LUT course
Dynamic Online and Beamer Presentations in PDF using LaTeX and TeXPower

Exercise sheet 2

Exercise 4

Write down a mathematical proof of several steps which can be presented (preferably as a series of aligned equations) on one slide.

a) Use `\stepwise` and `\step` to present it step by step.

b) Do the same with `\dstep`.

c) Try to higlight some interesting parts of the step which is just being focused on.

Exercise 5

Create a new environment `stepitemize` which will automatically 'step through' its items.

a) Make it display its items 'step by step'.

b) Make it use `\dstep` for the same purpose.

c) Instead of hiding anything, make it use a special item symbol for the step currently active.

d) Underlay the currently active step with a coloured box.

Exercise 6

The following `pstricks` code will display a diagram of the function

$$\sin\left(x^{1+\frac{d}{100}}\right).$$

```
1  \begin{center}
2    \psset{xunit=.5pt}
3    \newcounter{d}
4    \setcounter{d}{0}
5    \begin{pspicture}(0,-1)(360,1)
6      \psplot[linewidth=1pt,plotpoints=1000]{0}{360}{x \thed\space
7      100 div 1 add exp sin}
8    \end{pspicture}
9  \end{center}
```

Make a presentation which will first show the diagram for the value $d = 0$, then after pressing a key cycle automatically through the values $1, \ldots, 100$ and stop at the value $d = 100$, then after pressing a key cycle back to $d = 0$.