

IN-CLASS WORK: TALK TOOLS

1. Sample File(s) for Latex Beamer:

Copy

```
~kvollmay/classes.dir/capstone_s2012.dir/talks.dir/beamer_example.tex
```

```
~kvollmay/classes.dir/capstone_s2012.dir/talks.dir/fig[1-3].eps
```

into your working directory. Have a look at `beamer_example.tex`.

2. Compile:

The commands for compiling this sample file and for looking at the resulting pdf-file are as comments at the beginning of `beamer_example.tex`. Since I teach you graphic tools (`xfig`, and `xmgrace`) with which you can make eps-files, choose option (A). Paste the commands on the command line and hit Enter.

3. Start Your Mini-Project Talk: Copy the `beamer_example.tex` to a second tex-file which will be for your mini-project talk. Change the title to the title of your talk and similarly change author, date and sections.

4. xmgrace

To have some data and an example `xmgr`-file copy

```
~kvollmay/classes.dir/capstone_s2012.dir/talks.dir/Noft_Moore.data
```

```
~kvollmay/classes.dir/capstone_s2012.dir/talks.dir/Noft_vonNeumann.data
```

```
~kvollmay/classes.dir/capstone_s2012.dir/talks.dir/fsqt.xmgr
```

To get started with `xmgrace` type on the command line `xmgrace &`. To pull in a dataset use Data → Import → ASCII and under Selection add `Noft_Moore.data` then click OK. Similarly pull in the dataset `Noft_vonNeumann.data`. I will show you next: data: labels, symbols, line symbols, axis changes: line width, label incl. size and tick marks, and legend positioning. To save an `xmgrace` session use File → SaveAs (use a filename which ends with `.xmgr`). It is important to use SaveAs the first time because default is to overwrite your data-file! For the second time saving you may use Save. To continue an `xmgrace` session use File → Open. To make an eps-file use File → Print setup and choose as device EPS. This only sets up the printing, to get the eps-file printed use File → Print.

You may also want to play some with the example `fsqt.xmgr`. Make a figure of $N(t)$ with the `Noft_Moore.data` which would satisfy the expectations on figures for scientific publications and talks. Make an eps-file and include it in your latex beamer file. If time is left you may also want to play some with `fsqt.xmgr`.

5. Picture From Screen: To make an eps-file of any part of your screen (e.g. of a DynamicLattice picture) use on the command line

```
import picturefilename.eps
```

and use the left mouse button to pick the area (drag & let go). This will create the file `picturefilename.eps`.

6. Mini-Project Talk: Plan your mini-project talk.

6a Define the system, i.e. define the game of life rules (if changed, define the new rules).

6b What did you “measure”?

6c Make the figures with your results (using `xfig`, `xmgrace`) and interpret/describe your results.

6d What are your main conclusions?