

This style is made in the process or writing the MetaFun manual. It exploits a few tricks, like graphics calculated using positional information. It also uses the (at that moment) new menu list placement alternative. If you forget about the definition of the button shapes, which is complicated in any system, this style is not even that hard to follow. Watch how the left side of the buttons follow the right side of the text graphic.

While playing bit with this style, the random alternative made me think of those organic building with non equal windows (we have a few in The Netherlands), so I decided to label this style as pre-organic.

At the end of this file, there is a small test file, so when you process this file with TEXEXEC and the options --mode=demo and --pdf, you will get a demo document.

We use one of the standard screen 'paper' sizes, and map it onto the same size, so that we get a nicely cropped page.

```
1 \setuppapersize
[S6][S6]
```

Like in the MetaFun manual, we use the Palatino as main body font. This font is quite readable on even low resolution screens, although I admit that this style is developed using an 1400×1050 pixel LCD screen, so I may be biased.

2 \startmode[asintended] \setupbodyfont[ppl] \stopmode

The layout specification sets up a text area and a right edge area where the menus will go. Watch the rather large edge distance. By setting the header and footer dimensions to zero, we automatically get rid of page body ornaments, like the pagenumber.

3 \setuplayout

```
[topspace=48pt,
backspace=48pt,
cutspace=12pt,
width=400pt,
margin=0cm,
rightedge=88pt,
rightedgedistance=48pt,
header=0cm,
footer=0cm,
height=middle]
```

We use a moderate, about a line height, interparagraph white space.

4 \setupwhitespace [big]

Of course we use colors, since on computer displays they come for free.

5 \setupcolors
 [state=start]

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Presentation Environment 19

```
7 \definecolor [PageColor] [yellow] \definecolor [TextColor] [white] \definecolor [OrnamentColor] [red] \definecolor [InteractionColor] [red] \definecolor [ContrastColor] [gray]
```

This is an interactive document, so we enable interaction. In this style, we disable the viewer's 'highlight a hyperlink when it's clicked on' feature. We will use a menu, so we enable menus. Later we will see the contract color —hyperlinks gets that color when we are already on the location— in action.

```
8 \setupinteraction
    [state=start,
    click=off,
    color=InteractionColor,
    contrastcolor=ContrastColor,
    menu=on]
```

The menu itself is set up as follows. Because we will calculate menubuttons based on their position on the page, we have to keep track of the positions. Therefore, we set the position variable to yes.

9 \setupinteractionmenu

```
[right]
[frame=off,
  position=yes,
  align=middle,
  topoffset=-.75cm,
  bottomoffset=-.75cm,
  color=gray,
  contrastcolor=gray,
  style=bold,
  before=,
  after=]
```

The menu content is rather sober: a list of topics (later we will define the command that generates topic entries), and a close button.

```
10 \startinteractionmenu[right]
    \placelist[Topic][alternative=right]
    \vfill
    \but [CloseDocument] close \\
    \stopinteractionmenu
```

We have now arived at the more interesting part of the style definition: the graphic that goes in the page background. Because this graphic will change, we define a usable METAPOST graphic. Page backgrounds are recalculated each page, opposite to the other backgrounds that are calculated when a new background is defined, or when repetitive calculation is turned on.

```
\defineoverlay
12
       [page]
       [\useMPgraphic{page}]
    \setupMPvariables
13
      [page]
      [alternative=3]
    \startuseMPgraphic{page}
      \includeMPgraphic{rightsuperbutton}
15
      StartPage ;
16
        path p, q ; pickup pencircle scaled 3pt ;
17
        p := Field[Text] [Text] enlarged 36pt superellipsed .90 ;
18
        fill Page withcolor \MPcolor{PageColor};
19
                  withcolor \MPcolor{TextColor};
        draw p
                   withcolor \MPcolor{OrnamentColor};
        p := Field[Text] [Text] enlarged 48pt superellipsed .90 ;
20
        def right_menu_button (expr nn, rr, pp, xx, yy, ww, hh, dd) =
21
          if (pp>0) and (rr>0):
            q := rightsuperbutton(p,xx,yy,RightEdgeWidth,hh) ;
            fill q withcolor \MPcolor{TextColor};
            \label{lem:draw} \mbox{draw q withcolor if } \mbox{rr=2 : $$\MPcolor{ContrastColor}$}
                                 else : \MPcolor{InteractionColor} fi ;
          fi;
        enddef ;
        \MPmenubuttons{right}
22
      StopPage ;
23
    \stopuseMPgraphic
    \startuseMPgraphic{page}
24
      \includeMPgraphic{rightsuperbutton}
25
26
      StartPage ;
        numeric alternative, seed, superness, squeezeness, randomness;
27
        path p, q ; transform t ;
        alternative := \MPvar{alternative};
28
        seed
                     := uniformdeviate 100 ;
        if alternative > 10 :
29
                     := .85 + ((\hat{-1})/\langle * .15 ;
          superness
          squeezeness := 12pt - ((\realfolio-1)/\lastpage) * 10pt ;
        else :
          superness
                      := .90 ;
          squeezeness := 12pt ;
        fi;
```

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```
randomness := squeezeness ;
30
31
        alternative := alternative mod 10 ;
        t := identity if alternative=3: shifted (9pt,-9pt) fi;
32
        % first we draw the shape that surrounds the text
        randomseed := seed ;
34
        p := Field[Text] [Text] enlarged if
35
          alternative = 1 : 36pt superellipsed superness
          alternative = 2 : 36pt squeezed
                                                squeezeness elseif
          alternative = 3 : 36pt randomized
                                                randomness else
                          : 36pt
                                                            fi;
        pickup pencircle scaled 3pt;
36
        fill Page withcolor \MPcolor{PageColor};
37
                  withcolor \MPcolor{TextColor};
        draw p
                  withcolor \MPcolor{OrnamentColor};
        % we set p to the wider shape from which we will chip off pieces
38
        randomseed := seed ;
39
40
        p := ( Field[Text] [Text] enlarged if
          alternative = 1 : 48pt superellipsed superness
                                                            elseif
          alternative = 2 : 48pt squeezed
                                                squeezeness elseif
          alternative = 3 : 36pt randomized
                                                randomness else
                          : 48pt
                                                            fi ) transformed t ;
        % calls to *_menu_button are generated automatically ...
41
42
        def right_menu_button (expr nn, rr, pp, xx, yy, ww, hh, dd) =
          if (pp>0) and (rr>0):
            q := rightsuperbutton(p,xx,yy,RightEdgeWidth,hh) ; % \MPw{menu:right:\realfolio}
            fill q withcolor \MPcolor{TextColor};
            draw q withcolor if rr=2 : \MPcolor{ContrastColor}
                                else : \MPcolor{InteractionColor} fi ;
          fi;
        enddef ;
        \% ... and inserted when the graphic data is flushed here ...
4.3
        \MPmenubuttons{right}
      StopPage ;
45
    \stopuseMPgraphic
    \startuseMPgraphic{rightsuperbutton}
46
    vardef rightsuperbutton (expr pat, xpos, ypos, wid, hei) =
```

```
save p, ptop, pbot, t, b, edge, shift, width, height;
48
      path p, ptop, pbot; pair t, b; numeric edge, shift, width, height;
      edge := xpos + wid ; shift := ypos + hei ;
49
      p := rightpath pat ;
50
      ptop := ((-infinity,shift)--(edge,shift));
51
      pbot := ((-infinity,shift-hei)--(edge,shift-hei)) ;
      t := p intersectionpoint ptop ;
      b := p intersectionpoint pbot ;
      p := subpath(0,xpart (p intersectiontimes ptop)) of p;
53
      p := subpath(xpart (p intersectiontimes pbot),length(p)) of p;
                          t -- point 1 of ptop \&
      (p --
54
            point 1 of ptop -- point 1 of pbot \&
            point 1 of pbot -- b
         -- cycle)
    enddef ;
55
    \stopuseMPgraphic
56
```

Tonics are identified with \Tonic which is a

Topics are identified with \Topic, which is an instance of chapter headings. The number is made invisible. Since it still is a numbered section header, CONTEXT will write the header to the table of contents.

57 \definehead [Topic] [chapter]

58 \setuphead [Topic] [number=no]

We will use a bold font in the table of contents. We also force a complete list.

```
59 \setuplist
    [Topic]
    [criterium=all,
        style=bold,
        before=,
        after=]
```

The \TitlePage macro looks horrible, because we want to keep the interface simple: a list of small sentences, separated by \\.

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Presentation Environment 19

```
\def\StopTitlePage
61
       \stopstandardmakeup}
    \def\TitlePage#1%
       {\StartTitlePage#1\StopTitlePage}
    A couple of goodies:
    \def\Subject {\Topic}
     \def\Topics #1{}
     \def\Subjects {}
    For those who want to test:
    \doifnotmode{demo}{\endinput}
64
    \starttext
65
    \setupMPvariables[page][alternative=3]
66
    \TitlePage
67
       {A Few Nice Quotes\\
       A Simple Style Demo\\
       Hans Hagen, August 2000}
    \Topic {Douglas R. Hofstadter} \input douglas \page
    \Topic {Donald E. Knuth} \input knuth \page \Topic {Edward R. Tufte} \input tufte \page \Topic {Hermann Zapf} \input zapf \page
69
   \stoptext
```