

Dynamic presentations using T_EXpower and PStricks

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A typical presentation consists of displaying a sequence of slides (a metaphor for screens) in a pre-determined order. This presentation is to demonstrate methods for preparing dynamic presentations in the following contexts:

1. Rather than showing a set of slides in pre-determined order, one may select the slides and their order after the presentation starts. This would likely be in response to questions from the audience.
2. If the discussion gets deep, it may be useful to visit a website or execute an external program.
3. A math professor might want to show a multi-line derivation one line at a time to focus attention to the current point of discussion.
4. An engineer might want to show a graphic depicting the assembling a device one part at a time.

The L^AT_EX packages used in this endeavor and their *URLs* follow.

Items 1. and 2. are implemented using the *hyperref* package, <http://www.ctan.org/tex-archive/macros/>

[latex/contrib/hyperref/](http://www.ctan.org/tex-archive/macros/latex/contrib/hyperref/). Extensive facilities for navigation within a document, between documents, and with the web are provided by *hyperref*.

Items 3. and 4. are implemented using the *T_EXpower* package, <http://texpower.sourceforge.net/>. T_EXpower is a L^AT_EX package providing incremental display and special effects similar to those found in Microsoft PowerPoint.

Item 4. assumes there are graphics to be displayed, and my examples use graphics produced by the *PStricks* package, <http://www.pstricks.de/>. PStricks provides a user friendly front end to the *PostScript* programming language. It is a generic TeX package providing expansive computational graphics capabilities. These are the most novel examples.