
\end{postscript}

```



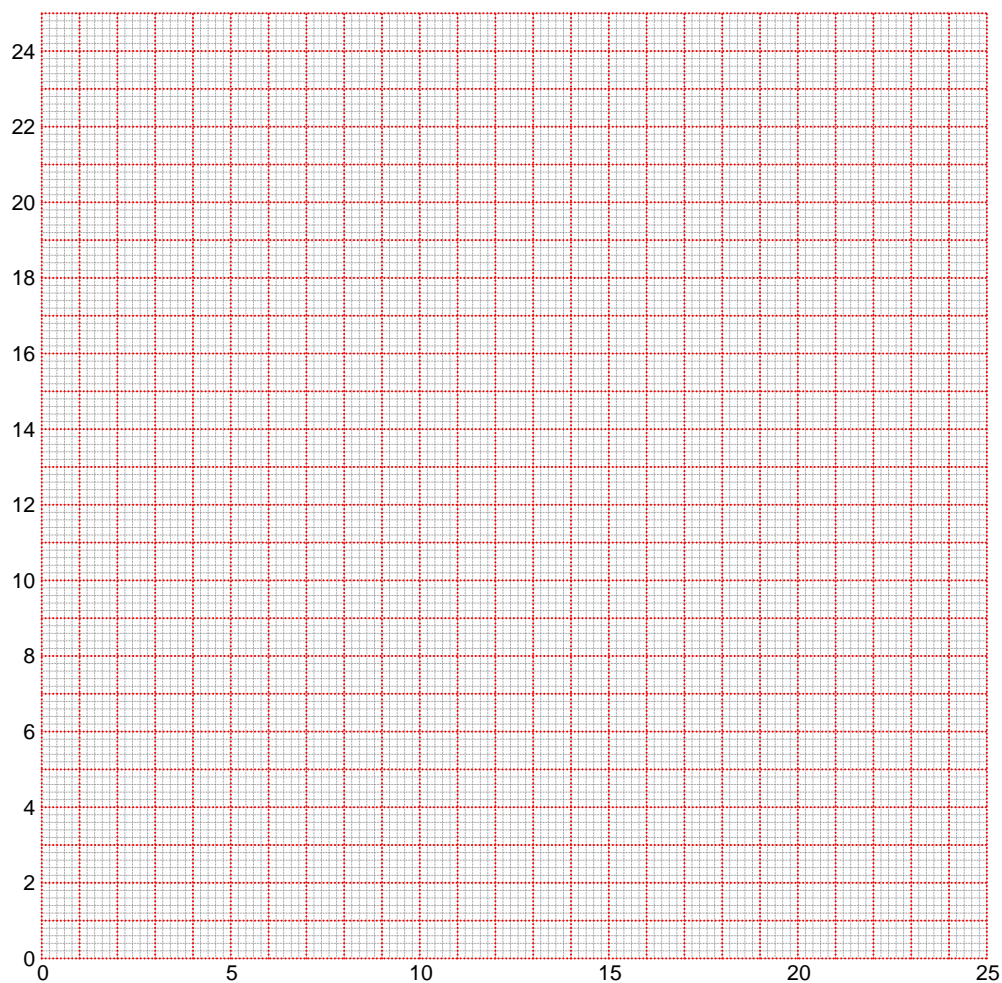
2. pstricks.tex (v. 2.99 – 2020/06/09)

New optional arguments `griddx` and `griddy`, which are only valid for `\psgrid`:

```

\psset{unit=5mm}
\newsstyle{gridstyle}{gridlabels=8pt, gridfont=Helvetica, gridcolor=red,
  subgridcolor=gray, subgriddiv=5, gridwidth=.8pt, subgridwidth=.4pt,
  griddots=10, subgriddots=5,
  griddx=5, griddy=2 }
\begin{pspicture}[showgrid](25,25)
\end{pspicture}

```



3. `pstricks.pro`

The function `Grid` supports `GridDX` and `GridDY`.

References

- [1] Michel Goossens et al. *The L^AT_EX Graphics Companion*. 2nd ed. Reading, Mass.: Addison-Wesley Publishing Company, 2007.
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- [3] Nikolai G. Kollock. *PostScript richtig eingesetzt: vom Konzept zum praktischen Einsatz*. Vaterstetten: IWT, 1989.
- [4] Herbert Voß. “Die mathematischen Funktionen von Postscript”. In: *Die T_EXnische Komödie* 1/02 (Mar. 2002), pp. 40–47.
- [5] Herbert Voß. *PSTricks – Grafik für T_EX und L^AT_EX*. 7th ed. Heidelberg and Berlin: DANTE – Lehmanns Media, 2016.
- [6] Herbert Voß. *PSTricks – Graphics for L^AT_EX*. 1st ed. Cambridge/UK: UIT, 2011.

- [7] Herbert Voß. *PSTricks Support for pdf*. 2002. URL: <http://PSTricks.tug.org/main.cgi?file=pdf/pdfoutput>.
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- [9] Herbert Voß. *ETEX Referenz*. 3rd ed. Heidelberg and Berlin: DANTE – lehmanns media, 2014.
- [10] Michael Wiedmann and Peter Karp. *References for T_EX and Friends*. 2003. URL: <http://www.miwie.org/tex-refs/>.