

TEXPower — Dynamic Presentations with L^AT_EX

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Abstract In the talk, a bundle of L^AT_EX packages and classes is presented which provides an environment for designing *dynamic pdf presentations*, mainly for the purpose of displaying with a video beamer.

The heart of the bundle is the `texpower` package, providing

1. commands for *incremental display* of page contents;
2. commands for designing page backgrounds and ‘panels’;
3. commands for *navigation helpers*.

As the effects provided by `texpower` are implemented entirely based on the L^AT_EX kernel, without resorting to special effects like PostScript, TEXPower is independent of the method of *pdf generation* and doesn’t rely on external postprocessors or such. It is also completely independent of the *document class* used, though seminar-based classes harmonising well with the `texpower` package are part of the bundle.

Because of the unique way incremental display is implemented, it is sometimes harder in TEXPower than in other similar packages to keep ‘static’ parts of the page from ‘moving around’ during display. In fact, almost all pitfalls can be avoided by adhering to a number of simple ‘design rules’, which will be pointed out in the talk.

The up side of ‘doing it all in T_EX’ is the unique flexibility and customizeability of

- the *order* in which things are displayed and
- the *way* in which hidden/appearing things are displayed.

Concerning the order of display, the full range of L^AT_EX’s abilities for constructing case distinctions can be employed.

Concerning the way of hiding and displaying things, the possibilities range from things just appearing out of blank space via objects being replaced by other objects to ‘hidden’ text being displayed with ‘dimmed’ colors and ‘undimming’ incrementally. ‘Special effects’ like

objects flying around or growing into place are also possible, limited only by the ‘algorithmic’ capabilities of T_EX (and the performance of the computer running Acrobat ReaderTM).

T_EXPower is currently in pre-alpha state and will probably stay that way for some time, but the development release is quite stable and usable, and via the SourceForge site <http://texpower.sourceforge.net/>, access to updates and communication with developers is easy.