paperT_EX class: creating newspapers using L^AT_EX

Ignacio Llopis lloptor@gmail.com Polytechnic University of Valencia

Version v1.2b, 2010/06/30

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1 Introduction

paperTEX class is a LaTeX 2_{ε} class that allows you to create a paperTEX newspaper. The output document has a front page and as many inner pages as desired. News appear one after another, telling the type, number of columns, heading, subheading, images, author and so forth. It is possible to change the aspect of (almost) everything therefore it is highly customizable. Commands to add different titles, headings and footers are also provided.

This class uses features from many other IATEX packages and creates new commands and environments to create your own publication. I decided to write my own class because of my language problems using a plain TEX class called newsletr by Hunter Goatley. I have used paperTEX working together with a Perl script that fills the whole TEX source file with database information and compiles the document obtaining a PDF. This process does not require any designer or programmer thus you could use paperTEX in a blog or website system.

This manual is typeset according to the conventions of the LATEX DOCSTRIP utility which enables the automatic extraction of the LATEX macro source files.

Section 2 describes the usage of the class.

2 Usage

To create a paperTEX newspaper just load the class as usual, with

 $\documentclass[class-options]{papertex}$

at the beginning of your your LATEX 2_{ε} source file. The [class-options] are as described in section 4.

From this point it is possible to include packages and renew class commands described in section 3.

2.1 Front page

frontpage

As every newspaper, paperTEX has its own front page. It includes main headings, an index, the newspaper logo and other useful information. This environment should be the first you use within paperTEX class but it is not mandatory, maybe you just want to create a newsletter.

\firstimage \firstnews The first two commands you can use inside the frontpage environment are \firstimage and \firstnews which include, respectively, the main image and the main heading in the front page. The first one takes two arguments $\langle image \rangle$ and $\langle description \rangle$. Notice that second argument is optional and it declares the image caption; $\langle image \rangle$ defines the relative path to the image. In order to include the first piece of news use

```
\verb|\firstnews{|}\langle title\rangle| = \langle opening\rangle| = \langle time\rangle|
```

first two arguments are mandatory and represent the heading and the opening paragraph. Las argument is optional (you can leave it blank) and indicates the time when news happened.

\secondnews

The second piece of news is included using the command \secondnews just as the first news. The main differences are that this second piece has two more arguments and it does not include an image.

 $\scondnews{\langle title \rangle}{\langle subtitle \rangle}{\langle opening \rangle}{\langle pages of \rangle}{\langle time \rangle}$

The new arguments $\langle subtitle \rangle$ and $\langle pages of \rangle$ define a subtitle and the name of the section for this piece of news.

\thirdnews

The third piece of news is the last one in the paperTEX front page. It works like the \secondnews command but it is possible to include an image within the text.

$$\thirdnews{\langle title \rangle}{\langle subtitle \rangle}{\langle opening \rangle}(\langle image \rangle){\langle pages of \rangle}{\langle time \rangle}$$

Where $\langle image \rangle$ indicates the relative path to the image. The other arguments meaning is the same as \secondnews command.

indexblock
authorblock
weatherblock

The front page includes three information blocks besides the news: indexblock which contains the index, authorblock which includes information about the author and a weatherblock containing a weather forecast. All these three environments are mostly a frame in the front page therefore they can be redefined to fit your personal wishes but I kept them to give an example and to respect the original paperTEX format.

\indexitem

The indexblock environment contains a manually edited index of paper T_EX . It takes one optional argument $\langle title \rangle$ that places a title over the index block. To add entries inside the index just type

```
\indexitem{\langle title \rangle}{\langle reference \rangle}
```

inside the environment. The $\langle title \rangle$ is the index entry text and the $\langle reference \rangle$ points to a news inside paperTEX. It will be more clear when you read subsection 2.2. In order to get a correct output, it is necessary to leave a blank line between index items.

The authorblock environment can include whatever you would like. I called it authorblock because I think it is nice to include some author reference in the front page: who you are, why are you doing this... This environment creates a frame box in the bottom right corner of the front page with your own logo at the top.

\weatheritem

Finally, the weatherblock lets you include a weather forecast. It takes one optional argument $\langle title \rangle$ that places a title over the weather block. It can fit up to three weather icons with maximum and minimum temperatures, description and name. To add each of the weather entries type the following

```
\weatheritem(\langle image \rangle) \{\langle day-name \rangle\} \{\langle max \rangle\} \{\langle min \rangle\} \{\langle short-desc \rangle\}
```

The first argument indicates the path to the weather icon (i.e. sunny or snow)¹, $\langle day\text{-}name \rangle$ like Monday, $\langle max \rangle$ and $\langle min \rangle$ are the highest and lowest day temperatures and $\langle short\text{-}desc \rangle$ is a brief description of the weather conditions: partly cloudy, sunny and windy...

2.2 Inside

Once we have created the front page we should include all news inside our newspaper. paperTEX arranges all news one after each other, expanding headings all over

¹You can download a nice weather icon-set from http://www.weather.com.

the page and splitting the news text in the number of columns we wish. There are three different environments to define a piece of news: the news environment described in section 2.2.1, the editorial environment 2.2.2 for opinion news and the shortnews environment explained in 2.2.3.

2.2.1 The news environment

news The main environment to include a piece of news is called news. It takes five arguments that set up the headings and structure of the news.

```
\begin{news}{\langle num\text{-}of\text{-}columns\rangle}{\langle title\rangle}{\langle subtitle\rangle}{\langle pagesof\rangle}{\langle label\rangle}{\ldots\langle text\rangle\ldots}$ \\ \\ \begin{news}{\langle num\text{-}of\text{-}columns\rangle}{\langle title\rangle}{\langle subtitle\rangle}{\langle subtitle\rangle}{\langle pagesof\rangle}{\langle label\rangle}{\langle num\text{-}of\text{-}columns\rangle}{\langle title\rangle}{\langle subtitle\rangle}{\langle subti
```

The first argument $\langle num\text{-}of\text{-}columns \rangle$ sets the number of columns the news will be divided whereas $\langle label \rangle$ is used when pointing a news from the index in the front page. The rest of the arguments are easy to understand.

Inside the **news** environment, besides the main text of the news, it is possible to include additional information using several class commands.

The \authorandplace{ $\langle author \rangle$ }{ $\langle place \rangle$ } inserts the name of the editor and the place where the news happened in the way many newspapers do. Another useful command is \timestamp{ $\langle time \rangle$ } which includes the time and a separator just before the text. These two commands should be used before the text because they type the text at the same place they are executed.

To include images within the text of a news, paperTEX provides an \image command. Since multicol package does not provide any float support for its multicol environment, I created a macro that includes an image only if that is possible, calculating if there is enough space for the image. It is not the best solution but it works quite well and I could not find a better one. To include an image use the command and its two arguments: the relative path to the image and a short description.

```
\label{limited} $$ \simeq (\langle image \rangle) {\langle description \rangle} $$
```

Within the text of the news, it is possible to add column and expanded titles. The main difference between them is that the first one keeps inside the width of a news column whereas the second expands all over the width of the page, breaking all the columns. Their use is analogous, as follows

```
\columntitle\{\langle type \rangle\} \{\langle text \rangle\} \expandedtitle\{\langle type \rangle\} \{\langle text \rangle\}
```

These two commands use fancybox package features. That's why there are five different types of titles which correspond mainly with fancybox ones: shadowbox, doublebox, ovalbox, Ovalbox and lines.

\authorandplace \timestamp

\image

\columntitle \expandedtitle

2.2.2 The editorial environment

editorial

In addition to the news environment, one can use the editorial environment to create editorial or opinion texts. The main feature is that it transforms the style of the heading. Although this environment accepts all the commands news takes, it does not make any sense to use the \authorandplace command within it since it includes an author argument. To create an editorial text use

```
\begin{equation} \begin{equation} \aligned for $$ \langle num-of-columns \rangle $$ (\langle title \rangle) $$ (\langle author \rangle) $$ (\langle label \rangle) $$ ... $$ (author) $$ (\langle label \rangle) $$ ... $$ (author) $$ (\langle label \rangle) $
```

All arguments have the same meaning as news environment (see 2.2.1).

2.2.3 The shortnews environment

shortnews

The **shortnews** environment creates a block of short news. Althought it has its own title and subtitle, each piece of news within it may have a title. To use it just type:

```
\begin{shortnews}{\langle num\text{-}of\text{-}columns\rangle}{\langle title\rangle}{\langle subtitle\rangle}{\langle label\rangle}\\ \dots\\ \begin{shortnews}\\ \langle title\rangle}{\langle text\rangle}\\ \dots\\ \begin{shortnews}\\ \langle text\rangle}{\langle text\rangle}\\ \dots\\ \begin{short
```

You can also specify the number of columns of the block like editorial and news environments. To add a piece of news inside the shortnews use the \shortnewsitem, indicating a title and the text of the issue.

2.2.4 Commands between news

\newssep \newsection

There are two commands you can use among the news inside paper TeX: \newssep and \newsection. The first one does not take any parameter and just draws a line between two news. The second creates a new PDF bookmark and changes the content of \papertex@section to the new \(\section name \). From the point it is used, all news which follow will be grouped within the new section.

```
\newsection{\langle section \ name \rangle}
```

3 Customization

paperTEX includes many commands which can be used to customize its aspect, from the front page to the last page. I will list them grouped so it is easy to find them. Treat them as standard LATEX commands, using \renewcommand to change their behaviour.

Front page

\logo \mylogo \minilogo When creating a newspaper, everyone wants to show its own logo instead of paperTEX default heading. To achieve this, you can proceed in two different ways: redefining the entire \logo command or redefining \logo to \mylogo which takes one mandatory argument, $\langle whatever \rangle$, and keeps the edition name, date and time in the heading space just under $\langle whatever \rangle$. You can, for example, insert an image (height up to 1.5cm / 0.6in) or some formatted text. Another command relating to your logo is \minilogo which defines the small logo that appears inside the airlock's (see 2.1).

\edition \edition

The edition text has to be declared in the preamble of the document. One important thing to know is that \author, \date and \title have no effect inside paperTEX since the newspaper date is taken from \today command and the other two are only for the title page (if using \maketitle).

\indexFormat
\indexEntryFormat
\indexEntryPageTxt
\indexEntryPageFormat
\indexEntrySeparator

When defining the index in the front page, there are several commands to customize the final index style. \indexFormat sets the format of the title; \indexEntryFormat, the format of each index entry; \indexEntryPageTxt and \indexEntryPageFormat lets you define which is the text that goes with the page number (i.e. page, p., pág.) and its format. Finally, paperTEX creates a thin line between index entries, you can redefine it using \indexEntrySeparator. To get the index with papertex@indexwidth is provided.

\weatherFormat \weatherUnits

Relating to the weather block, the title format can be changed redefining \weatherFormat. In order to customize the format of the temperature numbers and their units it is necessary to redefine \weatherTempFormat and \weatherUnits respectively.

*TitleFormat
*SubtitleFormat
*TextFormat

The main news that appear in the front page can change their formats. To obtain that there are three standard commands to modify the title, subtitle and text style. You just have to replace the star (*) with first, second or third depending on which news you are editing. Note that first piece of news has no subtitle therefore it does not make any sense to use the non-existent command \firstSubtitleFormat.

\pictureCaptionFormat \pagesFormat

Two other elements to configure are the picture captions and the pages or section format in the entire document. To proceed just redefine the macros \pictureCaptionFormat and \pagesFormat.

Inside the newspaper

\innerTitleFormat \innerSubtitleFormat \innerAuthorFormat \innerPlaceFormat The news inside paperTEX may have a different format from the ones in the front page. To change their title or subtitle format redefine \innerTitleFormat and \innerSubtitleFormat. The news text format matches the document general definition. When using the \authorandplace command, you might want to change the default style. Just renew \innerAuthorFormat and \innerPlaceFormat to get the results.

\timestampTxt
\timestampSeparator
\timestampFormat

The \timestamp command described in section 2.2.1 lets you introduce the time of the event before the news text. You can configure its appearance by altering several commands: \timestampTxt which means the text after the timestamp (i.e.

h., hours, secs.); \timestampSeparator which defines the element between the actual timestamp and the beginning of the text and, finally, \timestampFormat to change the entire timestamp format.

\innerTextFinalMark

Most of the newspaper in my country (Spain) finish the news text with a black square (I). As I wanted to create a highly customizable IATEX class I added the macro \innerTextFinalMark to change this black square. This item will appear always following the last character of the text with the \sim character.

\minraggedcols \raggedFormat

The \minraggedcols counter is used to tell paperTFX when news text should be ragged instead of justified. The counter represents the minimum number of columns that are needed in order to use ragged texts. For example, if \minraggedcols is set to 3, all news with 3 columns or more will be ragged. News with 1, 2 columns will have justified text. By default, \minraggedcols is set to 4.

New feature v1.2

> The \raggedFormat macro can be redefined to fit user ragged style. Default value is \RaggedRight.

\heading \foot

paperTFX includes package fancyhdr for changing headings and footers. Although it is possible to use its own commands to modify paperTFX style, there are two commands to change headings and foot appearance. Place them in the preamble of your paperTFX document.

```
\left(\left(\left(\left(cnter\right)\right)\right)\right)
\foot{\langle left \rangle}{\langle center \rangle}{\langle right \rangle}
```

If you still prefer to use fancyhdr macros, use them after the frontpage environment.

Class options 4

The paperTEX class is in itself an alteration of the standard article class, thus it inherits most of its class options but twoside, twocolumn, notitlepage and a4paper. If you find problems when loading other article features, please let me know to fix it.

There are also five own options that paperT_EX implements.

New feature v1.2a

- **a3paper** (false) This option makes paperTFX 297mm width by 420mm height. This option is implemented because the standard article class does not allow this document size.
- **9pt** (false) Allows the 9pt font size that article class does not include (default is 10pt).
- hyphenatedtitles (false) Forces heading titles to be hyphenated. This feature is off by default because most of newspapers prefer not to hyphenate them.
- columnlines (false) Adds lines between columns in the entire paperT_EX. The default line width is 0.1pt but it is possible to change this by setting length \columnlines in the preamble.

showgrid (*false*) This option is only for developing purposes. Because the front page has a personal design using the **textpos** package, I created this grid to make easier the lay out.

5 Implementation

This section deals with the package source code. Please, do not read this unless you really need it. The comments are very short and they, generally, just tell you where you are. If you are experiencing any problems when testing this class, you could send me an email and I would try to solve it.

Of course, I am also pleased to receive emails telling me what is wrong in this code or what I should improve. It would be great!

5.1 Init, packages and options

First define paperT_EX class.

- 1 \NeedsTeXFormat{LaTeX2e}
- 2 \ProvidesClass{papertex}[2006/07/06 paperTeX class]

Require ifthen package which will be very useful.

3 \RequirePackage{ifthen}

Define some lengths for page sizes.

- 4 \newlength{\papertex@imgsize}
- 5 \newlength{\papertex@coltitsize}
- 6 \newlength{\papertex@pageneed}
- 7 \newlength{\papertex@pageleft}
- 8 \newlength{\papertex@indexwidth}

Keep track of the number of columns of the piece of news we are in.

9 \newcommand{\papertex@ncolumns}{0}

Lines between columns. This is a multicol package feature.

- 10 \newlength{\columnlines}
- 11 \setlength{\columnlines}{0 pt} % no lines by default

Define some booleans to control paperTEX class options like hyphenated titles in front page, nine points font or front page grid.

- 12 \newboolean{papertex@hyphenatedtitles}
- 13 \setboolean{papertex@hyphenatedtitles}{true}
- 14 \newboolean{papertex@ninepoints}
- 15 \setboolean{papertex@ninepoints}{false}
- 16 \newboolean{papertex@showgrid}
- 17 \setboolean{papertex@showgrid}{false}
- 18 \newboolean{papertex@a3paper}
- 19 \setboolean{papertex@a3paper}{false}

Some booleans to keep track of where we are.

- 20 \newboolean{papertex@insidefrontpage}
- 21 \setboolean{papertex@insidefrontpage}{false}

```
22 \newboolean{papertex@insideweather}
23 \setboolean{papertex@insideweather}{false}
24 \newboolean{papertex@insideindex}
25 \setboolean{papertex@insideindex}{false}
   These counters are needed for creating the front page virtual grid which comes
from the absolute option of the textpos package.
26 \newcount\papertex@gridrows
27 \newcount\papertex@gridcolumns
28 \papertex@gridrows=40
29 \papertex@gridcolumns=50
   The following count defines when paperTEX should use ragged text instead of
justified text. It represents the maximum number of columns not ragged. Default
value is 5.
30 \newcount\minraggedcols
31 \minraggedcols=5
   Now, we declare the class options. First, all the options which paperT<sub>E</sub>X
inherits from "article.cls" standard class.
32 \DeclareOption{10pt}{\PassOptionsToClass{10pt}{article}}
33 \DeclareOption{11pt}{\PassOptionsToClass{11pt}{article}}
34 \DeclareOption{12pt}{\PassOptionsToClass{12pt}{article}}
   Second, options paperT<sub>E</sub>X does not inherit from "article.cls".
35 \DeclareOption{twocolumn}%
36 {\ClassWarning{paperTeX}{Option 'twocolumn' not available for paperTeX.}}
37 \DeclareOption{notitlepage}%
38 {\ClassWarning{paperTeX}}{Option 'notitlepage' not available for paperTeX.}}
39 \DeclareOption{twoside}%
40 {\ClassWarning{paperTeX}{Option 'twoside' not available for paperTeX.}}
   Finally, paperTEX own options.
41 \DeclareOption{9pt}{\setboolean{papertex@ninepoints}{true}}
42 \DeclareOption{hyphenatedtitles}{\setboolean{papertex@hyphenatedtitles}{false}}
43 \DeclareOption{columnlines}{\setlength{\columnlines}{0.1 pt}}
44 \DeclareOption{showgrid}{\setboolean{papertex@showgrid}{true}}
45 \DeclareOption{a3paper}{\setboolean{papertex@a3paper}{true}}
   As paperTEX is based in the LATEX "article" class, we load this class with
default paperTEX options.
46 \ProcessOptions\relax
47 \LoadClass[10pt, onecolumn, titlepage, a4paper]{article}
   From this point, paperTFX requires all packages needed.
48 \RequirePackage{ifpdf}
49 \RequirePackage{multido}
50 \RequirePackage{datetime}
```

New feature v1.2

51 \RequirePackage{multicol}
52 \RequirePackage{fancyhdr}
53 \RequirePackage{fancybox}

```
New feature v1.2a
```

Define margins using **geometry** package to get as much as possible from the page layout. It is also time to check if "a3paper" option is requested.

```
54 \ifthenelse{\boolean{papertex@a3paper}}{%
55 \RequirePackage[a3paper,headsep=0.5cm,vmargin={2cm,2cm},hmargin={1.5cm,1.5cm}]{geometry}
56 }{
57 \RequirePackage[headsep=0.5cm,vmargin={2cm,2cm},hmargin={1.5cm,1.5cm}]{geometry}
58 }
    Some requirements whether we compile using PDFIATEX or just IATEX.
59 \ifpdf
60 \RequirePackage[pdftex]{graphicx,color}
61 \RequirePackage[pdftex]{hyperref}
62 \else
63 \RequirePackage{color}
64 \RequirePackage[dvips]{graphicx}
65 \RequirePackage[dvips]{hyperref}
```

Some more packages...

66 \fi

- 67 \RequirePackage[absolute]{textpos} % absoulte positioning
- 68 \RequirePackage{hyphenat} % when hyphenate
- 69 \RequirePackage{wrapfig}
- 70 \RequirePackage{lastpage} % to know the last page number
- 71 \RequirePackage{setspace} % set space between lines

We, now, load ragged2e package in order to provide paperTEX with nicely ragged texts. A new command called \raggedFormat is defined to control which kind of ragged format should be used.

- $72 \RequirePackage{ragged2e}$
- 73 \newcommand{\raggedFormat}{\RaggedRight}

When the whole class is loaded, draw the front page grid. Draw lines if requested by using **showgrid** option. There is also a substraction from \minraggedcols counter by one in order to match is definition.

```
74 \AtEndOfClass{\papertexInit}
75 \ifthenelse{\boolean{papertex@showgrid}}{%
76 \AtBeginDocument{
77 \grid[show]{\papertex@gridrows}{\papertex@gridcolumns}}
78 \advance\minraggedcols by -1
79 }{%
80 \AtBeginDocument{
81 \grid[]{\papertex@gridrows}{\papertex@gridcolumns}}
82 \advance\minraggedcols by -1
83 }
```

Definition of **ninepoints** class option.

- 85 \renewcommand{\normalsize}{%
- 86 \@setfontsize{\normalsize}{9pt}{10pt}%
- 87 \setlength{\abovedisplayskip}{5pt plus 1pt minus .5pt}%
- 88 \setlength{\belowdisplayskip}{\abovedisplayskip}%

New feature 2007/01/25

```
\setlength{\abovedisplayshortskip}{3pt plus 1pt minus 2pt}%
89
     \setlength{\belowdisplayshortskip}{\abovedisplayshortskip}}
90
92 \renewcommand{\tiny}{\@setfontsize{\tiny}{5pt}{6pt}}
93
94 \renewcommand{\scriptsize}{\@setfontsize{\scriptsize}{7pt}{8pt}}
95
96 \renewcommand{\small}{%
     \@setfontsize{\small}{8pt}{9pt}%
97
     \stlength{\abovedisplayskip}{4pt plus 1pt minus 1pt}{\%}
98
     \setlength{\belowdisplayskip}{\abovedisplayskip}%
99
100
     \setlength{\abovedisplayshortskip}{2pt plus 1pt}%
     \setlength{\belowdisplayshortskip}{\abovedisplayshortskip}}
101
102
103 \renewcommand{\footnotesize}{%
104
     \@setfontsize{\footnotesize}{8pt}{9pt}%
     \setlength{\abovedisplayskip}{4pt plus 1pt minus .5pt}%
105
     \setlength{\belowdisplayskip}{\abovedisplayskip}%
106
     \setlength{\abovedisplayshortskip}{2pt plus 1pt}%
107
     \setlength{\belowdisplayshortskip}{\abovedisplayshortskip}}
108
109
110 \renewcommand{\large}{\@setfontsize{\large}{11pt}{13pt}}
111 \renewcommand{\Large}{\Osetfontsize{\Large}{14pt}{18pt}}
112 \renewcommand{\LARGE}{\@setfontsize{\LARGE}{18pt}{20pt}}
113 \renewcommand{\huge}{\@setfontsize{\huge}{20pt}{25pt}}
114 \renewcommand{\Huge}{\@setfontsize{\Huge}{25pt}{30pt}}
115 }{}
5.2
       paperT<sub>E</sub>X default style
116 \definecolor\{color\}\{cmyk\}\{0.5, 0, 1, 0.5\}
```

```
117 \det\{\max\}\{cmyk\}\{0, 0.5, 0.5, 0.5\}
118 \det\{\text{cmyk}\}\{0.5, 0, 0.5, 0.5\}
    Web address.
119 \newcommand{\papertex@wwwTxt}{http://nachollopis.com}
120 \newcommand{\papertex@wwwFormat}{\sffamily}
121 \newcommand{\papertex@www}{%
122 \raisebox{-3pt}{{\papertex@wwwFormat\papertex@wwwTxt}}
123 }
    Edition.
124 \newcommand{\papertex@edition}{MY EDITION}
125 \newcommand{\editionFormat}{\large\bfseries\texttt}
126 \newcommand{\papertex@editionLogo}{%
127 \Rightarrow (-3pt){\%}
128 \textcolor{color}{{\editionFormat\papertex@edition}}%
129 }%
130 }
```

```
131 \newcommand{\indexFormat}{\large\bfseries\sffamily}
132 \newcommand{\papertex@indexFrameTitle}[1]
133 {\begin{flushright}{\textcolor{color}{{\indexFormat #1}}}\end{flushright}}
135 \mbox{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{
136 \ensuremath{\mbox{\mbox{$13$}}} [1] \ensuremath{\mbox{\mbox{$13$}}} [1] \ensuremath{\mbox{\mbox{$13$}}} [1] \ensuremath{\mbox{$13$}} [1] \ensuremath{\mbox{
137 {\indexEntryFormat\noindent\ignorespaces{#1}}%
138 \end{minipage}}
140 \newcommand{\indexEntryPageTxt}{p.}
141 \newcommand{\indexEntryPageFormat}{\footnotesize}
142 \newcommand{\papertex@indexEntryPage}[1]{%
143 {\indexEntryPageFormat\textcolor{color}{\indexEntryPageTxt{}~#1}}%
144 }
              Date and time.
145 \newcommand{\headDateTimeFormat}{}
146 \newcommand{\papertex@headDateTime}{%
147 \headDateTimeFormat\date\hspace{5pt}$\parallel$\hspace{5pt}%
148 \textcolor{color}{\currenttime h}%
149 }
               Weather.
150 \newcommand{\weatherFormat}{\bfseries\sffamily}
151 \newcommand{\papertex@weather}[1]{%
152 \noindent\textcolor{color}{{\weatherFormat #1}}%
154 \newcommand{\weatherTempFormat}{\small}
155 \verb|\newcommand{\weatherUnits}{\textdegree{}C}|
               Section name.
156 \newcommand{\papertex@section}[0]{FRONT PAGE}
              Inner pages heading.
157 \newcommand{\papertex@headleft}{%
158 {{\usefont{T1}{bch}{b}{n} \noindent\textcolor{color}{paper}}%
159 {\usefont{T1}{pag}{m}{n} \textcolor{black}{TeX}} , \date}%
161 \newcommand{\papertex@headcenter}{%
162 \papertex@section{}
163 }
164 \newcommand{\papertex@headright}{%
165 \textcolor{color}{\small\papertex@edition}%
166 \hspace*\{5pt\}\ \ \pageref\{LastPage\}
167 }
168
```

169 \newcommand{\heading}[3]{%

170 \renewcommand{\papertex@headleft}{#1}% 171 \renewcommand{\papertex@headcenter}{#2}% 172 \renewcommand{\papertex@headright}{#3}%

```
173 }
           Inner pages foot.
174 \newcommand{\papertex@footleft}{%
175 {\footnotesize\copyright\ \papertex@wwwTxt{} - Created using paper\TeX{}}%
177 \newcommand{\papertex@footcenter}{%
179 \newcommand{\papertex@footright}{%
180 }
181
182 \newcommand{\foot}[3]{%
183 \renewcommand{\papertex@footleft}{#1}%
184 \renewcommand{\papertex@footcenter}{#2}%
185 \renewcommand{\papertex@footright}{#3}%
186 }
           First news on main page.
187 \verb|\mbox| 187
188 \newcommand{\papertex@firstTitle}[1]{%
189 {%
190 \begin{spacing}{2.0}{%
191 \noindent\ignorespaces
192 \ifthenelse{\boolean{papertex@hyphenatedtitles}}%
193 {\nohyphens{\firstTitleFormat #1}}%
194 {{\firstTitleFormat #1}}%
195 }%
196 \end{spacing}%
197 }%
198 }
199 \newcommand{\firstTextFormat}{}
200 \newcommand{\papertex@firstText}[1]{%
201 {\noindent\ignorespaces\firstTextFormat #1}%
202 }
           Second news on main page.
203 \newcommand{\secondTitleFormat}{\LARGE\sffamily\bfseries}
204 \newcommand{\papertex@secondTitle}[1]{%
205 \begin{spacing}\{1.5\}{%
206 \noindent\ignorespaces\flushleft
207 \ifthenelse{\boolean{papertex@hyphenatedtitles}}%
208 {\nohyphens{\secondTitleFormat #1}}%
209 {{\secondTitleFormat #1}}%
210 }\end{spacing}%
211 }
212 \mbox{\newcommand{\secondSubtitleFormat}{\large}}
213 \newcommand{\papertex@secondSubtitle}[1]{%
214 {\noindent\ignorespaces{\secondSubtitleFormat #1}}%
215 }
216 \newcommand{\secondTextFormat}{}
217 \newcommand{\papertex@secondText}[1]{%
```

```
218 \begin{multicols}{2}
219 {\noindent\ignorespaces\secondTextFormat #1}
220 \end{multicols}
221 }
          Third news on main page.
222 \newcommand{\thirdTitleFormat}{\Large\sffamily\bfseries}
223 \newcommand{\papertex@thirdTitle}[1]{%
224 \geq 1.5{%
225 \noindent\ignorespaces\flushleft
226 \ifthenelse{\boolean{papertex@hyphenatedtitles}}%
227 {\nohyphens{\thirdTitleFormat #1}}%
228 {{\thirdTitleFormat #1}}%
229 }\end{spacing}%
230 }
231 \newcommand{\thirdSubtitleFormat}{\large}
232 \newcommand{\papertex@thirdSubtitle}[1]%
233 {{\noindent\ignorespaces\thirdSubtitleFormat #1}}
234 \newcommand{\thirdTextFormat}{}
235 \newcommand{\papertex@thirdText}[1]{{\thirdTextFormat #1}}
          Pictures captions.
236 \mbox{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{
237 \newcommand{\papertex@pictureCaption}[1]{%
238 {\noindent\pictureCaptionFormat #1}%
239 }
         Pages: paperTFX sections.
240 \newcommand{\pagesFormat}{\bfseries\footnotesize}
241 \newcommand{\papertex@pages}[1]%
242 {\noindent\textcolor{color}{\pagesFormat\MakeUppercase{#1}}}
         Inner pages news: normal style.
          • Heading.
243
                    \newcommand{\innerTitleFormat}{\Huge}
244
                    \newcommand{\papertex@innerTitle}[1]{%
245
                    \begin{flushleft}{%
246
                    \noindent
                    \ifthenelse{\boolean{papertex@hyphenatedtitles}}%
247
                    {\nohyphens{\innerTitleFormat #1}}%
248
                    {{\innerTitleFormat #1}}%
249
250
                    }%
                    \\%
251
252
                    \end{flushleft}%
253
          • Subheading.
254
                    \newcommand{\innerSubtitleFormat}{\large}
255
                    \newcommand{\papertex@innerSubtitle}[1]{{\innerSubtitleFormat #1}}
```

• Time.

```
\newcommand{\timestampTxt}{h}
256
         \newcommand{\timestampSeparator}{|}
257
258
         \newcommand{\timestampFormat}{\small}
        \newcommand{\timestamp}[1]{%
259
        {\timestampFormat\textcolor{color}{%
260
        #1~\timestampTxt{}}%
261
262
        }~\timestampSeparator{}%
263
        }
    • Author.
```

264 \newcommand{\innerAuthorFormat}{\footnotesize}

Place

265 \newcommand{\innerPlaceFormat}{\footnotesize\bfseries}

- Section. See \sectionFormat.
- Image caption. See \pictureCaptionFormat.
- Final text mark. A black square.

266 \newcommand{\innerTextFinalMark}{\rule{0.65em}{0.65em}}

Inner pages news: editorial (opinion) style.

• Heading.

```
267 \newcommand{\editorialTitleFormat}{\LARGE\textit}
268 \newcommand{\papertex@editorialTitle}[1]{\editorialTitleFormat{#1}}
```

• Author.

269 \newcommand{\editorialAuthorFormat}{\textsc}

Inner pages news: shortnews style.

• Group heading.

```
270 \newcommand{\shortnewsTitleFormat}{\LARGE\bfseries}
271 \newcommand{\papertex@shortnewsTitle}[1]{{\shortnewsTitleFormat #1}}
```

• Group subheading.

```
272 \newcommand{\shortnewsSubtitleFormat}{\Large}
273 \newcommand{\papertex@shortnewsSubtitle}[1]{{\shortnewsSubtitleFormat #1}}
```

• Sigle item heading.

```
274 \newcommand{\shortnewsItemTitleFormat}{\large\bfseries}
275 \newcommand{\papertex@shortnewsItemTitle}[1]{{\shortnewsItemTitleFormat #1}}
```

5.3 General macros

First, we have a little hack to \maketitle article macro.

```
276 \renewcommand{\maketitle}{\begin{titlepage}%
     \let\footnotesize\small
     \let\footnoterule\relax
278
279
     \let \footnote \thanks
280
     \null\vfil
     \vskip 60\p@
281
     \begin{center}%
282
       {\LARGE \@title \par}%
283
284
       \vskip 1em%
       {\LARGE ''\papertex@edition '' \par}%
285
       \vskip 3em%
286
       {\large
287
        \lineskip .75em%
288
         \begin{tabular}[t]{c}%
289
290
            \@author
         \end{tabular}\par}%
291
         \vskip 1.5em%
292
       {\large \@date \par}%
293
294
     \end{center}\par
     \@thanks
295
     \vfil\null
296
     \end{titlepage}%
297
     \setcounter{footnote}{0}%
298
     \global\let\thanks\relax
299
     \global\let\maketitle\relax
300
     \global\let\@thanks\@empty
301
302
     \global\let\@author\@empty
303
     \global\let\@date\@empty
304
     \global\let\@title\@empty
305
     \global\let\title\relax
306
     \global\let\author\relax
     \global\let\date\relax
307
     \verb|\global| = \and \relax|
308
309 }
    Prints out some text when compiling.
310 \newcommand{\papertex@say}[1]{\typeout{#1}}
    Minipage inside a framebox.
311 \newsavebox{\papertex@fmbox}
312 \newenvironment{papertex@fmpage}[1]
313 {\begin{lrbox}{\papertex@fmbox}\begin{minipage}{#1}}
314 {\end{minipage}\end{lrbox}\fbox{\usebox{\papertex@fmbox}}}
```

Next macro inserts an image inside a *news* environment. The image is resized in order to fit in the column width. The image is also surrounded by a frame. This macro controls that there is enough space to include the image otherwise it shows a warning in the compilation log.

```
315 \mbox{ }\mbox{\em mand{\mbox{\limage}[2]{}}
316 %set imgsize to Opt in each call - thanks to Janosch Maier
317 \setlength{\papertex@imgsize}{Opt}
318 \vspace{5pt}
319 %distance between frame and image
320 \setlength{\fboxsep}{1pt}
321 %new image size
323 %substract space between columns
324 \addtolength{\papertex@imgsize}{-1\columnsep}
325 \ifpdf
326 \setlength{\papertex@pageneed}{1.5\papertex@imgsize}
327 \addtolength{\papertex@pageneed}{50pt}
328 \ClassWarning{paperTeX}{%
329 Image #1 needs: \the\papertex@pageneed \space %
330 and there is left: \the\page@free\space%
331 }
332 %image fits in
333 \ifdim \papertex@pageneed < \page@free
334
335 {\centering\fbox{%
336 \includegraphics[width = \papertex@imgsize,
337 height = \papertex@imgsize,
338 keepaspectratio ]{#1}}}
339 \papertex@pictureCaption{#2}
340
341 \vspace{5pt}
342 \ensuremath{\setminus} else
343 %not enough space
344 \ClassWarning{Image #1 needs more space!%
345 It was not inserted!}
346 \fi
347 \fi
348 }
    Some textpos parameters in order to start everything from the upper left
corner.
349 \textblockorigin{1cm}{1cm}
    Some textpos dimensions to draw the invisible grid.
350 \newdimen\papertex@dx
351 \newdimen\papertex@dy
352 \newcount\papertex@cx
353 \newcount\papertex@cy
    This command draws the grid we need to place everything in the front page
at absolute positions. If first optional argument is set to "show", lines are shown
so you can see the grid.
```

```
354 \newcommand{\grid}[3][]{
355 \papertex@dx=\textwidth%
356 \papertex@dy=\textheight%
```

```
357 \papertex@cx=#3% %columns
358 \papertex@cy=#2% %rows
360 \count1=#3%
361 \advance\count1 by 1
362
363 \count2=#2%
364 \advance\count2 by 1
365
366 %calculate cell dimensions
367 \divide\papertex@dx by #3
368 \divide\papertex@dy by #2
370 \setlength{\TPHorizModule}{\papertex@dx}
371 \setlength{\TPVertModule}{\papertex@dy}
372
373 \left\{ \frac{\#1}{\sinh }\right\}
374 %draw rows
375 \multido{\papertex@nrow=0+1}{\count2}{
376 \begin{textblock}{\papertex@cx}(0,\papertex@nrow)
377 \rule[0pt]{\textwidth}{.1pt}
378 \end{textblock}
379 }
380
381 %draw columns
382 \multido{\papertex@ncol=0+1}{\count1}{
383 \begin{textblock}{\papertex@cy}(\papertex@ncol,0)
384 \rule[0pt]{.1pt}{\textheight}
385 \end{textblock}
386 }
387 }{}
388 }
    This macro inits paperTEX: heading size, page style, space between columns
 and frame box line width. It also creates the index using makeindex.
389 \verb|\newcommand{\papertexInit}{|} \\
390 \stlength{\headheight}{14pt}
391 \renewcommand{\headrulewidth}{0.4pt}
392
393 \pagestyle{fancy}
395 \setlength{\columnseprule}{\columnlines}
396 \setlength{\fboxrule}{0.1 pt}
397
398 }
    The \mylogo macro can be redefined in order to use a customized head image.
399 \newcommand{\mylogo}[1]{
400 {#1}
401
```

```
403 \papertex@editionLogo\hspace{5pt}
404 \hrulefill
405 \hspace{5pt}\papertex@headDateTime
406 }
    Edition command.
407 \end{\edition} [1] {\tt \end{\papertex@edition} \{\#1\}}
    Next environment surrounds newspaper front page. It defines its own style
(heading and foot) and keeps track of where we are.
408 \newenvironment{frontpage}[0]
410 \setboolean{papertex@insidefrontpage}{true}
411 \thispagestyle{empty}
412 \pdfbookmark[1]{FRONT PAGE}{\thepage}
413 \logo
414
415 }%
416 {
417 \thispagestyle{empty}
418 \clearpage
419 \newpage
420
421
422 \geq 422 
423 \fancyfoot{}
424 \fancyhead[R] {\papertex@headright}
425 \fancyhead[L]{\papertex@headleft}
426
       \fancyhead[C]{\papertex@headcenter}
427
       \fancyfoot[R]{\papertex@footright}
       \fancyfoot[L]{\papertex@footleft}
429 \fancyfoot[C] {\papertex@footcenter}
430 \renewcommand{\headrulewidth}{0.4pt}
431 \setboolean{papertex@insidefrontpage}{false}
432 %
433
434 }
```

5.4 Front page

402 \noindent

Edit these items to set up your own front page Read textpos documentation to know how to work with textblocks. Don't forget to use paperTEX styles for titles, captions and so on. It will be more consistent.

First piece of news.

```
435 \newcommand{\firstnews}[3]

436 {

437 \ifthenelse{\boolean{papertex@insidefrontpage}}{%

438 \ifthenelse{\boolean{papertex@hyphenatedtitles}}{%
```

```
439 \begin{textblock}{24}(22,5)
440 }
441 {
442 \begin{textblock}{28}(22,5)
443 }
444 \vspace{-7pt}
445 \papertex@firstTitle{#1}
446 \end{textblock}
447 \begin{textblock}{29}(22,10)
448 \vspace{5pt plus 2pt minus 2pt}
449
450 \papertex@firstText{\timestamp{#3}~#2}
452 \end{textblock}
453
454 \left( \frac{50}{0,15} \right)
455 \rule{50\TPHorizModule}{.3pt}
456 \end{textblock}
457 }{%else
458 \ClassError{paperTeX}{%
459 \protect\firstnews\space in a wrong place.\MessageBreak
460 \protect\firstnews\space may only appear inside frontpage environment.
462 \protect\firstnews\space may only appear inside frontpage environment.
463 }%
464 }
465 }
    Second piece of news.
466 \newcommand{\secondnews}[5]
468 \ifthenelse{\boolean{papertex@insidefrontpage}}{%
469 \begin{textblock}{33}(2,16)
470 \papertex@pages{#4}
471 \vspace{-5pt}
472 \papertex@secondTitle{#1}
473
474 \vspace*{5pt}
475
476 \papertex@secondSubtitle{#2}
478 \vspace*{-7pt}
480 \papertex@secondText{\timestamp{#5}~#3}
482 \end{textblock}
483
484 \begin{textblock}{33}(2,25)
485 \bigvee plus 2pt minus 2pt
486
```

```
487 \noindent\ignorespaces\rule{33\TPHorizModule}{.3pt}
488 \end{textblock}
489 }{%else
490 \ClassError{paperTeX}{%
491 \protect\secondnews\space in a wrong place.\MessageBreak
492 \protect\secondnews\space may only appear inside frontpage environment.
493 }{%
494 \protect\secondnews\space may only appear inside frontpage environment.
495 }%
496 }
497 }
           Third piece of news. It is possible to avoid using an image just leaving the 4th
  parameter empty.
498 \mbox{ } \mbox{
499 {
500 \ifthenelse{\boolean{papertex@insidefrontpage}}{%
501 \begin{textblock}{32}(2,26)
502 \papertex@pages{#5}
503 \vspace{-5pt}
504 \setlength{\fboxsep}{1pt}
505 \papertex@thirdTitle{#1}
506
507 \vspace*{5pt}
508
509 \papertex@thirdSubtitle{#2}
511 \vspace*{5pt}
513 {\noindent\ignorespaces %
514 \left\{ \frac{4}{5} \right\}
515 {\begin{wrapfigure}{r}{.3\textwidth}}
516 \vspace*{-12pt}
517 \ifpdf
518 \rightarrow \frac{18}{100}
519 \fi
520 \end{wrapfigure}%
521 }%
522 \papertex@thirdText{\timestamp{#6}~#3}
523
524 }
525
526 \vspace*{5pt}
527
528 \end{textblock}
529 }{%else
530 \ClassError{paperTeX}{%
531 \protect\thirdnews\space in a wrong place.\MessageBreak
532 \protect\thirdnews\space may only appear inside frontpage environment.
533 }{%
```

```
534 \protect\thirdnews\space may only appear inside frontpage environment.
535 }%
536 }
537 }
    Main image in front page. Usually related to \firstNews.
538 \newcommand{\firstimage}[2]
539 {
540 \ifthenelse{\boolean{papertex@insidefrontpage}}{%
541 \begin{textblock}{18}(2,5)
542 \setlength{\fboxsep}{1pt}
543 \ifpdf % only in PDF
544 \noindent\fbox{\includegraphics[width = 18\TPHorizModule ]{#1}}
545 \fi
546
547 \papertex@pictureCaption{#2}
548 \end{textblock}%
549 }
550 {\ClassError{paperTeX}{%
551 \protect\firstimage\space in a wrong place.\MessageBreak
552 \protect\firstimage\space may only appear inside frontpage environment.
554 \protect\firstimage\space may only appear inside frontpage environment.
555 }}
556 }%
    Weather item (weather forecast).
557 \newcommand{\weatheritem}[5]{%
558 \ifthenelse{\boolean{papertex@insideweather}}{
559 \begin{minipage}{45pt}
560 \ifpdf
561 \includegraphics[width=40pt]{#1}
562 \fi
563 \end{minipage}
564 \begin{minipage}{50pt}
565 \weatherTempFormat
566 #2\\
568 #5
569 \end{minipage}
570 }{%else
571 \ClassError{paperTeX}{%
572 \protect\weatheritem\space in a wrong place.\MessageBreak
573 \protect\weatheritem\space may only appear inside weatherblock environment.
574 }{%
575 \protect\weatheritem\space may only appear inside weatherblock environment.\MessageBreak
576 weatherblock environment may only appear inside frontpage environment.
577 }%
578 }
579 }
```

```
Weather block.
580 \newenvironment{weatherblock}[1]
583 \setboolean{papertex@insideweather}{true}
584 \left( 2,38 \right)
585 \vspace*{-15pt}
586
587 \hfill\papertex@weather{#1}
589 \vspace*{5pt}
590
591 \noindent\begin{papertex@fmpage}{32\TPHorizModule}
592 \begin{minipage}{32\TPHorizModule}
593 \hspace{5pt}
594
595 }{%
596 \ClassError{paperTeX}{%
597 \text{ weatherblock in a wrong place.} \\ MessageBreak
598 \; {\tt weatherblock} \; {\tt may} \; {\tt only} \; {\tt appear} \; {\tt inside} \; {\tt frontpage} \; {\tt environment}.
599 }{%
600 \ \mbox{weatherblock} may only appear inside frontpage environment.
601 }
602 }
603 }%
604 {
605 \end{minipage}
606 \end{papertex@fmpage}
607 \end{textblock}
608 \verb|\setboolean{papertex@insideweather}{false}|
609 }
    Author block.
610 \newenvironment{authorblock}[0]
612 \ifthenelse{\boolean{papertex@insidefrontpage}}{%
613 \begin{textblock}{15}(36,35)
614 \setlength{\fboxsep}{5pt}
615 \begin{papertex@fmpage}{13\TPHorizModule}
616 \begin{minipage}{13\TPHorizModule}
617 \centering
618 \minilogo
619
620 }{%else
621 \ClassError{paperTeX}{%
622 \text{ authorblock in a wrong place.} \\ MessageBreak
623 authorblock may only appear inside frontpage environment.
```

 $625 \ \mathrm{authorblock} \ \mathrm{may} \ \mathrm{only} \ \mathrm{appear} \ \mathrm{inside} \ \mathrm{frontpage} \ \mathrm{environment}.$

626 }

```
627 }
628 }
629 {
630 \end{minipage}
631 \end{papertex@fmpage}
632 \end{textblock}
633 }
    Main index block.
634 \newenvironment{indexblock}[1]
636 \ifthenelse{\boolean{papertex@insidefrontpage}}{%
637 \setboolean{papertex@insideindex}{true}%let's in
638 \begin{textblock}{15}(36,16)
639 \setlength{\papertex@indexwidth}{13\TPHorizModule}
640 \papertex@indexFrameTitle{#1}
642 \ensuremath{\fboxsep}{5pt} %espacio entre el frame y la imagen
643 \verb|\papertex@fmpage|{\papertex@indexwidth}|
644 \verb|\begin{minipage}{\papertex@indexwidth}|
645 \vspace*{10pt}
646 }{%else
647 \ClassError{paperTeX}{%
648 indexblock in a wrong place.\MessageBreak
649 indexblock may only appear inside frontpage environment.
650 }{%
651\ {\rm indexblock}\ {\rm may}\ {\rm only}\ {\rm appear}\ {\rm inside}\ {\rm frontpage}\ {\rm environment}.
652 }
653 }
654 }%
655 {
656 \end{minipage}
657 \end{papertex@fmpage}
658 \end{textblock}
659 \setboolean{papertex@insideindex}{false}%let's out
660 }
    Index item.
661 \newcommand{\indexitem}[2]
663 \ifthenelse{\boolean{papertex@insideindex}}{
664 \papertex@indexEntry{#1~\papertex@indexEntryPage{\pageref{#2}}}
666 \vspace{0.5cm}
668 \noindent\ignorespaces\indexEntrySeparator{}
669 }{%else
670 \ClassError{paperTeX}{%
671\ \protect\indexitem\space in a wrong place.\MessageBreak
672 \protect\indexitem\space may only appear inside indexblock environment.
```

```
673 }{%
674 \protect\indexitem\space may only appear inside indexblock environment.\MessageBreak
675 indexblock environment may only appear inside frontpage environment.
676 }%
677 }
678 }
```

5.5 Inner news

Next two macros create an expanded title. The first command one is called inside the second one. They create a framed title that expands over all news columns. It can be used inside a **news** environment. It uses **fancybox** frame types and a custom one: text between two horizontal lines.

```
679 \newcommand{\papertex@inexpandedtitle}[1]{
680 \begin{minipage}{.95\textwidth}
681 \begin{center}
682 \noindent\Large\textbf{#1}
683 \end{center}
684 \end{minipage}
685 }
687 \newcommand{\expandedtitle}[2]{
688 \end{multicols}
690 \begin{center}
691 \setlength{\fboxsep}{5pt}
692 \setlength{\shadowsize}{2pt}
693 \left\{ \frac{\#1}{\sinh w} \right\} 
694 \shadowbox{%
695 \papertex@inexpandedtitle{#2}%
696 }%
697 }{}
698 \ifthenelse{\equal{#1}{doublebox}}{%
699 \doublebox{%
700 \papertex@inexpandedtitle{#2}%
701 }%
702 }{}
703 \ifthenelse{\equal{#1}{ovalbox}}{%
704 \operatorname{lovalbox}{\%}
705 \papertex@inexpandedtitle{#2}%
706 }%
707 }{}
708 \ifthenelse{\equal{#1}{Ovalbox}}{%
709 \Ovalbox{%
710 \papertex@inexpandedtitle{#2}%
711 }%
712 }{}
713 \ifthenelse{\equal{#1}{lines}}{
714 \hrule
```

```
715 \vspace*{8pt}
716 \begin{center}
717 \noindent\Large\textbf{#2}
718 \end{center}
719 \vspace*{8pt}
720 \hrule
721 }{}
722 \end{center}
723
724 \begin{multicols}{\papertex@ncolumns{}}
725 \ifnum \papertex@ncolumns > \minraggedcols
726 \raggedFormat
727 \fi
728 }
    The same as before but the title does not expand over news columns.
729 \newcommand{\papertex@incolumntitle}[2]{
730 \begin{minipage}{#1}
731 \begin{center}
732 \noindent\normalsize\textbf{#2}
733 \end{center}
734 \end{minipage}
735 }
736
737 \newcommand{\columntitle}[2]{
738 \vspace*{5pt}
739 \begin{center}
740 \setlength{\fboxsep}{5pt}
741 \setlength{\shadowsize}{2pt}
742 \addtolength{\papertex@coltitsize}{\columnwidth}
743 \addtolength{\papertex@coltitsize}{-1\columnsep}
744 \addtolength{\papertex@coltitsize}{-5pt}
745 \addtolength{\papertex@coltitsize}{-1\shadowsize}
746 \ifthenelse{\equal{#1}{shadowbox}}{%
747 \shadowbox{%
748 \papertex@incolumntitle{\papertex@coltitsize}{#2}%
749 }%
750 }{}
751 \ifthenelse{\equal{#1}{doublebox}}{%
752 \doublebox{%
753 \papertex@incolumntitle{\papertex@coltitsize}{#2}%
754 }%
755 }{}
756 \ifthenelse{\equal{#1}}{ovalbox}}{%
757 \ovalbox{%
758 \papertex@incolumntitle{\papertex@coltitsize}{#2}%
759 }%
760 }{}
761 \ifthenelse{\equal{#1}{0valbox}}{%
762 \Ovalbox{%
```

```
763 \papertex@incolumntitle{\papertex@coltitsize}{#2}%
764 }%
765 }{}
766 \ifthenelse{\equal{#1}{lines}}{
767 \hrule
768 \vspace*{5pt}
769 \begin{center}
770 \noindent\normalsize\textbf{#2}
771 \end{center}
772 \vspace*{5pt}
773 \hrule
774 }{}
775 \end{center}
776 }
```

Formating the heading date. This macro uses datetime package. I did some modifications on "datetime.sty" file in order to satisfy my own need but I do not think people should change anything.

```
777 \renewcommand{\date}{%
778 \longdate{\today}%
779 }
```

The next macro types out the author and the place of the news. It is just a format command.

```
780 \newcommand{\authorandplace}[2]{%
781 \leftline{%
782 {\innerAuthorFormat #1},\space{}{\innerPlaceFormat #2}%
783 }%
784 \par %
785 }
```

New section macro creates a new PDF bookmark and keeps track of which section we are. This is useful because we would like to print out the section name on all page headings.

```
786 \newcommand{\newsection}[1]{
787 \pdfbookmark[0]{#1}{\thepage} %bookmark para el pdf
788 \renewcommand{\papertex@section}{#1}
789 }
```

Inner news environment. This environment creates a piece of news inside the newspaper. It creates a multicol environment in the opening and ends it at closing. It also uses multicol feature to expand the news headings all over the columns and creates a new PDF bookmark and label.

The fifth parameter gets the name of the label that the user can use in the front page index. It uses \phantomsection to make \pageref work. Notice that paperTeX has not any sections.

It tells multicols environment that it should appear 4cm of text at least. Otherwise, it changes to a new page.

```
790 \newenvironment{news}[5]
791 {
```

```
792 \papertex@say{Adding a new piece of news}
793 \renewcommand{\papertex@ncolumns}{#1}
794 \begin{multicols}{#1}[%
795 \papertex@pages{#4}
796 \papertex@innerTitle{#2}%
797 \papertex@innerSubtitle{#3}%
798 ] [4cm] %
799 \phantomsection
800 \ \ \ [1]{#2}{\theta}
801 \label{#5}
802 \ifnum #1 > \minraggedcols
803 \raggedFormat
804 \fi
805 }
806 {~\innerTextFinalMark{}
807 \end{multicols}
808 }
    Thin line to put between news. The line will not show up if there is not enough
 space. For example, it will never appear at the top of a new page.
809 \newcommand{\newssep}{%
810 \setlength{\papertex@pageneed}{16000pt}
811 \setlength\papertex@pageleft{\pagegoal}
812 \addtolength\papertex@pageleft{-\pagetotal}
814 \papertex@say{How much left \the\papertex@pageleft}
815
816 \ifdim \papertex@pageneed < \papertex@pageleft
817 \papertex@say{Not enough space}
818 \else
819 \papertex@say{Adding sep line between news}
820 \vspace*{10pt plus 10pt minus 5pt}
822 \vspace*{10pt plus 5pt minus 5pt}
823 \fi
824
825 }
    Next command inserts the opinion news heading. It is very different from
 normal news. I writes the title, a thin line and the author (usually in small caps).
 It uses a tabular in order the line as wide as the titles.
826 \newcommand{\papertex@editorialTit}[2]{
827 \setlength{\arrayrulewidth}{.1pt}
828 \begin{center}
829 \begin{tabular}{c}
830 \noindent
831 \papertex@editorialTitle{#1}
832 \vspace{2pt plus 1pt minus 1pt}
833 \\
834 \hline
```

```
835 \vspace{2pt plus 1pt minus 1pt}
836 \\
837 \editorialAuthorFormat{#2}
838 \end{tabular}
839 \end{center}
840 }
    Next environment introduces a new opinion news. It tells multicols environ-
ment that it should appear 4cm of text at least. Otherwise, it changes to a new
page.
841 \newenvironment{editorial}[4]
842 {
843 \papertex@say{Adding a new editorial}
844 \begin{multicols}{#1}[%
845 \papertex@editorialTit{#2}{#3}%
846 ] [4cm]
847 \phantomsection
848 \pdfbookmark[1]{#2}{\thepage}
850 \ifnum #1 > \minraggedcols
851 \racklessed Format
852 \fi
853 }
854 {
855 \end{multicols}
856 }
    Next command inserts the short news heading. It is very different from normal
news.
857 \newcommand{\papertex@shortnewsTit}[2]{
858 \begin{center}
859 \vbox{%
860 \noindent
861 \papertex@shortnewsTitle{#1}
862 \vspace{4pt plus 2pt minus 2pt}
863 \hrule
864 \vspace{4pt plus 2pt minus 2pt}
865 \papertex@shortnewsSubtitle{#2}
866 }
867 \end{center}
868 }
    Next environment introduces a short news group.
869 \newenvironment{shortnews}[4]
871 \papertex@say{Adding a short news block}
872 \ensuremath{$\mbox{ hortnewsTit}${\#3}][4cm] \%}
873 \phantomsection
874 \pdfbookmark[1]{#2}{\thepage}
       \label{#4}
876 \par %
```

```
877 \ifnum #1 > \minraggedcols
878 \raggedFormat
879 \fi
880 }
881 {
882 \end{multicols}
883 }
This command is used to add short news items inside a short news group.
884 \newcommand{\shortnewsitem}[2]{
885 \goodbreak
886 \vspace{5pt plus 3pt minus 3pt}
887 {\vbox{\noindent\papertex@shortnewsItemTitle{#1}}}
888 \vspace{5pt plus 3pt minus 3pt}
889 {\noindent #2}\\
890 }
```

Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

```
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