

PDF TRICKS IN L^AT_EX

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Overview

The Portable Document Format (PDF) has many end uses. Most users only consider PDF for static printable documents. However, Adobe has integrated many of the multimedia aspects of Flash.

Helpful Links

Links

- <http://www.uoregon.edu/~noeckel/index.html>
- <http://www.ctan.org/tex>
- <http://emacsworld.blogspot.com>

Examples

Examples

- <http://www.tug.org/texshowcase/#dynamics>
- <http://www.adobe.com/products/acrobat/readermain.html>

Basics

The packages needed to utilize the dynamic features of Portable Document Format (PDF) include:

- `hyperref`
- `geometry`
- `movie15`
- `animate`
- `cooltooltips`

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Basics

The packages needed to include cooltooltip commands:

- cooltooltips
- hyperref

Overview

The package `cooltooltips` is a macro that allows the developer of PDFs to include different interactive features. There are two commands that initiate cooltooltips:

- `\cooltooltip`
- `\cooltooltiptoggle`

Commands

- `\cooltooltip[<popup color>][<link color>]{<subject>}{<message>}{<url>}{<tooltip>}{<text>}`
- `\cooltooltiptoggle{<text>}`

Syntax for cooltooltip	
popup color	color of box around text
link color	color of box around hyperlink
subject	subject in popup window
message	text in popup window
url	hyperlink
tooltip	text displayed while mouse over link
text	text in hyperlink
Syntax for cooltooltiptoggle	
text	text in toggle button

Example

Syntax

```
\cooltooltip  
[0 0 1]  
\{Example}  
\{This is an example of a cool tooltip. Pretty cool, eh?}  
\{http://www.ctan.org/\}{Visit CTAN on the Web}  
\{This text\strut} is an example.
```

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Basics

The packages needed to include a mp4 or Flash multimedia are:

- movie15
- hyperref

Syntax

L^AT_EX processes the syntax for multimedia within the figure environment.

```
\begin{figure}[h]  
\includemovie[poster,text={text here}]{cm}{cm}{name of file}  
\end{figure}
```


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Basics

In a PDF, the `movie15` package creates video via frames of image files. Similarly, a PDF can use vector graphics for the frames to create motion within a document. The packages needed are:

- `animate`
- `graphicx`

Environment

- `\begin{animateinline} [<options>] {<frame rate>} ... \end{animateinline}`

Command

- `\animategraphics[<options>]{<frame rate>}{<file basename>}{<first>}{<last>}`

Example

Syntax

This animation is of the function $y = \exp(x)$.

```
\animategraphics[controls, loop,timeline=timeline.txt]{4}{exp_}{0}{8}!
```

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Overview

A PDF has several different styles of comments to add various information in a document.

Environment

- `\begin{pdfsidelinecomment}[<options>]{<comments>} ... \end{pdfsidelinecomment}`

Commands

- `\pdfcomment[<options>]{<comment>}`
- `\pdfmargincomment[<options>]{<comment>}`
- `\pdfmarkup[<options>]{<markup text>}{<comment>}`
- `\pdfsquarecomment[<options>]{<comment>}`
- `\pdfcirclecomment[<options>]{<comment>}`
- `\pdflinecomment[<options>]{<comment>}`

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Conclusion

Multimedia is imbedded into a PDF to transform a traditional static document into a dynamical document. The interaction of the document and the user, provides the developer the ability to include hyperlinks, popups, descriptions, etc. to enrich the document style.

QUESTIONS?