Presentation (`projector` class) TeX archive

gauthma

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Intro

This documents lists useful snippets for TeX presentations using the `projector` class.

Environments

For mathematics:

```
% --- math packages (in ArchLinux they're all part of TeXLive) ---
\usepackage{amssymb}    % for blackboard math (automagically loaded in article)
\usepackage{amsmath}    % has to come before eulervm, or things bork!
\usepackage{amsthm}     % required for proof environ and remark theoremstyle (et al.)
% --- END math packages ---

% math theorem environments
\newtheoremframe{theorem}{Theorem}
\newtheoremframe{corollary}{Corollary}
\newtheoremframe{lemma}{Lemma}
\newtheoremframe{definition}{Definition} % 'def' cannot be used as environ name
\theoremstyle{remark}
\newtheoremframe{remark}{Remark}
```

Example usage:

```
\begin{theorem}[(Euler's identity)] % Note the ( and ) in the optional name
    $e^{i\pi}+1=0$
\end{theorem}
```

Images (and other boxes)

Suppose you have an image of the British mathematician Andrew Wiles, in a file named `Wiles.jpg`. To put in a slide, with a caption underneath, you do it as follows:

```
\putbox{0.74\textwidth}{0.4\textheight}
{\graphicbox[scale=0.8, trim=2mm 6mm 2mm 5mm, clip=yes]{Wiles}}
\putbox{0.75\textwidth}{0.33\textheight}{Andrew Wiles}
```

In the `\putbox` command you specify how to the right and below of the slide's top left corner you want the top left corner of the image to be. Note that the `projector` class autoloads (among others) the `graphicx` class. As `\graphicbox` command options, you can scale the image, or trim it (i.e. set the amount of image to *remove*, from left, bottom, right and top sides, in this order); note that this requires the `clip` option to be set.

Backgound image

This section describes how to add a faded background image to all slides, except to the title and question mark ones. Let us say your image is named `bg.pdf`.

This goes in the preamble:

```
\usepackage{eso-pic}
\newcommand\BackgroundPic{%
\AtStockLowerLeft{%
\put(0,0){\parbox[b][\paperheight]{\paperwidth}{{\transparent{0.1}%
    \hspace*{0.98\pagewidth}\vspace{-4em}%
    \includegraphics[scale=2.5,keepaspectratio]{haslab-logo_vectorial}}%
}}}}
```

You will need to tweak the `\vspace` and `\hspace` lens to place the image properly (I usually put it a little past the right edge of the slides). After the title page stuff, add the following:

```
\clearpage
\AddToShipoutPicture{\BackgroundPic}
```

The `\clearpage` is necessary, otherwise the background is added to all slides, including title and question mark. Then, just before the `\begin{slide}` of the question mark, add the following:

```
\ClearShipoutPicture
```

You may need to compile twice to make sure some things (e.g. transparency) are working properly. Other than that, you are done.