How to: produce simple figures (with Python)

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(code at `https://bitbucket.org/paugier/figures_articles`)

Part 1

Matplotlib with rcparams: simple and efficient

You do not need to use latex or beamer!

figure 11c (p.20): Matplotlib with latex

(article fonts)

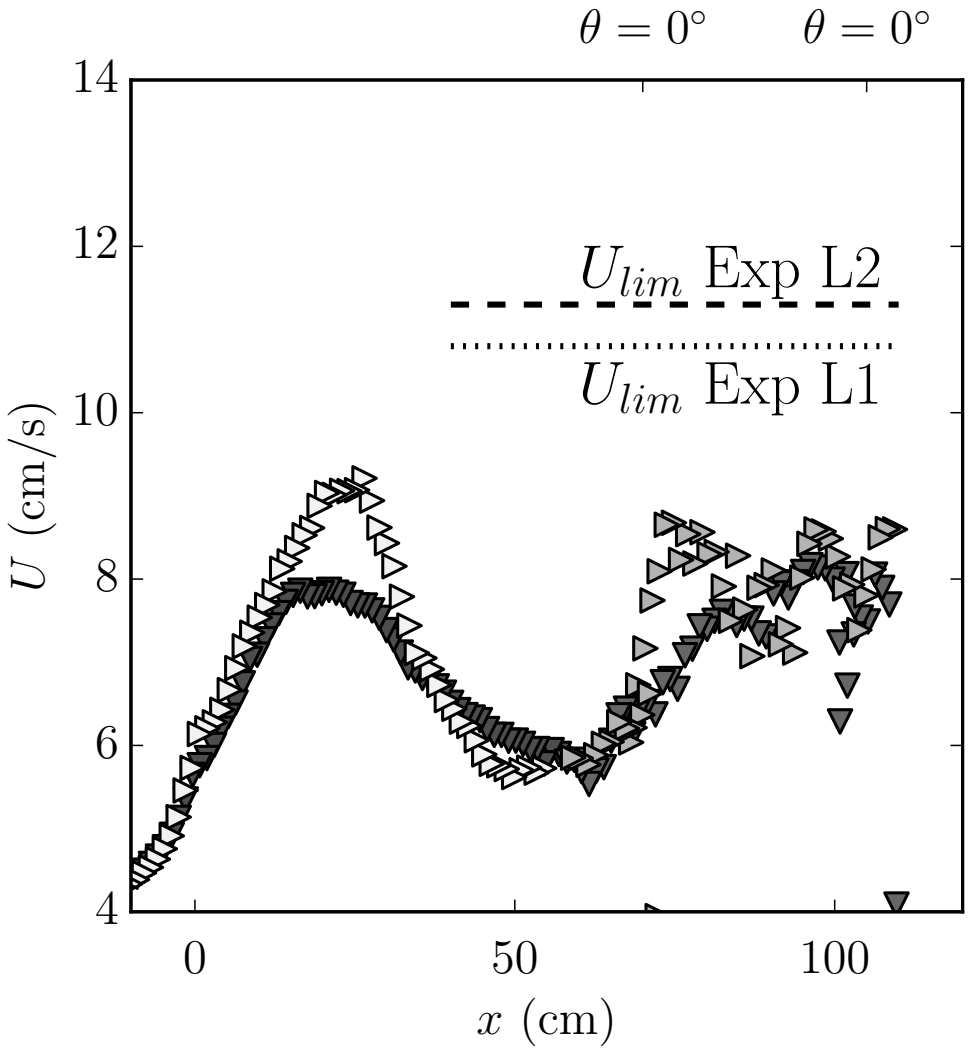


figure 11c (p.20): Matplotlib with latex

(beamer fonts)

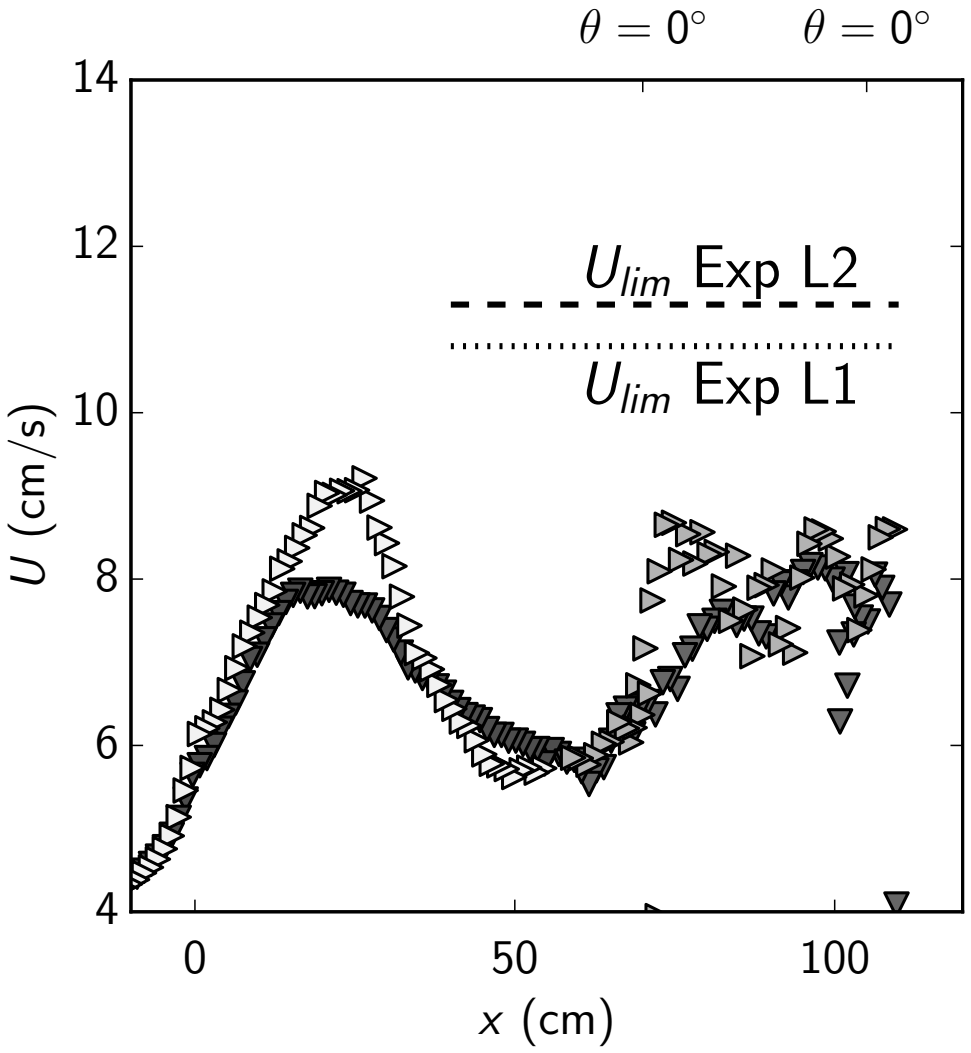


figure 11c (p.20): Matplotlib with latex

(beamer fonts)

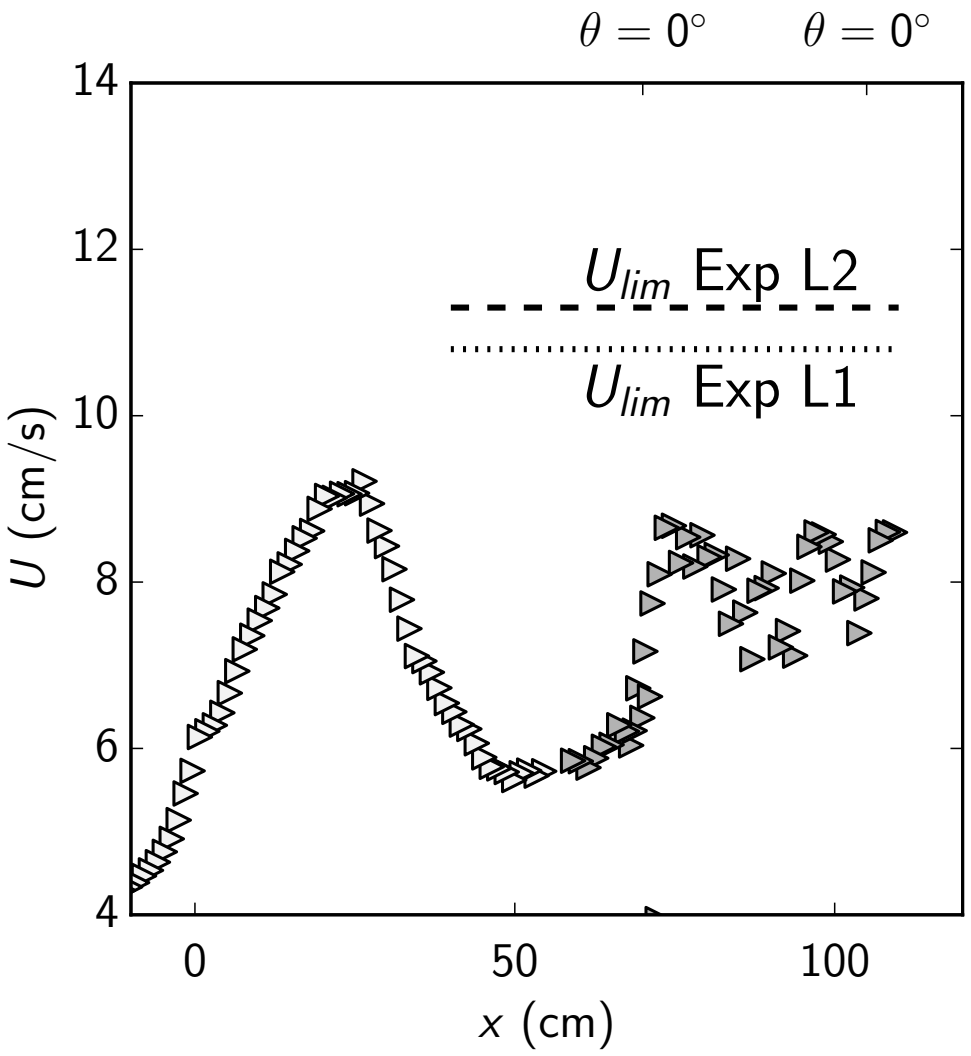
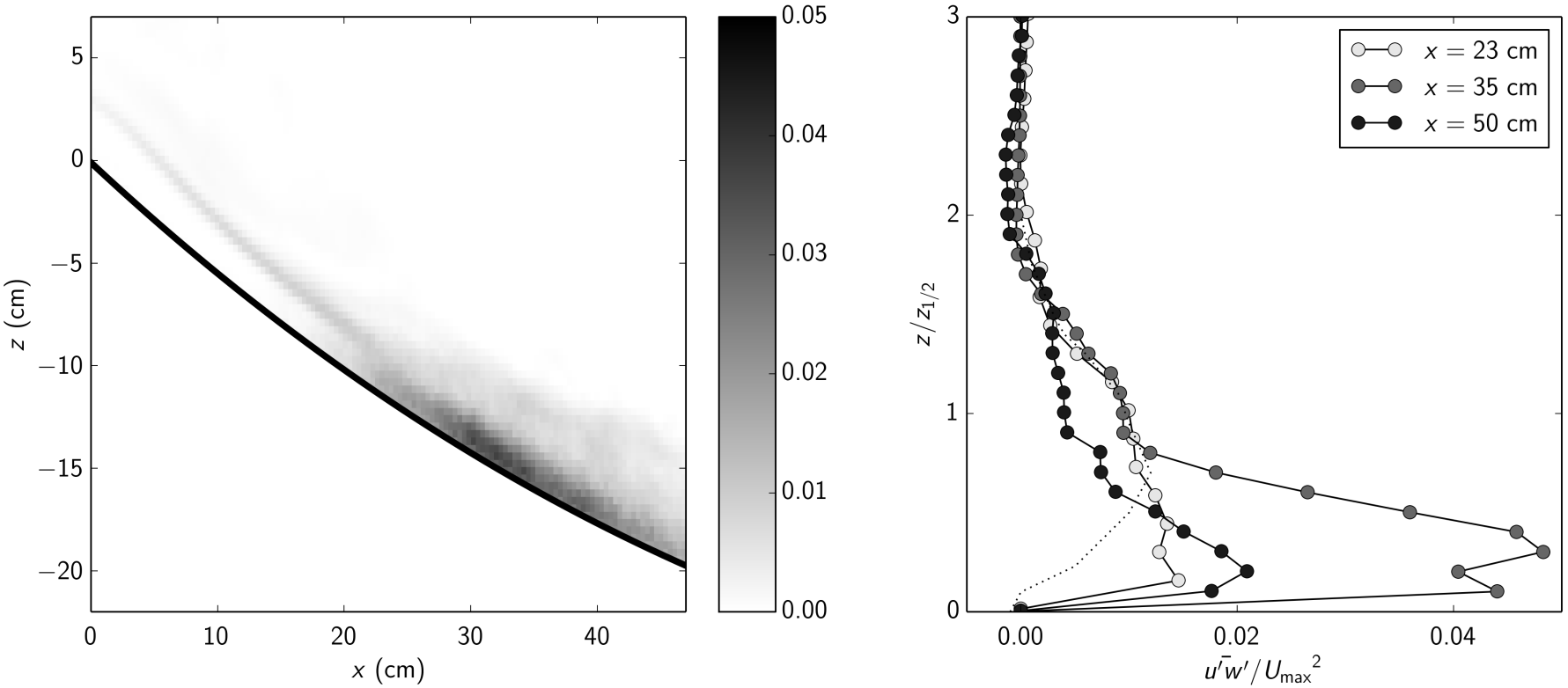


Figure 8ab (p. 18): Matplotlib with pcolormesh and colorbar

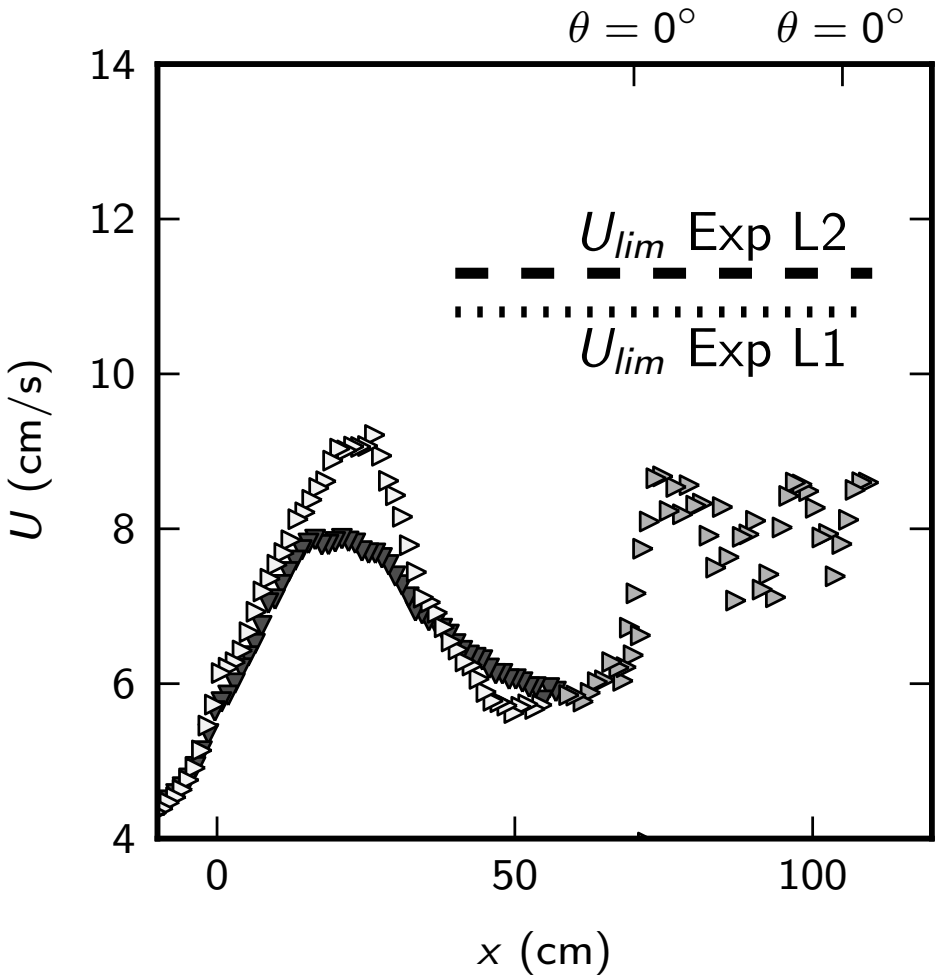


Part 2

More exotic...

Matplotlib figures can be saved in pgf

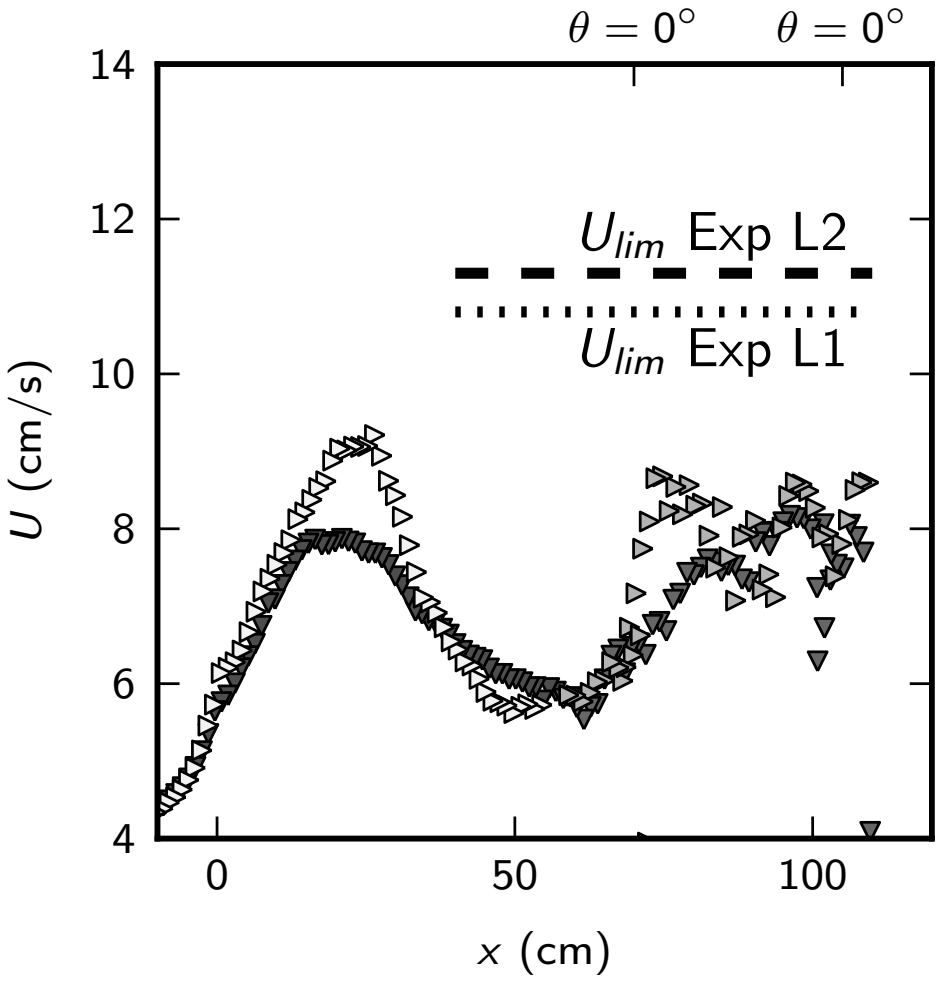
"portable graphics format", for insertion in latex



+ manually add `\only<2>{}` commands in the pgf file...

Matplotlib figures can be saved in pgf

"portable graphics format", for insertion in latex

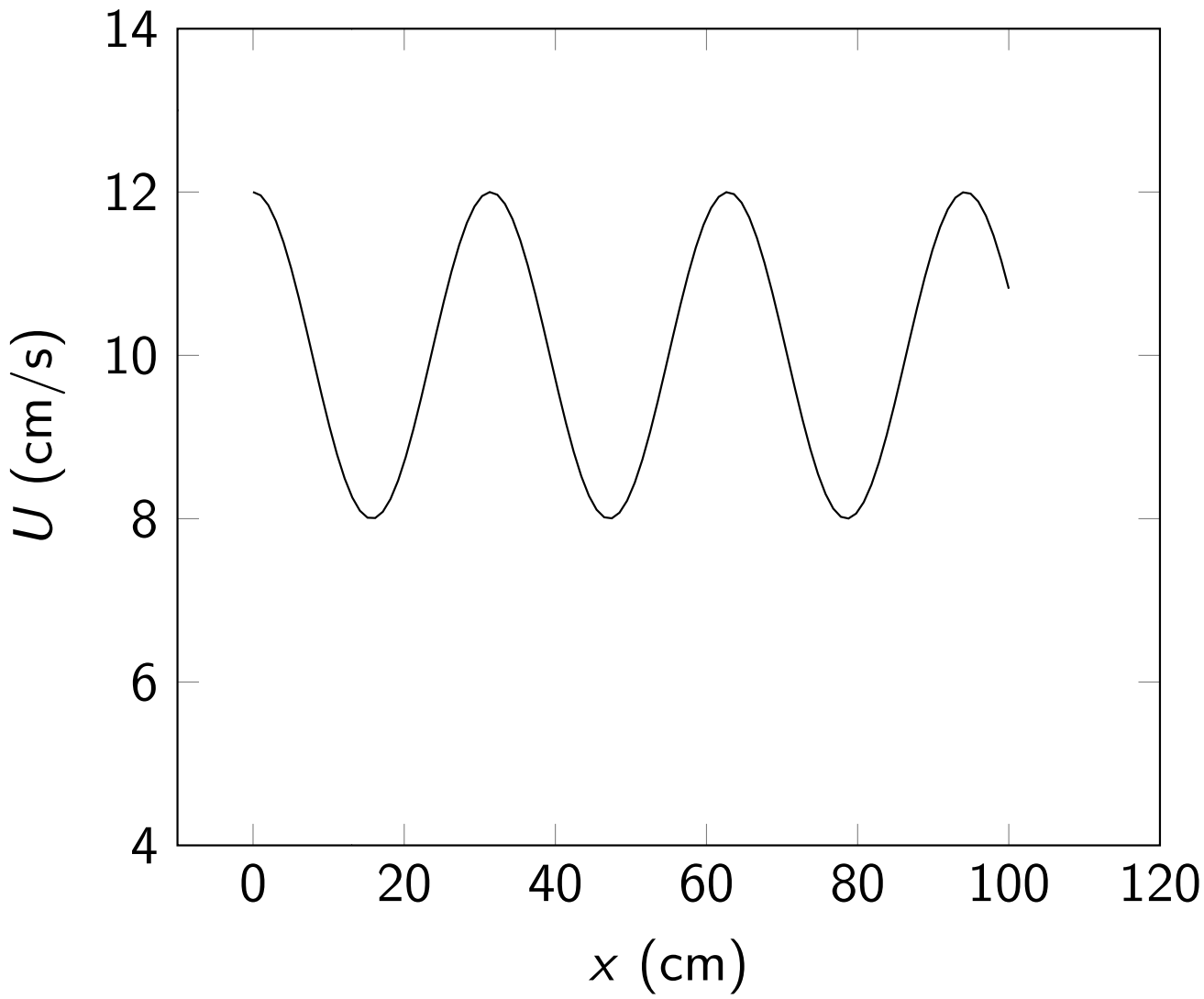


+ manually add `\only<2>{}` commands in the pgf file...

Matplotlib figures can be saved in svg (and also loaded!)

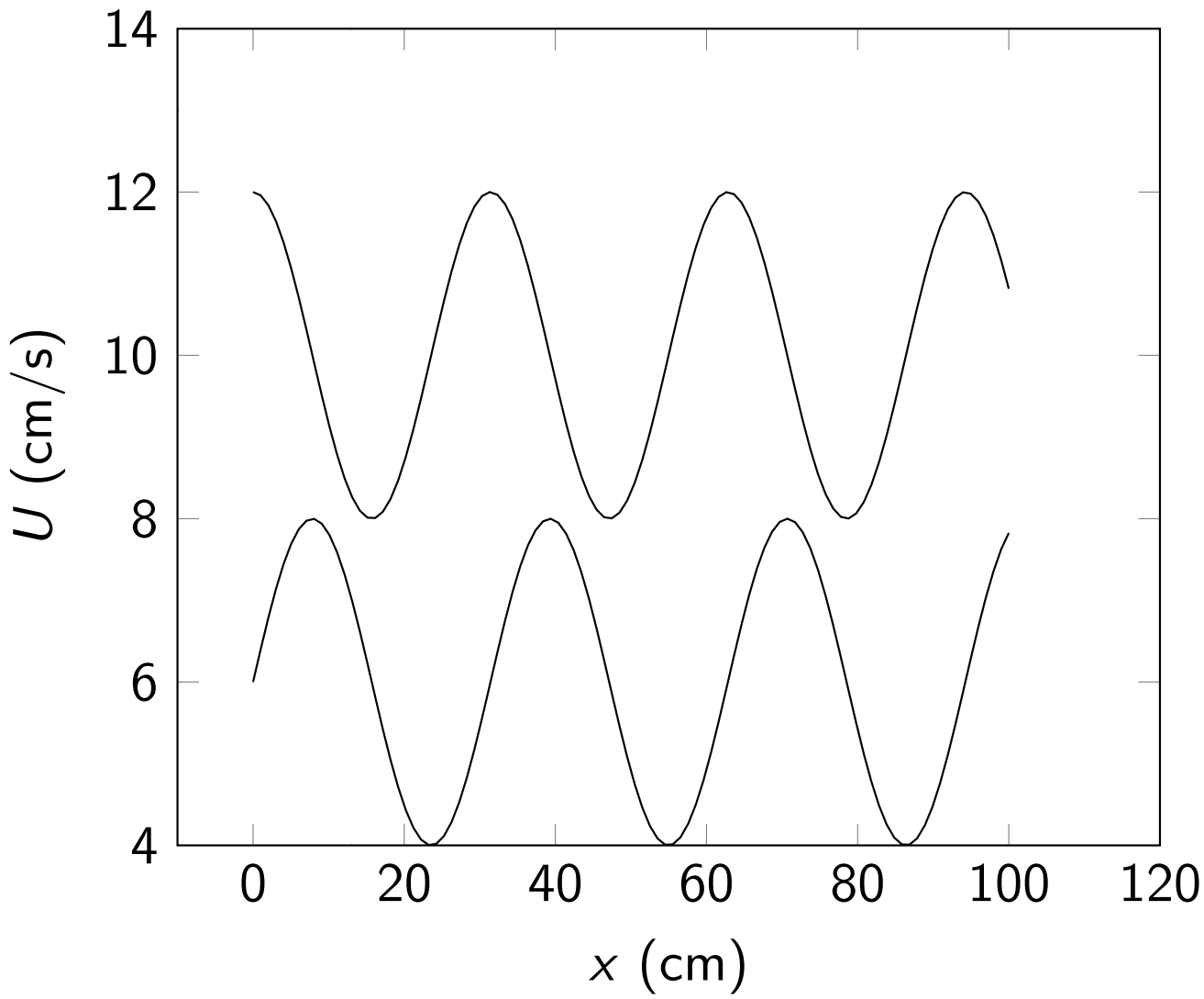
http://neuroscience.telenczuk.pl/?p=331

Matplotlib figures saved in tikz with matplotlib2tikz



+ manually add `\only<2>{}` commands in the tikz file...

Matplotlib figures saved in tikz with matplotlib2tikz



+ manually add `\only<2>{}` commands in the tikz file...

Conclusions

It is easy and efficient to produce publication-quality "simple" figures with Python and Matplotlib.

`http://matplotlib.org/`