Class for book covers and dust jackets
bookcover.cls

v1.0

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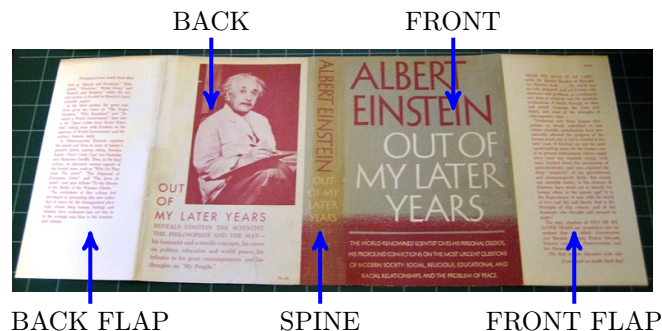
March 4, 2015

## Contents

1 Book cover parts and sizes

In the following picture we can see a tipical dust jacket. Its main parts are back flap, back, spine, front and front flap. Typographically, a book cover is a dust jacket without flaps, the only difference is that the book cover is a fixed part of the book, whereas the dust jacket is removable.


When we prepare a cover for printing, some marks are needed to know where to trim or fold the paper. These marks determine a special area of the sheet, which is called "bleed" (see the next figure). The background will be expanded onto the bleed, taking account of slight inaccuracy when trimming.

1 : trim marks   2 : fold marks   ☐ : printed box
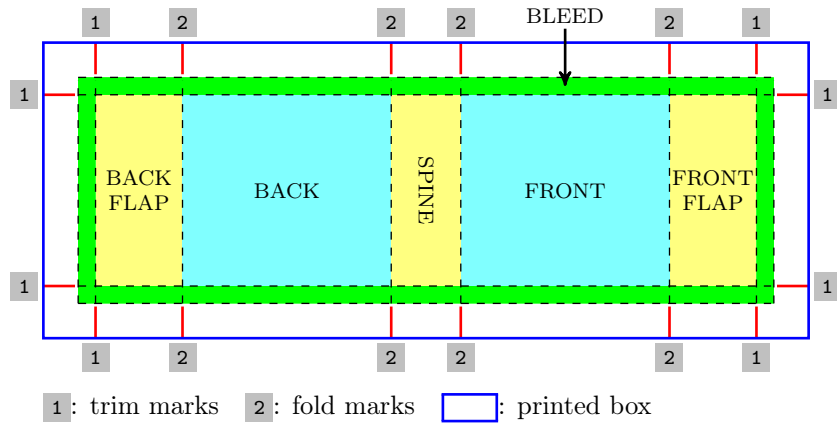
1.1 Sizes

We have to give the following sizes to prepare a cover: `coverwidth`, `coverheight`, `spinewidth`, `flapwidth`, `marklength`, `bleedwidth`.
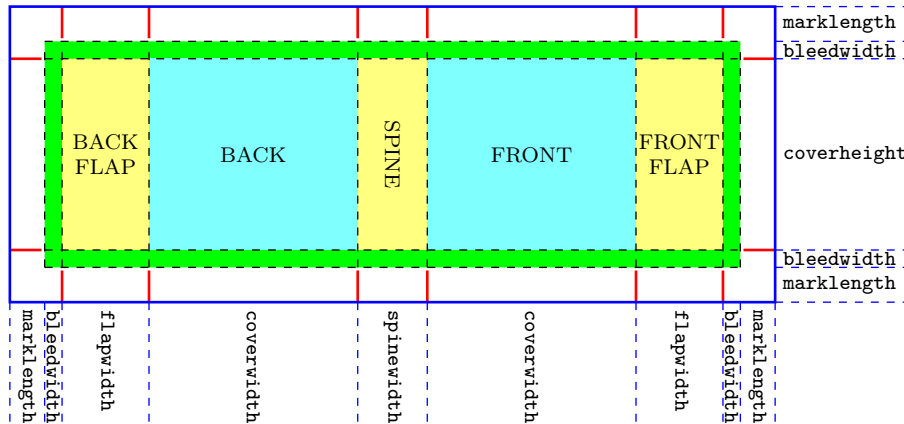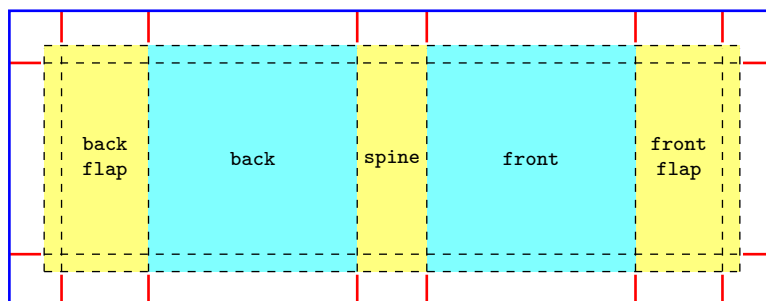

1.2 Trimmed version

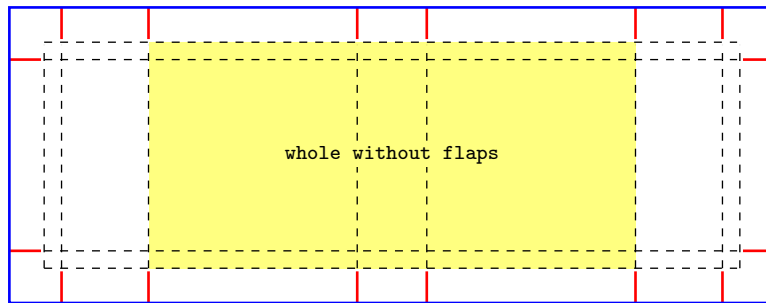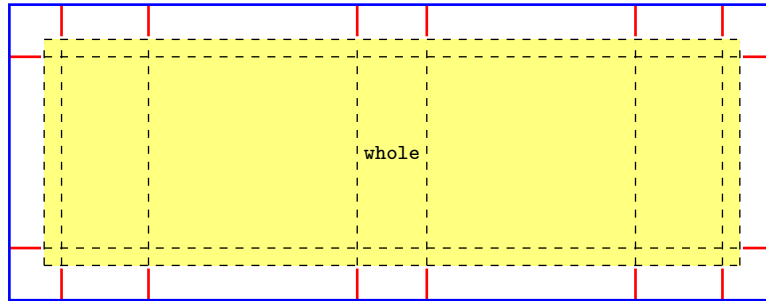After trimming we get the following result:
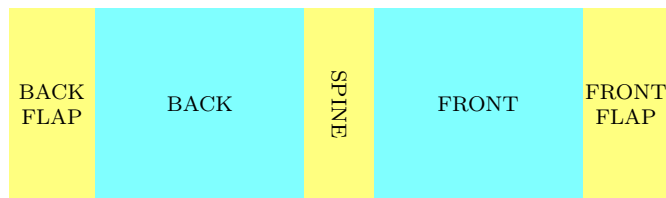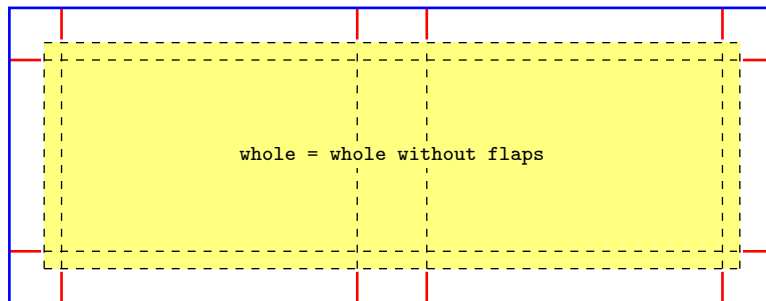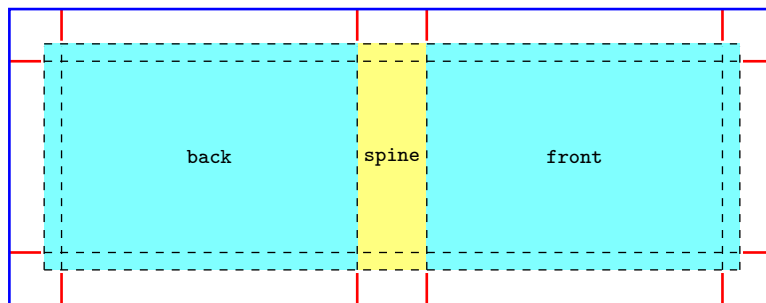

1.3 Background parts

Important: The bleed is a part of the background!

In case `flapwidth>0mm`

In case `flapwidth=0mm`

1.4 Foreground parts

Important: The bleed is not part of the foreground!

In case `flapwidth>0mm`
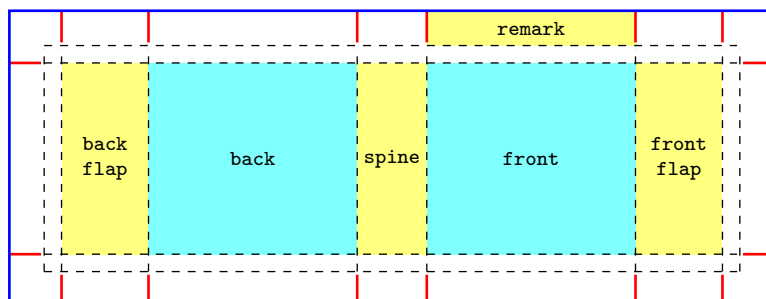
In case `flapwidth=0mm`
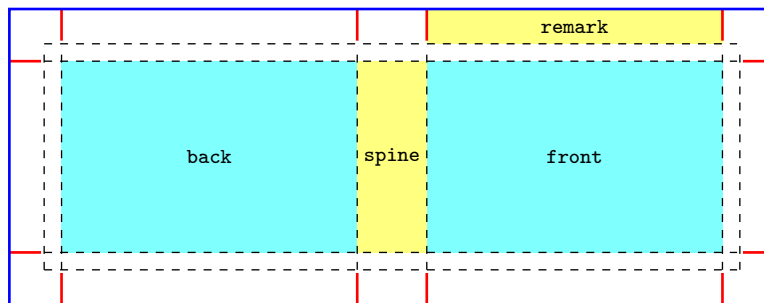
2 Description

2.1 Loading class

The class `bookcover` requires the services of the class `article` and the following packages: `kvoptions`, `geometry`, `graphicx`, `calc`, `xcolor`, `ifthen`, `tikz`, `eso-pic`, `textpos`.

Load the class as usual, with

`\documentclass[`⟨*options*⟩`]{bookcover}`

book cover size options (see Subsection 1.1)	default values
`coverwidth=`⟨*length*⟩	170mm
`coverheight=`⟨*length*⟩	240mm
`spinewidth=`⟨*length*⟩	5mm
`flapwidth=`⟨*length*⟩	0mm
`marklength=`⟨*length*⟩	10mm
`bleedwidth=`⟨*length*⟩	5mm

other options	
`markthick=`⟨*length*⟩	thick of marks (default value: `0.4pt`)
`markcolor=`⟨*color*⟩	color of marks (default value: `red`)
`10pt`	normal font size is 10 pt (default)
`11pt`	normal font size is 11 pt
`12pt`	normal font size is 12 pt
`grid`	grid for checking sizes
`trimmed`	show trimmed version (see Subsection 1.2)

Example:

`\documentclass[flapwidth=50mm,spinewidth=15mm]{bookcover}`

2.2 Commands

This class defines two commands:

`\setbookcover{`⟨*main layer*⟩`}{`⟨*part*⟩`}{`⟨*content*⟩`}`

⟨*main layer*⟩ (see the following subsubsections)
      `bgcolor`, `bgpic`, `bgtikz`, `fgfirst`, `fgsecond`

The ⟨*part*⟩ and the ⟨*content*⟩ depend on the ⟨*main layer*⟩ (see the following subsubsections).

`\makebookcover`

2.2.1 Background colors

`\setbookcover{bgcolor}{`⟨*background part*⟩`}{`⟨*colors*⟩`}`

⟨*background part*⟩ (see Subsection 1.3)
    `back, front, spine, front flap, back flap, whole without flaps, whole`

⟨*colors*⟩ (options of command `\fill` of package `tikz`)
    `color=`⟨*color name*⟩ (See ⟨*color name*⟩ in the package `xcolor`.)
    `top color=`⟨*color name*⟩
    `bottom color=`⟨*color name*⟩
    `middle color=`⟨*color name*⟩
    `inner color=`⟨*color name*⟩
    `outer color=`⟨*color name*⟩
    `ball color=`⟨*color name*⟩
    `shading angle=`⟨*degrees*⟩ (This rotates the shading by the given angle.)

Example:

```
\setbookcover{bgcolor}{whole without flaps}{
    top color=white, bottom color=blue!50!black, shading angle=60}
```

2.2.2 Background pictures

`\setbookcover{bgpic}{`⟨*background part*⟩`}{`⟨*picture file*⟩`}`

⟨*background part*⟩ (see Subsection 1.3)
    `back, front, spine, front flap, back flap, whole without flaps, whole`

The picture will be rescaled according to the sizes of the current background part.

Example:

```
\setbookcover{bgpic}{front flap}{fig.png}
```

2.2.3 Background TikZ figures

`\setbookcover{bgtikz}{`⟨*background part*⟩`}{`⟨*tikz code*⟩`}`

⟨*background part*⟩ (see Subsection 1.3)
    `back, front, spine, front flap, back flap, whole without flaps, whole`

The Ti*k*Z figure will be placed to the upper left corner of the current background part, without resizeing.

Example:

```
\setbookcover{bgtikz}{back}{
    \fill[color=blue](0mm,250mm)--(100mm,250mm)--(100mm,245mm)--(0mm,110mm)--cycle;
    \fill[color=yellow](5mm,5mm)--(175mm,245mm)--(175mm,0mm)--(5mm,0mm)--cycle;}
```

2.2.4 First foreground

`\setbookcover{fgfirst}{`⟨*foreground part*⟩`}{`⟨*content*⟩`}`

⟨*foreground part*⟩ (see Subsection 1.4)
    `back, front, spine, front flap, back flap, remark`

The first foreground is the top layer of the book cover (see Subsection 2.3).

Example:

```
\setbookcover{fgfirst}{spine}{
    \vfill
    \begin{center}
        \rotatebox[origin=c]{90}{\bfseries Annales Mathematicae et Informaticae}
    \end{center}
    \vfill}
```

2.2.5 Second foreground

`\setbookcover{fgsecond}{`⟨*foreground part*⟩`}{`⟨*content*⟩`}`

⟨*foreground part*⟩ (see Subsection 1.4)
      `back`, `front`, `spine`, `front flap`, `back flap`

The second foreground is under the first foreground (see Subsection 2.3).

Example: The following code puts a picture behind the 'TEXT' on the front cover:

```
\setbookcover{fgsecond}{front}{
    \vfill
    \begin{center}
        \includegraphics[width=80mm]{pic.png}
    \end{center}
    \vfill}
\setbookcover{fgfirst}{front}{
    \vfill
    \begin{center}
        TEXT
    \end{center}
    \vfill}
```

2.2.6 Making book cover

`\makebookcover`

This command makes the book cover by using contents of background and foreground.

2.3 Layers

In the following table we can see the hierarchy of the layers:

|		
`fgfirst`	`back, front, spine, front flap, back flap, remark`	*top layer*
`fgsecond`	`back, front, spine, front flap, back flap`	↑
	`back, front, spine, front flap, back flap`	↑
`bgtikz`	`whole without flaps`	↑
	`whole`	↑
	`back, front, spine, front flap, back flap`	↑
`bgpic`	`whole without flaps`	↑
	`whole`	↑
	`back, front, spine, front flap, back flap`	↑
`bgcolor`	`whole without flaps`	↑
	`whole`	*bottom layer*

For example, in case

```
\setbookcover{bgpic}{whole}{fig1.jpg}
\setbookcover{bgpic}{front}{fig2.jpg}
\setbookcover{fgsecond}{front}{fig3.jpg}
\setbookcover{fgfirst}{front}{TEXT}
```

the `TEXT` is above the `fig3.jpg`, the `fig3.jpg` is above the `fig2.jpg` and the `fig2.jpg` is above the `fig1.jpg`.

3 Examples

The first example is a dust jacket.
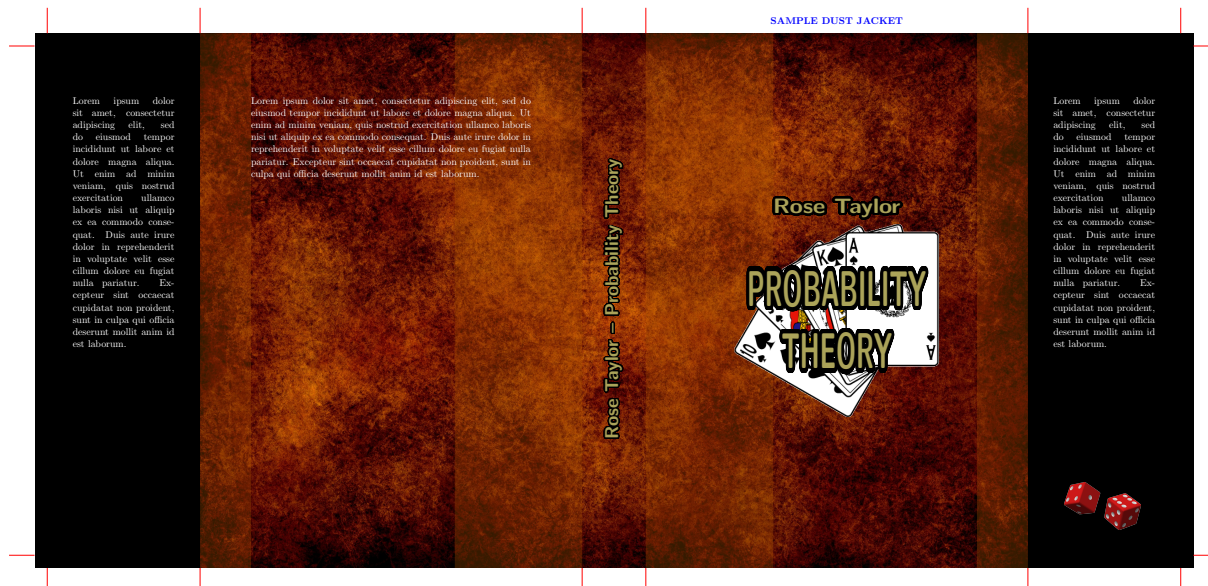

```
\documentclass[11pt,spinewidth=25mm,coverwidth=150mm,coverheight=200mm,flapwidth=60mm]{bookcover}
\usepackage{contour}
\contourlength{1pt}
\definecolor{lightbrown}{RGB}{176,88,0}
\colorlet{title}{yellow!60!black}
\begin{document}

% Black background color on the whole cover
\setbookcover{bgcolor}{whole}{color=black}

% Brown background picture on the whole cover, without the flaps
\setbookcover{bgpic}{whole without flaps}{./figures/bg.jpg}

% Vertical light brown transparent trails on the back cover by a tikz code
\setbookcover{bgtikz}{back}{
    \fill[opacity=0.3,color=lightbrown]
    (0mm,0mm) rectangle (20mm,210mm)
    (100mm,0mm) rectangle (150mm,210mm);}

% Vertical light brown transparent trails on the front cover by a tikz code
\setbookcover{bgtikz}{front}{
    \fill[opacity=0.3,color=lightbrown]
    (0mm,0mm) rectangle (50mm,210mm)
    (130mm,0mm) rectangle (150mm,210mm);}

% Remark
\setbookcover{fgfirst}{remark}{
    \bfseries\color{blue}SAMPLE DUST JACKET}

% Text on the front cover
\setbookcover{fgfirst}{front}{
    \centering
    \vspace{60mm}
    \color{title}\sffamily\bfseries
    \resizebox*{50mm}{8mm}{\contour[120]{black}{Rose Taylor}}
    \par
    \vspace{20mm}
    \resizebox*{90mm}{40mm}{\parbox{35mm}{
```

```
        \centering
        \contour[120]{black}{PROBABILITY}\\
        \contour[120]{black}{THEORY}\\}}}

% Picture (cards.png) on the front, behind the title
\setbookcover{fgsecond}{front}{
    \vspace{70mm}
    \centering
    \includegraphics[width=8cm]{./figures/cards.png}}

% Text on the spine
\setbookcover{fgfirst}{spine}{
    \vfill
    \centering
    \rotatebox[origin=c]{90}{\contour[120]{black}{
        \color{title}\huge\sffamily\bfseries
        Rose Taylor -- Probability Theory}}
    \vfill}

% Text on the back cover
\setbookcover{fgfirst}{back}{
    \centering
    \vspace{20mm}
    \parbox{110mm}{\color{white}
        Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor
        incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis
        nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.
        Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore
        eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident,
        sunt in culpa qui officia deserunt mollit anim id est laborum.}}

% Text and picture (dice.png) on the front flap
\setbookcover{fgfirst}{front flap}{
    \centering
    \vspace{20mm}
    \parbox{40mm}{\color{white}
        Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor
        incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis
        nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.
        Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore
        eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident,
        sunt in culpa qui officia deserunt mollit anim id est laborum.}
    \vfill
    \includegraphics[width=30mm]{./figures/dice.png}
    \vspace{10mm}}

% Text on the back flap
\setbookcover{fgfirst}{back flap}{
    \centering
    \vspace{20mm}
    \parbox{40mm}{\color{white}
        Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor
        incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis
        nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.
        Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore
        eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident,
        sunt in culpa qui officia deserunt mollit anim id est laborum.}}

% Making the dust jucket
\makebookcover

\end{document}
```

The second example is a two-sided book cover. The outside and the inside are edited in the same document.
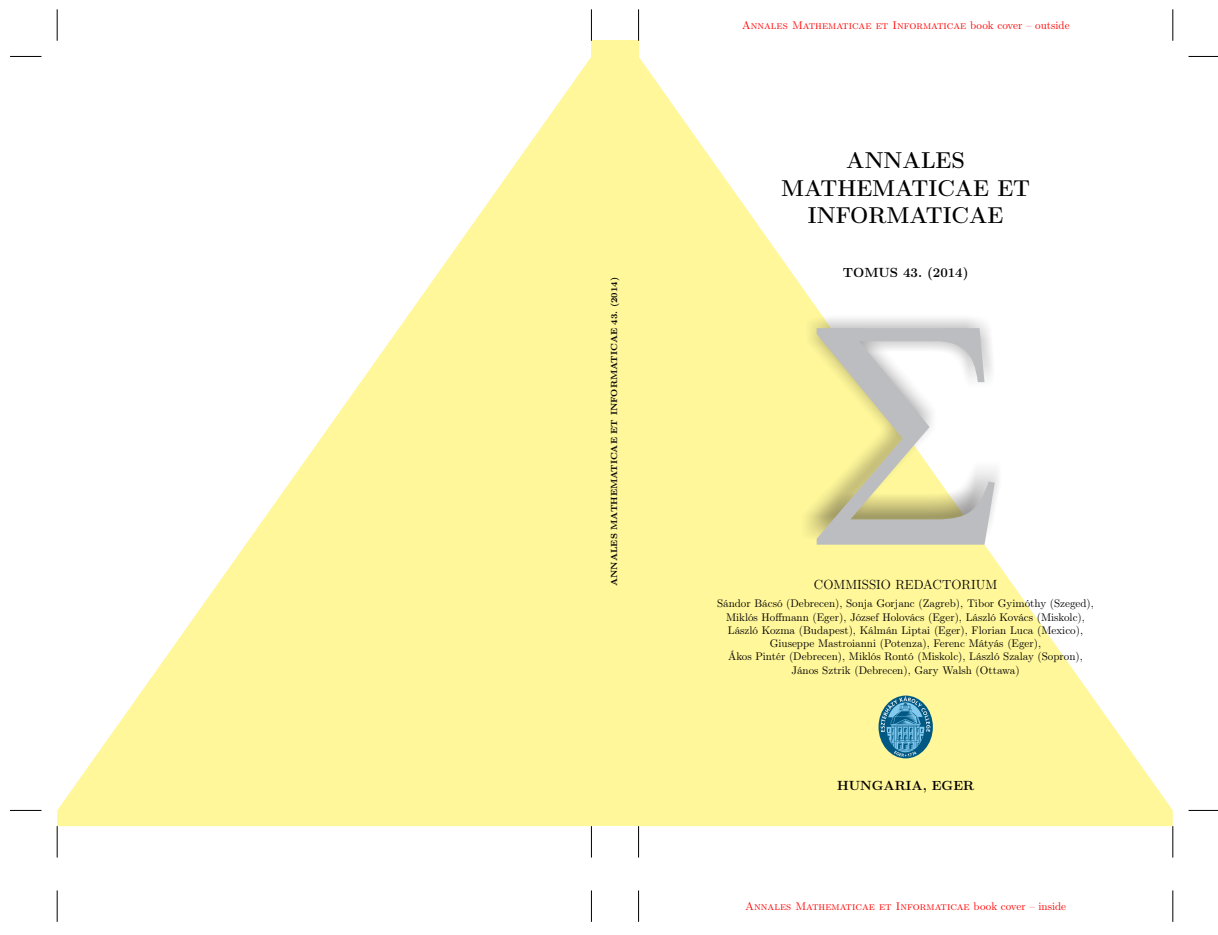
ANNALES MATHEMATICAE ET INFORMATICAE

TOMUS 43. (2014)

ANNALES MATHEMATICAE ET INFORMATICAE 43. (2014)

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János Sztrik (Debrecen), Gary Walsh (Ottawa)

HUNGARIA, EGER

```latex
\documentclass[markcolor=black,spinewidth=15mm]{bookcover}
\usepackage[utf8]{inputenc}
\usepackage[T1]{fontenc}
\usepackage[english]{babel}
\usepackage{url}
\definecolor{amiyellow}{cmyk}{0,0,.5,0}
\begin{document}

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% The outside of the book cover
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

% Yellow triangle on the back cover by tikz code
\setbookcover{bgtikz}{back}{
    \fill[color=amiyellow](0mm,250mm)(5mm,5mm)--(175mm,245mm)--(175mm,0mm)--(5mm,0mm)--cycle;}

% Yellow triangle on the front cover by tikz code
\setbookcover{bgtikz}{front}{
    \fill[color=amiyellow](0mm,250mm)(0mm,180mm)(0mm,0mm)--(0mm,245mm)--(170mm,5mm)--(170mm,0mm)--cycle;}

% Yellow background color on the spine
\setbookcover{bgcolor}{spine}{color=amiyellow}

% Remark
\setbookcover{fgfirst}{remark}{
    \color{red}\textsc{Annales Mathematicae et Informaticae} book cover -- outside}

% Text on the spine
\setbookcover{fgfirst}{spine}{
    \vfill
    \centering
    \rotatebox[origin=c]{90}{
        \footnotesize\bfseries
        ANNALES MATHEMATICAE ET INFORMATICAE 43.\ (2014)}
    \vfill}

% Text and pictures (summa.pdf, ekflogo.pdf) on the front cover
\setbookcover{fgfirst}{front}{
    \vspace{30.5mm}
    \centering
    {\huge\bfseries ANNALES\\ MATHEMATICAE ET\\ INFORMATICAE\\[13mm]}
    {\large\bfseries TOMUS 43.\ (2014)}\\[10mm]
    \includegraphics{./figures/summa.pdf}\\[5mm]
    {\large COMMISSIO REDACTORIUM}\\[3mm]
    \parbox{123mm}{
        \centering
        Sándor Bácsó (Debrecen), Sonja Gorjanc (Zagreb), Tibor Gyimóthy (Szeged),\\
        Miklós Hoffmann (Eger), József Holovács (Eger), László Kovács (Miskolc),\\
        László Kozma (Budapest), Kálmán Liptai (Eger), Florian Luca (Mexico),\\
        Giuseppe Mastroianni (Potenza), Ferenc Mátyás (Eger),\\
        Ákos Pintér (Debrecen), Miklós Rontó (Miskolc), László Szalay (Sopron),\\
        János Sztrik (Debrecen), Gary Walsh (Ottawa)\par}
    \vfill
    \includegraphics[height=20mm]{./figures/ekflogo.pdf}
    \vfill
    {\large\bfseries HUNGARIA, EGER}
    \vfill}

% Making the outside book cover
\makebookcover

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% The inside of the book cover
```

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%

% Remark
\setbookcover{fgfirst}{remark}{
    \color{red}\textsc{Annales Mathematicae et Informaticae} book cover -- inside}

% Text on the front cover (it is back of the inside book cover!)
\setbookcover{fgfirst}{front}{
    \vspace{27mm}
    \begin{center}
        \bfseries
        ANNALES MATHEMATICAE ET INFORMATICAE\\[3mm]
        International journal for mathematics and computer science\\[3mm]
        Referred by\\
        Zentralblatt für Mathematik\\
        and\\
        Mathematical Reviews\\
    \end{center}
    \bigskip
    \begin{center}
        \parbox{126mm}{
            The journal of the Institute of Mathematics and Informatics of
            Eszterházy Károly College is open for scientific publications
            in mathematics and computer science, where the field of number
            theory, group theory, constructive and computer aided geometry
            as well as theoretical and practical aspects of programming
            languages receive particular emphasis. Methodological papers
            are also welcome. Papers submitted to the journal should be
            written in English. Only new and unpublished material can be
            accepted.
            \par\bigskip
            Authors are kindly asked to write the final form of their
            manuscript in \LaTeX. If you have any problems or questions,
            please write an e-mail to the managing editor
            Miklós Hoffmann: \url{hofi@ektf.hu}
            \par\bigskip
            The volumes are available at \url{http://ami.ektf.hu}}
    \end{center}}

% Making the inside book cover
\makebookcover

\end{document}
```

4   Implementation

```
1 %%
2 %% Options
3 \RequirePackage{kvoptions}
4 \SetupKeyvalOptions{family=bookcover,prefix=bookcover@}
5 \DeclareVoidOption{10pt}{\PassOptionsToClass{10pt}{article}}
6 \DeclareVoidOption{11pt}{\PassOptionsToClass{11pt}{article}}
7 \DeclareVoidOption{12pt}{\PassOptionsToClass{12pt}{article}}
8 \DeclareVoidOption{grid}{\PassOptionsToPackage{grid}{eso-pic}}
9 \DeclareStringOption[170mm]{coverwidth}
10 \DeclareStringOption[240mm]{coverheight}
11 \DeclareStringOption[5mm]{spinewidth}
12 \DeclareStringOption[0mm]{flapwidth}
13 \DeclareStringOption[10mm]{marklength}
14 \DeclareStringOption[.4pt]{markthick}
15 \DeclareStringOption[5mm]{bleedwidth}
16 \DeclareStringOption[red]{markcolor}
```

```latex
17 \DeclareBoolOption[false]{trimmed}
18 \ProcessKeyvalOptions{bookcover}
19
20 %% Loading class and packages
21 \LoadClass{article}
22 \RequirePackage{geometry,graphicx,calc,xcolor,ifthen,tikz,eso-pic}
23 \RequirePackage[absolute]{textpos}
24
25 %% Page style is empty
26 \pagestyle{empty}
27
28 %% New length commands
29 \newlength{\coverwidth}
30 \newlength{\coverheight}
31 \newlength{\spinewidth}
32 \newlength{\flapwidth}
33 \newlength{\marklength}
34 \newlength{\markthick}
35 \newlength{\bleedwidth}
36 \newlength{\bookcover@xpos@}
37 \newlength{\bookcover@ypos@}
38 \newlength{\bookcover@partwidth@}
39 \newlength{\bookcover@partheight@}
40
41 %% Set length commands
42 \setlength{\coverwidth}{\bookcover@coverwidth}
43 \setlength{\coverheight}{\bookcover@coverheight}
44 \setlength{\spinewidth}{\bookcover@spinewidth}
45 \setlength{\flapwidth}{\bookcover@flapwidth}
46 \setlength{\marklength}{\bookcover@marklength}
47 \setlength{\markthick}{\bookcover@markthick}
48 \setlength{\bleedwidth}{\bookcover@bleedwidth}
49 \setlength{\paperwidth}{2\marklength+2\bleedwidth+2\coverwidth+2\flapwidth+\spinewidth}
50 \setlength{\paperheight}{2\marklength+2\bleedwidth+\coverheight}
51 \setlength{\parindent}{0pt}
52
53 %% If grid is true, then mark thick is 2pt and mark color is red
54 \ifESO@grid\setlength{\markthick}{2pt}\def\bookcover@markcolor{red}\fi
55
56 %% Internal macros
57 \def\bookcover@xpos#1{\setlength{\bookcover@xpos@}{#1}}
58 \def\bookcover@ypos#1{\setlength{\bookcover@ypos@}{#1}}
59 \def\bookcover@partwidth#1{\setlength{\bookcover@partwidth@}{#1}}
60 \def\bookcover@partheight#1{\setlength{\bookcover@partheight@}{#1}}
61 \def\bookcover@bgcolor#1{
62     \begin{textblock*}{\bookcover@partwidth@}(\bookcover@xpos@,\bookcover@ypos@)
63         \tikz\expandafter\fill#1 (0mm,0mm) rectangle (\bookcover@partwidth@,\bookcover@partheight@);
64     \end{textblock*}}
65 \def\bookcover@bgpic#1{
66     \begin{textblock*}{\bookcover@partwidth@}(\bookcover@xpos@,\bookcover@ypos@)
67         \includegraphics[width=\bookcover@partwidth@,height=\bookcover@partheight@]{#1}
68     \end{textblock*}}
69 \def\bookcover@bgtikz#1{
70     \begin{textblock*}{\bookcover@partwidth@}(\bookcover@xpos@,\bookcover@ypos@)
71         \begin{tikzpicture}
72             #1
73         \end{tikzpicture}
74     \end{textblock*}}
75 \def\bookcover@fg#1{
76     \begin{textblock*}{\bookcover@partwidth@}(\bookcover@xpos@,\bookcover@ypos@)
77         \parbox[t][\bookcover@partheight@][t]{\bookcover@partwidth@}{#1}
78     \end{textblock*}}
79 \def\bookcover@vmark{
```

```latex
80      \begin{textblock*}{\bookcover@partwidth@}(\bookcover@xpos@,\bookcover@ypos@)
81          {\color{\bookcover@markcolor}\rule[0pt]{\markthick}{\marklength}}
82      \end{textblock*}}
83  \def\bookcover@hmark{
84      \begin{textblock*}{\bookcover@partwidth@}(\bookcover@xpos@,\bookcover@ypos@)
85          {\color{\bookcover@markcolor}\rule[0pt]{\marklength}{\markthick}}
86      \end{textblock*}}
87  \def\bookcover@reset{
88      \def\bookcover@bgcolor@whole{}
89      \def\bookcover@bgcolor@wholewf{}
90      \def\bookcover@bgcolor@back{}
91      \def\bookcover@bgcolor@front{}
92      \def\bookcover@bgcolor@backflap{}
93      \def\bookcover@bgcolor@frontflap{}
94      \def\bookcover@bgcolor@spine{}
95      \def\bookcover@bgpic@whole{}
96      \def\bookcover@bgpic@wholewf{}
97      \def\bookcover@bgpic@back{}
98      \def\bookcover@bgpic@front{}
99      \def\bookcover@bgpic@backflap{}
100     \def\bookcover@bgpic@frontflap{}
101     \def\bookcover@bgpic@spine{}
102     \def\bookcover@bgtikz@whole{}
103     \def\bookcover@bgtikz@wholewf{}
104     \def\bookcover@bgtikz@back{}
105     \def\bookcover@bgtikz@front{}
106     \def\bookcover@bgtikz@backflap{}
107     \def\bookcover@bgtikz@frontflap{}
108     \def\bookcover@bgtikz@spine{}
109     \def\bookcover@fgfirst@back{}
110     \def\bookcover@fgfirst@front{}
111     \def\bookcover@fgfirst@spine{}
112     \def\bookcover@fgfirst@backflap{}
113     \def\bookcover@fgfirst@frontflap{}
114     \def\bookcover@fgfirst@remark{}
115     \def\bookcover@fgsecond@back{}
116     \def\bookcover@fgsecond@front{}
117     \def\bookcover@fgsecond@spine{}
118     \def\bookcover@fgsecond@backflap{}
119     \def\bookcover@fgsecond@frontflap{}}
120
121 %% Reset datas
122 \bookcover@reset
123
124 %% Definition of command \setbookcover
125 \long\def\setbookcover#1#2#3{
126     \ifthenelse{\equal{#1}{bgcolor}}{
127         \ifthenelse{\equal{#2}{whole}}{\def\bookcover@bgcolor@whole{[#3]}}{}
128         \ifthenelse{\equal{#2}{whole without flaps}}{\def\bookcover@bgcolor@wholewf{[#3]}}{}
129         \ifthenelse{\equal{#2}{back}}{\def\bookcover@bgcolor@back{[#3]}}{}
130         \ifthenelse{\equal{#2}{front}}{\def\bookcover@bgcolor@front{[#3]}}{}
131         \ifthenelse{\equal{#2}{back flap}}{\def\bookcover@bgcolor@backflap{[#3]}}{}
132         \ifthenelse{\equal{#2}{front flap}}{\def\bookcover@bgcolor@frontflap{[#3]}}{}
133         \ifthenelse{\equal{#2}{spine}}{\def\bookcover@bgcolor@spine{[#3]}}{}}{}
134     \ifthenelse{\equal{#1}{bgpic}}{
135         \ifthenelse{\equal{#2}{whole}}{\def\bookcover@bgpic@whole{#3}}{}
136         \ifthenelse{\equal{#2}{whole without flaps}}{\def\bookcover@bgpic@wholewf{#3}}{}
137         \ifthenelse{\equal{#2}{back}}{\def\bookcover@bgpic@back{#3}}{}
138         \ifthenelse{\equal{#2}{front}}{\def\bookcover@bgpic@front{#3}}{}
139         \ifthenelse{\equal{#2}{back flap}}{\def\bookcover@bgpic@backflap{#3}}{}
140         \ifthenelse{\equal{#2}{front flap}}{\def\bookcover@bgpic@frontflap{#3}}{}
141         \ifthenelse{\equal{#2}{spine}}{\def\bookcover@bgpic@spine{#3}}{}}{}
142     \ifthenelse{\equal{#1}{bgtikz}}{
```

```
143        \ifthenelse{\equal{#2}{whole}}{\def\bookcover@bgtikz@whole{#3}}{}
144        \ifthenelse{\equal{#2}{whole without flaps}}{\def\bookcover@bgtikz@wholewf{#3}}{}
145        \ifthenelse{\equal{#2}{back}}{\def\bookcover@bgtikz@back{#3}}{}
146        \ifthenelse{\equal{#2}{front}}{\def\bookcover@bgtikz@front{#3}}{}
147        \ifthenelse{\equal{#2}{back flap}}{\def\bookcover@bgtikz@backflap{#3}}{}
148        \ifthenelse{\equal{#2}{front flap}}{\def\bookcover@bgtikz@frontflap{#3}}{}
149        \ifthenelse{\equal{#2}{spine}}{\def\bookcover@bgtikz@spine{#3}}{}}{}
150    \ifthenelse{\equal{#1}{fgfirst}}{
151        \ifthenelse{\equal{#2}{back}}{\def\bookcover@fgfirst@back{#3}}{}
152        \ifthenelse{\equal{#2}{front}}{\def\bookcover@fgfirst@front{#3}}{}
153        \ifthenelse{\equal{#2}{spine}}{\def\bookcover@fgfirst@spine{#3}}{}
154        \ifthenelse{\equal{#2}{back flap}}{\def\bookcover@fgfirst@backflap{#3}}{}
155        \ifthenelse{\equal{#2}{front flap}}{\def\bookcover@fgfirst@frontflap{#3}}{}
156        \ifthenelse{\equal{#2}{remark}}{\def\bookcover@fgfirst@remark{#3}}{}}{}
157    \ifthenelse{\equal{#1}{fgsecond}}{
158        \ifthenelse{\equal{#2}{back}}{\def\bookcover@fgsecond@back{#3}}{}
159        \ifthenelse{\equal{#2}{front}}{\def\bookcover@fgsecond@front{#3}}{}
160        \ifthenelse{\equal{#2}{spine}}{\def\bookcover@fgsecond@spine{#3}}{}
161        \ifthenelse{\equal{#2}{back flap}}{\def\bookcover@fgsecond@backflap{#3}}{}
162        \ifthenelse{\equal{#2}{front flap}}{\def\bookcover@fgsecond@frontflap{#3}}{}}{}}
163
164 %% Definition of command \makebookcover
165 \def\makebookcover{
166 %% Background
167 \bookcover@ypos{\marklength}
168 \bookcover@partheight{\coverheight+2\bleedwidth}
169 %% {bgcolor}{whole}
170 \ifx\bookcover@bgcolor@whole\@empty\else
171     \bookcover@xpos{\marklength}
172     \bookcover@partwidth{2\coverwidth+2\bleedwidth+2\flapwidth+\spinewidth}
173     \bookcover@bgcolor{\bookcover@bgcolor@whole}\fi
174 %% {bgcolor}{whole without flaps}
175 \ifx\bookcover@bgcolor@wholewf\@empty\else
176     \ifdim\flapwidth>0mm
177         \bookcover@xpos{\marklength+\bleedwidth+\flapwidth}
178         \bookcover@partwidth{2\coverwidth+\spinewidth}
179     \else
180         \bookcover@xpos{\marklength}
181         \bookcover@partwidth{2\coverwidth+2\bleedwidth+\spinewidth}\fi
182     \bookcover@bgcolor{\bookcover@bgcolor@wholewf}\fi
183 %% {bgcolor}{back flap}
184 \ifx\bookcover@bgcolor@backflap\@empty\else\ifdim\flapwidth>0mm
185     \bookcover@xpos{\marklength}
186     \bookcover@partwidth{\flapwidth+\bleedwidth}
187     \bookcover@bgcolor{\bookcover@bgcolor@backflap}\fi\fi
188 %% {bgcolor}{back}
189 \ifx\bookcover@bgcolor@back\@empty\else
190     \ifdim\flapwidth>0mm
191         \bookcover@xpos{\marklength+\bleedwidth+\flapwidth}
192         \bookcover@partwidth{\coverwidth}
193     \else
194         \bookcover@xpos{\marklength}
195         \bookcover@partwidth{\coverwidth+\bleedwidth}\fi
196     \bookcover@bgcolor{\bookcover@bgcolor@back}\fi
197 %% {bgcolor}{spine}
198 \ifx\bookcover@bgcolor@spine\@empty\else
199     \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+\coverwidth}
200     \bookcover@partwidth{\spinewidth}
201     \bookcover@bgcolor{\bookcover@bgcolor@spine}\fi
202 %% {bgcolor}{front}
203 \ifx\bookcover@bgcolor@front\@empty\else
204     \ifdim\flapwidth>0mm
205         \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+\coverwidth+\spinewidth}
```

14

```latex
206      \bookcover@partwidth{\coverwidth}
207    \else
208        \bookcover@xpos{\marklength+\bleedwidth+\coverwidth+\spinewidth}
209        \bookcover@partwidth{\coverwidth+\bleedwidth}\fi
210    \bookcover@bgcolor{\bookcover@bgcolor@front}\fi
211 %% {bgcolor}{front flap}
212 \ifx\bookcover@bgcolor@frontflap\@empty\else\ifdim\flapwidth>0mm
213    \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+2\coverwidth+\spinewidth}
214    \bookcover@partwidth{\flapwidth+\bleedwidth}
215    \bookcover@bgcolor{\bookcover@bgcolor@frontflap}\fi\fi
216 %% {bgpic}{whole}
217 \ifx\bookcover@bgpic@whole\@empty\else
218    \bookcover@xpos{\marklength}
219    \bookcover@partwidth{2\coverwidth+2\bleedwidth+2\flapwidth+\spinewidth}
220    \bookcover@bgpic{\bookcover@bgpic@whole}\fi
221 %% {bgpic}{whole without flaps}
222 \ifx\bookcover@bgpic@wholewf\@empty\else
223    \ifdim\flapwidth>0mm
224        \bookcover@xpos{\marklength+\bleedwidth+\flapwidth}
225        \bookcover@partwidth{2\coverwidth+\spinewidth}
226    \else
227        \bookcover@xpos{\marklength}
228        \bookcover@partwidth{2\coverwidth+2\bleedwidth+\spinewidth}\fi
229    \bookcover@bgpic{\bookcover@bgpic@wholewf}\fi
230 %% {bgpic}{back flap}
231 \ifx\bookcover@bgpic@backflap\@empty\else\ifdim\flapwidth>0mm
232    \bookcover@xpos{\marklength}
233    \bookcover@partwidth{\flapwidth+\bleedwidth}
234    \bookcover@bgpic{\bookcover@bgpic@backflap}\fi\fi
235 %% {bgpic}{back}
236 \ifx\bookcover@bgpic@back\@empty\else
237    \ifdim\flapwidth>0mm
238        \bookcover@xpos{\marklength+\bleedwidth+\flapwidth}
239        \bookcover@partwidth{\coverwidth}
240    \else
241        \bookcover@xpos{\marklength}
242        \bookcover@partwidth{\coverwidth+\bleedwidth}\fi
243    \bookcover@bgpic{\bookcover@bgpic@back}\fi
244 %% {bgpic}{spine}
245 \ifx\bookcover@bgpic@spine\@empty\else
246    \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+\coverwidth}
247    \bookcover@partwidth{\spinewidth}
248    \bookcover@bgpic{\bookcover@bgpic@spine}\fi
249 %% {bgpic}{front}
250 \ifx\bookcover@bgpic@front\@empty\else
251    \ifdim\flapwidth>0mm
252        \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+\coverwidth+\spinewidth}
253        \bookcover@partwidth{\coverwidth}
254    \else
255        \bookcover@xpos{\marklength+\bleedwidth+\coverwidth+\spinewidth}
256        \bookcover@partwidth{\coverwidth+\bleedwidth}\fi
257    \bookcover@bgpic{\bookcover@bgpic@front}\fi
258 %% {bgpic}{front flap}
259 \ifx\bookcover@bgpic@frontflap\@empty\else\ifdim\flapwidth>0mm
260    \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+2\coverwidth+\spinewidth}
261    \bookcover@partwidth{\flapwidth+\bleedwidth}
262    \bookcover@bgpic{\bookcover@bgpic@frontflap}\fi\fi
263 %% {bgtikz}{whole}
264 \ifx\bookcover@bgtikz@whole\@empty\else
265    \bookcover@xpos{\marklength}
266    \bookcover@partwidth{2\coverwidth+2\bleedwidth+2\flapwidth+\spinewidth}
267    \bookcover@bgtikz{\bookcover@bgtikz@whole}\fi
268 %% {bgtikz}{whole without flaps}
```

```
269 \ifx\bookcover@bgtikz@wholewf\@empty\else
270     \ifdim\flapwidth>0mm
271         \bookcover@xpos{\marklength+\bleedwidth+\flapwidth}
272         \bookcover@partwidth{2\coverwidth+\spinewidth}
273     \else
274         \bookcover@xpos{\marklength}
275         \bookcover@partwidth{2\coverwidth+2\bleedwidth+\spinewidth}\fi
276     \bookcover@bgtikz{\bookcover@bgtikz@wholewf}\fi
277 %% {bgtikz}{back flap}
278 \ifx\bookcover@bgtikz@backflap\@empty\else\ifdim\flapwidth>0mm
279     \bookcover@xpos{\marklength}
280     \bookcover@partwidth{\flapwidth+\bleedwidth}
281     \bookcover@bgtikz{\bookcover@bgtikz@backflap}\fi\fi
282 %% {bgtikz}{back}
283 \ifx\bookcover@bgtikz@back\@empty\else
284     \ifdim\flapwidth>0mm
285         \bookcover@xpos{\marklength+\bleedwidth+\flapwidth}
286         \bookcover@partwidth{\coverwidth}
287     \else
288         \bookcover@xpos{\marklength}
289         \bookcover@partwidth{\coverwidth+\bleedwidth}\fi
290     \bookcover@bgtikz{\bookcover@bgtikz@back}\fi
291 %% {bgtikz}{spine}
292 \ifx\bookcover@bgtikz@spine\@empty\else
293     \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+\coverwidth}
294     \bookcover@partwidth{\spinewidth}
295     \bookcover@bgtikz{\bookcover@bgtikz@spine}\fi
296 %% {bgtikz}{front}
297 \ifx\bookcover@bgtikz@front\@empty\else
298     \ifdim\flapwidth>0mm
299         \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+\coverwidth+\spinewidth}
300         \bookcover@partwidth{\coverwidth}
301     \else
302         \bookcover@xpos{\marklength+\bleedwidth+\coverwidth+\spinewidth}
303         \bookcover@partwidth{\coverwidth+\bleedwidth}\fi
304     \bookcover@bgtikz{\bookcover@bgtikz@front}\fi
305 %% {bgtikz}{front flap}
306 \ifx\bookcover@bgtikz@frontflap\@empty\else\ifdim\flapwidth>0mm
307     \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+2\coverwidth+\spinewidth}
308     \bookcover@partwidth{\flapwidth+\bleedwidth}
309     \bookcover@bgtikz{\bookcover@bgtikz@frontflap}\fi\fi
310 %% Foreground
311 \bookcover@ypos{\marklength+\bleedwidth}
312 \bookcover@partheight{\coverheight}
313 %% {fgsecond}{back flap}
314 \ifx\bookcover@fgsecond@backflap\@empty\else\ifdim\flapwidth>0mm
315     \bookcover@xpos{\marklength+\bleedwidth}
316     \bookcover@partwidth{\flapwidth}
317     \bookcover@fg{\bookcover@fgsecond@backflap}\fi\fi
318 %% {fgsecond}{back}
319 \ifx\bookcover@fgsecond@back\@empty\else
320     \bookcover@xpos{\marklength+\bleedwidth+\flapwidth}
321     \bookcover@partwidth{\coverwidth}
322     \bookcover@fg{\bookcover@fgsecond@back}\fi
323 %% {fgsecond}{spine}
324 \ifx\bookcover@fgsecond@spine\@empty\else
325     \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+\coverwidth}
326     \bookcover@partwidth{\spinewidth}
327     \bookcover@fg{\bookcover@fgsecond@spine}\fi
328 %% {fgsecond}{front}
329 \ifx\bookcover@fgsecond@front\@empty\else
330     \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+\coverwidth+\spinewidth}
331     \bookcover@partwidth{\coverwidth}
```

```
332     \bookcover@fg{\bookcover@fgsecond@front}\fi
333 %% {fgsecond}{front flap}
334 \ifx\bookcover@fgsecond@frontflap\@empty\else\ifdim\flapwidth>0mm
335     \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+2\coverwidth+\spinewidth}
336     \bookcover@partwidth{\flapwidth}
337     \bookcover@fg{\bookcover@fgsecond@frontflap}\fi\fi
338 %% {fgfirst}{back flap}
339 \ifx\bookcover@fgfirst@backflap\@empty\else\ifdim\flapwidth>0mm
340     \bookcover@xpos{\marklength+\bleedwidth}
341     \bookcover@partwidth{\flapwidth}
342     \bookcover@fg{\bookcover@fgfirst@backflap}\fi\fi
343 %% {fgfirst}{back}
344 \ifx\bookcover@fgfirst@back\@empty\else
345     \bookcover@xpos{\marklength+\bleedwidth+\flapwidth}
346     \bookcover@partwidth{\coverwidth}
347     \bookcover@fg{\bookcover@fgfirst@back}\fi
348 %% {fgfirst}{spine}
349 \ifx\bookcover@fgfirst@spine\@empty\else
350     \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+\coverwidth}
351     \bookcover@partwidth{\spinewidth}
352     \bookcover@fg{\bookcover@fgfirst@spine}\fi
353 %% {fgfirst}{front}
354 \ifx\bookcover@fgfirst@front\@empty\else
355     \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+\coverwidth+\spinewidth}
356     \bookcover@partwidth{\coverwidth}
357     \bookcover@fg{\bookcover@fgfirst@front}\fi
358 %% {fgfirst}{front flap}
359 \ifx\bookcover@fgfirst@frontflap\@empty\else\ifdim\flapwidth>0mm
360     \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+2\coverwidth+\spinewidth}
361     \bookcover@partwidth{\flapwidth}
362     \bookcover@fg{\bookcover@fgfirst@frontflap}\fi\fi
363 %% {fgfirst}{remark}
364 \ifx\bookcover@fgfirst@remark\@empty\else\ifdim\marklength>0mm
365     \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+\coverwidth+\spinewidth}
366     \bookcover@ypos{0mm}
367     \bookcover@partwidth{\coverwidth}
368     \bookcover@partheight{\marklength}
369     \begin{textblock*}{\bookcover@partwidth@}(\bookcover@xpos@,\bookcover@ypos@)
370         \parbox[t][\bookcover@partheight@][c]{\bookcover@partwidth@}
371             {\centering\bookcover@fgfirst@remark\par}
372     \end{textblock*}\fi\fi
373 %% Marks
374 %% mark top
375 \bookcover@ypos{0mm}
376 \bookcover@partwidth{\markthick}
377 %% mark top 1
378 \bookcover@xpos{\marklength+\bleedwidth-.5\markthick}
379 \bookcover@vmark
380 %% mark top 2
381 \ifdim\flapwidth>0mm
382     \bookcover@xpos{\marklength+\bleedwidth+\flapwidth-.5\markthick}
383     \bookcover@vmark\fi
384 %% mark top 3
385 \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+\coverwidth-.5\markthick}
386 \bookcover@vmark
387 %% mark top 4
388 \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+\coverwidth+\spinewidth-.5\markthick}
389 \bookcover@vmark
390 %% mark top 5
391 \ifdim\flapwidth>0mm
392     \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+2\coverwidth+\spinewidth-.5\markthick}
393     \bookcover@vmark\fi
394 %% mark top 6
```

```
395 \bookcover@xpos{\marklength+\bleedwidth+2\flapwidth+2\coverwidth+\spinewidth-.5\markthick}
396 \bookcover@vmark
397 %% mark bottom
398 \bookcover@ypos{\paperheight-\marklength}
399 \bookcover@partwidth{\markthick}
400 %% mark bottom 1
401 \bookcover@xpos{\marklength+\bleedwidth-.5\markthick}
402 \bookcover@vmark
403 %% mark bottom 2
404 \ifdim\flapwidth>0mm
405     \bookcover@xpos{\marklength+\bleedwidth+\flapwidth-.5\markthick}
406     \bookcover@vmark\fi
407 %% mark bottom 3
408 \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+\coverwidth-.5\markthick}
409 \bookcover@vmark
410 %% mark bottom 4
411 \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+\coverwidth+\spinewidth-.5\markthick}
412 \bookcover@vmark
413 %% mark bottom 5
414 \ifdim\flapwidth>0mm
415     \bookcover@xpos{\marklength+\bleedwidth+\flapwidth+2\coverwidth+\spinewidth-.5\markthick}
416     \bookcover@vmark\fi
417 %% mark bottom 6
418 \bookcover@xpos{\marklength+\bleedwidth+2\flapwidth+2\coverwidth+\spinewidth-.5\markthick}
419 \bookcover@vmark
420 %% mark left
421 \bookcover@xpos{0mm}
422 \bookcover@partwidth{\marklength}
423 %% mark left 1
424 \bookcover@ypos{\marklength+\bleedwidth-.5\markthick}
425 \bookcover@hmark
426 %% mark left 2
427 \bookcover@ypos{\marklength+\bleedwidth+\coverheight-.5\markthick}
428 \bookcover@hmark
429 %% mark right
430 \bookcover@xpos{\paperwidth-\marklength}
431 \bookcover@partwidth{\marklength}
432 %% mark right 1
433 \bookcover@ypos{\marklength+\bleedwidth-.5\markthick}
434 \bookcover@hmark
435 %% mark right 2
436 \bookcover@ypos{\marklength+\bleedwidth+\coverheight-.5\markthick}
437 \bookcover@hmark
438 %% Trim
439 \ifbookcover@trimmed
440     \begin{textblock*}{\paperwidth}(0mm,0mm)
441         \begin{tikzpicture}
442             \begin{scope}[color=white]
443                 \fill(0mm,\marklength-2pt)--
444                     (\paperwidth,\marklength-2pt)--
445                     (\paperwidth,\marklength+\bleedwidth)--
446                     (0mm,\marklength+\bleedwidth)--cycle;
447                 \fill(0mm,\paperheight-\marklength+2pt)--
448                     (\paperwidth,\paperheight-\marklength+2pt)--
449                     (\paperwidth,\paperheight-\marklength-\bleedwidth)--
450                     (0mm,\paperheight-\marklength-\bleedwidth)--cycle;
451                 \fill(0mm,0mm)--
452                     (\marklength+\bleedwidth,0mm)--
453                     (\marklength+\bleedwidth,\paperheight)--
454                     (0mm,\paperheight)--cycle;
455                 \fill(\paperwidth-\marklength-\bleedwidth,0mm)--
456                     (\paperwidth,0mm)--
457                     (\paperwidth,\paperheight)--
```

```
458                          (\paperwidth-\marklength-\bleedwidth,\paperheight)--cycle;
459                \end{scope}
460                \draw(\marklength+\bleedwidth,\marklength+\bleedwidth)--
461                       (\paperwidth-\marklength-\bleedwidth,\marklength+\bleedwidth)--
462                       (\paperwidth-\marklength-\bleedwidth,\paperheight-\marklength-\bleedwidth)--
463                       (\marklength+\bleedwidth,\paperheight-\marklength-\bleedwidth)--cycle;
464            \end{tikzpicture}
465        \end{textblock*}\fi
466 %% New book cover
467 \mbox{}
468 \newpage
469 \bookcover@reset}
```