New LATEX Style for FAO Yearbook *

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Abstract

This package provides class for typesetting FAO Yearbook. This is a refactoring of the faoyeabook package

1 Introduction

The package faoyearbook [1] was written in 2011 for FAO Statistical Yearbook.

The package faosyb is a refactoring of this package. We use the lessons learned and incorporate new design requirements. We use some (actually plenty) code from the previous version, but since we do not have to be compatibility, we can correct some unfortunate decisions.

2 User Guide

The installation of the class follows the usual practice [2] for LATEX packages:

- 1. Run latex on faosyb.ins. This will produce the LATEX class faosyb.cls.
- 2. Put the file faosyb.cls to the place where LATEX can find it (see [2] or the documentation for your TEX system).
- 3. Update the database of file names. Again, see [2] or the documentation for your TEX system for the system-specific details.
- 4. The file faosyb.pdf provides the documentation for the package (this is the file you are probably reading now).

As an alternative to items 2 and 3 you can just put the file faosyb.cls in the working directory where your .tex file is.

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2.1 Invocation

To use the class, put in the preamble of your document

 $\documentclass[\langle options \rangle] \{faosyb\}$

If the option web is chosen, the pages of the book have the dimensions corresponding to A4 paper. However, if the option print is chosen, then the pages are printed on a wider area, and crop marks are added for the trimming. Either web or print option must be chosen: there is no default.

If the option issuu is chosen, the internal links are transformed to external in the form suitable for http://www.issuu.com. Note that this option probably does not make much sense unless web option is also chosen. However, it is still possible to select both print and issuu option if someone needs it for an obscure purpose.

The option Draft (note the capitalization!) leads to the the large word 'DRAFT' printed across the pages. The standard LATEX option draft leads to the same result, but it also makes other changes, most notably, in the behavior of the \includegraphics command and warnings.

\ifprint

It is possible to query the current mode using the macro \ifprint, for example

```
\ifprint
Stuff for print version
\else
Stuff for web version
\fi
```

Any branch of this conditional may be empty, so web-only stuff can be coded as

\ifprint\else Web-only stuff\fi

\includegraphics

There is a special facilty for \includegraphics command to choose a file depending on the current mode of the package. Namely, if there is a file image_print.pdf visible by IATEX, then the commands \includegraphics{image} or \includegraphics{image.pdf} selects the file image_print.pdf. In the case this file is not found, the file image.pdf is selected instead. Similarly in the web mode the file image_web.pdf will be selected first, and only if it does not exist, image.pdf is selected. This rule works also for commands \includeLargeGraphics and \includeExtraLargeGraphics described below.

Note that at this time there is no similar facility for the \input command.

2.2 Setting Parameters

\faoset Some parameters in the class can be set with the command \faoset{ $\langle key=value \rangle$ }, for example

\faoset{bgcolor=blue}

Most of the parameters are explained below.

One of the important parameters is year. While the package at this time does not provide facilities for the title pages, it needs to know the year for the proper typesetting of footers. The command

```
\faoset{year=2013}
```

is used to provide this information.

2.3 Fonts

\narrowfamily \textnarrow \captionfamily \textcaption The class uses PT Sans fonts [3] for body text and Arev fonts [4] for math. It defines two additional families: Narrow and Caption, corresponding to the PT Sans Narrow and PT Sans Caption font. They can be selected by the declarations \arrowfamily and \arrowfamily or by the commands $\textnarrowf(\text)$ and $\textcaptionf(\text)$ following the usual LATEX conventions. Note that since PT Sans does not provide math alphabet, this choice does not change the mathematical text.

PT Sans Narrow may be useful for typesetting tables, for example,

```
{\scriptsize\narrowfamily
\rowcolors{4}{@bgcolor!30}{@bgcolor!20}
\input{./Tables/P1.DEM_1.tex}}
```

The choice of \narrowfamily is automatically done by the tablepages environment.

2.4 Colors and Icons for Parts

A Yearbook is separated into parts (more on this below). Each part has its own color and icon. They are set by the keys bgcolor and icon of the \faoset command, for example,

```
\faoset{icon=./Icons/agriculture.png}
\faoset{icon=./Icons/population}
\faoset{bgcolor=blue}
\faoset{bgcolor=green!25!yellow}
```

The parameter for the icon key can be any file name (with or without extension), suitable for the \includegraphics command. The parameter for the bgcolor key can be specified in any form acceptable by xcolor package [5].

The key tableheadcolor sets the color for the headers of tables defined by H or P key (see Section 2.7). Normally it is the current @bgcolor color, but it can be set to any required value.

\selecticon \selectcolor

Note that \faoset command does not change the icon or background color immediately. When issued before \part command, it sets up icon and color for

the next part. If needed, you can manually change this using \selection and \selectcolor commands. In most cases you should *not* use these commands.

@bgcolor
@tableheadcolor
\currenticon

After a \part command (or explicit \selection and \selectcolor command we can access the current values of the color in @bgcolor, @tablecolor colors and \currenticon macro.

Foreword and other parts in the front matter of the book do not use icons. Instead they have geometric symbols. The key symbol can have the values righthtriangle, square, rightsemicircle and sets the symbol for such part.

\lettrine

Front matter uses dropped capitals (lettrines) in the beginning of the sections. The command \lettrine{W}{ord} can help in this case.

2.5 Sectioning

\part \section \subsection The main division of the text are \parts. The command \part{ $\langle title \rangle$ } is used for numbered parts, while the command \part*{ $\langle title \rangle$ } is used for unnumbered parts. The next division are \sections and \subsections. They are never numbered. The style does not use \chapters.

\EndPartIntro

The sections immediately following new parts are special: they are typeset in one column and cannot have floats. The command \EndPartIntro switches to the "normal" sections.

2.6 Headers and Footers

\evenfootmark \oddfootmark

Normally headers and footers are defined by the text. However, there is a possibility to change some of them. Commands $\operatorname{commands} \operatorname{cotmark} \{\langle text \rangle\}$ and $\operatorname{cotmark}$ set the right and left footers for even and odd pages correspondingly (the remaining footers are used by the page numbers). By default they are defined as

\evenfootmark{\textbf{FA0} Statistical Yearbook \textbf{\fao@year}}
\oddfootmark{\rightmark}

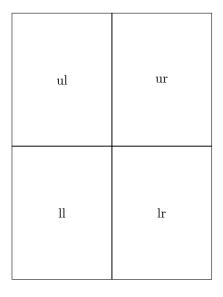
The last command sets the footer to be the current section name (or part name before the first section), but the user can change this.

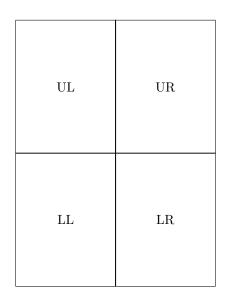
2.7 Floats

One of the most important changes from the previous version of the class [1] is the treatment of floats.

In standard IATEX floats "float": they can be placed by the algorithm anywhere. The previous version made them "sticky": the author explicitly tells TEX where floats should be placed. However, to do so the class required the author to make explicitly page breaks, which was not very convenient.

This version has a completely rewritten interface and algorithm for placing floats:





Verso page

Recto page

Figure 1: A Spread

- 1. Like in standard L^AT_EX, authors do not normally provide page breaks—T_EX tries to make this decision for them.
- 2. Like in the previous version, floats are put exactly where the authors want them—no default placing and second-guessing.

Here is how it is done.

The main unit of the book is *spread*: a verso page and the corresponding recto page. Each page is divided into four quarters, upper left, upper right, lower left and lower right. We will denote them ul, ur, ll, lr for the verso page and UL, UR, LL, LR for the recto page (Figure 1). We allow four kinds of floats:

Single floats occupy exactly one quarter. They are denoted as S.

Tall floats occupy two quarters stacked vertically (for example, ul and 11). They are denoted as T.

Wide floats occupy two quarters adjacent horizontally (for example, LL and LR). They are denoted as W.

Big floats occupy all four quarters on a page. They are denoted as B.

The parameters $\{\langle type \rangle\}$ and $\{\langle location \rangle\}$ are mandatory for floats, for example

```
\begin{map}{T}{ur}
...
\end{map}
\begin{chart}{S}{UL}
...
\end{chart}
```

For multiquarter floats the location is the location of the upper left corner, so Big float can use only ul or UL location.

Of course, not all combinations are valid: you cannot specify float as {T}{11} or {W}{UR}, for example. If you use such combinations, the results may be unpredictable. Also it is not predictable what happens if you try to put overlapping floats (e.g. {S}{UR} and {W}{UL}).

There are two additional rules:

- 1. A verso page may have text and floats (still it is recommended that if it has text, then it should not have floats occupying the upper left corner).
- 2. A recto page may have *either* text or floats: if there are floats for this page, all text is moved to the following verso page.

chart

There are three types of floats defined by the class:

map table

chart plots and other charts,

map mapped data.

table mini tables.

caption

Each of these kinds of material is typeset using the corresponding environment: chart, table or map. Note that the caption for each of these environments must precede the graphical material, for example:

```
\begin{chart}{B}{UL}
  \caption{Hunger Data}
  \label{chart:hunger}
  \includegraphics{hunger.pdf}
\end{chart}
```

Note that our class redefines table environment!. For tables on separate pages use longtable.

\chartwidth \chartheight

Inside a chart, map or table it is useful to know the size allocated for the graphics or table, for example, to be able to scale the graphics. Two lengths, \chartwidth and \chartheight provide this information, so the user can say, for example,

\includegraphics[width=\chartwidth, height=\chartheight]{theChart}

\source

Inside a a chart, map or table the macro \source{ $\langle source \rangle$ } gives the source of the information, for example,

\Source{FAO, Statistical Division [FAOSTAT]}

\listoftables \listofcharts \listofmaps The standard LATEX has the command \listoftables to produce the list of tables in the document. Our class retains this command and produces two additional commands \listoftharts and \listoftharps with the obvious meaning.

2.8 Page Breaks

\clearpage \cleardoublepage \clearspread Standard IATEX has commands for immediate page break (e.g. \clearpage) and for switching to the next recto page, possibly ejecting the next verso page (\cleardoublepage). The class provides another command \clearspread. It switches to the next verso page, possibly ejecting the next recto page (and putting there floats intended for this page, if any).

2.9 Tables

tablepages

The tables at the end of a part should be typeset inside tablepages environment. The environment switches to the one column setup, decreases the margins and changes the font to \narrowfamily.

To typeset numericall items one should use \mathtt{d} column identifier with the format $\mathtt{d}\{\langle a.b \rangle\}$, where a is the number of decimal in the integer part of the number, and b is the number of decimal digitst in the fractional part. For example, a number 12.345 corresponds to $\mathtt{d}\{2.3\}$. The column headers are usually *not* numerical, so one need to use \multicolumn entries to typeset them. The class defines several such entries:

H produces a centered entry.

P produces an entry of a given length, for example, P{1.5cm}

C produces an entry of the length corresponding to the given number of numerical columns. For example, $C\{2\}$ corresponds to a header of two numerical columns. Each column is assumed to be of the size enough to store -99.999.

\hhline

For the rules that do not span the table width $\hhline{\langle specification\rangle}$ command from the hhline package should be used. The $\{\langle specification\rangle\}$ argument of this command has many variants, but for our purposes we need only one variant: the command – produces a horizontal line spanning one column. The color of this line is determined by the command $\arrayrulecolor\{\langle color\rangle\}$, issued in the last $\arrayrulecolor\{\alpha tableheadcolor\}\}$ – produces a line of the color $\arrayrulecolor\{\alpha tableheadcolor\}\}$ – produces a black line spanning three columns.

Thus if we have a four-column table and want a rule spanning columns 2–3, the following command should be issued:

```
\hhline{>{\arrayrulecolor{@tableheadcolor}}-% Column 1, no rule >{\arrayrulecolor{black}}--% Columns 2 and 3, black rule >{\arrayrulecolor{@tableheadcolor}}-}% Column 4, no rule
```

The usual * specification may be used for repeating patterns, for example, $*\{5\}\{-\}$ is equivalent to ----.

The vertical bar | specification in the \hhline argument means an interruption of the line. The interruption is by defalut a black interval, to make it the same color as the header background, use >{\arrayrulecolor{@tableheadcolor}}|.

The design of the tables in the current edition requires several important changes to the usual tables:

- 1. There should be no \toprule at the beginning of a table.
- 2. The first row header of a table must be empty and white; this is done by the command \cellcolor{white} in this cell.
- 3. \hhline separating rows in the header must not go through this first white cell; this is done by the ~ specificaton.

2.10 Publication Descriptions

\KeyResources

Publication descriptions normally are collected in a special section inside part introduction. This section is introduced by the command \KeyResources. There are two options that must be set by \faoset to use by this command: resourcesicon and resourcesname. The first is the filename of the icon used for section heading, the second is the name of the section, for example

```
\faoset{resourcesicon=icons/resources.png,
  resourcesname={Key Resources}}
```

publication

be put inside the environment publication. The environment has one mandatory argument, which is the title of the publication, and one optional argument, which sets the file name of the publication cover. Note that the option argument, if present, must precede the mandatory one. If this argument is absent, no cover is included. Inside the environment the macros $\poline{description}\$, $\poline{description}\$, $\poline{description}\$, are used to typeset the corresponding items related to the publication. For example,

FAO yearboook describes some FAO publications. These publications should

\pDescription \pEdition \pCycle pWeb

\begin{publication}[./Plots/StateOfFoodAndAgriculture.png]{The State
 of Food and Agriculture}

\pDescription{The State of Food and Agriculture, FAO's major annual flagship publication, aims at bringing to a wider audience balanced science-based assessments of important issues

```
in the field of food and agriculture. Each edition of the
  report contains a comprehensive, yet easily accessible, overview
  of a selected topic of major relevance for rural and
  agricultural development and for global food security. This is
  supplemented by a synthetic overview of the current global
  agricultural situation.}

\pEdition{2010}{Livestock in the balance}

\pEdition{2011}{Women in Agriculture Closing the gender gap for
  development}

\pCycle{May each year}

\pWeb{http://www.fao.org/docrep/013/i2050e/i2050e00.htm}

\end{publication}
```

Note that, as in the example, some fields may be repeated.

publicationparskip
 publicationskip

Two spacing parameters can be used for typesetting of publications: publicationskip is the amount of additional space between the publications, while publicationparskip is the space between the paragraphs inside the publication environment. The default values correspond to the command

```
\faoset{publicationskip=6pt plus 2pt minus 2pt,
publicationparskip=6pt plus 6pt minus 4pt}
```

2.11 Metadata

\metadatasection

The sources of the data are collected in special sections called "Metadata section". Each section is introduced by the command $\mbox{metadatasection}\{\langle title \rangle\}$, for example,

\metdatasection{Indicators}

metadata

The sources themselves are collected in the metadata environments. Each environment has one obligatory argument—the name of the source. It may include the following commands:

\key $\{\langle key \rangle\}$ sets the corresponding key which is used for labeling the metadata

\source \source{ $\langle source \rangle$ } sets the source of the data.

\owner \owner $\{\langle owner \rangle\}$ sets the owner of the data.

Note that there is no "description" command because any text which is not an argument of the commands above is considered to belong to the description of the data.

Example of the usage of these commands:

```
\metadatasection{Indicators}
\begin{metadata}{Agricultural population}
\key{agripop}%
```

Agricultural population is defined as all persons depending for their livelihood on agriculture, hunting, fishing and forestry. It comprises all persons economically active in agriculture as well as their non-working dependents. It is not necessary that this referred population exclusively come from rural population. \source{FILL ME} \owner{FILL ME} \end{metadata}

\refMetadata

The metadata is referenced by the command \mathbf{key} , for example

\refMetadata{agripop}

This command will not be typeset, but makes creates a backreference to the corresponding chart from the indicator section.

Note that the package automatically provides backreferencing: all charts, maps and tables where the medatada is referenced, are mentioned in the corresponding metadata section.

2.12 Further Reading

freading

The special environment freading is used for the "further reading" sections of the book. It starts the text from the new page and changes some defaults.

2.13 Subscripts in Text

\textsubscript

The standard IATEX defines \textsuperscript. The class adds a similar \textsubscript command.

3 Implementation

3.1 Options

```
\faoyearbook@size@warning
                           The font-changing options are not used in our setup, so we just produce a warning:
                              1 \long\def\faoyearbook@size@warning#1{%
                                 \ClassWarning{faoyearbook}{Size-changing option #1 will not be
                                   honored}}%
                              4 \DeclareOption{8pt}{\faoyearbook@size@warning{\CurrentOption}}%
                              5 \DeclareOption{9pt}{\faoyearbook@size@warning{\CurrentOption}}%
                              6 \DeclareOption{10pt}{\faoyearbook@size@warning{\CurrentOption}}%
                              7 \DeclareOption{11pt}{\faoyearbook@size@warning{\CurrentOption}}%
                              8 \DeclareOption{12pt}{\faoyearbook@size@warning{\CurrentOption}}%
                 \ifprint We have a flag shich shows whether we are in Web or print mode
                              9 \newif\ifprint
                             10 \printfalse
                             11 \DeclareOption{web}{\printfalse
                             12 \PassOptionsToPackage{paper=a4paper}{geometry}}
                             13 \DeclareOption{print}{\printtrue
                                 \PassOptionsToPackage{papersize={230mm,317mm},
                                   layouthoffset=1cm,layoutvoffset=1cm}{geometry}}
                             15
                 \ifDraft If we are in 'Draft' or 'draft mode', we print a word 'draft' across the page:
                             16 \newif\ifDraft
                             17 \Draftfalse
                             18 \DeclareOption{Draft}{\Drafttrue}
                             19 \DeclareOption{draft}{\Drafttrue}
            \if@issuumode Whether we need issuu-style links
                             20 \newif\if@issuumode
                             21 \@issuumodefalse
                             22 \DeclareOption{issuu}{\@issuumodetrue}
                               All other options are just sent to the main class:
                             23 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{report}}
                             24 \ProcessOptions\relax
                                  Loading Class and Packages
                           We start with the base class and some packages
                             25 \LoadClass[10pt,twoside,twocolumn]{report}
                             26 \RequirePackage{graphicx,xkeyval}
                             27 \RequirePackage[table,cmyk] {xcolor}
                             28 \RequirePackage{tikz,dcolumn}
                             29 \RequirePackage{geometry}
                             30 \usetikzlibrary{calc}
                             31 \RequirePackage{fancyhdr}
                             32 \RequirePackage{lscape,longtable,siunitx,booktabs}
```

```
33 \RequirePackage{multicol,atbegshi,picture,hhline,afterpage}
34 \RequirePackage[T1]{fontenc}
35 \RequirePackage[utf8x]{inputenc}
36 \RequirePackage{pdfpages}
37 \RequirePackage[authoryear]{natbib}
38 \RequirePackage[breaklinks]{hyperref}
39 \RequirePackage{bookmark}
40 \RequirePackage{adjmulticol,lettrine}
41 \if@issuumode
42 \RequirePackage{issuulinks}
43 \fi
    Options for the hyperef package are set as follows:
44 \ifprint
45 \hypersetup{breaklinks,colorlinks=false,pdfborder=0 0 0,}
          pdfauthor={FAO},
           pdfsubject={Statistical Yearbook of the Food And Agricultural Organization for the United National Organization for the Un
          pdftitle={Statistical Yearbook of the Food And Agricultural Organization for the United Nat:
          pdfkeywords={FAO, Food Security, Undernourishment, Sustainable agriculture},
          pdfpagelayout=TwoColumnLeft,
50
          pdfnewwindow=true
51
52 }
53 \else
54 \hypersetup{breaklinks,colorlinks=false,pdfborder=0 0 0,
          pdfauthor={FAO},
           pdfsubject={Statistical Yearbook of the Food And Agricultural Organization for the United No
           pdftitle={Statistical Yearbook of the Food And Agricultural Organization for the United Nat:
           pdfkeywords={FAO, Food Security, Undernourishment, Sustainable agriculture},
           pdfpagelayout=TwoColumnRight,
60
          pdfnewwindow=true
61 }
62 \fi
```

3.3 Color

We need to tell the printer that we are using CMYK color model. The following is taken from the pdfx package (the package itself is not too easy to make work).

```
63 \def\@pctchar{\expandafter\@gobble\string\\}
64 \def\@bchar{\expandafter\@gobble\string\\}
65 \immediate\pdfobj stream attr{/N 4} file{FOGRA39L.icc}
66 \edef\OBJ@CVR{\the\pdflastobj}
67 \pdfcatalog{/OutputIntents [ <<
68     /Type/OutputIntent
69     /S/GTS_PDFX
70     /OutputCondition (FOGRA39)
71     /OutputConditionIdentifier (FOGRA39 \@bchar(ISO Coated v2
72     300\@pctchar\space \@bchar(ECI\@bchar)\@bchar))
73     /DestOutputProfile \OBJ@CVR\space O R
74     /RegistryName(http://www.color.org)
75 >> ]}
```

```
\LettrineFontHook We want the drop caps to have @bgcolor
                     76 \renewcommand\LettrineFontHook{\color{@bgcolor}}
  \DefaultFindent The distance between the dropped capital and the text
                     77 \setlength\DefaultFindent{2pt}
                   3.4 Key-Value Interface
          \faoset We define the family fao for our keys:
                     78 \def\faoset#1{\setkeys{fao}{#1}}
                      One of the important keys is year
                     79 \define@key{fao}{year}{\gdef\fao@year{#1}}
                     80 \faoset{year=20XX}
                   3.5
                         Fonts
                   We use arev for mathematics:
                     81 \RequirePackage{arevmath}
                      For body text we use PT Sans:
                     82 \def\PTSans@scale{0.95}
                     83 \def\PTSansNarrow@scale{0.95}
                     84 \def\PTSansCaption@scale{0.95}
                     85 \renewcommand{\sfdefault}{PTSans-TLF}
                     86 \renewcommand{\familydefault}{\sfdefault}
                     87 \renewcommand{\bfdefault}{b}
    \narrowfamily We declare a new family, \narrowfamily:
                     88 \DeclareRobustCommand\narrowfamily{\fontfamily{PTSansNarrow-TLF}\selectfont}
      \textnarrow And the matching \textnarrow command:
                     89 \DeclareTextFontCommand{\textnarrow}{\narrowfamily}
   \captionfamily Same with \captionfamily:
                     90 \DeclareRobustCommand\captionfamily{\fontfamily{PTSansCaption-TLF}\selectfont}
     \textcaption And the matching \textcaption command:
                     91 \DeclareTextFontCommand{\textcaption}{\captionfamily}
      \normalsize The basic size is 9.6pt:
                     92 \renewcommand\normalsize{%
                          \@setfontsize\normalsize{9.6pt}{\@xiipt}%
                          \abovedisplayskip 10\p@ \@plus2\p@ \@minus5\p@
                     94
                          \abovedisplayshortskip \z@ \@plus3\p@
                     95
                     96
                          \belowdisplayshortskip 6\p@ \@plus3\p@ \@minus3\p@
                     97
                          \belowdisplayskip \abovedisplayskip
                          \let\@listi\@listI}
```

99 \normalsize

```
This is the small size:
\small
         100 \renewcommand\small{%
               \@setfontsize\small\@ixpt{10}%
               \abovedisplayskip 8.5\p@ \@plus3\p@ \@minus4\p@
         102
         103
               \abovedisplayshortskip \z@ \@plus2\p@
               \belowdisplayshortskip 4\p@ \@plus2\p@ \@minus2\p@
               \def\@listi{\leftmargin\leftmargini
         105
                            \topsep 4\p@ \@plus2\p@ \@minus2\p@
         106
                            \parsep 2\p0 \@plus\p0 \@minus\p0
         107
                            \itemsep \parsep}%
         108
               \belowdisplayskip \abovedisplayskip}
         109
           We use rm style of URL:
         110 \urlstyle{sf}
```

3.6 Margins and Paragraphing

```
We use not indented paragraphs with paragraph borders given by skips
\parindent
 \parskip
             111 \setlength\parindent\z@
             112 \setlength\parskip{6\p0 plus 6\p0 minus 4\p0}
               We use a4paper.
             113 \geometry{layout=a4paper,
                    left=5cm,right=3.5cm,bottom=2cm,top=76mm,
                    footskip=9mm, head=30mm, headsep=3mm,
             115
                    columnsep=6mm, twoside}%
             116
             117 \savegeometry{frontmatter}
             118 \geometry{layout=a4paper,
                  left=2cm,right=2cm,bottom=2cm,top=2.3cm,
                  footskip=9mm, head=30mm, headsep=3mm,
                  columnsep=6mm, twoside}%
             122 \savegeometry{standard}
```

3.7 Cropmarks

There are several packages that provide crop marks. Unfortunately they do not work for us because they put crop marks at the background. Since we have colored pages, we want crop marks to be on the foreground.

In this section we re-implement cropmarks of the **geometry** package, putting the marks on the foreground.

We postpone the code to the beginning of the document to get the proper value of the switch

```
123 \AtBeginDocument{\ifprint
124 \AtBeginShipout{\%}
125 \AtBeginShipoutUpperLeftForeground{\%}
126 \color{black}\%
127 \@tempdima=\Gm@layouthoffset
128 \@tempdimb=\Gm@layoutvoffset
```

```
\verb|\advance|@tempdima| by \verb|\Gm@layoutwidth| \\
                                                                                              131
                                                                                                                                         \displaystyle \downarrow \downar
                                                                                              132
                                                                                                                                         \displaystyle \frac{(0\text{tempdima}+6p@,-\Omega)}{(1,0)}}
                                                                                              133
                                                                                                                                          \advance\@tempdimb by \Gm@layoutheight
                                                                                              134
                                                                                              135
                                                                                                                                         \t (\ensuremath{\texttt{Qtempdima}}, -\ensuremath{\texttt{Qtempdimb-6}p0}){\ensuremath{\texttt{Qtime}}(0, -1){50}}\
                                                                                                                                          \t (\ensuremath{\tt 0}, -\ensuremath{\tt 0}, -\ensure
                                                                                              136
                                                                                                                                         \advance\@tempdima by -\Gm@layoutwidth
                                                                                              137
                                                                                                                                         \t (\ensuremath{\tt 0}, -\ensuremath{\tt 0}) {\tt 0}, -\ensuremath{\tt 0}, -
                                                                                              138
                                                                                                                                          139
                                                                                              140
                                                                                                         In draft mode we put the word 'DRAFT' across the page:
                                                                                              141 \AtBeginDocument{\ifDraft
                                                                                                                       \AtBeginShipout{%
                                                                                                                                 \AtBeginShipoutUpperLeft{%
                                                                                                                                          \color{black!25}%
                                                                                              144
                                                                                                                                         \@tempdima=\Gm@layouthoffset
                                                                                              145
                                                                                                                                         \@tempdimb=\Gm@layoutvoffset
                                                                                              146
                                                                                                                                          \advance\@tempdima by 0.2\Gm@layoutwidth
                                                                                              147
                                                                                                                                          \advance\@tempdimb by 0.7\Gm@layoutheight
                                                                                              148
                                                                                                                                          \put(\@tempdima, -\@tempdimb) {%
                                                                                                                                                    \rotatebox{45}{%
                                                                                              150
                                                                                                                                                             \fontsize{6cm}{6cm}\selectfont
                                                                                              151
                                                                                                                                                            DRAFT}}}\fi}
                                                                                              152
                                                                                          3.8
                                                                                                                         Setting Colors and Icons
                                                                                         This is the command that remembers the present color for TOC
\fao@color@string
                                                                                              153 \def\fao@color@string{0,0,0}
                   @bgcolor@next
                                                                                          We store the next background color in @bgcolor@next. We store the next heading
                                                                                          background in @tableheadcolor@next.
                                                                                         The command \setbgcolor selects the next background color:
                            \setbgcolor
                                                                                              154 \def\setbgcolor#1{\colorlet{@bgcolor@next}[cmyk]{#1}%
                                                                                              155
                                                                                                                       \@for\curr@ext:=\@toc@ext@list\do{%
                                                                                                                                \addtocontents{\curr@ext}{\string\colorlet{@bgcolor}[cmyk]{#1}}}%
                                                                                              156
                                                                                                                      \addtocontents{toc}{\string\colorlet{@bgcolor}[cmyk]{#1}}%
                                                                                              157
                                                                                                                       \gdef\fao@color@string{#1}}
                                                                                              159 \colorlet{@bgcolor@next}[cmyk]{white}
                                                                                                         The key-value interface for the same command:
                                                                                              160 \define@key{fao}{bgcolor}{\setbgcolor{#1}}
                                                                                                           And for separate setting of @tableheadcolor
                                                                                              161 \define@key{fao}{tableheadcolor}{\colorlet{@tableheadcolor}[cmyk]{#1}}
                                                                                        The current color is in the macro Obgcolor.
```

 $\t (\del{put} \del{put} \del{put}) {\del{put} (\del{put} \del{put}) {\del{put} (\del{put}) {\del} (\del{put}) {\del{put} (\del{put}) {\del} (\del{put}) {\del{put} (\del{put}) {\del} (\del{put}) {\del{put} (\del{put}) {\del} (\del{put})$

129

130

```
Otableheadcolor This command makes the actual color change:
                  \selectcolor
                                                  162 \def\selectcolor{\colorlet{@bgcolor}{@bgcolor@next}%
                                                   163 \colorlet{@tableheadcolor}{@bgcolor}}
                                                   164 \selectcolor
                          Otablebg The color for table pages
                                                   165 \end{fine} $$165 \end{fine} \end{fine} $$165 \end{fine} \end{fine} $$181 \end{fine} $
                          \seticon Setting the next icon for the part
                                                   166 \def\seticon#1{\gdef\next@icon{#1}}
                                                   167 \define@key{fao}{icon}{\seticon{#1}}
                    \selection The actual icon change
                  \currenticon
                                                  168 \def\selecticon{\gdef\currenticon{\next@icon}}
                                                   169 \def\next@icon{}
                          \newicon Define an icon #2 for the part #1
                                                   170 \def\newicon#1#2{\expandafter\gdef\csname @icon@#1\endcsname{#2}}
               \colored@icon The icon for us is just a mask. This will create a colored icon using background
                                                 @bgcolor
                                                   171 \newcommand\colored@icon[2][]{\bgroup\fboxsep=-1pt%
                                                           \fcolorbox{white}{@bgcolor}{\includegraphics[#1]{#2}}\egroup}
         \colored@icon@fg
                                                The icon for us is just a mask. This will create a colored icon using background
                                                 @bgcolor!#3
                                                   173 \newcommand\colored@icon@fg[3][]{\bgroup\fboxsep=-1\p@%
                                                           \fcolorbox{white}{@bgcolor!#3}{\includegraphics[#1]{#2}}\egroup}
                                                 3.9
                                                               Page Styles
               \evenfootmark The mark on even pages
                                                   175 \def\evenfootmark#1{\gdef\@evenfootmark{#1}}
                                                   176 \end{ark} \end{ark} Statistical Yearbook \end{arbo} \end{arbo} \end{arbo}
                  \oddfootmark The mark on odd pages
                                                   177 \def\oddfootmark#1{\gdef\@oddfootmark{#1}}
                                                   178 \oddfootmark{\rightmark}
                                                This is our page style for front matter
frontmatterpagestyle
                                                   179 \fancypagestyle{frontmatterpagestyle}{%
                                                              \fancyhf{}%
                                                              \fancyhfoffset[LR]{1.5cm}%
                                                   181
                                                              \renewcommand\headrulewidth{\z0}%
                                                   182
                                                              \fancyfoot[RO,LE]{%
                                                   183
                                                                  \bgroup
                                                   184
                                                   185
                                                                   \left( \int_{0}^{\infty} 10 \right)^{2}
                                                   186
                                                                   \raisebox{-\height}{\fcolorbox{white}{white}{\thepage}}%
```

```
\egroup}%
187
188 }
189 %
190 % \end{macro}
191 % \begin{macro}{spartpagestyle}
192 % \changes{v1.4}{2013/12/17}{Introduced macro}
      This is our page style for front matter
194 %
       \begin{macrocode}
195 \fancypagestyle{spartpagestyle}{%
    \fancyhf{}%
196
    \fancyhfoffset[LR]{3cm}%
197
198
    \renewcommand\headrulewidth{\z0}%
    \fancyfoot[RO,LE]{%
200
      \bgroup
201
      \setlength\fboxsep{10\p0}%
      202
203
    \egroup}%
204 }
205 %
206 % \end{macro}
208 % \begin{macro}{standardpagestyle}
209 % \changes{v1.3}{2013/12/14}{Changed position of footers}
210 \% \changes{v1.4}{2013/12/17}{Increased sizes}
211 %
      This is our main page style
212 %
       \begin{macrocode}
213 \fancypagestyle{standardpagestyle}{%
214
    \fancyhf{}%
    \fancyhfoffset[LR]{2.22cm}%
215
    \renewcommand\headrulewidth{\z0}%
216
    217
218
      \Huge\strut\ifnum\thepart>0\relax
219
      \thepart\fi\normalsize\dotfill}%
    \fancyhead[L0]{\hspace*{25\p0}\color{0bgcolor}\normalsize\dotfill
220
221
      \captionfamily\Huge\strut
      \leftmark\expandafter\ifx\csname @icon@\thepart\endcsname\relax\else\space
222
        \raisebox{-0.25\totalheight}{%
223
          \colored@icon[width=1.2cm]{\csname
224
225
           @icon@\thepart\endcsname}}\fi
        \hspace*{25\p0}}%
226
227
    \fancyfoot[LE]{%
228
      \bgroup
      \ensuremath{\hfboxsep{10\p0}}%
229
      \color{@bgcolor}%
230
      231
232
      \normalsize\dotfill
233
      234
    \egroup}%
235
    \fancyfoot[L0]{%
236
      \bgroup
```

```
\setlength\fboxsep{10\p0}%
                      237
                      238
                             \color{@bgcolor}%
                             \raisebox{-\height}{\hspace*{25\p0}\@oddfootmark}%
                      239
                             \verb|\normalsize| dotfill|
                      240
                             \raisebox{-\height}{\fcolorbox{@bgcolor}{\dbgcolor}{\color{white}\thepage}}%
                      241
                      242
                           \egroup}%
                      243 }
                      244 \pagestyle{standardpagestyle}
                     A picture in the part page. \Opart defines it to the combination of the current
\@partpagerpicture
                     icons
                      245 \def\@partpagepicture{}
                     The page style for the parts introduction
     partpagestyle
                      246 \fancypagestyle{partpagestyle}{%
                      247
                           \fancyhf{}%
                      248
                           \fancyhead[L]{%
                             \begin{picture}(0,0)
                      249
                      250
                               \@partpagepicture
                               \put(-7,63){%
                      251
                                 \raisebox{-\height}{\begin{tikzpicture}
                      252
                      253
                                   \fill[color=@bgcolor,opacity=.1]
                                   (0,0) rectangle ($(\textwidth,\textheight)+(5cm,5cm)$);
                      254
                                 \end{tikzpicture}}}
                      255
                             \end{picture}}
                      256
                           \fancyhfoffset[LR]{2.22cm}%
                      257
                           \renewcommand\headrulewidth{\z@}%
                      258
                      259
                           \fancyfoot[LE]{%
                      260
                             \bgroup
                             \setlength\fboxsep{10\p0}%
                      261
                             \color{@bgcolor}%
                      262
                             \raisebox{-\height}{\fcolorbox{@bgcolor}{\color{white}\thepage}}%
                      263
                      264
                             \normalsize\dotfill
                             \raisebox{-\height}{\@evenfootmark\hspace{20\p@}}%
                      265
                           \egroup}%
                      266
                           \fancyfoot[L0]{%
                      267
                             \bgroup
                      268
                             \setlength\fboxsep{10\p0}%
                      269
                      270
                             \color{@bgcolor}%
                      271
                             272
                             \normalsize\dotfill
                             \raisebox{-\height}{\fcolorbox{@bgcolor}{\@bgcolor}{\color{white}\thepage}}%
                      273
                      274
                           \egroup}%
                      275 }
  \fao@partblobtop
                     Some pages have "part blobs": colored blobs on the specific positions of the page.
                     These macros set the top and the bottom of the blob corresponding to the part
\fao@partblobbottom
                     set in the second parameter:
                      276 \def\fao@partblobtop#1#2{\expandafter\gdef\csname fao@blobstart#1\endcsname{#2}}
                      277 \def\fao@partblobbottom#1#2{\expandafter\gdef\csname fao@blobend#1\endcsname{#2}}
```

3.10 Nonfloats

In Faoyearbook we used float package. Since we changed too much in the internals, here we just rewrite the code from scratch.

\@toc@ext@list Added macro Comma-separated list of extensions for toc-like files:

278 \gdef\@toc@ext@list{toc}

\nf@vert@sep Vertical separation between the floats

279 \newlength\nf@vert@sep 280 \setlength\nf@vert@sep{10mm}

\nf@width The width of the nonfloat

281 \newlength\nf@width

 $\mbox{\footnotesize}$ The height of the nonfloat

282 \newlength\nf@height

\nf@captionheight The height reserved for the caption

283 \newlength\nf@captionheight 284 \setlength\nf@captionheight{11mm}

\nf@sourceheight The height reserved for the source lines

 $285 \ensuremath\ensuremath\ensuremath$

 $286 \verb|\setlength\nf@sourceheight{2\baselineskip}|$

\nf@margin Margin for floats

287 \newlength\nf@margin 288 \setlength\nf@margin{12\p@}

\nf@trianglebase The design requres a triangle under the caption. Here it is

 $289 \neq 0$

290 \setlength\nf@trianglebase $\{12\p0\}$

\chartwidth The resulting width of a chart

 $291 \neq 1$

\chartheight The resulting width of a chart

292 \newlength\chartheight

\nf@topskip Top separation for a nonfloat @topskip

\nf@bottomskip Bottom separation for a nonfloat @bottomskip

\nonfloat@type The counter to keep the next type to assign

293 \newcount\nonfloat@type 294 \nonfloat@type=4\relax \nf@contentsbox The box to keep the contents of the float

295 \newbox\nf@contentsbox

\nf@mainbox The box for the float

296 \newbox\nf@mainbox

\newnon@float The macro \newnon@float has the following arguments: TYPE, EXT, NAME for example

\newnon@float{map}{lom}{Map}

It defines a nonfloat with these parameters.

297 \def\newnon@float#1#2#3{%

First, we need to define \ftype@TYPE: the type of the float. Note that tables are taken, so we need to make a special care of nonfloats that correspond to floats.

- 298 \expandafter\ifx\csname ftype@#1\endcsname\relax
- 299 \expandafter\edef\csname ftype@#1\endcsname{\the\nonfloat@type}%
- 300 \multiply\nonfloat@type by 2\relax
- 301 \fi

Now we define the extension for the floats

- 302 \expandafter\def\csname ext@#1\endcsname{#2}%
- 303 \xdef\@toc@ext@list{\@toc@ext@list,#2}%

The macro \fnum@TYPE formats the line like "Figure 1". We need to check whether the counter is defined

- 304 \expandafter\ifx\csname the#1\endcsname\relax
- 305 \newcounter{#1}\fi
- 306 \expandafter\def\csname fnum@#1\endcsname{#3~\csname
- 307 the#1\endcsname}%

Now we want to define the environment TYPE. Since it might be already defined, we first delete this definition, otherwise \newenvironment might throw an error

- 308 \expandafter\let\csname #1\endcsname\relax
- 309 \expandafter\let\csname end#1\endcsname\relax

And the actual definition

310 \newenvironment{#1}{\non@float{#1}}{\endnon@float}}

\@getfirstletter An aux macro to get a first letter of a word. Used in constructs

- 311 \def\@getfirstletter#1{\@@getfirstletter#1}
- 312 \def\@@getfirstletter#1{#1\@gobbleword}

\edef\U{\@getfirstletter{AAAAA\@endword}}}

313 $\def\@gobbleword#1\@endword{}$

```
Now we are ready to define the \non@float macro. It has three parameters:
TYPE, SIZE and PLACEMENT. \nf@source is the source of the float.
 314 \def\non@float#1#2#3{
 315
      \def\@captype{#1}%
 316
      \def\nf@size{#2}%
 317
      \def\nf@placement{#3}%
The macro \nf@vert@pos is either u or 1
      \lowercase{\xdef\nf@vert@pos{\@getfirstletter#3\@endword}}
      \global\let\nf@source\@empty
   Define the source command inside float
      \def\source##1{\gdef\nf@source{##1}}
   Define the caption producing command:
 321 \long\def\@makecaption##1##2{\long\gdef\nf@caption{%
 322
        {\bfseries\large\color{white}
          \MakeUppercase{##1}: ##2}}}%
 323
 324 \gdef\nf@caption{}%
   We calculate the size of the float and skips
      \nf@width=\columnwidth
 325
 326
      \nf@height=\dimexpr(\textheight/2-\nf@vert@sep)%
 327
      \if\nf@vert@pos u\relax
        \nf@topskip=\z@
 328
 329
        \nf@bottomskip=\nf@vert@sep
 330
      \else
 331
        \nf@topskip=\nf@vert@sep%
 332
        \nf@bottomskip=\z@
 333
 334
      \def\tempW{W}%
      \def\tempT{T}%
 335
      \def\tempB{B}%
 336
      \ifx\nf@size\tempW
 337
        \nf@width=\textwidth
 338
 339
      \fi
      \ifx\nf@size\tempT
 340
        \nf@height=\textheight
 341
        \nf@topskip=\z@
 342
        \nf@bottomskip=\z@
 343
 344
      \ifx\nf@size\tempB
 345
        \nf@width=\textwidth
 346
 347
        \nf@height=\textheight
        \nf@topskip=\z@
 348
        \nf@bottomskip=\z@
 349
 350
      \chartheight=
 351
        \dimexpr(\nf@height-\nf@captionheight-\nf@sourceheight
 352
```

-2\nf@margin-\nf@trianglebase)%

\ifx\nf@size\tempB

353

354

```
355
                        \advance\chartheight by -2\baselineskip
                356
                      \fi
                      \ifx\nf@size\tempT
                357
                        \advance\chartheight by -2\baselineskip
                358
                      \fi
                359
                360
                      \chartwidth=\dimexpr(\nf@width-2\nf@margin-0.5\nf@trianglebase)%
                361
                      \nf@height=\dimexpr(\nf@height+\nf@topskip+\nf@bottomskip)%
                   Now we construct the main box.
                      \global\setbox\nf@contentsbox
                362
                        \color@vbox
                363
                364
                         \normalcolor
                         \vbox to \chartheight
                365
                         \bgroup
                366
                         \hsize\chartwidth
                367
                368
                         \@parboxrestore
                         \@floatboxreset
                369
                370 }
               The actual typesetting
\endnon@float
                371 \def\endnon@float{\@endfloatbox\par
                372
                      \hsize=\nf@width
                      \setbox\nf@mainbox=\vbox to \nf@height\bgroup
                373
                        \hsize=\chartwidth
                374
                375
                        \vskip\nf@topskip
                376
                        \noindent
                377
                        \begin{picture}(0,0)%
                          \put(0,0){\color{@bgcolor}%
                378
                            \begin{tikzpicture}[baseline=(current bounding box.north)]
                379
                              \fill (0,0) -- (\nf@trianglebase,0) --
                380
                              (0.5\nf@trianglebase, -\nf@trianglebase) -- cycle;
                381
                            \end{tikzpicture}}
                        \end{picture}%
                383
                        \def\@tempa{chart}%
                384
                        \ifx\@tempa\@captype
                385
                        \begin{picture}(0,0)%
                386
                          \put(0,0){\color{@bgcolor}%
                387
                            \begin{tikzpicture}[baseline=(current bounding box.north)]
                388
                389
                              \forall 0,0 -- (\inf \emptyset \text{ width}, 0);
                390
                              \draw (0.5\nf@trianglebase,-2\nf@trianglebase) --
                              (0.5 \nf@trianglebase, -\chartheight-2 \nf@trianglebase
                391
                              -\nf@margin) --
                392
                               (\nf@width-\pgflinewidth, -\chartheight-2\nf@trianglebase
                393
                394
                              -\nf@margin) -- (\nf@width-\pgflinewidth, 0);
                            \end{tikzpicture}}
                        \end{picture}%
                396
                397
                        \label{lem:color@block(\nf@width){\nf@captionheight}{.1\p0}}% $$
                398
                        \hskip\dimexpr(\nf@margin+0.5\nf@trianglebase)%
                399
                        \vbox to \nf@captionheight\bgroup
                400
```

```
\nf@caption\vfill\normalcolor
                   401
                           \egroup\par\nointerlineskip\vskip\nf@trianglebase
                   402
                           \vskip\nf@margin
                   403
                           \noindent\hskip\dimexpr(\nf@margin+0.5\nf@trianglebase)%
                   404
                           \box\nf@contentsbox\par\nointerlineskip
                   405
                   406
                           \vskip\nf@margin
                   407
                           \hskip\dimexpr(\nf@margin+0.5\nf@trianglebase)%
                           \vbox to \nf@sourceheight\bgroup
                   408
                          \leftskip-\nf@margin\parskip\z@\parindent\z@
                   409
                          \ifx\nf@source\@empty\else
                   410
                           \vskip0.5\baselineskip
                   411
                   412
                           \color{@bgcolor}%
                            \rule{.2em}{.2em}~\rule{.2em}{.2em}~%
                   413
                             \rule{.2em}{.2em}~\rule{.2em}{.2em}~%
                   414
                            \rule{.2em}{.2em}~\rule{.2em}{.2em}~%
                   415
                            416
                          Source: \nf@source\par\vfill\fi\egroup
                   417
                          \vfill\egroup
                   418
                   419
                          \edef\nf@currbox{\expandafter\csname nfbox@\nf@size
                   420
                            @\nf@placement\endcsname}%
                           \global\setbox\nf@currbox=
                   421
                           \vbox{\box\nf@currbox\nointerlineskip\penalty0\box\nf@mainbox}}
                   422
                  A standard nonfloat:
                   423 \neq 0 \{10m}{Map}
                  The name for the list of maps
  \listofmapsname
                   424 \def\listofmapsname{List of Maps}
           \table Another one
                   425 \newnon@float{table}{lot}{Table}
           \chart And another one
                   426 \neq 0 \newnon@float{chart}{loc}{Chart}
                  The name for the list of charts
\listofchartsname
                   427 \def\listofchartsname{List of charts}
```

3.11 Output Routine

This is hairy because output routines are hairy...

We need several insert boxes. Naming convention: the letter for the box size and two letter code for the location. We use \newbox instead of \newinsert since we do not use associated \count, \dimen and \skip registers.

```
428 \newbox\nfbox@S@ul
429 \newbox\nfbox@S@ur
```

430 \newbox\nfbox@S@11

 $431 \newbox\nfbox@S@lr$

```
432 \newbox\nfbox@S@UL
433 \newbox\nfbox@S@UR
434 \newbox\nfbox@S@LL
435 \newbox\nfbox@S@LR
436 \newbox\nfbox@T@ul
437 \newbox\nfbox@T@ur
438 \newbox\nfbox@T@UL
439 \newbox\nfbox@T@UR
440 \newbox\nfbox@W@ul
441 \newbox\nfbox@W@ll
442 \newbox\nfbox@W@UL
443 \newbox\nfbox@W@LL
444 \newbox\nfbox@B@ul
445 \newbox\nfbox@B@UL
Standard LATEX has \@tempboxa. We need more...
446 \ifx\@tempboxb\@undefined
447 \newbox\@tempboxb
448 \fi
```

\standard@output

\@tempboxb

The standard LATEX output routine is saved as \standard@output. We use it for one column pages—maybe one even wants a standard float here?

 $449 \edgh{\scalebox{ }\cline{1.5}}$

\output Right now we use standard output on one column pages and the new one with two columns

 $450 \cot {\inf @two column \th \nf @output \else \standard @output \fi}$

\nf@output Here we define our own output routine.

- 451 \newtoks\nf@output
- $452 \nf@output {%}$

We define the current boxes $\colon Current boxes$. . . Also, uc or 1c mean Upper or Lower Current column

453 \ifodd\c@page \global\let\curr@nfbox@S@ul\nfbox@S@UL 454 \global\let\curr@nfbox@S@ur\nfbox@S@UR 455 \global\let\curr@nfbox@S@ll\nfbox@S@LL 456 \global\let\curr@nfbox@S@lr\nfbox@S@LR 457 \global\let\curr@nfbox@T@ul\nfbox@T@UL 458 459 \global\let\curr@nfbox@T@ur\nfbox@T@UR \global\let\curr@nfbox@W@ul\nfbox@W@UL 460 461 \global\let\curr@nfbox@W@ll\nfbox@W@LL 462 \global\let\curr@nfbox@B@ul\nfbox@B@UL 463 \else \global\let\curr@nfbox@S@ul\nfbox@S@ul 464 \global\let\curr@nfbox@S@ur\nfbox@S@ur 465 466 \global\let\curr@nfbox@S@ll\nfbox@S@ll \global\let\curr@nfbox@S@lr\nfbox@S@lr 467

```
\global\let\curr@nfbox@T@ul\nfbox@T@ul
468
       \global\let\curr@nfbox@T@ur\nfbox@T@ur
469
       \global\let\curr@nfbox@W@ul\nfbox@W@ul
470
       \global\let\curr@nfbox@W@ll\nfbox@W@ll
471
       \global\let\curr@nfbox@B@ul\nfbox@B@ul
472
473
     \fi
474
     \if@firstcolumn
475
       \global\let\curr@nfbox@S@uc\curr@nfbox@S@ul
       \global\let\curr@nfbox@S@lc\curr@nfbox@S@ll
476
       \global\let\curr@nfbox@T@uc\curr@nfbox@T@ul
477
478
     \else
479
       \global\let\curr@nfbox@S@uc\curr@nfbox@S@ur
       \global\let\curr@nfbox@S@lc\curr@nfbox@S@lr
480
       \global\let\curr@nfbox@T@uc\curr@nfbox@T@ur
481
482
     \let \par \@@par
483
484 %
485 % There are several possibilities when we start the output routine for
486 % a single column in a two-column layout.
487 % \begin{enumerate}
488 % \item Wide or big non-floats completely cover the page. In this
489\ \% case we do not need to create columns, and directly go to the
490 % output.
491 % \item The columnd is occupied by tall or single nonfloats. We make
492 % a column of nonfloats and send it further.
493 \% \item There is room for text on the page, but its height
494 \% (\cs{@colroom}) is different from the one known to the page builder
495\% (\cs{vsize}). In this case we change \cs{vsize} and return.
496 % \item The room for text is exactly \cs{vsize}. In this case we form
497 % a column and return.
498 % \end{enumerate}
499 %
        \begin{macrocode}
     \global\@colht=\textheight
500
     \ifdim\ht\curr@nfbox@B@ul>0.5\baselineskip
501
502
       \global\advance\@colht by -\textheight
503
     \ifdim\ht\curr@nfbox@W@ul>0.5\baselineskip
504
       \global\advance\@colht by -0.5\textheight
505
506
     \ifdim\ht\curr@nfbox@W@ll>0.5\baselineskip
507
       \global\advance\@colht by -0.5\textheight
508
509
     \ifdim\@colht < \baselineskip
       \nf@output@widepage
511
512
     \else
       \nf@makecol
513
     \fi
514
515 }
```

\nf@output@widepage The macro \nf@output@widepage outputs a page completely filled by wide pic-

tures.

```
516 \ensuremath{\mbox{\sc boutput@widepage}}\xspace \ensuremath{\mbox{\sc bo
                 \unvbox\@cclv
                  \penalty\outputpenalty
518
519
                  \if@firstcolumn\else
                  \ClassError{faosyb}{Wide or big nonfloats defined too late. Move
                        them up}{I encountered Big or Wide floats when I already made the
521
522
                        first column. Please move them up}
523
                 \ifdim\ht\curr@nfbox@B@ul>0.5\baselineskip
524
                            \setbox\@tempboxa\vsplit\curr@nfbox@B@ul to \textheight
525
                            \setbox\@outputbox \vbox\bgroup
526
                            \boxmaxdepth \@maxdepth
527
                            \box\@tempboxa
528
                            \vfill
529
                            \egroup
530
531
                  \else
532
                            \setbox\@tempboxa\vsplit\curr@nfbox@W@ul to 0.5\textheight
533
                            \setbox\@tempboxb\vsplit\curr@nfbox@W@ll to 0.5\textheight
                            \setbox\@outputbox\vbox\bgroup
534
                                       \boxmaxdepth \@maxdepth
535
                                       \box\@tempboxa
536
                                       \nointerlineskip
537
                                       \box\@tempboxb
538
539
                                       \vfill
540
                            \egroup
541
                  \global\vsize\textheight
542
                  \global\@colht\textheight
543
                  \@outputpage
544
545
                  \@firstcolumntrue
546 }
```

\nf@makecol

This macro tries to make one column of text. If successful, it puts first column into temporary storage, and outputs the page when or if the second column is ready.

When we start \nf@makecol, \@colht already reflects possible wide nonfloats. This to get \@colroom, we need to take into account only the narrow ones

```
547 \ensuremath{\mbox{def}\mbox{nf@makecol}{\%}}
     \global\@colroom\@colht
548
     \ifdim\ht\curr@nfbox@T@uc>0.5\baselineskip
549
         \global\@colroom=0pt
550
551
     \ifdim\ht\curr@nfbox@S@uc>0.5\baselineskip
552
         \global\advance\@colroom by -0.5\textheight
553
554
     \ifdim\ht\curr@nfbox@S@lc>0.5\baselineskip
555
         \global\advance\@colroom by -0.5\textheight
556
557
     \fi
```

Now there could be two cases. If **\@colroom** is small, we fill the column with the non-floats only. Otherwise we have a "mixed" column with both text and nonfloats.

```
558 \ifdim\@colroom<0.5\baselineskip
559 \nf@makenfcol
560 \else
561 \nf@makemixedcol
562 \fi}</pre>
```

\nf@makenfcol

This macro outputs a column with only non-floats. If it is called, we already know that the narrow non-floats would fill the column, so we do not do any additional checks.

```
563 \def\nf@makenfcol{%
     \unvbox\@cclv
     \penalty\outputpenalty
565
     \ifdim\@colht>0.9\textheight % one tall or two squares
566
       \ifdim\ht\curr@nfbox@T@uc>0.5\baselineskip
567
         \setbox\@outputbox\vbox\bgroup
568
         \boxmaxdepth \@maxdepth
569
         \vsplit \curr@nfbox@T@uc to \textheight
570
571
         \egroup
572
       \else
        \setbox\@outputbox\vbox\bgroup
573
         \boxmaxdepth \@maxdepth
574
         \vsplit\curr@nfbox@S@uc to 0.5\textheight
575
576
          \nointerlineskip
          \vsplit\curr@nfbox@S@lc to 0.5\textheight
577
578
        \egroup
       \fi
579
     \else % one square
580
       \ifdim\ht\curr@nfbox@S@uc>0.49\textheight
581
         \setbox\@outputbox\vsplit \curr@nfbox@S@uc to 0.5\textheight
582
583
       \else
584
         \setbox\@outputbox\vsplit \curr@nfbox@S@lc to 0.5\textheight
585
       \fi
     \fi
586
     \nf@opcol
587
588 }
```

\nf@makemixedcol

This macros used when we have a mix of text with nonfloats (or possibly just text).

We check whether the page builder has the right idea about the text size; if not, we return from the output routine

```
589 \def\nf@makemixedcol{%
590 \ifdim\@colroom=\vsize
591 \nf@makemixedcol@
592 \else
593 \global\vsize=\@colroom
594 \unvbox\@cclv
```

```
595
                           \penalty\outputpenalty
                   596
                         \fi}
                  And now the real work of \nf@makemixedcol@
\nf@makmixedcol@
                   597 \def\nf@makemixedcol@{%
                          \ifvoid\footins
                   599
                            \setbox\@outputbox \box \@cclv
                   600
                          \else
                   601
                            \setbox\@outputbox \vbox {%
                              \boxmaxdepth \@maxdepth
                   602
                              \unvbox \@cclv
                   603
                              \vskip \skip\footins
                   604
                   605
                              \color@begingroup
                                \normalcolor
                   606
                   607
                                \footnoterule
                                \unvbox \footins
                   608
                              \color@endgroup
                   609
                              }%
                   610
                   611
                          \fi
                   612
                          \ifdim\ht\curr@nfbox@S@uc>0.49\textheight
                            \setbox\@tempboxa\vsplit\curr@nfbox@S@uc to 0.5\textheight
                   613
                   614
                            \setbox\@outputbox \vbox
                   615
                              \bgroup
                                \box\@tempboxa
                   616
                                \nointerlineskip
                   617
                   618
                                \box\@outputbox
                   619
                              \egroup
                          \fi
                   620
                          \ifdim\ht\curr@nfbox@S@lc>0.49\textheight
                   621
                            \setbox\@tempboxa\vsplit\curr@nfbox@S@lc to 0.5\textheight
                   622
                            \setbox\@outputbox \vbox
                   623
                   624
                              \bgroup
                   625
                                \box\@outputbox
                                \nointerlineskip
                   626
                   627
                                \box\@tempboxa
                   628
                              \egroup
                   629
                          \fi
                          \nf@opcol
                   630
                   This is like the standard LATEX \@outputdblcol, but with the treatment of wide
       \nf@opcol
                   nonfloats.
                   631 \def\nf@opcol{%
                         \if@firstcolumn
                           \global\@firstcolumnfalse
                   633
                           \verb|\global\setbox|@leftcolumn\box|@outputbox|
                   634
                   635
                   636
                           \global\@firstcolumntrue
                           \ifdim\ht\curr@nfbox@W@ul>0.5\baselineskip
                   637
                   638
                             \setbox\@tempboxa\vsplit \curr@nfbox@W@ul to 0.5\textheight
                   639
                           \else
```

```
641
                              \setbox\@outputbox \vbox\bgroup
                      642
                                \box\@tempboxa
                      643
                                \nointerlineskip
                      644
                      645
                                \hb@xt@\textwidth {%
                      646
                                  \hb@xt@\columnwidth {%
                                    \box\@leftcolumn \hss}%
                      647
                                  \hfil
                      648
                                  {\normalcolor\vrule \@width\columnseprule}%
                      649
                                  \hfil
                      650
                                  \hb@xt@\columnwidth {%
                      651
                      652
                                    \box\@outputbox \hss}%
                                }%
                      653
                      654
                              \egroup
                              \ifdim\ht\curr@nfbox@W@ll>0.5\baselineskip
                      655
                                \setbox\@tempboxa\vsplit \curr@nfbox@W@ll to 0.5\textheight
                      656
                                \setbox\@outputbox\vbox\bgroup
                      657
                      658
                                  \box\@outputbox
                      659
                                  \nointerlineskip
                                  \box\@tempboxa
                      660
                      661
                                \egroup
                      662
                              \fi
                      663
                              \@outputpage
                              \global\vsize\textheight
                      664
                      665
                              \global\@colht\textheight
                      666
                              \global\@colroom\textheight
                             fi
                      The usual \clearpage flushes the floats. We keep it in \standard@clearpage
\standard@clearpage
                      668 \let\standard@clearpage\clearpage
         \clearpage
                      Now we can define \clearpage to take care of the mode:
                      669 \def\clearpage{%
                      670
                            \if@twocolumn
                      671
                              \nf@clearpage
                              \standard@clearpage
                      673
                      674 \fi}
    \nf@totalheight
                      The total height of all non-floats
                      675 \def\nf@totalheight{\dimexpr(%
                      676
                            \ht\nfbox@S@UL+
                      677
                            \ht\nfbox@S@UR+
                      678
                            \ht\nfbox@S@LL+
                      679
                            \ht\nfbox@S@LR+
                            \ht\nfbox@T@UL+
                      680
                            \ht\nfbox@T@UR+
                      681
                            \ht\nfbox@W@UL+
                      682
```

\setbox\@tempboxb\box\@tempboxa

640

```
\ht\nfbox@W@LL+
                 683
                       \ht\nfbox@B@UL+
                 684
                       \ht\nfbox@S@ul+
                 685
                       \ht\nfbox@S@ur+
                 686
                       \ht\nfbox@S@11+
                 687
                 688
                       \ht\nfbox@S@lr+
                 689
                       \ht\nfbox@T@ul+
                       \ht\nfbox@T@ur+
                 690
                       \ht\nfbox@W@ul+
                 691
                       \ht\nfbox@W@ll+
                 692
                       \ht\nfbox@B@ul)}
                 693
 \nf@clearpage
                We keep ejecting pages until get rid of nf stuff
                     \def\nf@clearpage{%
                       \write\m@ne{}%
                       \if@firstcolumn
                 696
                         \ifdim\dimexpr(\pagetotal+\nf@totalheight)>\baselineskip
                 697
                         \leavevmode
                 698
                          \null\vfill\newpage
                 699
                          \null\vfill\newpage
                 700
                 701
                         \fi
                 702
                       \else
                        \leavevmode
                 703
                 704
                        \null\vfill\newpage
                 705
                 706
                       \ifdim\nf@totalheight>\baselineskip
                 707
                       \nf@clearpage\fi
                 708 }
                This is like \cleardoublepage, but with the logic inverted:
  \clearspread
                 709 \def\clearspread{\clearpage\ifodd\c@page
                         \hbox{}\newpage\if@twocolumn\hbox{}\newpage\fi\fi\@firstcolumntrue}
                    We need to clear everything at the end
                 711 \AtEndDocument{\if@twocolumn
                      \ifdim\nf@totalheight>\baselineskip
                       \null\vfill\clearpage\fi
                 714 \fi}
                         Sectioning
                3.12
\ifCmainmatter This is used to check whether we are at main matter
                 715 \newif\if@mainmatter
                We want Arabic numbers for front matter:
  \frontmatter
                 716 \def\frontmatter{%
                       \pagestyle{frontmatterpagestyle}%
                       \onecolumn\@mainmatterfalse}
```

\mainmatter We want Arabic numbers for main matter: 719 \def\mainmatter{\loadgeometry{standard}\onecolumn \@mainmattertrue} \tocdepth Only sections and up are allowed in TOC: 721 \setcounter{tocdepth}{1} \secnumdepth Only the parts are numbered in out setup: 722 \setcounter{secnumdepth}{-1} \thepart And the parts are numbered using Arabic numbers: 723 \renewcommand \thepart {\@arabic\c@part} \c@fao@partnum To draw the blobs in part color in the proper position, we need to associate them with parts. However, some parts are numbered, some are not. The macro \fao@partnum keeps the current part number counted continuously from the beginning to end. 724 \newcounter{fao@partnum} 725 \setcounter{fao@partnum}{0} The current value of \fao@partnum used in TOC: \fao@currentpartnum 726 \def\fao@currentpartnum{0} \part The largest partition in the book 727 \renewcommand\part{% \secdef\@part\@spart} This command switches off the special formatting of part pages: \EndPartIntro 729 \def\EndPartIntro{\clearpage 730 \end{adjmulticols}\clearspread\twocolumn\normalcolor \pagestyle{standardpagestyle}} Fill a line with the icons of increasing size. The parameters are the initial size, length of the strip and the intensity of the background 732 \def\@maxpart{1} 733 \def\iconfill#1#2#3{% \expandafter\ifx\csname @icon@1\endcsname\relax\strut\else \@tempcnta=1 \setbox\@tempboxa=\hbox{}% 736 737 \loop 738 \@tempdima=#1 \setbox\@tempboxa=\hbox{\unhbox\@tempboxa 739 \colored@icon@fg[width=\@tempdima]{\csname 740 741@icon@\the\@tempcnta\endcsname}{#3}\hspace{0.3\@tempdima}}% \advance\@tempcnta by 1\relax \ifnum\@tempcnta>\@maxpart\relax\@tempcnta=1\fi 744 \ifdim\wd\@tempboxa>#2\else\repeat \unhbox\@tempboxa 745 \fi} 746

```
\currenticonfill Several iterations of the current icon with increasing sizes. The parameters are
                   the initial size, length and the intensity of the background.
                    747 \def\currenticonfill#1#2#3{%
                          \expandafter\ifx\csname @icon@\thepart\endcsname\relax\strut\else
                    749
                          \setbox\@tempboxa=\hbox{}%
                    750
                          \@tempdima=#1
                    751
                          \loop
                    752
                          \@tempdima=1.44\@tempdima
                          \setbox\@tempboxa=\hbox{\unhbox\@tempboxa
                    754
                            \colored@icon@fg[width=\@tempdima]{\csname
                    755
                               @icon@\thepart\endcsname}{#3}\hspace{0.2\@tempdima}}%
                    756
                          \ifdim\wd\@tempboxa>#2\else\repeat
                    757
                          \unhbox\@tempboxa
                          \fi}
                    758
          \@part This is the actual part making macro.
                    759 \def\@part[#1]#2{%
                          \clearspread
                          \onecolumn
                    761
                    762
                          \clearspread
                          \selectcolor
                    763
                          \selecticon
                    764
                          \color{@bgcolor}%
                    765
                    766
                          \rowcolors{2}{@bgcolor!10}{}%
                          \pagestyle{partpagestyle}%
                    768
                          \refstepcounter{part}%
                    769
                          \addcontentsline{toc}{part}{\thepart\hspace{1em}#1}%
                          \protected@write\@auxout{}%
                    770
                    771
                          {\string\newicon{\thepart}{\currenticon}
                    772
                            \string\gdef\string\@maxpart{\thepart}}%
                          \def\@partpagepicture{%
                            \put(-15, -500){\rotatebox{30}{\%}}
                    774
                              \confill{1.2cm}{0.4\text{textwidth}}{20}%
                    775
                              \c currentic confill \{1.2cm\} \{0.6 \land textwidth\} \{20\}\} \} \%
                    776
                            \put(40,-550){\text{cotatebox}(30}{\%}
                    777
                               \iconfill{1.2cm}{1.2\text{textwidth}}{100}}%
                    778
                    779
                            \put(40,-600){\rotatebox{30}{%
                               \c) 1.2\t){1.2\t}{20}}
                    780
                    781 }
                    782
                          \markboth{#1}{#1}%
                          \null
                    783
                          \newpage
                    784
                          \label{locality} $$ \left(\frac{00,-180}{\cdot 0,-180}\right)_{0.5cm}_{13.5cm}_{20}}% $$ \operatorname{locality}_{13.5cm}_{20}}% $$ \operatorname{locality}_{13.5cm}_{20}}% $$ $$ \operatorname{locality}_{13.5cm}_{20}}% $$
                    785
                          \gdef\@partpagepicture{}}
                          {\interlinepenalty \@M
                    787
                    788
                            \vspace*{80\p0}
                            \captionfamily
                    789
                            790
```

791

```
792
                                                                                                                                                 \arrowvert \arrowver
                                                                                               793
                                                                                                                           }\par\normalcolor
                                                                                                                           \begin{adjmulticols}{1}{44mm}{0mm}}
\@currentsymbol he symbol for the next unnumbered part
                                                                                               795 \define@choicekey*+{fao}{symbol}[\val\nr]%
                                                                                               796 {righttriangle, square, rightsemicircle}{%
                                                                                               797
                                                                                                                           \ifcase\nr\relax
                                                                                                                                       \downarrow \downarro
                                                                                               798
                                                                                               799
                                                                                                                                 \dots = \frac{0}{0} - \frac{0}{0
                                                                                               800
                                                                                               801
                                                                                                                                           cycle}%
                                                                                               802
                                                                                                                           \or
                                                                                                                                 \gdef\@currentsymbol{(0,0) arc[start angle=90, end angle=-90, x
                                                                                               803
                                                                                                                                           radius = 0.5ex, y radius = 0.5ex] -- cycle}%
                                                                                               804
                                                                                               805
                                                                                               806 }{\ClassError{faosyb}{Bad symbol value \val}}
                                                                                               807 \faoset{symbol=square}
                                          \@spart
                                                                                           Unnnumbered parts are only in the foreword
                                                                                               808 \def\@spart#1{%
                                                                                               809
                                                                                                                           \cleardoublepage
                                                                                                                           \loadgeometry{frontmatter}%
                                                                                               810
                                                                                                                           \pagestyle{spartpagestyle}%
                                                                                               811
                                                                                               812
                                                                                                                           \onecolumn
                                                                                                                           \selectcolor
                                                                                               813
                                                                                                                           \selecticon
                                                                                                                           \rowcolors{2}{@bgcolor!10}{}%
                                                                                               815
                                                                                                                           \phantomsection
                                                                                               816
                                                                                                                           \addcontentsline{toc}{spart}{\hspace{1em}#1}%
                                                                                               817
                                                                                                                           \makebox[0pt]{%
                                                                                               818
                                                                                               819
                                                                                                                                                      \raisebox{-\totalheight}%
                                                                                               820
                                                                                                                                                        [Opt][Opt]{\rotatebox{90}{\fontsize{9mm}{9mm}\selectfont
                                                                                               821
                                                                                                                                                                            \captionfamily
                                                                                                                                                                            \tikz\fill[color=@bgcolor]\@currentsymbol;\space
                                                                                               822
                                                                                               823
                                                                                                                                                                            \color{gray}#1\strut}}%
                                                                                                                                            \hspace*{50pt}}\par\vspace*{-\baselineskip}%
                                                                                               824
                                                                                                                     \vspace*{-\parskip}}
                                                                                               825
                                                                                          We do not want to have uppercase sections in the footers
                \sectionmark
                                                                                               826 \def\sectionmark#1{\markright{#1}}
                                     \section New sections start on a recto page in one column mode and on a verso page in
                                                                                           two column mode
                                                                                               827 \renewcommand\section{\par\clearspread
                                                                                                                           \@startsection {section}{1}{\z@}%
                                                                                               828
                                                                                               829
                                                                                                                                                                                                                                                                                                              {-1sp}%
                                                                                                                                                                                                                                                                                                              {2.3ex \@plus.2ex}%
                                                                                               830
                                                                                               831
                                                                                                                                                                                                                                                                                                              {\normalfont\Large\bfseries\raggedright
                                                                                               832
                                                                                                                                                                                                                                                                                                              \color{@bgcolor}}}
```

```
\subsection The subsection macro
                  833 \renewcommand\subsection{\Qstartsection{subsection}{2}{\zQ}%
                                                            {-1sp}%
                                                            {1.5ex \@plus .2ex}%
                  835
                  836
                                                            {\normalfont\large\bfseries\raggedright
                  837
                                                            \color{@bgcolor}}}
                         Tables
                 3.13
   \tablepages Long tables at the end of a part
                  838 \newenvironment{tablepages}{\onecolumn
                       \bgroup\narrowfamily\multicolsep=\z@
                       \vspace*{-2cm}%
                       \def\emph{\textsl}%
                  841
                       \begin{adjmulticols}{1}{-1.3cm}{-1.3cm}\centering\normalcolor}%
                  842
                       {\end{adjmulticols}\egroup}
      \tablemph
                 Some styles define \tablemph commands. Here we supply a stub
                  844 \AtBeginDocument{\providecommand{\tablemph}[1]{\emph{#1}}}
                     We define new column types for table headers:
                  845 \newcolumntype{d}[1]{D{.}{.}{#1}}
                  846 \newcolumntype{H}{\columncolor{@tableheadcolor}[1.01\tabcolsep][1.01\tabcolsep]}c}
                     P columntype is much more complex. Basically we want a centered entry with
                 a parbox of the given width inside.:
                  847 \newcolumntype{P}[1]{>{\columncolor{@tableheadcolor}[1.01\tabcolsep][1.01\tabcolsep]}
                         \@fao@Pentry{#1}}c<{\end@fao@Pentry}}
                 Since \parbox needs "real" braces to delimit the argument, we use this trick. Note
   \@fao@Pentry
                 \hspace{0pt} to allow TeX to hyphenate the first word.
                  849 \def\@fao@Pentry#1#2\end@fao@Pentry{%
                  850 \parbox[t]{#1}{\centering\strut\hspace{\z@}#2\strut}}
                    Same with C entry:
                  851 \newcolumntype{C}[1]{>{\columncolor{@tableheadcolor}[1.01\tabcolsep][1.01\tabcolsep]%
                         \@fao@Centry{#1}}c<{\end@fao@Centry}}
   \@fao@Centry
                 This macro is similar to \OfaoQPentry, but with different way to set the width of
                 the \parbox:
                  853 \def\@fao@Centry#1#2\end@fao@Centry{%
                  854 \settowidth{\ensuremath{\ensuremath{\$-99.999\$}\%}
                  855 \@tempdima=#1\@tempdima\relax
                  856 \parbox[t]{\@tempdima}{\centering\strut\hspace{\z@}#2\strut}}
                 This macro produces the caption for the long tables. We redefine it to get the
\LT@makecaption
                 tables in the way specified by the designer
```

857 \def\LT@makecaption#1#2#3{%

```
864
                                   \begin{tikzpicture}[baseline=(current bounding box.north)]
                                     \fill (0,0) -- (\nf@trianglebase,0) --
                       865
                                     (.5\nf@trianglebase,-\nf@trianglebase) -- cycle;
                       866
                                   \end{tikzpicture}}
                       867
                              \end{picture}\normalcolor
                       868
                              \raisebox{-17pt}{\strut}}}
                       869
                      3.14
                              Front Matter
                      This is a generic macro with two parameters: name of the toc and file extension
        \@generictoc
                       870 \def\@generictoc#1#2{\clearpage\loadgeometry{standard}%
                            \pagestyle{frontmatterpagestyle}\onecolumn
                       872
                            {\fontsize{48pt}{48pt}\selectfont
                       873
                              \captionfamily\color{black!40}#1\par}\@mkboth{#1}{#1}\bigskip
                            \@starttoc{#2}}
                       874
                      Our table of contents
    \tableofcontents
                       875 \renewcommand\tableofcontents{\clearpage\loadgeometry{standard}%
                            \pagestyle{frontmatterpagestyle}\onecolumn
                       876
                       877
                            \@mkboth{\contentsname}{\contentsname}%
                            \makebox[Opt][1]{\fontsize{24pt}{32pt}\selectfont \bfseries
                       878
                              \color{black!70}\MakeUppercase{\contentsname}\space}%
                       879
                       880
                            \par\vspace{-2\baselineskip}\vspace{-\parskip}%
                            \@starttoc{toc}}
       \@tocpartskip
                      This is the skip between the parts in TOC:
                       882 \newlength{\@tocpartskip}
                       883 \define@key{fao}{tocpartskip}{\setlength{\@tocpartskip}{#1}}
                       884 \faoset{tocpartskip=\z@}
 \OfaoOtocruleOstart The start of the current TOC colored rule
                       885 \newdimen\@fao@tocrule@start
                     The height of the current TOC rule
\@fao@tocrule@height
                       886 \newdimen\@fao@tocrule@height
 \@draw@tocrule@part
                      Drawing the toc rule for a part
                       887 \def\@draw@tocrule@part{\@fao@tocrule@height=\pagetotal
                            \protected@write\@auxout{}{\string\fao@partblobbottom{\fao@currentpartnum}{\the\@fao@tocrule
                       888
                            \advance\@fao@tocrule@height-\@fao@tocrule@start
                       889
                            \bgroup\parskip\z@
                       890
                       891
                            \parbox[b] [\z0] {\z0}{\hspace*{-15\p0}\color{@bgcolor}\rule{2\p0}{\@fao@tocrule@height}}%
                            \parbox[b][\z0]{\hspace*{330\p0}%
```

\LT@mcol\LT@cols {@{}1}{\cellcolor{white}%

\captionfamily\large\strut

\put(.5,-7){\color{@bgcolor}%

\begin{picture}(0,0)%

\rlap{\fcolorbox{white}{@tableheadcolor}{\normalsize}

\textcolor{white}{#1{\MakeUppercase{#2}: }#3}}}%

858

859

860

861

862

863

```
\color{@bgcolor}\rule{41\p@}{\@fao@tocrule@height}}%
                                                   893
                                                              \par\vspace{-0.5\baselineskip}\egroup}
                                                   894
                                                 Drawing the toc rule for a section
\@draw@tocrule@section
                                                   895 \def\@draw@tocrule@section{\@fao@tocrule@height=\pagetotal
                                                              \protected@write\@auxout{}{\string\fao@partblobbottom{\fao@currentpartnum}{\the\@fao@tocrulo
                                                   896
                                                              \advance\@fao@tocrule@height-\@fao@tocrule@start
                                                   897
                                                   898
                                                              \advance\@fao@tocrule@height5\p@
                                                              \bgroup\parskip\z@\small
                                                              \label{localineskip} [\z0] {\z0} {
                                                   900
                                                              901
                                                   902
                                                                      \color{@bgcolor}\rule{41\p@}{\@fao@tocrule@height}}}%
                                                              \par\vspace{-\baselineskip}\egroup}
                                                   903
                                                 This prints the part in TOC:
                              \l@part
                                                   904 \renewcommand*\l@part[2]{\%
                                                              \ifnum \c@tocdepth >-2\relax
                                                                  \addpenalty{-\@highpenalty}%
                                                   907
                                                                  \setlength\@tempdima{3em}%
                                                   908
                                                                  \addvspace{\@tocpartskip}%
                                                                  \begingroup
                                                  We store the current vertical position of the page into \@fao@tocrule@start
                                                   910 %
                                                                      \addvspace{-2pc}\par
                                                                    \@fao@tocrule@start=\pagetotal
                                                   911
                                                                     \protected@write\@auxout{}{\string\fao@partblobtop{\fao@currentpartnum}{\the\@fao@tocrulo
                                                   912
                                                   913
                                                                       \parindent \z@ \rightskip \@pnumwidth
                                                                      \parfillskip -\@pnumwidth
                                                   914
                                                   915
                                                                      \leftskip180\p@
                                                   916
                                                                      {\leavevmode
                                                   917
                                                                        \color{@bgcolor}\bfseries\partname\space#1:
                                                   918
                                                                         \hfil \hb@xt@\@pnumwidth{\hss #2}}%
                                                   919
                                                                    \par\@draw@tocrule@part
                                                   920
                                                                         \nobreak
                                                   921
                                                                             \global\@nobreaktrue
                                                   922
                                                                            \everypar{\global\@nobreakfalse\everypar{}}%
                                                   923
                                                                  \endgroup
                                                   924
                                                              \fi}
                                                 This adds unnumbered part to TOC
                            \1@spart
                                                   925 \newcommand*\l@spart[2]{%
                                                              \ifnum \c@tocdepth >-2\relax
                                                   926
                                                   927
                                                                  \addpenalty{-\@highpenalty}%
                                                                  \setlength\@tempdima{3em}%
                                                   928
                                                   929
                                                                  \begingroup
                                                                    \@fao@tocrule@start=\pagetotal
                                                   930
                                                   931
                                                                    \protected@write\@auxout{}{\string\fao@partblobtop{\fao@currentpartnum}{\the\@fao@tocrule
                                                                      \parindent \z@ \rightskip \@pnumwidth
                                                   932
                                                   933
                                                                      \parfillskip -\@pnumwidth
                                                   934
                                                                      \leftskip180\p@
```

```
{\leavevmode
                    935
                    936
                               \color{@bgcolor}\bfseries#1:
                               \hfil \hb@xt@\@pnumwidth{\hss #2}}%
                    937
                            \par\@draw@tocrule@part
                    938
                               \nobreak
                    939
                    940
                                 \global\@nobreaktrue
                    941
                                \everypar{\global\@nobreakfalse\everypar{}}%
                    942
                           \endgroup
                         \fi}
                    943
       \l@section
                   This prints the section in TOC:
                    944 \renewcommand*\l@section[2]{%
                         \ifnum \c@tocdepth >-2\relax
                    946
                           \addpenalty{-\@highpenalty}%
                    947
                           \setlength\@tempdima{3em}%
                    948
                           \begingroup
                    949
                           \small
                            \@fao@tocrule@start=\pagetotal
                    950
                            \leftskip200\p@\relax\parskip\z@
                    951
                             \parindent \z@ \rightskip \@pnumwidth
                    952
                    953
                              \parfillskip -\@pnumwidth
                             {\leavevmode\small\strut
                              #1\hfil \hb@xt@\@pnumwidth{\hss #2}}\par\@draw@tocrule@section
                    955
                               \nobreak
                    956
                                 \global\@nobreaktrue
                    957
                                \everypar{\global\@nobreakfalse\everypar{}}%
                    958
                    959
                           \endgroup
                    960
                         \fi}
                   We do not draw colored rules in the TOC part of the appendix:
        \appendix
                    961 \renewcommand\appendix{%
                         \bookmarksetup{startatroot}%
                    963
                         \addtocontents{toc}{\string\let\string\@draw@tocrule@part\string\relax
                           \string\let\string\@draw@tocrule@section\string\relax}}
                       We use special formatting of metadata in the lists of... This requires explicit
                   \pars at the end:
                    965 \AtEndDocument{%
                         \immediate\write\@auxout{\string\@writefile{loc}{\string\par}}%
                         \immediate\write\@auxout{\string\@writefile{lot}{\string\par}}%
                    967
                         \immediate\write\@auxout{\string\@writefile{lom}{\string\par}}}
                   This is like the standard \@dottedtocline, but with colored page numbers
\nf@dottedtocline
                    969 \def\nf@dottedtocline#1#2#3#4#5{%
                         \ifnum #1>\c@tocdepth \else
                    971
                           {\leftskip #2\relax \rightskip \@tocrmarg \parfillskip -\rightskip
                    972
                            \parindent #2\relax\@afterindenttrue
                    973
                            \interlinepenalty\@M
                    974
```

```
975
                                                                    \leavevmode
                                               976
                                                                    \@tempdima #3\relax
                                                                    \advance\leftskip \@tempdima \null\nobreak\hskip -\leftskip
                                               977
                                                                    {#4}\nobreak
                                               978
                                                                    \leaders\hbox{$\m@th
                                               979
                                               980
                                                                           \mkern \@dotsep mu\hbox{.}\mkern \@dotsep
                                               981
                                                                           mu$}\hfill
                                               982
                                                                    \nobreak
                                                                    \hb@xt@\@pnumwidth{\hfil\normalfont\color{@bgcolor}#5}%
                                               983
                                               984
                                                                    \par}%
                                                            \fi}
                                               985
            \1@nonfloat
                                            The generic listing of a nonfloat in a list
                                               986 \newcommand*\l@nonfloat{\nf@dottedtocline{1}{\z@}{2.3em}}
                                            The number in table of contents
            \numberline
                                               987 \def\numberline#1{%
                                                           \raisebox{\z0}[\z0][\z0]{%
                                               989
                                                                 \fcolorbox{@bgcolor}{@bgcolor}{%
                                               990
                                                                      \hb@xt@\@tempdima{\color{white}#1\strut\hfil}}\hspace{2em}}
                                            Our list of maps
            \listofmaps
                                               991 \newcommand\listofmaps{\@generictoc{\listofmapsname}{lom}}
                                            Entry in the list of maps
                         \1@map
                                               992 \let\l@map\l@nonfloat
      \listoftables Our list of tables
                                               993 \renewcommand\listoftables{\@generictoc{\listtablename}{lot}}
                   \local Letable Entry in the list of tables
                                               994 \let\l@table\l@nonfloat
      \listofcharts
                                            Our list of charts
                                               995 \newcommand\listofcharts{\@generictoc{\listofchartsname}{loc}}
                   \10chart Entry in the list of charts
                                               996 \let\l@chart\l@nonfloat
                                             3.15
                                                                Metadata
\metadatasection
                                            The section for metadata:
                                               997 \mbox{\mbox{$\mbox{$newcommand}$}} \mbox{\mbox{\mbox{$\mbox{$\mbox{$\mbox{$}\mbox{$}}}}} [1] {\mbox{\mbox{$\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox
                                                           \section{#1}}
                 \metadata This starts the metadata section. The commands inside are local to the metadata.
                                               999 \def\metadata#1{\bgroup
                                                                      \def\meta@key{0000}%
                                             1000
```

This sets the key: \key 1001 $\label{$\#1$\nR@gettitle{$\#1$\phantomsection\label{$\#1$}} % $$ $$ $$ \end{substitute} $$ \end$ 1002 \gdef\meta@key{##1}} This typesets the source: \source \def\source##1{\textbar\,\emph{Source: }##1. }% \owner This typesets the owner: 1004 \def\owner##1{\textbar\,\emph{Owner: }##1. }% \begin{list}{}{\topsep8\p@\labelwidth\z@ 1005 1006 \labelsep\z@\itemindent\z@\parsep0.4ex plus 0.5ex minus 1007 0.2ex\relax\listparindent\z@\leftmargin\z@\rightmargin\z@ 1008 \partopsep\z@}% \item{\bfseries\textbullet~#1\par\penalty10000}} 1009 This closes the environment: \endmetadata 1010 \def\endmetadata{% \expandafter\ifx\csname 1011 1012 metaback@\meta@key\endcsname\relax 1013 \textbar\,\emph{Referenced in: } 1014 \csname metaback@\meta@key\endcsname 1015 1016 \end{list}\egroup} 1017 \refMetadata The way we actually reference the metadata: 1018 \def\refMetadata#1{% \ifx\@captype\@undefined\def\@captype{table}\fi 1020 \immediate\write\@mainaux{% 1021 1022 \string\fao@metaback{#1}{\@captype}{\csname the\@captype\endcsname}{\thepage}{\@currentermodernermoder 1023 \fi 1024 } \fao@metaback This reads the backreferences to metadata and prepares the the list. The arguments are: key, float type, number of float, page and hyperref 1025 \def\fao@metaback#1#2#3#4#5{% \expandafter\ifx\csname metaback@#1\endcsname\relax 1026 \expandafter\gdef\csname metaback@#1\endcsname{% 1027 1028 \hyper@linkstart{link}{#5}#2~#3\hyper@linkend}% 1029 \expandafter\g@addto@macro\csname metaback@#1\endcsname{, 1030 1031 \hyper@linkstart{link}{#5}#2~#3\hyper@linkend}%

Now we define the commands for metadata:

1032

3.16 Further Reading

```
This is the special version of itemize for further reading pages. Basically it is a
                                                  patched kernel version.
                                                  1033 \def\fitemize{%
                                                                \ifnum \@itemdepth >\thr@@\@toodeep\else
                                                  1035
                                                                     \advance\@itemdepth\@ne
                                                  1036
                                                                     \edef\@itemitem{labelitem\romannumeral\the\@itemdepth}%
                                                  1037
                                                                     \expandafter
                                                                    \list
                                                  1038
                                                                         \csname\@itemitem\endcsname
                                                  1039
                                                                         {\def\makelabel##1{{##1}\space}\parskip\z@\topsep\z@
                                                  1040
                                                                              \itemsep\z@\labelwidth\z@\parsep\z@\partopsep\z@
                                                  1041
                                                                              \leftmargin\z@\labelsep\z@}%
                                                  1042
                                                                \fi}
                                                  1043
                  \endfitemize
                                                 This is standard:
                                                  1044 \let\endfitemize =\endlist
                         \freading This is the "Further Reading environment"
                                                  1045 \newenvironment{freading}{%
                                                  1046
                                                                \bgroup
                                                  1047
                                                                \fboxsep=5\p@
                                                  1048
                                                                \let\itemize=\fitemize
                                                                \let\enditemize=\endfitemize
                                                  1049
                                                                \setbox\@tempboxa=\hbox\bgroup
                                                  1050
                                                  1051
                                                                \begin{minipage}{0.9\columnwidth}\parskip\z@
                                                  1052
                                                                {\color{@bgcolor}\bfseries
                                                  1053
                                                                    \mbox[\z0][r]{%}
                                                                         \tikz\fill[color=@bgcolor] (0,0) -- (1.5ex,0) -- (1.5ex, 1.5ex) --
                                                  1054
                                                                         cycle;\hspace{5\p0}}%
                                                  1055
                                                                    Further reading\strut\par}}{\end{minipage}\egroup
                                                  1056
                                                                \par\vspace{12mm}%
                                                  1057
                                                                \hspace{\dimexpr(0.1\columnwidth-10\p0)}%
                                                  1058
                                                                \fcolorbox{@bgcolor!10}{@bgcolor!10}{\box\@tempboxa}%
                                                  1060
                                                                \egroup}
                                                                    Publications
                                                  3.17
      \@publicationskip
                                                  Skip between the publications. By default \medskip:
                                                  1061 \newlength{\@publicationskip}
                                                  1062 \define@key{fao}{publicationskip}{\setlength{\@publicationskip}{#1}}
                                                  1063 \faoset{publicationskip=6pt plus 2pt minus 2pt}
\@publicationparskip
                                                  Paragraph skip between the publications.
                                                  1064 \newlength{\@publicationparskip}
                                                  1065 \end{fine} \end{fine} $$13$ \end{fine} \end{fine} \end{fine} $$13$ \end{fine} \end{fine} \end{fine} \end{fine} $$13$ \end{fine} \end{fin
                                                  1066 \faoset{publicationparskip=6pt plus 6pt minus 4pt}
```

```
\publication This typesets one publication:
                                     1067 \newenvironment{publication}[2][]{%
                                                   \gdef\@pub@cover{#1}%
                                     1068
                                     1069
                                      1070
                                                   \raisebox{\dimexpr(-\baselineskip-\totalheight)}{%
                                      1071
                                                   \ifx\@pub@cover\@empty\rule{0.4\columnwidth}{\z@}\else
                                                       \includegraphics[width=0.4\columnwidth]{\@pub@cover}\fi}
                                      1072
                                      1073
                                                   \hspace{0.1\columnwidth}%
                                                   \begin{minipage}[t]{0.49\columnwidth}%
                                      1074
                                                       \setlength\parskip{\@publicationparskip}%
                                     1075
                                      1076
                                                       {\bfseries\large\color{@bgcolor}#2\par}
                                                       \long\def\pDescription##1{\par##1\par}%
                                      1077
                                                       \def\pEdition##1##2{\par##1: ##2\par}%
                                      1078
                                                       \def\pCycle##1{\par Publication cycle: ##1\par}%
                                      1079
                                     1080
                                                       \def\pWeb##1{\par \raggedright Webpage: \url{##1}\par}}%
                                                   {\end{minipage}%
                                     1081
                                     1082
                                                   \par
                                     1083
                                                   \vspace{\@publicationskip}}
\@resourcesicon he icon for resources
                                     1084 \define@key{fao}{resourcesicon}{\gdef\@resourcesicon{#1}}
                                     1085 \faoset{resourcesicon={}}
\@resourcesname
                                     he icon for resources
                                      1086 \end{fine} \end
                                     1087 \faoset{resourcesname={Key Resources}}
                                     ere we start resources section
    \KeyResources
                                     1088 \def\KeyResources{\clearpage\phantomsection
                                                  \ifx\@resourcesicon\@empty\else
                                      1089
                                                   \def\@partpagepicture{%
                                      1090
                                                       \put(190,-36){\colored@icon[width=1.2cm]{\@resourcesicon}}%
                                      1091
                                     1092
                                                       \gdef\@partpagepicture{}}
                                     1093
                                                   \addcontentsline{toc}{section}{\@resourcesname}%
                                      1094
                                                  \ifx\@resourcesicon\@empty\else
                                      1095
                                      1096
                                                  \hspace*{1.3cm}%
                                      1097
                                     1098
                                                  {\color{@bgcolor}\Large\bfseries\raggedright\@resourcesname\par
                                                       \vspace{2.3ex \@plus.2ex}}}
                                     1099
                                     3.18
                                                       Subscripts
 \textsubscript This follows standard LATEX:
                                     1100 \DeclareRobustCommand*\textsubscript[1]{%
                                                  \@textsubscript{\selectfont#1}}
                                     1102 \def\@textsubscript#1{%
                                     1103 {\m@th\ensuremath{_{\mbox{\fontsize\sf@size\z@#1}}}}
```

3.19 LyX code

\lyxlist It seems Lyx wants this:

- 1104 \newenvironment{lyxlist}[1]
- $1105~{\bf \{\lceil list\} \{\}}$
- $1106 {\bf \{\labelwidth}{\tt \#1}\}$
- 1107 \setlength{\leftmargin}{\labelwidth}
- 1108 \addtolength{\leftmargin}{\labelsep}
- 1109 \renewcommand{\makelabel}[1]{##1\hfil}}
- $1110 \left\{ \left\{ ist \right\} \right\}$

3.20 The final word

- 1111 $\setbgcolor{gray}\selectcolor$
- 1112 \loadgeometry{standard}%
- 1113 \pagestyle{empty}
- 1114 $\normalsize\normalfont$
- $1115 \langle /class \rangle$

References

- [1] Boris Veytsman. LATEX Style for FAO Yearbook. FAO UN, 2011.
- [2] UK TeX Users Group. UK list of TeX frequently asked questions. http://www.tex.ac.uk/cgi-bin/texfaq2html, 2008.
- [3] Pavel Farář. Support Package for Free Fonts by ParaType, May 2011. http://mirrors.ctan.org/fonts/paratype.
- [4] Stephen G. Hartke. Arev Sans for TEX and LATEX, May 2006. http://mirrors.ctan.org/fonts/arev.
- [5] Uwe Kern. Extending LATEX's Color Facilities: the xcolor Package, January 2007. http://mirrors.ctan.org/macros/latex/contrib/xcolor.

Change History

1.3		\@partpagerpicture: Rewrote us-	
\@spart: Rewrote	33	ing tikz	18
1.4		General: Added Further Reading	
\@spart: Changed fonts	33	from the old code	40
2013/12/16		Added metadata from the old	
\@currentsymbol: T	33	code	38
		Added Pubs from the old code	40
v0.2		partpagestyle: Changed position	
\@part: Changed formatting	32	of footers	18
iconfill: Rewrote	31	Rewrote using tikz	18
\EndPartIntro: Deleted \clearspre	ad	\EndPartIntro: Added \normalcolo	or
	31		31
\newicon: Added macro	16	\evenfootmark: Introduced macro	16
\section: Redefined	33	\frontmatter: Deleted change in	
v0.3		the pagenumbering	30
\@generictoc: Added macro	35	\LettrineFontHook: Redefined	13
\@toc@ext@list: 11	19	\mainmatter: Deleted change in the	
\EndPartIntro: Restored		pagenumbering	31
\clearspread	31	\metadata: Rewrote	38
\lambdackletart: Added macro	38	\metadatasection: Added macro	38
\lambda (10map: Added macro	38	\nf@opcol: Typo corrected	28
\l@nonfloat: Added macro	38	\oddfootmark: Introduced macro	16
\lambda l@table: Added macro	38	\subsection: Redefined	34
\listofcharts: Added macro	38	\tableofcontents: Rewrote	35
\listofchartsname: Added macro	23	v1.4	
\listofmaps: Added macro	38	\@generictoc: Added geometry	
\listofmapsname: Added macro .	23	change	35
\listoftables: Added macro	38	\@part: Changed margins for intro	32
\newnon@float: Added writing ex-		Changed pictures	32
tensions to the list of extensions	20	Text is now black	32
\numberline: Added macro	38	General: Changed dimensions	14
\tableofcontents: Added macro	35	partpagestyle: Changed dimen-	
v1.0		sions	18
\colored@icon: Added macro	16	iconfill: Added spaces	31
\colored@icon@fg: Added macro	16	\currenticonfill: Added spaces	32
iconfill: Rewrote	31	\EndPartIntro: Added multicols	31
\endnon@float: Source in normal		\frontmatter: Added new geome-	
color	22	try	30
v1.1		\lambda \lambd	
\colored@icon@fg: Added argu-		colored	38
ment	16	\nf@captionheight: Changed size	19
iconfill: Rewrote	31	\nf@dottedtocline: Introduced	
\currenticonfill: Added macro	32	macro	37
v1.3	-	\nf@sourceheight: Changed	19
\@part: Changed the way the icons		frontmatterpagestyle: Intro-	
are displayed	32	duced macro	16

\tableofcontents: Added geome-		\c eresourcesname: T	41
try change	35	\KeyResources: H	41
v1.5		\metadata: Added vertical bars .	38
\@part: Changed pictures	32	\publication: Swapped picture	
\@resourcesicon: T	41	and description	41

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.

Symbols	893, 895, 896,	\@oddfootmark
\% 63	897, 898, 900, 902	\dots 177, 239, 271
1003, 1004, 1014	\@fao@tocrule@start	\@outputbox 526,
\@@getfirstletter .		534, 568, 573,
$\dots \dots 311, 312$	889, 897, 911,	582, 584, 599,
\@@par 483	912, 930, 931, 950	601, 614, 618,
\@M 787, 974	\c 0firstcolumnfalse . 633	623, 625, 634,
\@afterindenttrue . 973	\@firstcolumntrue .	642, 652, 657, 658
\@arabic 723	$\dots 545, 636, 710$	\@outputpage 544, 663
\@auxout 770,	\c 0floatboxreset 369	\@parboxrestore 368
888, 896, 912,	\@for 155	\@part 728, <u>759</u>
931, 966, 967, 968	\@generictoc	\@partpagepicture .
\@bchar 64, 71, 72	. <u>870,</u> 991, 993, 995	. 245, 250, 773,
\@bgcolor 4, <u>162</u>	\@getfirstletter	785, 786, 1090, 1092
\@bgcolor@next <u>154</u>	$\dots \dots 311, 318$	\@partpagerpicture . $\underline{245}$
\@captype	\@gobble 63, 64	\@pctchar 63, 72
315, 385, 1019, 1022	\Q gobbleword $312, 313$	\@plus 94,
\@cclv 517,	\@highpenalty	95, 96, 102, 103,
564, 594, 599, 603	\dots 906, 927, 946	104, 106, 107,
\@colht 500, 502,	\c 0issuumodefalse 21	830, 835, 971, 1099
505, 508, 510,	$\c \c \$	\@pnumwidth
543, 548, 566, 665	\@itemdepth	. 913, 914, 918,
\@colroom 548,	1034, 1035, 1036	932, 933, 937,
550, 553, 556,	\@itemitem . 1036, 1039	952, 953, 955, 983
558, 590, 593, 666	\@ixpt 101	\@pub@cover
\@currentHref \dots 1022	\@leftcolumn 634, 647	1068, 1071, 1072
\@currentsymbol <u>795, 822</u>	\@listI 98	\@publicationparskip
\@dotsep 980	\@listi 98, 105	1064, 1075
\@draw@tocrule@part	\@mainaux 1021	\@publicationskip .
. <u>887,</u> 919, 938, 963	\@mainmatterfalse . 718	1061, 1083
\@draw@tocrule@section	\@mainmattertrue 720	\@resourcesicon $\underline{1084}$,
$\dots 895, 955, 964$	$\mbox{\tt Qmakecaption} \ldots 321$	1089, 1091, 1095
\@empty 319, 410,	$\mbox{\@maxdepth} \dots 527,$	\@resourcesname
1071, 1089, 1095	535, 569, 574, 602	1086, 1094, 1098
\@endfloatbox 371	\@maxpart . 732, 743, 772	\@setfontsize $93, 101$
\@endword 313, 318	\@minus 94, 96,	\@spart 728, <u>808</u>
\@evenfootmark	102, 104, 106, 107	\@startsection 828, 833
\dots 175, 233, 265	\@mkboth 873, 877	\@starttoc 874, 881
\@fao@Centry 852 , 853	\@ne 1035	\@tablebg <u>165</u>
\@fao@Pentry 848, 849	\@nobreakfalse	\@tableheadcolor $\frac{4}{2}$, $\frac{162}{2}$
\@fao@tocrule@height	\dots 922, 941, 958	\@tempa 384, 385
886, 887,	\@nobreaktrue	$\c \c \$
888, 889, 891,	\dots 921, 940, 957	528, 532, 536,

```
613, 616, 622,
                          \advance .. 131, 134,
                                                           657, 839, 890,
      627, 638,
                640.
                                 137, 147, 148,
                                                           899, 999, 1046, 1050
      643, 656, 660,
                                 355, 358, 502,
                                                     \bigskip ..... 873
      736, 739, 744,
                                 505, 508, 553,
                                                     \bookmarksetup .... 962
      745, 749, 753,
                                 556, 742, 889,
                                                     \box ..... 405, 422,
      756, 757, 1050, 1059
                                 897, 898, 977, 1035
                                                           528, 536, 538,
\@tempboxb .....
                          \appendix ..... 961
                                                           599, 616, 618,
      . 446, 533, 538, 640
                          \AtBeginDocument ..
                                                           625, 627, 634,
                                . . . . 123, 141, 844
                                                           640, 643, 647,
\@tempcnta .....
                                                           652, 658, 660, 1059
      . 735, 741, 742, 743
                          \AtBeginShipout 124, 142
                                                     \boxmaxdepth .. 527,
\@tempdima 127, 129,
                          \AtBeginShipoutUpperLeft
                                                           535, 569, 574, 602
      130, 131, 132,
                                 . . . . . . . . . . . 143
      133, 135, 136,
                          \AtBeginShipoutUpperLeftForeground
      137, 138, 139,
                                . . . . . . . . . . . . . 125
                                                     \c@fao@partnum .... 724
      145, 147, 149,
                          \AtEndDocument 711, 965
      738, 740, 741,
                                                     \c@page ..... 453, 709
      750, 752, 754,
                                     В
                                                     \c@part ..... 723
      755, 854, 855,
                          \baselineskip .
                                                     \c@tocdepth .....
                                           286,
                                                           . 905, 926, 945, 970
      856, 907, 928,
                                 355, 358, 411,
      947, 976, 977, 990
                                 501, 504, 507,
                                                     \caption .... 6
                                 510, 524, 549,
                                                     \captionfamily .. 3,
\@tempdimb .....
                                                           90, 91, 217, 221,
      . 128, 129, 130,
                                 552, 555, 558,
                                 567, 637, 655,
                                                           789, 821, 860, 873
      132, 133, 134,
      135, 136, 138,
                                 697, 706, 712,
                                                     \cellcolor ..... 858
                                 824, 880, 894,
                                                     \centering 842, 850, 856
      139, 146, 148, 149
                                 900, 901, 903, 1070
\@textsubscript ...
                                                     \changes .. 192, 209, 210
      ...... 1101, 1102
                          \verb|\begin| \dots 191, 194,
                                                     \verb|\chart| \dots \dots \underline{426}
                                 208, 212, 249,
\@toc@ext@list ....
                                                     chart (environment) .. 6
                                 252, 377, 379,
      \dots 155, <u>278</u>, 303
                                                     \chartheight .....
                                 386, 388, 487,
\@tocpartskip . 882,908
                                                            6, 292, 351, 355,
                                 499, 794, 842,
                                                           358, 365, 391, 393
\@tocrmarg ..... 972
                                 862, 864, 1005,
                                                     \chartwidth .... 6,
\@toodeep .... 1034
\@undefined .. 446, 1019
                                 1051, 1074, 1105
                                                           <u>291</u>, 360, 367, 374
                          \begingroup 909, 929, 948
\verb|\width| \dots \dots \dots 649
                                                     \ClassError ... 520, 806
                          \belowdisplayshortskip
\@writefile 966, 967, 968
                                                     \ClassWarning ..... 2
\@xiipt ..... 93
                                \cleardoublepage 7,809
                                                     \clearpage .. 7, 668,
\\ ..... 64
                          \belowdisplayskip .
                                                           <u>669</u>, 709, 713,
                                 \bfdefault .....
                                                           729, 870, 875, 1088
\abovedisplayshortskip
                          \bfseries \dots 322,
                                                     \clearspread .....
                                 831, 836, 878,
      \dots 7, \underline{709}, 730,
\abovedisplayskip .
                                 917, 936, 1009,
                                                           760, 762, 827, 997
      .. 94, 97, 102, 109
                                 1052, 1076, 1098
                                                     \color . 76, 126, 144,
\addcontentsline ..
                          \bgroup ..... 171,
                                                           217, 220, 230,
      769, 817, 1094
                                 173, 184, 200,
                                                           231, 238,
                                                                      241,
\addpenalty 906, 927, 946
                                 228. 236.
                                           260.
                                                           262. 263.
                                                                      270.
\addtocontents ....
                                 268, 366,
                                           373,
                                                           273, 322,
                                                                      378,
      .... 156, 157, 963
                                 400, 408,
                                           526,
                                                           387, 398,
                                                                      412,
\addtolength .... 1108
                                 534, 568,
                                           573,
                                                           765, 823,
                                                                      832,
\addvspace \dots 908, 910
                                 615, 624, 642,
                                                           837, 863,
                                                                      873,
```

879, 891, 893,	\curr@nfbox@T@uc 477,	1003, 1004,
	,	1010, 1018,
900, 902, 917,	481, 549, 567, 570	
936, 983, 990,	\curr@nfbox@T@ul	1019, 1025,
1052, 1076, 1098	458, 468, 477	1033, 1040,
\color@begingroup . 605	\curr@nfbox@T@ur	1077, 1078,
\color@block 398	459, 469, 481	1079, 1080,
\color@endgroup 609	\curr@nfbox@W@ll	1088, 1090, 1102
\color@vbox 363	461, 471,	\DefaultFindent $\overline{77}$
\colored@icon	507, 533, 655, 656	\define@choicekey . 795
171, 224, 1091	\curr@nfbox@W@ul	\define@key 79 ,
\colored@icon@fg	460, 470,	160, 161, 165,
$\dots 173, 740, 754$	504, 532, 637, 638	167, 883, 1062,
\colorlet 154 ,	\currenticon 4 , 168 , 771	1065, 1084, 1086
156, 157, 159,	\currenticonfill	\dimexpr 326,
161, 162, 163, 165		352, 360, 361,
\columncolor	\CurrentOption	399, 404, 407,
846, 847, 851	\dots 4, 5, 6, 7, 8, 23	675, 697, 1058, 1070
\columnseprule 649	, , , , ,	\do
\columnwidth 325,	D	
646, 651, 1051,	\DeclareOption	\dotfill 219, 220,
1058, 1071,	4, 5, 6, 7, 8, 11,	232, 240, 264, 272
1072, 1073, 1074		\Draftfalse 17
\contentsname . 877, 879	\DeclareRobustCommand	\Drafttrue 18, 19
\cs 494, 495, 496	88, 90, 1100	\draw 389, 390
\csname 170,	\DeclareTextFontCommand	
(CDITAME	(Decial elexti off Command	
222 224 276	80 01	${f E}$
222, 224, 276, 277, 208, 200		
277, 298, 299,	\def $1, 63, 64,$	\edef 66,
277, 298, 299, 302, 304, 306,	\def 1, 63, 64, 78, 82, 83, 84,	\edef 66, 299, 419, 449, 1036
277, 298, 299, 302, 304, 306, 308, 309, 419,	\def 1, 63, 64, 78, 82, 83, 84, 105, 153, 154,	\edef 66, 299, 419, 449, 1036 \egroup 172,
277, 298, 299, 302, 304, 306, 308, 309, 419, 734, 740, 748,	\def \cdot 1, 63, 64, 78, 82, 83, 84, 105, 153, 154, 162, 166, 168,	\edef
277, 298, 299, 302, 304, 306, 308, 309, 419, 734, 740, 748, 754, 1011, 1015,	\def \cdot 1, 63, 64, 78, 82, 83, 84, 105, 153, 154, 162, 166, 168, 169, 170, 175,	\edef
277, 298, 299, 302, 304, 306, 308, 309, 419, 734, 740, 748, 754, 1011, 1015, 1022, 1026,	\def \cdot \	\edef
277, 298, 299, 302, 304, 306, 308, 309, 419, 734, 740, 748, 754, 1011, 1015, 1022, 1026, 1027, 1030, 1039	\def \cdot \	\edef
277, 298, 299, 302, 304, 306, 308, 309, 419, 734, 740, 748, 754, 1011, 1015, 1022, 1026, 1027, 1030, 1039 \curr@ext 155, 156	\def \cdot \	\edef
277, 298, 299, 302, 304, 306, 308, 309, 419, 734, 740, 748, 754, 1011, 1015, 1022, 1026, 1027, 1030, 1039 \curr@ext 155, 156 \curr@nfbox@B@ul 462,	\def \cdot \	\edef
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\def \cdot \	\edef
277, 298, 299, 302, 304, 306, 308, 309, 419, 734, 740, 748, 754, 1011, 1015, 1022, 1026, 1027, 1030, 1039 \curr@ext 155, 156 \curr@nfbox@B@ul 462, 472, 501, 524, 525 \curr@nfbox@S@lc	\def \cdot \	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
277, 298, 299, 302, 304, 306, 308, 309, 419, 734, 740, 748, 754, 1011, 1015, 1022, 1026, 1027, 1030, 1039 \curr@ext 155, 156 \curr@nfbox@B@ul 462, 472, 501, 524, 525 \curr@nfbox@S@lc 476, 480, 555,	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	\edef
277, 298, 299, 302, 304, 306, 308, 309, 419, 734, 740, 748, 754, 1011, 1015, 1022, 1026, 1027, 1030, 1039 \curr@ext 155, 156 \curr@nfbox@B@ul 462, 472, 501, 524, 525 \curr@nfbox@S@lc 476, 480, 555, 577, 584, 621, 622	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	\edef
277, 298, 299, 302, 304, 306, 308, 309, 419, 734, 740, 748, 754, 1011, 1015, 1022, 1026, 1027, 1030, 1039 \curr@ext 155, 156 \curr@nfbox@B@ul 462, 472, 501, 524, 525 \curr@nfbox@S@lc 476, 480, 555, 577, 584, 621, 622 \curr@nfbox@S@ll	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	\edef
277, 298, 299, 302, 304, 306, 308, 309, 419, 734, 740, 748, 754, 1011, 1015, 1022, 1026, 1027, 1030, 1039 \curr@ext 155, 156 \curr@nfbox@B@ul 462, 472, 501, 524, 525 \curr@nfbox@S@lc 476, 480, 555, 577, 584, 621, 622	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
277, 298, 299, 302, 304, 306, 308, 309, 419, 734, 740, 748, 754, 1011, 1015, 1022, 1026, 1027, 1030, 1039 \curr@ext 155, 156 \curr@nfbox@B@ul 462, 472, 501, 524, 525 \curr@nfbox@S@lc 476, 480, 555, 577, 584, 621, 622 \curr@nfbox@S@ll 456, 466, 476 \curr@nfbox@S@lr	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	\edef
277, 298, 299, 302, 304, 306, 308, 309, 419, 734, 740, 748, 754, 1011, 1015, 1022, 1026, 1027, 1030, 1039 \curr@ext 155, 156 \curr@nfbox@B@ul 462, 472, 501, 524, 525 \curr@nfbox@S@lc 476, 480, 555, 577, 584, 621, 622 \curr@nfbox@S@ll 456, 466, 476	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
277, 298, 299, 302, 304, 306, 308, 309, 419, 734, 740, 748, 754, 1011, 1015, 1022, 1026, 1027, 1030, 1039 \curr@ext 155, 156 \curr@nfbox@B@ul 462, 472, 501, 524, 525 \curr@nfbox@S@lc 476, 480, 555, 577, 584, 621, 622 \curr@nfbox@S@ll 456, 466, 476 \curr@nfbox@S@lr	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
277, 298, 299, 302, 304, 306, 308, 309, 419, 734, 740, 748, 754, 1011, 1015, 1022, 1026, 1027, 1030, 1039 \curr@ext 155, 156 \curr@nfbox@B@ul 462, 472, 501, 524, 525 \curr@nfbox@S@lc 476, 480, 555, 577, 584, 621, 622 \curr@nfbox@S@l1 456, 466, 476 \curr@nfbox@S@lr 457, 467, 480 \curr@nfbox@S@uc 475, 479, 552, 575,	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
277, 298, 299, 302, 304, 306, 308, 309, 419, 734, 740, 748, 754, 1011, 1015, 1022, 1026, 1027, 1030, 1039 \curr@ext 155, 156 \curr@nfbox@B@ul 462, 472, 501, 524, 525 \curr@nfbox@S@lc 476, 480, 555, 577, 584, 621, 622 \curr@nfbox@S@l1 456, 466, 476 \curr@nfbox@S@lr 457, 467, 480 \curr@nfbox@S@uc 475,	\def \cdot \	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
277, 298, 299, 302, 304, 306, 308, 309, 419, 734, 740, 748, 754, 1011, 1015, 1022, 1026, 1027, 1030, 1039 \curr@ext 155, 156 \curr@nfbox@B@ul 462, 472, 501, 524, 525 \curr@nfbox@S@lc 476, 480, 555, 577, 584, 621, 622 \curr@nfbox@S@l1 456, 466, 476 \curr@nfbox@S@lr 457, 467, 480 \curr@nfbox@S@uc 475, 479, 552, 575,	\def \cdot \	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
277, 298, 299, 302, 304, 306, 308, 309, 419, 734, 740, 748, 754, 1011, 1015, 1022, 1026, 1027, 1030, 1039 \curr@ext 155, 156 \curr@nfbox@B@ul 462, 472, 501, 524, 525 \curr@nfbox@S@lc 476, 480, 555, 577, 584, 621, 622 \curr@nfbox@S@ll 456, 466, 476 \curr@nfbox@S@lr 457, 467, 480 \curr@nfbox@S@uc 475, 479, 552, 575, 581, 582, 612, 613	\def \cdot \	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
277, 298, 299, 302, 304, 306, 308, 309, 419, 734, 740, 748, 754, 1011, 1015, 1022, 1026, 1027, 1030, 1039 \curr@ext 155, 156 \curr@nfbox@B@ul 462, 472, 501, 524, 525 \curr@nfbox@S@lc 476, 480, 555, 577, 584, 621, 622 \curr@nfbox@S@ll 456, 466, 476 \curr@nfbox@S@lr 457, 467, 480 \curr@nfbox@S@uc 475, 479, 552, 575, 581, 582, 612, 613 \curr@nfbox@S@ul	\def \cdot \	$ \begin{array}{llllllllllllllllllllllllllllllllllll$

```
\end ..... 190, 206,
                                                            1032,
                           \fancyhf .....
                                                                      1043,
      255, 256, 382,
                                 . 180, 196, 214, 247
                                                            1072, 1093, 1097
      383, 395, 396,
                           \fancyhfoffset ....
                                                      \fill ..... 253,
      498, 730, 843,
                                                            380, 822, 865, 1054
                                . 181, 197, 215, 257
      867, 868, 1017,
                           \fancypagestyle ...
                                                      \fitemize .. <u>1033</u>, 1048
      1056, 1081, 1110
                                 . 179, 195, 213, 246
                                                      \fontfamily .... 88, 90
\end@fao@Centry 852, 853
                           \fao@color@string .
                                                      \fontsize .....
\end@fao@Pentry 848, 849
                                 153, 158
                                                            . 151, 790, 791,
            170, 222,
\endcsname
                                                            820, 872, 878, 1103
                           \fao@currentpartnum
      225, 276, 277,
                                                     \footins \dots 598, 604, 608
                                 298, 299, 302,
                                 888, 896, 912, 931
                                                      \footnoterule .... 607
      304, 306, 307,
                           \fao@metaback 1022, 1025
                                                      \freading ..... <u>1045</u>
      308, 309, 420,
                           \fao@partblobbottom
                                                      freading
                                                                   (environ-
      734, 741, 748,
                                 \dots 276, 888, 896
                                                            ment) . . . . . . . . . <u>10</u>
      755, 1012, 1015,
                           \fao@partblobtop ..
                                                      \frontmatter .... <u>716</u>
      1022,
                1026,
                                 276, 912, 931
                                                      \frontmatterpagestyle
      1027, 1030, 1039
                           \fao@year .... 79, 176
                                                            . . . . . . . . . . . . . . <u>179</u>
\endfitemize 1044, 1049
                           \faoset ... 2, 78, 80,
\endgroup . 923, 942, 959
                                 807, 884, 1063,
                                                                 \mathbf{G}
\enditemize .... 1049
                                 1066, 1085, 1087
                                                     \g@addto@macro ... 1030
\endlist ..... 1044
                           \faoyearbook@size@warning \gdef ..... 79,
\endmetadata .... 1010
                                 . . . . . . . . . . . . . . . . . . 1
                                                            158, 166, 168,
\endnon@float . 310, 371
                           \fboxsep .. 171, 173,
                                                            170, 175, 177,
\EndPartIntro ... 4, <u>729</u>
                                 185, 201, 229,
                                                            276, 277, 278,
\ensuremath ..... 1103
                                                            320, 321, 324,
                                 237, 261, 269, 1047
environments:
                                                            772, 786, 798,
                           \fcolorbox ... 172,
   chart ..... 6
                                                            800, 803, 1002,
                                 174, 186, 202,
   freading ..... 10
                                 231, 241, 263,
                                                            1027,
                                                                      1068.
   map ..... 6
                                 273, 859, 989, 1059
                                                            1084, 1086, 1092
   metadata ..... 9
                                                      \geometry .... 113, 118
                                \fi
   publication .... 8
                                 140, 152, 219,
                                                      \global ..... 319,
   table ..... 6
                                 225, 301, 305,
                                                            362, 421, 454,
   tablepages ..... 7
                                                            455, 456,
                                 333, 339, 344,
                                                                       457
\evenfootmark ... 4, 175
                                                            458, 459,
                                                                       460.
                                 350, 356,
                                            359,
\everypar . 922, 941, 958
                                                            461, 462,
                                                                       464,
                                 397, 417,
                                            448,
\expandafter .....
                                                            465, 466,
                                                                       467,
                                 450, 473,
                                            482,
       \dots 63, 64, 170,
                                                            468, 469,
                                 503, 506,
                                                                       470,
                                            509,
      222, 276, 277,
                                                            471, 472,
                                                                       475.
                                 514, 523,
                                            541.
      298, 299, 302,
                                                            476, 477,
                                 551, 554,
                                                                       479.
                                            557.
      304, 306, 308,
                                 562, 579, 585,
                                                            480. 481.
                                                                      500.
      309, 419, 734,
                                 586, 596, 611,
                                                            502, 505, 508,
      748. 1011. 1026.
                                                            542, 543, 548,
                                 620, 629, 641,
      1027, 1030, 1037
                                                            550, 553, 556,
                                 662, 667, 674,
                                 701, 705,
                                                            593, 633, 634,
                                            707.
           \mathbf{F}
                                 710, 713,
                                            714.
                                                            636, 664, 665,
\familydefault .... 86
                                 743, 746,
                                            758,
                                                            666, 921, 922,
\fancyfoot 183, 199,
                                 805, 924, 943,
                                                            940, 941, 957, 958
      227, 235, 259, 267
                                 960, 985, 1016,
                                                      \Gm@layoutheight ..
\fancyhead 217, 220, 248
                                                            . . . . . . . . 134, 148
                                 1019,
                                           1023,
```

\Gm@layouthoffset 127, 145	\hyper@linkstart	\KeyResources 8 , 1088
\Gm@layoutvoffset .	$1028, 1031$ \hypersetup $45, 54$	L
	(hyporbotap 10, or	\1@chart <u>996</u>
\Gm@layoutwidth	I	\1@map <u>992</u>
131, 137, 147	\iconfill . <u>732</u> , 733,	\l@nonfloat
	775, 778, 780, 785	. 986, 992, 994, 996
H	\if 327	\1@part <u>904</u>
\hb@xt@ 645,	\if@filesw 1020	\l0section $\underline{944}$
646, 651, 918,	\if@firstcolumn	\1@spart <u>925</u>
937, 955, 983, 990	. 474, 519, 632, 696	\1@table <u>994</u>
\hbox 710,	\if@issuumode $\underline{20}$, 41	\label 1001
736, 739, 749,	\if@mainmatter $\frac{715}{}$	\labelsep
753, 979, 980, 1050	\if@twocolumn	1006, 1042, 1108
\headrulewidth	. 450, 670, 710, 711	\labelwidth 1005,
. 182, 198, 216, 258	\ifcase	1041, 1106, 1107
\height 186,	\ifdim 501, 504, 507,	\Large 831, 1098
202, 231, 233,	510, 524, 549,	\large 322, 836, 860, 1076
239, 241, 252,	552, 555, 558,	\leaders 979
263, 265, 271, 273	566, 567, 581,	\leavevmode 698, 703,
\hfil 648,	590, 612, 621,	916, 935, 954, 975
650, 918, 937,	637, 655, 697,	\leftmargin 105, 1007,
955, 983, 990, 1109	706, 712, 744, 756	1042, 1107, 1108
\hfill 981	\ifDraft <u>16,</u> 141	\leftmargini 105
\hhline 7	\ifnum 218, 743, 905,	\leftmark 222
\hsize 367, 372, 374	926, 945, 970, 1034	\leftskip . 409, 915,
\hskip 399, 404, 407, 977	\ifodd 453, 709	934, 951, 972, 977
\hspace 217, 220, 226, 233, 239,	\ifprint 2, 9, 44, 123 \ifvoid 598	\let 98, 308, 309, 319, 454,
265, 271, 741,	\ifx 222, 298,	455, 456, 457,
755, 769, 817,	304, 337, 340,	458, 459, 460,
824, 850, 856,	345, 354, 357,	461, 462, 464,
891, 892, 900,	385, 410, 446,	465, 466, 467,
901, 990, 1055,	734, 748, 1011,	468, 469, 470,
1058, 1073, 1096	1019, 1026,	471, 472, 475,
\hss 647,	1071, 1089, 1095	476, 477, 479,
652, 918, 937, 955	\immediate 65,	480, 481, 483,
\ht 501, 504, 507,	966, 967, 968, 1021	668, 963, 964,
, , , , , , , , , , , , , , , , , , , ,	\includegraphics	992, 994, 996,
555, 567, 581,	2, 172, 174, 1072	1044, 1048, 1049
	\interlinepenalty .	
655, 676, 677,		\LettrineFontHook . 76
678, 679, 680,	\item 488,	\line 129,
681, 682, 683,	491, 493, 496, 1009	130, 132, 133,
684, 685, 686,	\itemindent 1006	135, 136, 138, 139
687, 688, 689,	\itemize 1048	\list 1038
690, 691, 692, 693	\itemsep 108, 1041	\listofcharts $7, 995$
\Huge 218, 221		\listofchartsname .
\hyper@linkend	K	
$\dots \dots 1028, 1031$	\key 9, <u>1001</u>	\listofmaps 7, <u>991</u>

\listofmapsname 424 , 991	\newcommand	\nf@output@widepage
\listoftables 7 , 993	. 171, 173, 925,	$\dots \dots 511, \underline{516}$
\listparindent 1007	986, 991, 995, 997	$\n \n \$
\listtablename 993	\newcount 293	$\nf@size 316, 337, 340,$
\LoadClass 25	\newcounter 305, 724	345, 354, 357, 419
\loadgeometry . 719 ,	\newdimen 885, 886	\nf@source
810, 870, 875, 1112	\newenvironment	. 319, 320, 410, 417
\long 1, 321, 1077	310, 838,	\nf@sourceheight
\loop 737, 751	1045, 1067, 1104	285, 352, 408
\lowercase 318	\newicon $\underline{170}$, 771	\nf@topskip
\LT@cols 858	\newif $9, 16, 20, 715$. <u>293</u> , 328, 331,
\LT@makecaption 857	\newlength 279, 281,	342, 348, 361, 375
\LT@mcol 858	282, 283, 285,	\nf@totalheight
\lyxlist <u>1104</u>	287, 289, 291,	. 675, 697, 706, 712
<u>====</u>	292, 882, 1061, 1064	\nf@trianglebase $\frac{289}{}$,
${f M}$	\newnon@float	353, 360, 380,
\m@ne 695	. <u>297</u> , 423, 425, 426	381, 390, 391,
\m@th 979, 1103	\newpage 699,	393, 399, 402,
\mainmatter 719	700, 704, 710, 784	393, 399, 402,
\makebox . 818, 878, 1053	\newtoks 451	404, 407, 865, 866
\makelabel . 1040, 1109	\next@icon 166, 168, 169	\nf@vert@pos 318, 327
\MakeUppercase	\nf@bottomskip	\nf@vert@sep
323, 861, 879	$\dots \underline{293}, 329,$. <u>279</u> , 326, 329, 331
	$\frac{255}{332}$, $\frac{255}{343}$, $\frac{349}{361}$	\nf@width
$ \begin{array}{cccc} \text{map} & \dots & \underline{423} \\ \text{map (environment)} & \dots & \underline{6} \end{array} $	\nf@caption 321, 324, 401	$. \ \underline{281}, \ 325, \ 338,$
\markboth \ldots 782		346, 360, 372,
		389, 393, 394, 398
\markright 826	. <u>283</u> , 352, 398, 400	\nfbox@B@UL 445, 462, 684
\mbox 1103	\nf@clearpage . 671, 694	\nfbox@B@ul 444, 472, 693
\meta@key 1000,	\nf@contentsbox	\nfbox@S@LL 434, 456, 678
1002, 1012, 1015	<u>295</u> , 362, 405	\nfbox@S@ll 430, 466, 687
\metadata <u>999</u>	\nf@currbox 419, 421, 422	\nfbox@S@LR 435, 457, 679
metadata (environ-	\nf@dottedtocline .	\nfbox@S@lr 431, 467, 688
ment)		\nfbox@S@UL 432, 454, 676
\metadatasection $9, \frac{997}{}$	\nf@height	\nfbox@S@ul 428, 464, 685
\mkern 980	. <u>282</u> , 326, 341,	\nfbox@S@UR 433, 455, 677
\multicolsep 839	347, 352, 361, 373	\nfbox@S@ur 429, 465, 686
\multiply 300	\nf@mainbox $\frac{296}{}$, $\frac{373}{}$, $\frac{422}{}$	\nfbox@T@UL 438, 458, 680
	\nf@makecol 513 , 547	
${f N}$	\nf@makemixedcol	\nfbox@T@ul 436, 468, 689
\narrowfamily		\nfbox@T@UR 439, 459, 681
3, 88, 89, 839	\nf@makemixedcol@ .	\nfbox@T@ur 437, 469, 690
$\verb \newbox \dots 295, 296,$		\nfbox@W@LL 443, 461, 683
428, 429, 430,	\nf@makenfcol . $559, \underline{563}$	\nfbox@W@ll 441, 471, 692
431, 432, 433,	\nf@makmixedcol@ 597	\nfbox@W@UL 442, 460, 682
434, 435, 436,	\nf@margin <u>287</u> ,	\nfbox@W@ul 440, 470, 691
437, 438, 439,	353, 360, 392,	$\verb \nobreak 920, 939,$
440, 441, 442,	394, 399, 403,	956, 977, 978, 982
443, 444, 445, 447	404, 406, 407, 409	\noindent 376, 404
\newcolumntype	\nf@opcol . 587, 630, 631	\nointerlineskip
. 845, 846, 847, 851	\nf@output 450 , $\overline{451}$	$\dots 402, 405,$
	- ,	· · · · · · · · · · · · · · · · · · ·

422, 537, 576, 617, 626, 644, 659 \non@float 310, 314 \nonfloat@type 293, 299, 300 \normalcolor 364, 401, 416, 606, 649, 730, 793, 842, 868, 997 \normalfont 831, 836, 983, 1114 \normalsize . 92, 219,	951, 971, 1005, 1047, 1055, 1058 \pagestyle 244, 717, 731, 767, 811, 871, 876, 1113 \pagetotal 697, 887, 895, 911, 930, 950 \par . 371, 402, 405, 416, 417, 483, 792, 793, 824, 827, 873, 880, 894, 903, 910,	\printtrue
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	919, 938, 955,	\publicationskip g
264, 272, 859, 1114	966, 967, 968, 984, 1009, 1056,	\put 129, 130, 132, 133, 135,
\nr 795, 797	1057, 1069,	136, 138, 139,
\NR@gettitle 1001	1076, 1077,	149, 251, 378,
\null . 699, 700, 704,	1078, 1079,	387, 774, 777,
713, 783, 792, 977	1080, 1082, 1098	779, 785, 863, 1091
\numberline <u>987</u>	\parbox 791, 850, 856,	\pWeb 8, 1080
	891, 892, 900, 901	
0	\parfillskip	${f R}$
\OBJ@CVR 66, 73	. 914, 933, 953, 972	$\arrowvert raggedright 790, 792,$
\oddfootmark 4, <u>177</u>	\parindent 111 , 409 ,	831, 836, 1080, 1098
\onecolumn	913, 932, 952, 973	$\rackled{186, 202}$
. 718, 719, 761,	\parsep	223, 231, 233,
812, 838, 871, 876	107, 108, 1006, 1041	239, 241, 252,
700 900		
\or	\parskip $\underline{111}$,	263, 265, 271,
\output 449 , 450	\parskip \frac{111}{880},	263, 265, 271, 273, 819, 869,
\output 449 , 450 \outputpenalty	\parskip <u>111,</u> 409, 825, 880, 890, 899, 951,	263, 265, 271, 273, 819, 869, 900, 901, 988, 1070
\output 449, <u>450</u> \outputpenalty 518, 565, 595	\parskip \frac{111}{111}, 409, 825, 880, 890, 8951, 1040, 1051, 1075	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\output 449 , 450 \outputpenalty	\parskip <u>111,</u> 409, 825, 880, 890, 899, 951, 1040, 1051, 1075 \part 4, <u>727</u>	263, 265, 271, 273, 819, 869, 900, 901, 988, 1070 \refMetadata 10, 1018 \refstepcounter 768
\output 449, 450 \outputpenalty 518, 565, 595 \owner 9, 1004	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\output 449, 450 \outputpenalty 518, 565, 595 \owner 9, 1004	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\output 449, 450 \outputpenalty 518, 565, 595 \owner 9, 1004 P \p@ 94,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\output 449, 450 \outputpenalty 518, 565, 595 \owner 9, 1004 P \p@ 94, 95, 96, 102, 103,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\output 449, 450 \outputpenalty 518, 565, 595 \owner 9, 1004 P \P@ 94, 95, 96, 102, 103, 104, 106, 107,	\parskip	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\output 449, 450 \outputpenalty 518, 565, 595 \owner 9, 1004 P \pe 94, 95, 96, 102, 103, 104, 106, 107, 112, 129, 130,	\parskip	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\output 449, 450 \outputpenalty 518, 565, 595 \owner 9, 1004 P \p@ 94, 95, 96, 102, 103, 104, 106, 107, 112, 129, 130, 132, 133, 135,	\parskip	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\output 449, 450 \outputpenalty 518, 565, 595 \owner 9, 1004 P \pe 94, 95, 96, 102, 103, 104, 106, 107, 112, 129, 130, 132, 133, 135, 136, 138, 139,	\parskip	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\output 449, 450 \outputpenalty 518, 565, 595 \owner 9, 1004 P \pe 94, 95, 96, 102, 103, 104, 106, 107, 112, 129, 130, 132, 133, 135, 136, 138, 139, 173, 185, 201,	\parskip	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\output 449, 450 \outputpenalty 518, 565, 595 \owner 9, 1004 P \p@ 94, 95, 96, 102, 103, 104, 106, 107, 112, 129, 130, 132, 133, 135, 136, 138, 139, 173, 185, 201, 217, 220, 226,	\parskip	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\output 449, 450 \outputpenalty 518, 565, 595 \owner 9, 1004 P \p@ 94, 95, 96, 102, 103, 104, 106, 107, 112, 129, 130, 132, 133, 135, 136, 138, 139, 173, 185, 201, 217, 220, 226, 229, 233, 237,	\parskip	263, 265, 271, 273, 819, 869, 900, 901, 988, 1070 \refMetadata 10, 1018 \refstepcounter 768 \relax 24, 218, 222, 294, 298, 300, 304, 308, 309, 327, 734, 742, 743, 748, 797, 855, 905, 926, 945, 951, 963, 964, 972, 973, 976, 1007, 1012, 1026 \renewcommand
\output 449, 450 \outputpenalty 518, 565, 595 \owner 9, 1004 P \p@ 94, 95, 96, 102, 103, 104, 106, 107, 112, 129, 130, 132, 133, 135, 136, 138, 139, 173, 185, 201, 217, 220, 226,	\parskip	263, 265, 271, 273, 819, 869, 900, 901, 988, 1070 \refMetadata 10, 1018 \refstepcounter 768 \relax 24, 218, 222, 294, 298, 300, 304, 308, 309, 327, 734, 742, 743, 748, 797, 855, 905, 926, 945, 951, 963, 964, 972, 973, 976, 1007, 1012, 1026 \renewcommand
\output 449, 450 \outputpenalty 518, 565, 595 \owner 9, 1004 P \p@ 94, 95, 96, 102, 103, 104, 106, 107, 112, 129, 130, 132, 133, 135, 136, 138, 139, 173, 185, 201, 217, 220, 226, 229, 233, 237, 239, 261, 265,	\parskip	263, 265, 271, 273, 819, 869, 900, 901, 988, 1070 \refMetadata 10, 1018 \refstepcounter 768 \relax 24, 218, 222, 294, 298, 300, 304, 308, 309, 327, 734, 742, 743, 748, 797, 855, 905, 926, 945, 951, 963, 964, 972, 973, 976, 1007, 1012, 1026 \renewcommand
\output 449, 450 \outputpenalty 518, 565, 595 \owner 9, 1004 P \p@ 94, 95, 96, 102, 103, 104, 106, 107, 112, 129, 130, 132, 133, 135, 136, 138, 139, 173, 185, 201, 217, 220, 226, 229, 233, 237, 239, 261, 265, 269, 271, 288,	\parskip \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\output 449, 450 \outputpenalty 518, 565, 595 \owner 9, 1004 P \p@ 94, 95, 96, 102, 103, 104, 106, 107, 112, 129, 130, 132, 133, 135, 136, 138, 139, 173, 185, 201, 217, 220, 226, 229, 233, 237, 239, 261, 265, 269, 271, 288, 290, 398, 788,	\parskip \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\output 449, 450 \outputpenalty 518, 565, 595 \owner	\parskip	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

\RequirePackage	284, 286, 288,	566, 570, 575,
26, 27, 28,	290, 883, 907,	577, 581, 582,
29, 31, 32, 33,	928, 947, 1062,	584, 612, 613,
34, 35, 36, 37,	1065, 1075, 1107	621, 622, 638,
38, 39, 40, 42, 81	\settowidth 854, 1106	656, 664, 665, 666
\rightmargin 1007	\sf@size 1103	\textnarrow 3 , 89
\rightmark 178	\sfdefault 85, 86	\textsl 841
\rightskip	\skip 604	\textsubscript 10 , 1100
. 913, 932, 952, 972	\small $100, 899, 949, 954$	\textwidth 254, 338,
\rlap 859	\source . $7, 9, 320, 1003$	346, 645, 775,
\romannumeral 1036	\space 72, 73, 222,	776, 778, 780, 791
\rotatebox $150, 774,$	822, 879, 917, 1040	\the $66, 299, 449,$
777, 779, 785, 820	\standard@clearpage	
\rowcolors 766, 815		450, 741, 888,
\rule 413, 414,	\standard@output	896, 912, 931, 1036
	-	\thepage $186, 202, 231,$
415, 416, 891,		241, 263, 273, 1022
893, 900, 902, 1071	\string . 63, 64, 156,	\thepart 218,
-	157, 771, 772,	219, 222, 225,
${f S}$	888, 896, 912,	$\frac{723}{728}$, $\frac{748}{755}$,
\savegeometry . $117, 122$	931, 963, 964,	
\secdef 728	966, 967, 968, 1022	769, 771, 772, 790
\secnumdepth <u>722</u>	\strut 218, 221,	\thr@@ 1034
\section \dots 4, 827 , 998	734, 748, 823,	\tikz 822, 1054
\sectionmark 826	850, 856, 860,	\tocdepth <u>721</u>
\selectcolor 3,	869, 954, 990, 1056	\topsep . 106, 1005, 1040
		VLOLATHEIPHL
162, 763, 813, 1111	\subsection 4 , 833	\totalheight
\selectfont $88, 90,$		223, 819, 1070
\selectfont 88, 90, 151, 790, 791,	Т	_
\selectfont 88, 90, 151, 790, 791, 820, 872, 878, 1101	T \tabcolsep 846, 847, 851	223, 819, 1070 \twocolumn 730, 997
\selectfont 88, 90, 151, 790, 791, 820, 872, 878, 1101 \selecticon	T \tabcolsep 846, 847, 851 \table 425	223, 819, 1070
\selectfont 88, 90, 151, 790, 791, 820, 872, 878, 1101 \selecticon 3, 168, 764, 814	T \tabcolsep $846, 847, 851$ \table $\underline{425}$ table (environment) $\underline{6}$	223, 819, 1070 \twocolumn 730, 997
\selectfont 88, 90, 151, 790, 791, 820, 872, 878, 1101 \selecticon	T \tabcolsep 846, 847, 851 \table 425	223, 819, 1070 \twocolumn 730, 997 U \unhbox 739, 745, 753, 757
\selectfont 88, 90, 151, 790, 791, 820, 872, 878, 1101 \selecticon 3, 168, 764, 814	T \tabcolsep $846, 847, 851$ \table $\underline{425}$ table (environment) $\underline{6}$	223, 819, 1070 \twocolumn 730, 997 U \unhbox 739, 745, 753, 757 \unvbox 517,
\selectfont 88, 90, 151, 790, 791, 820, 872, 878, 1101 \selecticon 3, 168, 764, 814 \setbgcolor	T \tabcolsep 846, 847, 851 \table	223, 819, 1070 \twocolumn 730, 997 U \unhbox 739, 745, 753, 757 \unvbox 517, 564, 594, 603, 608
\selectfont 88, 90, 151, 790, 791, 820, 872, 878, 1101 \selecticon	T \tabcolsep 846, 847, 851 \table	223, 819, 1070 \twocolumn 730, 997 U \unhbox 739, 745, 753, 757 \unvbox 517,
\selectfont 88, 90,	T \tabcolsep 846, 847, 851 \table	223, 819, 1070 \twocolumn 730, 997 U \unhbox 739, 745, 753, 757 \unvbox 517,
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	T \tabcolsep 846, 847, 851 \table 425 table (environment) 6 \tablemph 844 \tableofcontents 875 \tablepages 838 tablepages (environment) 7	223, 819, 1070 \twocolumn 730, 997 U \unhbox 739, 745, 753, 757 \unvbox 517,
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	T \tabcolsep 846, 847, 851 \table 425 table (environment) 6 \tablemph 844 \tableofcontents 875 \tablepages 838 tablepages (environment) 7 \tempB 336, 345, 354	223, 819, 1070 \twocolumn 730, 997 U \unhbox 739, 745, 753, 757 \unvbox 517,
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	T \tabcolsep 846, 847, 851 \table 6 \table (environment) 844 \tableofcontents 838 \tablepages (environment) 7 \tempB 336, 345, 354 \tempT 335, 340, 357	223, 819, 1070 \twocolumn 730, 997 U \unhbox 739, 745, 753, 757 \unvbox 517,
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	T \tabcolsep 846, 847, 851 \table 6 \table (environment) 844 \tableofcontents 838 \tablepages (environment) 7 \tempB 336, 345, 354 \tempT 335, 340, 357 \tempW 334, 337	223, 819, 1070 \twocolumn 730, 997 U \unhbox 739, 745, 753, 757 \unvbox 517,
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	T \tabcolsep 846, 847, 851 \table 6 \table (environment) 844 \tableofcontents 838 \tablepages (environment) 7 \tempB 336, 345, 354 \tempT 335, 340, 357 \tempW 334, 337 \textbar 1003, 1004, 1014	223, 819, 1070 \twocolumn 730, 997 U \unhbox 739, 745, 753, 757 \unvbox 517,
$\begin{tabular}{lll} \verb+ selectfont 88, 90, \\ & 151, 790, 791, \\ & 820, 872, 878, 1101 \\ \verb+ selecticon \\ & 3, \underline{168}, 764, 814 \\ \verb+ setbgcolor \\ & \underline{154}, 160, 1111 \\ \verb+ setbox 362, \\ & 373, 421, 525, \\ & 526, 532, 533, \\ & 534, 568, 573, \\ & 582, 584, 599, \\ & 601, 613, 614, \\ & 622, 623, 634, \\ & 638, 640, 642, \\ \end{tabular}$	T \tabcolsep 846, 847, 851 \table 425 table (environment) 6 \tablemph 844 \tableofcontents 875 \tablepages 838 tablepages (environment) 7 \tempB 336, 345, 354 \tempT 335, 340, 357 \tempW 334, 337 \textbar 1003, 1004, 1014 \textbf 176	223, 819, 1070 \twocolumn 730, 997 U \unhbox 739, 745, 753, 757 \unvbox 517,
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	T \tabcolsep 846, 847, 851 \table 425 table (environment) 6 \tablemph 844 \tableofcontents 875 \tablepages 838 tablepages (environment) 7 \tempB 336, 345, 354 \tempT 335, 340, 357 \tempW 334, 337 \textbar 1003, 1004, 1014 \textbf 176 \textbullet 1009	223, 819, 1070 \twocolumn 730, 997 U \unhbox 739, 745, 753, 757 \unvbox 517,
\selectfont 88, 90,	T \tabcolsep 846, 847, 851 \table 425 table (environment) 6 \tablemph 844 \tableofcontents 875 \tablepages 838 tablepages (environment) 7 \tempB 336, 345, 354 \tempT 335, 340, 357 \tempW 334, 337 \textbar 1003, 1004, 1014 \textbf 176 \textbullet 1009 \textcaption 3, 91	223, 819, 1070 \twocolumn 730, 997 U \unhbox 739, 745, 753, 757 \unvbox 517,
\selectfont 88, 90,	T \tabcolsep 846, 847, 851 \table 425 table (environment) 6 \tablemph 844 \tableofcontents 875 \tablepages 838 tablepages (environment) 7 \tempB 336, 345, 354 \tempT 335, 340, 357 \tempW 334, 337 \textbar 1003, 1004, 1014 \textbf 176 \textbullet 1009	223, 819, 1070 \twocolumn 730, 997 U \unhbox 739, 745, 753, 757 \unvbox 517,
\selectfont 88, 90,	T \tabcolsep 846, 847, 851 \table 425 table (environment) 6 \tablemph 844 \tableofcontents 875 \tablepages 838 tablepages (environment) 7 \tempB 336, 345, 354 \tempT 335, 340, 357 \tempW 334, 337 \textbar 1003, 1004, 1014 \textbf 176 \textbullet 1009 \textcaption 3, 91	U \unhbox 739, 745, 753, 757 \unvbox 564, 594, 603, 608 \url 1080 \urlstyle 110 \usetikzlibrary 30 V \val 795, 806 \vbox 365, 373, 400, 408, 422, 526, 534, 568, 573, 601, 614, 623, 642, 657
\selectfont 88, 90,	T \tabcolsep 846, 847, 851 \table 6 \table (environment) 6 \tablemph 875 \tablepages 838 \tablepages (environment) 7 \tempB 336, 345, 354 \tempT 335, 340, 357 \tempW 334, 337 \textbar 1003, 1004, 1014 \textbf 176 \textbullet 1009 \textcaption 3, 91 \textcolor 861	U \unhbox 739, 745, 753, 757 \unvbox 517,
\selectfont 88, 90,	T \tabcolsep 846, 847, 851 \table 6 \table (environment) 6 \tablemph 875 \tablepages 838 \tablepages (environment) 7 \tempB 336, 345, 354 \tempT 335, 340, 357 \tempW 334, 337 \textbar 1003, 1004, 1014 \textbf 176 \textbullet 1009 \textcaption 3, 91 \textcolor 861 \textheight	U \unhbox 739, 745, 753, 757 \unvbox 517,
\selectfont 88, 90,	T \tabcolsep 846, 847, 851 \table 425 table (environment) 6 \tablemph 844 \tableofcontents 875 \tablepages 838 tablepages (environment) 7 \tempB 336, 345, 354 \tempT 335, 340, 357 \tempW 335, 340, 357 \tempW 334, 337 \textbar 1003, 1004, 1014 \textbf 176 \textbullet 1009 \textcaption 3, 91 \textcolor 861 \textheight 254, 326, 341,	U \unhbox 739, 745, 753, 757 \unvbox 517,
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	T \tabcolsep 846, 847, 851 \table	U \unhbox 739, 745, 753, 757 \unvbox 517,
\selectfont 88, 90,	T \tabcolsep 846, 847, 851 \table	U \unhbox 739, 745, 753, 757 \unvbox 517,

```
\mathbf{W}
                                                                     348, 349, 409,
\verb|\vskip| \dots 375,
       402, 403, 406,
                               \backslash \mathtt{wd} \quad \dots \quad 744,\, 756
                                                                      828, 833, 839,
       411, 604, 792, 971
                               \write ..... 695,
                                                                      850, 856, 884,
                                     966, 967, 968, 1021
                                                                      890, 891, 892,
\vspace ..... 788,
                                                                      899, 900, 901,
       824, 825, 840,
880, 894, 903,
1057, 1083, 1099
                                                                     913, 932, 951,
                               \xdef ..... 303, 318
                                                                     952, 971, 986,
                                                                      988, 1005, 1006,
                                            {f Z}
                                                                      1007,
                                                                                 1008,
\verb|\vsplit| \dots 525, 532,
                               \z@
                                    \dots 95, 103,
                                                                      1040,
                                                                                 1041,
       533, 570, 575,
                                      111, 182, 198,
                                                                      1042,
                                                                                 1051,
                                      216, 258, 328,
332, 342, 343,
       577, 582, 584,
                                                                      1053,
                                                                             1071, 1103
       613, 622, 638, 656
```