Use of `phslides` LATEX style

The `phslides` style file is a style sheet for the LATEX slide document class that puts fancy headers and footers on slides using either black and white or colour graphics.

The general slide style was originally designed by Nick Radcliff of EPCC. A major re-write and addition of colour control by Will Hossack.

The Basics

To use the style the LATEX document file **must** start with:

```
\documentclass[a4paper]{slides}
\usepackage{phslides}
```

the `phslides` style also includes the `epsfig` and `ifthen` style files.

You can then format slides with the normal LATEX slide format as detailed in chapter 5.2 of the LATEX Users Guide using the `slide` and `overlay` environments.

Note: The `overlay` environment has the identical header and footers as the `slide` *except* the slide number.

The `note` and `time` commands also work as described on page 83 of the LATEX manual.

Colour slides can be produced by adding `\colourslides` to the preamble. This uses the colour versions of the header and footer graphics and also switches on a whole series of colour features which are details in the following sections.

Colour in implemented via the LATEX `color` option using the `dvips` colour driver. The effect of this is that coloured text is **not** correctly displayed by `xdvi` but it is correct when processed by `dvips`ed and then either viewed by a POSTSCRIPT previewer or printed to a colour POSTSCRIPT printer. This also effects the `white` text in `overlays`, which is again correct when printed. This is a "feature" of `xdvi` and I do not see any way round this.

Header and Footer

These are three running header/footers, these being `\talkseries`, `\talktitle` and `\talkdate` detailed as follows:

`\talkseries{text}` The *left header* of each slide. If not set then defaults to SCHOOL OF PHYSICS. For lecture slides it is usually used to denote the *lecture course*.

`\talktitle{text}` The *left footer* of each slide. In not set then default is blank. Usually used to denote the actual talk title.

`\talkdate{text}` The *right footer* of each slide. In not set defaults to `\today` which gives the date the file was last LATEXed.

In addition the slide number appears in the footer the left of the date. This always appears, but it value can be controlled by:

`\resetslidenumber` This resets the number so that the *next* slide is numbered -1-.

\setslidenumber{n} Sets the counter so that the *next* slide is numbered -n-.

When using \colourslides the colours of the header and footers can be controlled by

\headtextcolour{colour} changes the colour of the \talkseries header test. Default is darkred (defined below).

\footertextcolour{colour} changes colour of the footer text, which includes \talktitle, \talkdate and slide number. Default is darkred.

\headerrulecolour{colour} changes the colour of the header rule. Default is blue.

\footerrulecolour{colour} changes the colour of the footer rule. Default is blue

The general text colour is controlled by the standard LATEX control \color{colour} with the alternative definition \colour{colour}. Default is darkblue.

These commands must be either in the **preamble** *or* **between** slides. Putting these inside a slide or overlay environment will produce unpredictable results.

Header and Footer Graphics

This style puts a graphic in the top-left and bottom-right of each slide. The options are:

\crestgraphics University of Edinburgh of 30mm diameter in both locations. Monochrome or colour crests used as appropriate. This is the DEFAULT graphic.

\blankgraphics Simple 30mm square with enclosed circle monochrome graphics in both locations. Used to "proof" slides, or minimise the size of the output. Good for 4-up handouts.

\aographics as \crestgraphics but bottom-right crest replaced by Applied Optics logo.

\scifungraphics as \crestgraphics but bottom-right crest replaced with the SCIFUN rectangular logo.

Alternative graphics can be used using the two lower level commands of:

\toprightgraphic{monochrome-psfile}{colour-psfile}{x-size}{y-size}

\bottomleftgraphic{monochrome-psfile}{colour-psfile}{x-size}{y-size}

In both cases the four parameters are the filenames of the monochrome and colour encapsulated Postscript files and the size of the required graphics. The actual size is controlled by x-size *only* while y-size is used to control the location of the header and footer rules. For a square (or circular) graphic x-size and y-size should be the same (the recommended size is 30mm). For rectangular graphics y-size/x-size should be set to the aspect ration of the graphic. For strange shaped graphics a bit of "trial-and-error" is often needed.

Extra Margins

The default margins are designed for slides with the centre of the corner graphics 25mm from the edges of the paper. This work well for A4 portrait slides with 30mm graphics. These margins can be added to with three commands:

`\slideleftrightmargin{length}` Add extra `length` to left and right margins (left and right margins are always equal).

`\slidetopmargin{length}` Add extra `length` to top margin.

`\slidebottommargin{length}` Add extra `length` to bottom margin.

Slide Orientation

The default operation is A4 portrait slides, which are good for lecture material. The `landscape` option is available by

```
\documentclass[a4,landscape]{slides}
\usepackage{phslides}
```

These **must** be printed with the

```
dvips -t landscape <file.dvi>
```

The resultant slides tend to be rather too wide for most overhead projectors and it is advised that `\slideleftrightmargin` command is used to increase the left and right margins by about 20mm.

Colour Definition

The predefined colours are:

1. Monochromes `black` and `white`

2. Primary colours `red`, `green` and `blue`

3. Complementary colours `cyan`, `yellow` and `magenta`

4. Default slide colours of `darkred` $(.65, 0, 0)$, `darkblue` $(0, 0, .65)$ and `darkgreen` $(0, .65, 0)$

Other colours can be defined with the `\definecolor`. See page 224 of LaTeX manual for details.

The `\pagecolor` command to set background page colour does work but there is currently a problem with the colour University crest. It is contained in white square which looks rather odd. This may be possible to fix with suitable editing of the relevant Postscript file.

Slide Format Commands

To try and maintain a common format in a large set of slides the following macros have been added.

`\slidetitle{text}` gives a centred title at the current location using the `center` environment. The style and colour of the title are controlled by the following macros.

`\slidetitlestyle{style}` controls the font style of the title. The default is `\large\bf`.

`\slidetitlecolour{colour}` controls the colour of the title, when `\colourslides` are used. The default is `green`.

Postscript macros

It assist with including encapsulated Postscript files the follows set of simple macros have been includes:

`\Piccx{postcript-file}{x-size}` inserts a centered eps file where the size of the file is controlled `x-size` parameter.

`\Piccy{postcript-file}{y-size}` inserts a centered eps file where the size of the file is controlled `y-size` parameter.

The location of the Postscript files can also be changed with the command:

`\PSlocation{directory}` which will result in `\Piccx` and `\Piccy` macros looking for their postscript files in specified directory rather that the current one. People wanting to use this feature are advised to look at the code for these macros and work out what this feature does for themselves, (or not use it).

Will Hossack