

Zigaretenschachtelhuellenzeichnung

Drawing of cigarette pack covers.

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1 To start with

This package is meant to design cigarette pack covers that hide the death warnings and the advertising present on most packs. It imitates the original look of packs in the European Union by allowing the placement of fancy warnings (e.g. Caution: inflammable device).

An example file `example.tex` is included in the distribution.

The package is loaded with `\usepackage{zigarettenschachtelhuellenzeichnung}` between the `\documentclass{...}` and the `\begin{document}`.

A cigarette pack is then obtained with

```
\begin{zigarettenschachtelhuelle}[<pack>]
  \frontwarning{Text of the warning on the front side}
  \fronttext{Text on the front side, above the warning frame}
  \ingredients{Text in the left side frame}
  \background{<pgfcolor>}
  \backwarning{Text of the warning on the back side}
  \backtext{Text on the back side, above the warning frame}
\end{zigarettenschachtelhuelle}
```

The default pack is `<pack>=normalpack`. It corresponds to a standard hard pack. It is possible to define new pack styles by specifying all dimensions:

```
\definepack{<packname>}{
  \width=<pack width>
  \depth=<pack depth>
  \frontheight=<cover height on the front side>
  \backheight=<cover height on the back side>
  \frontwarningheight=<height of the warning framebox on the front side>
  \backwarningheight=<height of the warning framebox on the back side>
  \ingredientsheight=<height of the ingredients framebox>
  \framewidth=<thickness of the frame in warning boxes>
  \framesep=<distance between warning text and frame>
  \flapsize=<width of the flaps used to glue the pattern>
```

```

\frontwarningbottommargin=
\backwarningsidemargin=
\ingredientsbottommargin=
\ingredientssidemargin=
\frontwarningsidemargin=
\backwarningbottommargin=
\sidemargin=<margin for normal text written on the pack cover>
\verticalmargin=<top margin for normal text on the pack cover>
}

```

2 Description of commands

TBW.

3 L^AT_EXsource

```

1 % Needed packages: calc for dimension calculus, pgf for portable graphics
2 % and ifthen to use latex-style booleans.
3 \RequirePackage{calc}
4 \RequirePackage{pgf}
5 \RequirePackage{ifthen}
6 % width of the pack
7 \newlength\width
8 % depth of the pack
9 \newlength\depth
10 % height of the cover on the front side of the pack
11 \newlength\frontheight
12 % height of the cover on the back side of the pack
13 \newlength\backheight
14 % flap width
15 \newlength\flapsize
16 % width of the black frame of warnings
17 \newlength\framewidth
18 % separation between warning text and the black frame
19 \newlength\framesep
20 % height, side-margin and bottom margin of the front warning frame
21 \newlength\frontwarningheight
22 \newlength\frontwarningsidemargin
23 \newlength\frontwarningbottommargin
24 % idem for the back warning frame
25 \newlength\backwarningheight
26 \newlength\backwarningsidemargin
27 \newlength\backwarningbottommargin
28 % idem for the side frame used as a ingredients listing
29 \newlength\ingredientsheight
30 \newlength\ingredientssidemargin
31 \newlength\ingredientsbottommargin
32 % side-margin and top margin for displaying text or images on the cover
33 \newlength\sidemargin
34 \newlength\verticalmargin
35 % define a packstyle \definepack{packname}{\width=... \depth=...}

```

```

36 % can be used later with \begin{zigarettenschachtelhuelle}[packname]
37 \def\@listofpacks{}
38 \newcommand\definepack[2]{
39   \ifthenelse{\equal{\@listofpacks}{}}{\def\@comma{,}}{\def\@comma{,}}
40   \edef\@listofpacks{\@listofpacks\@comma#1}%
41   \expandafter\def\csname #1\endcsname{#2}%
42 }
43 % the default pack style is normalpack (20 hard pack)
44 \definepack{normalpack}{
45   \newcommand\warningfont{\sffamily\bfseries}
46   \renewcommand\textfont{\sffamily}
47   \ingredientssidemargin=2mm
48   \ingredientsbottommargin=5mm
49   \ingredientsheight=22mm
50   \frontwarningbottommargin=1mm
51   \frontwarningsidemargin=1mm
52   \backwarningheight=38mm
53   \backwarningsidemargin=1mm
54   \backwarningbottommargin=1mm
55   \depth=24mm
56   \width=56mm
57   \frontheight=62mm
58   \backheight=76mm
59   \flapsize=10mm
60   \framewidth=3mm
61   \framesep=2.5mm
62   \sidemargin=3mm
63   \frontwarningheight=28mm
64   \verticalmargin=3mm
65 }
66 % pack cover is created by an environment
67 \begin{zigarettenschachtelhuelle}[packstyle]
68 %   <some dimension and/or font settings>
69 %   <setting of warning messages>
70 % \end{zigarettenschachtelhuelle}
71 \newenvironment{zigarettenschachtelhuelle}[1][normalpack]{%
72   % \frontwarning[fontsize]{text}: set the front warning (and its font size)
73   \newcommand\frontwarning[2][20pt]{%
74     \setlength\@frontwarningfs{##1}
75     \setlength\@frontwarningls{1.14\@frontwarningfs}
76     \def\@frontwarningtext{##2}%
77   }\frontwarning{}}%
78   % \fronttext[fontsize]{text}: set the front text (and its font size)
79   \newcommand\fronttext[2][10pt]{%
80     \setlength\@fronttextfs{##1}
81     \setlength\@fronttextls{1.14\@fronttextfs}
82     \def\@fronttext{##2}%
83   }\fronttext{}}%
84   % \backwarning[fontsize]{text}: set the back warning (and its font size)
85   \newcommand\backwarning[2][15pt]{%
86     \setlength\@backwarningfs{##1}
87     \setlength\@backwarningls{1.14\@backwarningfs}
88     \def\@backwarningtext{##2}%
89   }\backwarning{}}%

```

```

90 % \backtext[fontsize]{text}: set the back text (and its font size)
91 \newcommand\backtext[2][10pt]{%
92   \setlength\@backtextfs{##1}
93   \setlength\@backtextls{1.14\@backtextfs}
94   \def\@backtext{##2}%
95 } \backtext{}%
96 % \ingredients[fontsize]{text}: set the ingredient list (and its font size)
97 \newcommand\ingredients[2][5pt]{%
98   \setlength\@ingrendientsfs{##1}
99   \setlength\@ingrendientsls{1.14\@ingrendientsfs}
100  \def\@ingredientstext{##2}%
101 } \ingredients{}%
102 % \background{pgfcolor}: set the background color
103 \newcommand\background[1]{\def\@background{##1}\background{white}}%
104 % look for the pack style in the list of defined ones and
105 % set the corresponding dimensions
106 \setboolean{@validpack}{false}
107 \for\@packstyle:=\@listofpacks\do{%
108   \typeout{\@packstyle - #1}
109   \ifthenelse{\equal{#1}{\@packstyle}}{%
110     \typeout{  -> OK!}
111     \csname\@packstyle\endcsname
112     \setboolean{@validpack}{true}
113   }{}%
114 }
115 \ifthenelse{\boolean{@validpack}}{}{%
116   \@latexerr{Not a valid pack type: #1}%
117 }
118 }{}%
119 % coordinates of template vertices. (see template below)
120 %
121 %           N-----N
122 %           /|         |\
123 %           / |         | \
124 % P-----O/r |         | \L__
125 % |         | i |         | l | f\K
126 % | back   | g | front | e | l |
127 % |         | h |         | f | a |
128 % |         | t |         | t | p J
129 % A-----B---C-----H---I--/
130 %           | bottom |
131 %           D-----G
132 %           | flap   |
133 %           \E-----F/
134 \parindent=0pt
135 \setlength\@xA{0cm}\setlength\@yA{0cm}
136 \setlength\@xB{\width}\setlength\@yB{0cm}
137 \setlength\@xC{\width+\depth}\setlength\@yC{0cm}
138 \setlength\@xD{\width+\depth}\setlength\@yD{-\depth}
139 \setlength\@xE{\width+\depth+0.5\flapsize}\setlength\@yE{-\depth-\flapsize}
140 \setlength\@xF{2\width+\depth-0.5\flapsize}\setlength\@yF{-\depth-\flapsize}
141 \setlength\@xG{2\width+\depth}\setlength\@yG{-\depth}
142 \setlength\@xH{2\width+\depth}\setlength\@yH{0cm}
143 \setlength\@xI{2\width+2\depth}\setlength\@yI{0cm}
144 \setlength\@xJ{2\width+2\depth+\flapsize}\setlength\@yJ{0.5\flapsize}

```

```

144 \setlength\@xK{2\width+2\depth+\flapsize}\setlength\@yK{\backheight-0.5\flapsize}
145 \setlength\@xL{2\width+2\depth}\setlength\@yL{\backheight}
146 \setlength\@xM{2\width+\depth}\setlength\@yM{\frontheight}
147 \setlength\@xN{\width+\depth}\setlength\@yN{\frontheight}
148 \setlength\@xO{\width}\setlength\@yO{\backheight}
149 \setlength\@xP{0cm}\setlength\@yP{\backheight}
150 % drawing
151 \begin{pgfpicture}{0cm}{\@yE}{\@xK}{\@yO}
152   % draw template outline
153   \begin{pgfscope}
154     \color{\@background}
155     \pgfmoveto{\pgfpoint\@xA\@yA}\pgflineto{\pgfpoint\@xB\@yB}
156     \pgflineto{\pgfpoint\@xD\@yC}\pgflineto{\pgfpoint\@xD\@yD}
157     \pgflineto{\pgfpoint\@xE\@yE}\pgflineto{\pgfpoint\@xF\@yF}
158     \pgflineto{\pgfpoint\@xG\@yG}\pgflineto{\pgfpoint\@xH\@yH}
159     \pgflineto{\pgfpoint\@xI\@yI}\pgflineto{\pgfpoint\@xJ\@yJ}
160     \pgflineto{\pgfpoint\@xK\@yK}\pgflineto{\pgfpoint\@xL\@yL}
161     \pgflineto{\pgfpoint\@xM\@yM}\pgflineto{\pgfpoint\@xN\@yN}
162     \pgflineto{\pgfpoint\@xO\@yO}\pgflineto{\pgfpoint\@xP\@yP}
163     \pgffillstroke
164   \end{pgfscope}
165   % draw folding lines
166   \color{black}
167   \pgfline{\pgfpoint\@xB\@yB}{\pgfpoint\@xO\@yO}
168   \pgfline{\pgfpoint\@xC\@yC}{\pgfpoint\@xN\@yN}
169   \pgfline{\pgfpoint\@xH\@yH}{\pgfpoint\@xM\@yM}
170   \pgfline{\pgfpoint\@xI\@yI}{\pgfpoint\@xL\@yL}
171   \pgfline{\pgfpoint\@xC\@yC}{\pgfpoint\@xH\@yH}
172   \pgfline{\pgfpoint\@xD\@yD}{\pgfpoint\@xG\@yG}
173   % position warning frames
174   \begin{pgfscope}
175     \fontsize{\@frontwarningfs}{\@frontwarningls}
176     \@smashbox\@xC\@yC\frontwarningsidemargin\frontwarningbottommargin\width\frontwarningheight
177     \fontsize{\@ingredientsfs}{\@ingredientls}
178     \@smashbox\@xB\@yB\ingredientssidemargin\ingredientsbottommargin\depth\ingredientsheight
179     \fontsize{\@backwarningfs}{\@backwarningls}
180     \@smashbox\@xA\@yA\backwarningsidemargin\backwarningbottommargin\width\backwarningheight
181   \end{pgfscope}
182   % position additional text
183   \fontsize{\@fronttextfs}{\@fronttextls}
184   \@smashtext\@xN\@yN\sidemargin\verticalmargin\width\@fronttext
185   \fontsize{\@backtextfs}{\@backtextls}
186   \@smashtext\@xP\@yP\sidemargin\verticalmargin\width\@backtext
187 \end{pgfpicture}
188 }
189 % internal use
190 \newlength\@tmplen
191 \newlength\@fronttextls
192 \newlength\@backtextls
193 \newlength\@fronttextfs
194 \newlength\@backtextfs
195 \newlength\@frontwarningfs
196 \newlength\@backwarningfs
197 \newlength\@ingredientsfs

```

```

198 \newlength\@frontwarningls
199 \newlength\@backwarningls
200 \newlength\@ingredientsls
201 \newlength\@xA\newlength\@yA
202 \newlength\@xB\newlength\@yB
203 \newlength\@xC\newlength\@yC
204 \newlength\@xD\newlength\@yD
205 \newlength\@xE\newlength\@yE
206 \newlength\@xF\newlength\@yF
207 \newlength\@xG\newlength\@yG
208 \newlength\@xH\newlength\@yH
209 \newlength\@xI\newlength\@yI
210 \newlength\@xJ\newlength\@yJ
211 \newlength\@xK\newlength\@yK
212 \newlength\@xL\newlength\@yL
213 \newlength\@xM\newlength\@yM
214 \newlength\@xN\newlength\@yN
215 \newlength\@xO\newlength\@yO
216 \newlength\@xP\newlength\@yP
217 \newlength\@xbl\newlength\@ybl
218 \newlength\@xtl\newlength\@ytl
219 \newlength\@xwd\newlength\@yht
220 \newlength\@wd\newlength\@ht
221 % smash a text around top-left corner (#1, #2) with margin (#3, #4)
222 % and dimensions #5x#6. Text is #7
223 \def\@smashtext#1#2#3#4#5#6#7#8{
224   \@tmplen=#3
225   \setlength\@xbl{#1+#3}\setlength\@ybl{#2+#4}
226   \setlength\@xwd{#5-2\@tmplen}
227   \pgfputat{\pgfpoint{\@xbl}{\@ybl}}{
228     \pgfbox[top,left]{\parbox[t]{\@xwd}{\vglue Opt\textfont #6}}}%
229   }%
230 }
231 % smash a frame box around bottom-left corner (#1,#2) with offset (#3,#4)
232 % and width #5. The text is #6.
233 \def\@smashbox#1#2#3#4#5#6#7#8#9{
234   % black frame
235   \color{black}
236   \@tmplen=#3
237   \setlength\@xbl{#1+#3}\setlength\@ybl{#2+#4}
238   \setlength\@xwd{#5-2\@tmplen}\setlength\@yht{#6}
239   \pgfrect[fill]{\pgfpoint\@xbl\@ybl}{\pgfpoint\@xwd\@yht}
240   % white bg in frame
241   \color{white}
242   \setlength\@xbl{\@xbl+\framewidth}\setlength\@ybl{\@ybl+\framewidth}%
243   \setlength\@xwd{\@xwd-2\framewidth}\setlength\@yht{\@yht-2\framewidth}%
244   \pgfrect[fill]{\pgfpoint\@xbl\@ybl}{\pgfpoint\@xwd\@yht}%
245   % text
246   \color{black}
247   \setlength\@xbl{\@xbl+\framesep}\setlength\@ybl{\@ybl+\framesep}%
248   \setlength\@xwd{\@xwd-2\framesep}%
249   \pgfputat{\pgfpoint{\@xbl}{\@ybl}}{
250     \pgfbox[left,bottom]{\parbox[b]{\@xwd}{\centering\warningfont #7\vglue Opt}}}%
251   }%

```

```
252 }  
253 %  
254 \newboolean{@validpack}
```