The **plantslabels** package

Merciadri Luca

April 11, 2010

Contents

1	Introduction	2
2	Use 2.1 Loading the Package	2 2 2
3	Examples 3.1 Practical Example	3
4	Implementation	4
5	Limitations	4
6	Remarks	4
7	Bugs	4
8	Version History	5
9	Contact	5
10	Credits	5

1 Introduction

This package (v1.0) helps you writing plants' labels when needed. For example, you may want to give a label to each plant of your collection.

2 Use

2.1 Loading the Package

To load the package, please use

\usepackage{plantslabels}

2.2 Available Options

The set of options is currently empty.

3 Examples

There is only one command in this package: \plant. This command takes 9 arguments, and only the three first are mandatory. Here is the syntax:

```
\plant{cols_labels}{rows_labels}{no_labels}{generic_plant_name}
{generic_price}{generic_currency}{$generic_temperature$}
{generic_substratum}{generic_picture}
```

where

1. cols_labels is the number of cols of labels,

Mandatory!

2. rows_labels is the number of rows of labels,

Mandatory!

no_labels is the number of labels (under the condition cols_labels × rows_labels = no_labels),

Mandatory!

- 4. generic_plant_name is the plant's name which will be written on each of the no_labels labels,
- 5. generic_price is the plant's price which will be written on each of the no_labels labels,
- 6. generic_currency is the price currency which will be written on each of the no_labels labels, after generic_price,
- 7. \$generic_temperature\$ is the temperature which will be written on each of the no_labels (it should be $t_{\min} \to t_{\max}$, *i.e.* the min and max temperatures for the plant),
- 8. generic_substratum is the plant's substratum which will be written on each of the no_labels labels,
- 9. generic_picture is the plant's picture which will be drawn on each of the no_labels labels.

As all the arguments after no_labels are not mandatory, you can skip them. For this, you need to write brackets, though. For example,

3.1 Practical Example

Let's say that you have two kinds of plants that you want to label: "Myplant1" and "Myplant2." One habitually lives in the desert, and the other lives in tropical regions. You have, say, 2 specimens of the first, and 4 of the second. You can invoke, assuming cactus.eps is your image for the first one, that you have no image for the second one, and that they respect the conditions mentioned below:

4 Implementation

Here is the code of plantslabels.sty:

```
%% This is file 'plantslabels.sty' v1.0 by Merciadri Luca.
      \label{labels} $$ \Pr SOptions To Package {new dimens} {labels} \\ Require Package {labels} [2003/05/22] \\ Require Package {graphicx} [2005/12/01] 
      LeftPageMargin=2mm% These four parameters give the RightPageMargin=2mm% page gutter sizes. The outer edges of TopPageMargin=2mm% the outer labels are the specified BottomPageMargin=2mm% distances from the edge of the paper. InterLabelColumn=lmm% Gap between columns of labels InterLabelRow=1mm% Gap between rows of labels LeftLabelBorder=5mm% These four parameters give the extra RightLabelBorder=5mm% space used around the text on each TopLabelBorder=5mm% actual label.
17
19
       \newsavebox{\mybox}
      \newcommand{\lm@measurebox}[5]{%
\sbox\mybox{%
\begin{tabular}{cc}
\ifs\relax#1\relax\else \textbf{Name} & \textit{#1}\\ \fi
\ifs\relax#2\relax\else \textbf{Price} & #2\, #3\\ \fi
\ifs\relax#4\relax\else \textbf{Temperature} & #4\\ \fi
\ifs\relax#5\relax\else \textbf{Substratum} & #5\\ \fi
\end{tabular}%
25
27
31
33 }
     35
37
     39
41
43
45
47
49
51
55
      }
\relax
57
```

5 Limitations

This package has currently no limitation.

6 Remarks

The temperature unit is habitually so obvious that you do not need to specify it manually.

7 Bugs

Not yet.

8 Version History

1. v1.0: package is introduced to the LaTeX world.

9 Contact

If you have any question concerning this package (limitations, bugs, ...), please contact me at Luca.Merciadri@student.ulg.ac.be.

10 Credits

Thanks to Philipp Stephani and Enrico Gregorio for their answers at

http://groups.google.com/group/comp.text.tex/browse_thread/thread/5703b5328b93a000#.