ConTeXt

Introduction

This code is based on the work of Thomas A. Schmitz, who created the module for different crop marks.

If a book consists of multiple sections, each section should be marked along the spine with a collating mark. This mark moves down along the spine acoording to the number of the section. After collating the book it becomes easy tho check whether the sequence of the sections is correct. One should see a "stair case" on the spine of the book as shown in the following figure.
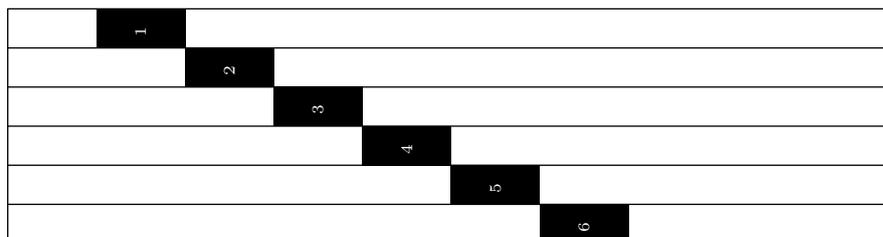
Using the module

If the collating marks should be placed, then the system should be setup with

```
\usemodule[collatingmarks][Collatingmarks=yes]
\setupCollatingmarks
   [pages=8,
    sheets=2,
    horpageshift=0mm]
```

Note that the collating marks-setup needs to know how many pages are placed on a doublesided printed sheet of paper and how many such sheets result in a section i.e. these values depend on the \setuparranging command. The shift-option is 0 mm if no horizontal page shifting is issued during imposition. If a horizontal page shifting is used, then the shift option is used to position the collating mark precisely on the spine.

Be aware that the use of collating marks in MKII causes a lot of calls to METAPOST, resulting in very long compilation times. So better use MKIV where METAPOST is included as a library. In this case the time overhead is absolutely minimal.

Vocabulary

EN: Collating mark, DE: Kollationiermarke, NL: collationeerblokje

```
1   \writestatus{loading}{Context User Module / Collating Marks}

2   \unprotect

3   \setupmodule[Collatingmarks=yes]

4   \def\MCMpages{16}
4   \def\MCMsheets{1}
4   \def\MCMshift{0mm}

5   \def\setupCollatingmarks#1[#2]%
5       {\getparameters[Collatingmarks][pages=16,sheets=1,shift=0mm,#2]}

6   \setupMPvariables
6       [Collatingmarks]
6       [pages=\MCMpages, %pages per sheet doublesided
6           sheets=\MCMsheets,% number of sheets forming one section
6           horpageshift=\MCMshift]

7   \processaction[\currentmoduleparameter{Collatingmarks}]
7         [yes=>\def\Collatingmarks{Collatingmarks},
7          no=>\def\Collatingmarks{},
7          \v!unknown=>\def\Collatingmarks{},
7          \v!default=>\def\Collatingmarks{}]

8   \startusableMPgraphic{Collatingmarks}
8   StartPage;

9   numeric offset, sectionno, pages, sheets, factor, correction, offset, pageshift;
9   path p,q;

10  pages  := \MPvar{pages};
10  sheets := \MPvar{sheets};
10  pageshift:=\MPvar{horpageshift};

11  z5colm = ulcorner Page;
11  z6colm = (x5colm, y5colm-10mm);

12  p := unitsquare xscaled 1mm yscaled 7mm;

13  if \realfolio mod 2 = 1 : % on uneven pages only
13              sectionno := \realfolio div (sheets*pages)+ 1;
13              label.lrt(textext("\switchtobodyfont[5pt]"& decimal sectionno &""),llcorner
    Page shifted (1mm,-2mm));
```

```
13          if \realfolio mod (sheets*pages) = 1 : % on the first page of a section only
13              nofmarkings := (y6colm-7mm) div 7mm;
13              offset := y6colm-sectionno*7mm;
13              if sectionno > nofmarkings :
13                  correction := sectionno div nofmarkings;
13                  offset := y6colm-(sectionno-correction*nofmarkings)*7mm;
13              fi;
13              p := p shifted (-1mm-2pageshift,offset);
13              fill p withcolor black;
13              if sectionno < 9 :
13                  label.rt(textext("\switchtobodyfont[3pt] \white "& decimal
    sectionno &""), center p shifted (-1.3mm,0));
13              else :
13                  label.rt(textext("\switchtobodyfont[3pt] \white "& decimal
    sectionno &""), center p shifted (-1.5mm,0));
13              fi;
13          fi;
13  fi;
13  \stopusableMPgraphic
```

Implementation

Collating marks are calculated and drawn by METAPOST. The result is placed into an overlay which is used as a page background

```
\defineoverlay[Collatingmarks][\useMPgraphic{Collatingmarks}]
```

14 `\defineoverlay[Collatingmarks][\useMPgraphic{Collatingmarks}]`

```
\setupbackgrounds[page][state=repeat,background={\Collatingmarks}]
```

15 `\setupbackgrounds[page][state=repeat,background={\Collatingmarks}]`

16 `\protect`
16 `\stopmodule`

17 `\doifnotmode{demo}{\endinput}`

Example

```
\usemodule[collatingmarks][Collatingmarks=yes]
\setuppapersize[A5][A2]
\setuplayout[location=middle,marking=on]
\setuppagenumbering[alternative=doublesided]
\setuparranging[2*4]

\setupCollatingmarks
        [pages=8,  % pages per sheet of paper doublesided
        sheets=1,  % sheets of paper used per section
        horpageshift=0mm] % used for correction if horizontal page-shifting is
used while imposition is active
\starttext
        \dorecurse{10}{\section{Text \recurselevel}\input tufte \par\subject{Ward}
\input ward\par}
\stoptext
```