CONTEXT

PocketDiary CONTEXT User Module

PocketDiary

Willi Egger

April 15, 2023

PocketDiary

```
1  \startmodule[pocketdiary]

2  \writestatus{loading}{ConTeXt User Module / PocketDiary}
```

PocketDiary

Introduction

It is already some time ago, that my brother Heinz asked me to prepare him a special page-arrangement scheme. This scheme is suitable to form a section with a single-sided printed sheet of paper. He wanted to use it for special kind of greeting-cards. By coincidence I detected an article by U. Ziegenhagen in de TEXnische Kommödie nr. 3/2010. This article deals with the preparation of a PocketMod, which is a personal organizer based on the mentioned arranging scheme. In the article there is also a link mentioned to an online version of the PocketMod. (http://www.pocketmod.com/). – After reading the article and visiting the web-site I got intrigued by the fact, that CONTEXT has built in arranging capabilities and due to the LUATEX engine and herewith the possibility to perform calculations in Lua it should be possible to build such a personal organizer in CONTEXT.

The result is contained in this module. I would like to thank Hans Hagen and Taco Hoekwater for the great LUATEX machinery and Wolfgang Schuster for supporting me in tackling the multilingual interface.

After the first version in 2011, we are now 11 years older, a lot has changed in and around the CONTEXT-machinery. We are now using LMTX (LUAMETATEX) the latest development.

During the CONTEXT-meeting 2021 Thomáš Hála presented his solution for generating an agenda, while the shops were closed during the Covid-19 pandemic. Discussing issues with calendars revealed, that it could be interesting to integrate into a calendar also data concerning the moon phase and possibly information on the sun rise and sun set time.

I thought, that I would like to do such calculations and give it a try. After having found information how to perform such astronomical calculations, slowly two new modules appeared. The calculations of the moon phases is quite straight forward and this can be considered the easy part of the new development. The only remark must be made, that those calculations are not super accurate. A deviation of about 1 day has to be accepted.

Finding a way to calculate the sun rise and sun set times is much more tedious. Collecting articles on such calculations and building the formulas in Lua is not the issue, but that the given information in those articles looks incomplete for a layman like me. – Finally I found a Lua-module written for an application for presenting the required data on screen (the reference to the authors is given in the Lua-file for the sun data calculations). I adapted this to Lua/CONTEXT and it looks like it works fine. – I have a Raspberry Pi Nano with a screen attached where I display weather information together with the sun data, which are fetched from the Open Weather Map (https://openweathermap.org). Due to the fact that the development of the solar data module took a long time I was able to compare the calculated results with those displayed on the Raspberry Pi screen. Happily they are completely congruent.

Without the help of Hans Hagen, this module would not have been finished. I would like to thank him for all the support and patience with my struggles!

PocketDiary

Subpaths

In order to keep the hole module clearly organized the moon phase as well as the sun rise/set calculation files are situated in separate folders. We tell CONT_EXT where to find the requested files

```
3    \usepath[{Moonphase,Solar}]
```

PocketDiary

Lua-files

All calculations for dates are performed with Lua functions. The functions are contained in `t-calendar.lua`

```
4    \ctxloadluafile{t-calendar}{}
```

The calculations for the moon phase are done by Lua functions. The functions are contained in `t-moonphase.lua` in the folder "Moonphase"

```
5    \ctxloadluafile{t-moonphase}{}
```

The calculations for the sun rise and set time are calculated in Lua too. The functions are contained in the file `t-solar.lua` in the folder "Solar"

```
6    \ctxloadluafile{t-solar}{}
```

PocketDiary

International interface

The PocketDiary is aware of different languages. The language to be used is selected with \mainlanguage[en]. The following interfaces are available

- Englisch interface
- Dutch interface
- German interface
- Italian interface
- French interface
- Spanish interface
- Polish interface

English interface

```
7    \setuplabeltext[en][calendar=Calendar]
8    \setuplabeltext[en][weekagenda=Week calendar]
9    \setuplabeltext[en][week=Week]
10   \setuplabeltext[en][month=Month]
11   \setuplabeltext[en][contact=Contact]
12   \setuplabeltext[en][name=Name]
13   \setuplabeltext[en][address=Address]
14   \setuplabeltext[en][zip=Zip]
15   \setuplabeltext[en][place=Place]
16   \setuplabeltext[en][country=Country]
17   \setuplabeltext[en][phone=Phone]
18   \setuplabeltext[en][mail=e-mail]
19   \setuplabeltext[en][notes=Notes]
20   \setuplabeltext[en][todo=Todo]
21   \setuplabeltext[en][found={If found\textcomma\ please return to:}]

22   \setuplabeltext[en][nyd={New Year's Day}]
23   \setuplabeltext[en][epi={Epiphany}]
24   \setuplabeltext[en][ashw={Ash Wednesday}]
25   \setuplabeltext[en][palms={Palm Sunday} ]
26   \setuplabeltext[en][gfri={Good Friday} ]
27   \setuplabeltext[en][esun={Easter Sunday}]
28   \setuplabeltext[en][esmo={Easter Monday}]
29   \setuplabeltext[en][ascd={Ascension Day}]
30   \setuplabeltext[en][pcst=Pentecost]
31   \setuplabeltext[en][pcstmo={Pentecost Monday}]
32   \setuplabeltext[en][xmas=Christmas]
33   \setuplabeltext[en][bxd={Boxing Day}]
34   \setuplabeltext[en][day=Day]
35   \setuplabeltext[en][mon=Mon]
36   \setuplabeltext[en][tue=Tue]
37   \setuplabeltext[en][wed=Wed]
38   \setuplabeltext[en][thu=Thu]
39   \setuplabeltext[en][fri=Fri]
40   \setuplabeltext[en][sat=Sat]
41   \setuplabeltext[en][sun=Sun]
```

PocketDiary

```
42  \setuplabeltext[en][january=January]
43  \setuplabeltext[en][february=February]
44  \setuplabeltext[en][march=March]
45  \setuplabeltext[en][april=April]
46  \setuplabeltext[en][may=May]
47  \setuplabeltext[en][june=June]
48  \setuplabeltext[en][july=July]
49  \setuplabeltext[en][august=August]
50  \setuplabeltext[en][september=September]
51  \setuplabeltext[en][october=October]
52  \setuplabeltext[en][november=November]
53  \setuplabeltext[en][december=December]

54  \setuplabeltext[en][moondays=Lunar days]
55  \setuplabeltext[en][moon=Moon]
56  \setuplabeltext[en][sunrise=Sunrise]
57  \setuplabeltext[en][sunset=Sunset]
58  \setuplabeltext[en][lighthours=Lighthours]
59  \setuplabeltext[en][sunstar=Sun]
```

German interface

```
60  \setuplabeltext[de][calendar=Planer] % Terminkalender, Kalender
61  \setuplabeltext[de][weekagenda=Wochenagenda]
62  \setuplabeltext[de][week=Woche]
63  \setuplabeltext[de][month=Monat]
64  \setuplabeltext[de][contact=Kontakt]
65  \setuplabeltext[de][name=Name]
66  \setuplabeltext[de][address=Adresse]
67  \setuplabeltext[de][zip=Postleitzahl]
68  \setuplabeltext[de][place=Ort]
69  \setuplabeltext[de][country=Land]
70  \setuplabeltext[de][phone=Telefon]
71  \setuplabeltext[de][mail=e-Mail]
72  \setuplabeltext[de][notes=Notizen]
73  \setuplabeltext[de][todo={Zu erledigen}]
74  \setuplabeltext[de][found={Wenn gefunden\textcomma\ bitte retournieren an:}]

75  \setuplabeltext[de][nyd=Neujahr]
76  \setuplabeltext[de][epi=Dreikönigstag]
77  \setuplabeltext[de][ashw=Aschermittwoch]
78  \setuplabeltext[de][palms=Palmsonntag]
79  \setuplabeltext[de][gfri=Karfreitag]
80  \setuplabeltext[de][esun=Ostern]
81  \setuplabeltext[de][esmo=Ostermontag]
82  \setuplabeltext[de][ascd=Himmelfahrt]
83  \setuplabeltext[de][pcst=Pfingsten]
84  \setuplabeltext[de][pcstmo=Pfingstmontag]
85  \setuplabeltext[de][xmas=Weihnachten]
86  \setuplabeltext[de][bxd=Stephanstag]
87  \setuplabeltext[de][day=Tag]
88  \setuplabeltext[de][mon=Mo]
```

```
89   \setuplabeltext[de][tue=Di]
90   \setuplabeltext[de][wed=Mi]
91   \setuplabeltext[de][thu=Do]
92   \setuplabeltext[de][fri=Fr]
93   \setuplabeltext[de][sat=Sa]
94   \setuplabeltext[de][sun=So]

95   \setuplabeltext[de][january=Januar]
96   \setuplabeltext[de][february=Februar]
97   \setuplabeltext[de][march=März]
98   \setuplabeltext[de][april=April]
99   \setuplabeltext[de][may=Mai]
100  \setuplabeltext[de][june=Juni]
101  \setuplabeltext[de][july=Juli]
102  \setuplabeltext[de][august=August]
103  \setuplabeltext[de][september=September]
104  \setuplabeltext[de][october=Oktober]
105  \setuplabeltext[de][november=November]
106  \setuplabeltext[de][december=Dezember]

107  \setuplabeltext[de][moondays=Mondtage]
108  \setuplabeltext[de][moon=Mond]
109  \setuplabeltext[de][sunrise=Sonnenaufgang]
110  \setuplabeltext[de][sunset=Sonnenuntergang]
111  \setuplabeltext[de][lighthours=Taglichtstunden]
112  \setuplabeltext[de][sunstar=Sonne]
```

Dutch interface

```
113  \setuplabeltext[nl][calendar=Kalender]
114  \setuplabeltext[nl][weekagenda=Weekagenda]
115  \setuplabeltext[nl][week=Week]
116  \setuplabeltext[nl][month=Maand]
117  \setuplabeltext[nl][contact=Kontakt]
118  \setuplabeltext[nl][name=Naam]
119  \setuplabeltext[nl][address=Adres]
120  \setuplabeltext[nl][zip=Postcode]
121  \setuplabeltext[nl][place=Plaats]
122  \setuplabeltext[nl][country=Land]
123  \setuplabeltext[nl][phone=Tel.]
124  \setuplabeltext[nl][mail=e-mail]
125  \setuplabeltext[nl][notes=Notities]
126  \setuplabeltext[nl][todo=Todo]
127  \setuplabeltext[nl][found={Wanneer gevonden\textcomma\ aub sturen naar:}]

128  \setuplabeltext[nl][nyd={Nieuw jaar}]
129  \setuplabeltext[nl][epi=Driekoningen]
130  \setuplabeltext[nl][ashw=Aswoensdag]
131  \setuplabeltext[nl][palms=Palmpasen]
132  \setuplabeltext[nl][gfri={Goede vrijdag}]
133  \setuplabeltext[nl][esun=Pasen]
134  \setuplabeltext[nl][esmo={2\high{de} Paasdag}]
```

PocketDiary

```
135  \setuplabeltext[nl][ascd=Hemelvaart]
136  \setuplabeltext[nl][pcst=Pinksteren]
137  \setuplabeltext[nl][pcstmo={2\high{de} Pinksterdag}]
138  \setuplabeltext[nl][xmas=Kerst]
139  \setuplabeltext[nl][bxd={2\high{de} Kerstdag}]
140  \setuplabeltext[nl][day=Dag]
141  \setuplabeltext[nl][mon=Ma]
142  \setuplabeltext[nl][tue=Di]
143  \setuplabeltext[nl][wed=Woe]
144  \setuplabeltext[nl][thu=Do]
145  \setuplabeltext[nl][fri=Fr]
146  \setuplabeltext[nl][sat=Za]
147  \setuplabeltext[nl][sun=Zo]

148  \setuplabeltext[nl][january=Januari]
149  \setuplabeltext[nl][february=Febrari]
150  \setuplabeltext[nl][march=Maart]
151  \setuplabeltext[nl][april=April]
152  \setuplabeltext[nl][may=Mei]
153  \setuplabeltext[nl][june=Juni]
154  \setuplabeltext[nl][july=Juli]
155  \setuplabeltext[nl][august=Augustus]
156  \setuplabeltext[nl][september=September]
157  \setuplabeltext[nl][october=October]
158  \setuplabeltext[nl][november=November]
159  \setuplabeltext[nl][december=December]

160  \setuplabeltext[nl][moondays=Maandagen]
161  \setuplabeltext[nl][moon=Maan]
162  \setuplabeltext[nl][sunrise=Zonsopg.]
163  \setuplabeltext[nl][sunset=Zonsonderg.]
164  \setuplabeltext[nl][lighthours=Lichturen]
165  \setuplabeltext[nl][sunstar=Zon]
```

French interface

```
166  \setuplabeltext[fr][calendar=Calendrier]
167  \setuplabeltext[fr][weekagenda={Cal. de la semaine}]
168  \setuplabeltext[fr][week=Sem.]
169  \setuplabeltext[fr][month=Mois]
170  \setuplabeltext[fr][contact=Contact]
171  \setuplabeltext[fr][name=Nom]
172  \setuplabeltext[fr][address=Adresse]
173  \setuplabeltext[fr][zip=CP]
174  \setuplabeltext[fr][place=Lieu]
175  \setuplabeltext[fr][country=Pays]
176  \setuplabeltext[fr][phone=Tél.]
177  \setuplabeltext[fr][mail=e-mail]
178  \setuplabeltext[fr][notes=Observations]
179  \setuplabeltext[fr][todo=Tâches]
180  \setuplabeltext[fr][found={Si trouvé\textcomma\ retourner s.v.p. à: }]
```

```
181   \setuplabeltext[fr][nyd={Jour de l'an}]
182   \setuplabeltext[fr][epi={Épiphany}]
183   \setuplabeltext[fr][ashw={Mercredi des Cendres}]
184   \setuplabeltext[fr][palms={Dimanche des Rameaux}]
185   \setuplabeltext[fr][gfri={Vendredi saint}]
186   \setuplabeltext[fr][esun={Pâques}]
187   \setuplabeltext[fr][esmo={Lundi de Pâques}]
188   \setuplabeltext[fr][ascd={Jour de l'ascension}]
189   \setuplabeltext[fr][pcst=Pentecôte]
190   \setuplabeltext[fr][pcstmo={Lundi de Pentecôte}]
191   \setuplabeltext[fr][xmas=Noël]
192   \setuplabeltext[fr][bxd=]
193   \setuplabeltext[fr][day=Jour]
194   \setuplabeltext[fr][mon=Lun]
195   \setuplabeltext[fr][tue=Mar]
196   \setuplabeltext[fr][wed=Mer]
197   \setuplabeltext[fr][thu=Jeu]
198   \setuplabeltext[fr][fri=Ven]
199   \setuplabeltext[fr][sat=Sam]
200   \setuplabeltext[fr][sun=Dim]

201   \setuplabeltext[fr][january=Janvier]
202   \setuplabeltext[fr][february=Février]
203   \setuplabeltext[fr][march=Mars]
204   \setuplabeltext[fr][april=Avril]
205   \setuplabeltext[fr][may=Mai]
206   \setuplabeltext[fr][june=Juin]
207   \setuplabeltext[fr][july=Juillet]
208   \setuplabeltext[fr][august=Août]
209   \setuplabeltext[fr][september=Septembre]
210   \setuplabeltext[fr][october=Octobre]
211   \setuplabeltext[fr][november=Novembre]
212   \setuplabeltext[fr][december=Décembre]

213   \setuplabeltext[fr][moondays=Jours lun.] % jours lunaires
214   \setuplabeltext[fr][moon=Lune]
215   \setuplabeltext[fr][sunrise=Lever du s.]  %soleil
216   \setuplabeltext[fr][sunset=Coucher du s.] %soleil
217   \setuplabeltext[fr][lighthours=Heures de l.] %lumière
218   \setuplabeltext[fr][sunstar=Soleil]

219   \setuplabeltext[it][calendar=Calendario]
220   \setuplabeltext[it][weekagenda=Calendario di settimana]
221   \setuplabeltext[it][week=Sett.] %Settimana
222   \setuplabeltext[it][month=Mese]
223   \setuplabeltext[it][contact=Contatto]
224   \setuplabeltext[it][name=Nome]
225   \setuplabeltext[it][address=Indirizzo]
226   \setuplabeltext[it][zip=C.A.P.]
227   \setuplabeltext[it][place=Luogo]
228   \setuplabeltext[it][country=Paese]
```

PocketDiary

```
229  \setuplabeltext[it][phone=Tel.]
230  \setuplabeltext[it][mail=e-mail]
231  \setuplabeltext[it][notes=Osservazioni]
232  \setuplabeltext[it][todo=Compiti]
233  \setuplabeltext[it][found={Se trovato\textcomma\ prego speditelo à:}]
```

Italian interface

```
234  \setuplabeltext[it][nyd=Capodanno]
235  \setuplabeltext[it][epi={Epifania}]
236  \setuplabeltext[it][ashw={Giorno delle Ceneri}]
237  \setuplabeltext[it][palms={Domenica delle Palme}]
238  \setuplabeltext[it][gfri={Venerdi santo}]
239  \setuplabeltext[it][esun=Pasqua]
240  \setuplabeltext[it][esmo={Lunedì dell'Angelo}]
241  \setuplabeltext[it][ascd=Ascensione]
242  \setuplabeltext[it][pcst=Pentecoste]
243  \setuplabeltext[it][pcstmo={Lunedì di Pentecoste}]
244  \setuplabeltext[it][xmas=Natale]
245  \setuplabeltext[it][bxd={Giorno di S. Stefano}]
246  \setuplabeltext[it][day=Giorno]
247  \setuplabeltext[it][mon=Lun]
248  \setuplabeltext[it][tue=Mar]
249  \setuplabeltext[it][wed=Mer]
250  \setuplabeltext[it][thu=Gio]
251  \setuplabeltext[it][fri=Ven]
252  \setuplabeltext[it][sat=Sab]
253  \setuplabeltext[it][sun=Dom]

254  \setuplabeltext[it][january=Gennaio]
255  \setuplabeltext[it][february=Febbraio]
256  \setuplabeltext[it][march=Marzo]
257  \setuplabeltext[it][april=Aprile]
258  \setuplabeltext[it][may=Maggio]
259  \setuplabeltext[it][june=Giugno]
260  \setuplabeltext[it][july=Luglio]
261  \setuplabeltext[it][august=Agosto]
262  \setuplabeltext[it][september=Settembre]
263  \setuplabeltext[it][october=Ottobre]
264  \setuplabeltext[it][november=Novembre]
265  \setuplabeltext[it][december=Dicembre]

266  \setuplabeltext[it][moondays=Giorni lun.] %Giorni lunari
267  \setuplabeltext[it][moon=Luna]
268  \setuplabeltext[it][sunrise=Albo]
269  \setuplabeltext[it][sunset=Tramonto]
270  \setuplabeltext[it][lighthours={O. di luce}] %Ore di luce
271  \setuplabeltext[it][sunstar=Sole]
```

Spanish interface

```
272  \setuplabeltext[es][calendar=Agenda]
```

```
273  \setuplabeltext[es][weekagenda=Agenda semanal]
274  \setuplabeltext[es][week=Sem.] %Semana
275  \setuplabeltext[es][month=Mes]
276  \setuplabeltext[es][contact=Contacto]
277  \setuplabeltext[es][name=Nombre]
278  \setuplabeltext[es][address=Dirección]
279  \setuplabeltext[es][zip=C.P.]
280  \setuplabeltext[es][place=Población]
281  \setuplabeltext[es][country=País]
282  \setuplabeltext[es][phone=Tel.]
283  \setuplabeltext[es][mail=Correo-e]
284  \setuplabeltext[es][notes=Observaciones]
285  \setuplabeltext[es][todo=Pendiente]
286  \setuplabeltext[es][found={Por favor\textcomma\ devuélvalo a:}]

287  \setuplabeltext[es][nyd=Año Nuevo]
288  \setuplabeltext[es][epi={Reyes Magos}]
289  \setuplabeltext[es][ashw={Miércoles de Ceniza}]
290  \setuplabeltext[es][palms={Domingo de Palmas}]
291  \setuplabeltext[es][gfri={Viernes santo}]
292  \setuplabeltext[es][esun=Domingo de Pascua]
293  \setuplabeltext[es][esmo={Lunes de Pascua}]
294  \setuplabeltext[es][ascd=Ascensión]
295  \setuplabeltext[es][pcst=Pentecostes]
296  \setuplabeltext[es][pcstmo={Lunes de Pentecostes}]
297  \setuplabeltext[es][xmas=Navidad]
298  \setuplabeltext[es][bxd={San Esteban}]
299  \setuplabeltext[es][day=Día]
300  \setuplabeltext[es][mon=Lu]
301  \setuplabeltext[es][tue=Ma]
302  \setuplabeltext[es][wed=Mi]
303  \setuplabeltext[es][thu=Ju]
304  \setuplabeltext[es][fri=Vi]
305  \setuplabeltext[es][sat=Sá]
306  \setuplabeltext[es][sun=Do]

307  \setuplabeltext[es][january=Enero]
308  \setuplabeltext[es][february=Febrero]
309  \setuplabeltext[es][march=Marzo]
310  \setuplabeltext[es][april=Abril]
311  \setuplabeltext[es][may=Mayo]
312  \setuplabeltext[es][june=Junio]
313  \setuplabeltext[es][july=Julio]
314  \setuplabeltext[es][august=Agosto]
315  \setuplabeltext[es][september=Septiembre]
316  \setuplabeltext[es][october=Octubre]
317  \setuplabeltext[es][november=Noviembre]
318  \setuplabeltext[es][december=Diciembre]

319  \setuplabeltext[es][moondays=Días lunares]
320  \setuplabeltext[es][moon=Luna]
```

PocketDiary

```
321   \setuplabeltext[es][sunrise=Alba]
322   \setuplabeltext[es][sunset=Ocaso]
323   \setuplabeltext[es][lighthours={Horas de luz}]
324   \setuplabeltext[es][sunstar=Sol]
```

Polish interface

```
325   \setuplabeltext[pl][calendar=Kalendarz]
326   \setuplabeltext[pl][weekagenda={Kalendarz tygodniowy}]
327   \setuplabeltext[pl][week=Tydzień]
328   \setuplabeltext[pl][month=Miesiąc]
329   \setuplabeltext[pl][contact=Kontakt]
330   \setuplabeltext[pl][name=Nazwisko]
331   \setuplabeltext[pl][address=Adres]
332   \setuplabeltext[pl][zip=Kod pocztowy]
333   \setuplabeltext[pl][place=Miejsce zamieszkania]
334   \setuplabeltext[pl][country=Kraj]
335   \setuplabeltext[pl][phone=Telefon]
336   \setuplabeltext[pl][mail=e-mail]
337   \setuplabeltext[pl][notes=Notatki]
338   \setuplabeltext[pl][todo=Do zrobienia]
339   \setuplabeltext[pl][found={W przypadku znalezienia proszę o odesłanie na adres}]

340   \setuplabeltext[pl][nyd={Nowy Rok}]
341   \setuplabeltext[pl][epi={Trzech Króli}]
342   \setuplabeltext[pl][ashw={Środa Popielcowa}]
343   \setuplabeltext[pl][palms={Niedziela Palmowa} ]
344   \setuplabeltext[pl][gfri={Wielki Piątek} ]
345   \setuplabeltext[pl][esun={Niedziela Wielkanocna}]
346   \setuplabeltext[pl][esmo={Pn. Wielkanocny}]
347   \setuplabeltext[pl][ascd={Wniebowstąpienie}]
348   \setuplabeltext[pl][pcst={Zesłanie Ducha Świętego}]
349   \setuplabeltext[pl][pcstmo={}]
350   \setuplabeltext[pl][xmas=Święta] %Święta Bożego Narodzenia .
351   \setuplabeltext[pl][bxd={Drugi dzień świąt}]
352   \setuplabeltext[pl][day=Dzień]
353   \setuplabeltext[pl][mon=Pn.]
354   \setuplabeltext[pl][tue=Wt.]
355   \setuplabeltext[pl][wed=Śr.]
356   \setuplabeltext[pl][thu=Czw.]
357   \setuplabeltext[pl][fri=Pt.]
358   \setuplabeltext[pl][sat=Sob.]
359   \setuplabeltext[pl][sun=Ndz.]

360   \setuplabeltext[pl][january=Styczeń]
361   \setuplabeltext[pl][february=Luty]
362   \setuplabeltext[pl][march=Marzec]
363   \setuplabeltext[pl][april=Kwiecień]
364   \setuplabeltext[pl][may=Maj]
365   \setuplabeltext[pl][june=Czerwiec]
366   \setuplabeltext[pl][july=Lipiec]
367   \setuplabeltext[pl][august=Sierpień]
```

```
368  \setuplabeltext[pl][september=Wrzesień]
369  \setuplabeltext[pl][october=Październik]
370  \setuplabeltext[pl][november=Listopad]
371  \setuplabeltext[pl][december=Grudzień]

372  \setuplabeltext[pl][moondays=Dzień lunarny]
373  \setuplabeltext[pl][moon=Księżyc]
374  \setuplabeltext[pl][sunrise={Wschód słońca}]
375  \setuplabeltext[pl][sunset={Zachód słońca}]
376  \setuplabeltext[pl][lighthours=Długość dnia]
377  \setuplabeltext[pl][sunstar=Słońce]
```

PocketDiary

PocketDiary layout

This module uses different page templates, whereof one uses a symbol out of the set 2 of the Martin Vogel collection. So we load these symbols:

```
378  \usesymbols[mvs]
379  \setupsymbolset[martinvogel 2]
```

The placement of the page numbers is switched off for the moment.

```
380  \setuppagenumbering[location=]
```

Because we will place 8 pages on an A4 landscape, we define our own pagesize

```
381  \definepapersize[Arrangingformat][width=7.42cm, height=10.5cm]
382  \setuppapersize[Arrangingformat][A4,landscape]
```

In the templates a light gray color for (grid)lines is used. Separator lines can have an individual color too. We define the two colors with arbitrary values. These preset colors can be adjusted in the user file `PocketDiary.tex`.

```
383  \definecolor[Grid][s=.75]
384  \definecolor[Separatorline][blue]
```

The page of the PocketDiary has a fairly simple layout. We use a header- and a footer-space. The header has a rule beneath and the footer one on top.

The preset body-font is Pagella at 10pt

We will also use tabular figures throughout the typesetting:

```
385  \setuplayout
386    [topspace=.6cm,
387      backspace=.6cm,
388      header=3\bodyfontsize,
389      headerdistance=.5\bodyfontsize,
390      footer=1.2\bodyfontsize,
391      footerdistance=.5\bodyfontsize,
392      margin=0pt,
393      height=middle,
394      width=middle]

395  \setupbackgrounds
396      [header]
397      [text]
398      [state=repeat,
399       frame=off,
400       bottomframe=on,
401       framecolor=\getvariable{PocketDiaryColors}{Separatorline}]
402
403  \setupbackgrounds
404      [footer]
405      [text]
406      [state=repeat,
```

PocketDiary

```
407          frame=off,
408          topframe=on,
409          framecolor=\getvariable{PocketDiaryColors}{Separatorline}]

410   \setupbodyfont[pagella,rm,10pt]
411   \definefontfeature[f:tabular]  [tnum=yes]
412   \definefontfeature[f:smallcaps][smcp=yes]

413   \addfeature[f:tabular]
```

METAFUN drawings

There are three templates which are made up in METAPOST. The drawings are used as backgrounds to the typesetting area in the form of an overlay. So the drawings adapt themselves to the actual dimensions

```
414  \startuniqueMPgraphic{Caro}
415    numeric w; w:= floor(OverlayWidth/4mm);
416    numeric h; h:= floor((OverlayHeight)/4mm);
417    path p,q;
418    p := unitsquare xscaled (4mm*w) yscaled (4mm*h);
419    q:= ulcorner p -- llcorner p;
420    for i = 0 upto w :
421      draw q shifted (i*4mm,0) withpen pencircle scaled .5pt
422        withcolor \MPcolor{Grid};
423    endfor;
424    q:= llcorner p -- lrcorner p;
425    for i = 0 upto h :
426      draw q  shifted (0,i*4mm) withpen pencircle scaled .5pt
427        withcolor \MPcolor{Grid};
428    endfor;
429  \stopuniqueMPgraphic

430  \startuniqueMPgraphic{Lines}
431    numeric w; w:= OverlaytWidth;
432    numeric h; h:= floor(OverlayHeight/7mm);
433    path p,q;
434    p := unitsquare xscaled OverlayWidth yscaled (7mm*(h-1));
435    q:= llcorner p -- lrcorner p;
436    for i = 1 upto (h-1) :
437      draw q  shifted (0,i*7mm) withpen pencircle scaled .5pt
438         withcolor \MPcolor{Grid};
439    endfor;
440  \stopuniqueMPgraphic

441  \startuniqueMPgraphic{Todo}
442    numeric w; w:= OverlayWidth;
443    numeric h; h:= floor(OverlayHeight/8mm);
444    path p,q;
445    p := unitsquare xscaled OverlayWidth yscaled OverlayHeight;
446    q:= llcorner p -- lrcorner p;
447    for i = 0 upto h :
448      draw q shifted (0,i*7mm)  withpen pencircle scaled .5pt
449        withcolor \MPcolor{Grid};
450      label.top(textext("\tfd \symbol[HollowBox]"), point 0 of q
451        shifted (2mm,i*7mm));
452    endfor;
453  \stopuniqueMPgraphic
```

PocketDiary

The moon phase

The moon phase calculation from SubsySTEMs, an American education institute, for this module is based on a simple calculation. The consequence is, that the results give a good idea only of the moon phase but this is most probably precise enough for the purpose of the diary. The return value of the moon phase calculation can be either a number, representing the day number in the lunar month, or a command to put a METAFUN-graphic (New moon, growing moon, full moon, waning moon). These little graphics are stored in the file `moons-MP.tex`.

454 **\input** moons-MP

In this file 4 overlays are defined which are used in a dedicated \framed[]{} to typeset the pictograms.

Moon phase	Lunar day	Macro	Pictogram
New moon	0	\Moon[background=newmoon]{}	
Growing moon	7	\Moon[background=growingmoon]{}	
Full moon	15	\Moon[background=fullmoon]{}	
Waning moon	22	\Moon[background=waningmoon]{}	

PocketDiary

Sun pictograms

The calculations for the sun rise and sun set times is based on work of Alexander Yakushev. The results of his calculations nicely correspond with results obtained from the Open Weather Map website.

For sunrise, sunset and light hours exist three METAFUN drawings. These are included in the directory `Solar` in the file `sun-MP.tex`.

455 **\input** sun-MP

In this file 3 overlays are defined which can then be used as a background in a dedicated framed environment.

Sun	Macro	Pictogram
Sunrise	\SunA[background=Sunrise,height=8pt]{\strut }	
Sunset	\SunA[background=Sunset,height=8pt]{\strut }	
Light hours	\SunB[background=Light,height=8pt]{\strut }	

PocketDiary

The variable sets

The module uses six sets of variables. The first set contains the information on the calendars to be calculated.

First of all it has to be stated, that the whole idea behind this module is to prepare a personal organizer with as few parameters as possible. After the initial setup of the variables it is sufficient to adapt the values in the first set and once every year the information on the dates of the Day Light Saving Time in the last set must be adjusted.

Variable set PocketDiary

Variable	Value	Comment
WeekDay	number	Values between 1 and 7.
Week	number	Values between 1 and 53
Month	number	Values between 1 and 12
Year	number	Year numbers in the range 1900 and 4099. The lower limit is computer dependent (OS-timestamp), the upper limit is depending on the Easter Sunday calculation. (http://www.assa.org.au/edm.html, R.W. Mallen, 1985).
Nextyear	yes/no	The testing is done on 'yes'. If set to 'yes' the next year instead of the current year is used for the calculation of the year calendar.
Daybyday	yes/no	The testing is done on 'yes'. If this variable is set to 'yes' then a diary is typeset with 1 page per day and the weekend is typeset with Saturday and Sunday on one page. This uses 6 pages and we can freely choose what should be typeset on the pages 7 and 8.

```
456   \setvariables
457     [PocketDiary]
458     [WeekDay=1,
459      Week=17,
460      Month=5,
461      Year=2011,
462      Nextyear=no,
463      Daybyday=no]
```

Variable set PocketDiaryLayout

The PocketDiary can be given a layout according to your own ideas. There are 8 variables (Page1 up to Page 8) which can be given different values.

Variable	Comment
Dayplan	The weekday indicated in the variable 'WeekDay' in the previous section is used to make a PocketDiary page.
Weekendplan	The weekend of the chosen week (variable 'Week') is typeset on a single page
Weekcurrentplan	A week calendar based on the variable 'Week' in the previous section is used for the presentation of a week table.
Weeknextplan	A week calendar based on the variable 'Week' + 1 in the previous section is used for the presentation of the nexts week's table.
Monthcurrentplan	A month table based on the value in the variable 'Month' in the previous section is typeset.

Monthnextplan	A month table of the next month based on the value in the variable 'Month' of the previous section is typeset.
Yearcurrentplan	A complete year calendar of the year given in the variable 'Year' in the previous section is typeset.
Yearnextplan	If the 'Nextyear' variable in the previous section is 'yes', then a complete year calendar for the next year indicated in the variable 'Year' of the previous section is typeset.
Lost-Returnto	A page with the indicated information in the PocketDiaryAddress variable set is used to compose and typeset a lost and return page (see next section).
Blank	This page carries a header and a footer but is empty for the rest.
Todo	A todo-list template is typeset.
Caro	A page with full-grid-paper is typeset.
Lines	A page with grid lines is typeset.
Contact	A form with two sets of preprinted fields for marking down contact information is typeset.

A basic setup could look as follows:

```
464  \setvariables
465    [PocketDiaryLayout]
466    [Page1=Lost-Returnto,
467     Page2=Weekplan,
468     Page3=Dayplan,
469     Page4=Monthcurrentplan,
470     Page5=Blank,
471     Page6=Lines,
472     Page7=Caro,
473     Page8=Contact]
```

Variable set PocketDiaryAddress

The third section of variables contains information used for the footer and the lost-return form.

```
474  \setvariables
475    [PocketDiaryAddress]
476    [Familyname=Egger,
477     Forename=Willi,
478     Street={Townstreet 3B},
479     Zipcode=5000,
480     City={New Beach},
481     Country=TEX-world,
482     Phone={+22 444 55 88 66},
483     Mobile={+22 6 19 19 1717},
484     E-mail={info at pocketdiary.org},
485     Web=www.pocketdiary.org]
```

Variable set PocketDiaryColors

The PocketDiary uses some color. The header and footer separator lines can be given a color. Standard color is blue.

For those who want gridlines other than light gray can set a color for the gridlines too.

```
486  \setvariables
487    [PocketDiaryColors]
488    [Separatorline=blue,
489     Gridline={s=.55}]
```

Variable set PocketDiaryFooter

The footer is filled with three fields. These fields may contain the contents of variables or TEX commands. The setup of the footer is done with a buffer in order to be able to call it later on.

PocketDiary

Footer setup

```
490  \setvariables
491    [PocketDiaryFooter]
492    [Lefttext=PocketDiary,
493     Centertext=\pagenumber,
494     Righttext={\getvariable{PocketDiaryAddress}{Forename},~\currentdate[year]}]
495       %{\currentdate[year]}

496  \startbuffer[Footertext]
497    \setupfootertexts[%
498      \tfx
499      \getvariable{PocketDiaryFooter}{Lefttext}
500      \hfill
501      \getvariable{PocketDiaryFooter}{Centertext}
502      \hfill
503      \getvariable{PocketDiaryFooter}{Righttext}]
504  \stopbuffer

505  \getbuffer[Footertext]
```

PocketDiary

Variable set PocketDiaryGeoPosition

For the sun data calculations you need to know the latitude and longitude of your location.

For correct calculations you need also to pass the timezone offset to Lua.

The dates for the begin and end of the day light saving time (DST) are calculated based on the continent information. Possible values are 'EU' and 'US'. If the field is empty, then no DST is calculated.

For the US (except for Arizona and Hawaii) currently the DST starts on the second Sunday of March and ends on the first Sunday of November.

for Europe currently the DST starts on the last Sunday of March and ends on the last Sunday of October.

Sun data are typeset on the 'Dayplan' and 'Weekendplan' as well as on Tuesdays in the week-calendar.

```
506  \setvariables %Koziegłowy
507    [PocketDiaryGeoPosition]
508    [lat=52.467860,
509     lon=16.981240,
510     timeoffset=1,
511     continent=EU]
```

PocketDiary

The various calendar pages

Most of the activities for creating the contents and layout of the different pages like day, week-end, week, month and year calendars is delegated to Lua. Those pages are made-up as CON-TEXT-Lua-documents (cld). We preload the Lua -file with

```
512  \ctxloadluafile{t-pocketdiary}{}
```
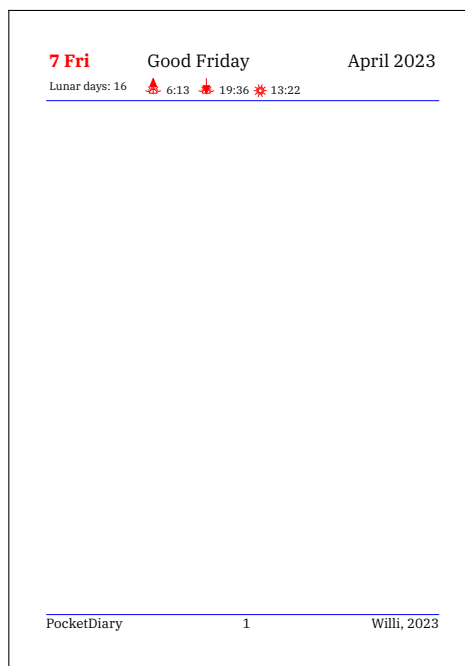
Day plan

Figure 1 Example Day-calendar

The day calendar looks as in figure 1.

Next to the day number of the selected month the day name is given. If the day is a christian feast day, its name is following after the day name. To the right the week number and the year is typeset.

The configuration of the page looks as follows:

```
513  \startsetups table:topinfo
514    \setupTABLE[each][each][frame=off]
515    \setupTABLE[r][1][offset=0pt,loffset=1pt,roffset=1pt,align=lohi]  % Date row
516    \setupTABLE[r][2][height=1.3\bodyfontsize,frame=off,offset=0pt] % Astronomy row
517    \setupTABLE[c][1][style=bold,width=0.25\textwidth] % Day
518    \setupTABLE[c][2][width=0.35\textwidth,align=lohi] % Feastname column
519    \setupTABLE[c][3][width=0.4\textwidth,
520                      align={flushright,lohi}] % Month / year column
521  \stopsetups

522  \startsetups table:topweekplan
523    \setupTABLE[each][each][frame=off]
```

```
524    \setupTABLE[r][1][offset=0pt,loffset=3pt,roffset=3pt,align=lohi]  % Date row
525    \setupTABLE[c][1][style=bold,width=0.5\textwidth,align=lohi] % Name
526    \setupTABLE[c][2][style={\switchtobodyfont[6pt]},width=0.5\textwidth,
527                       align={flushright,lohi}] % Week, year
528  \stopsetups
```

For the creation of the page a command with 8 parameters is defined:

```
529  \define[8]\Dayplan{\ctxlua{thirddata.diary.dayplan(#1,#2,#3,#4,#5,#6,#7,#8)}}
```

The Dayplan-command with the collected parameters is placed in a buffer. This buffer is later called from the user-file PocketDiary.tex .

```
530  \startbuffer[Dayplan]
531    \Dayplan %Weekday,Week,Month,Year,lat,lon,timeoffset,continent
532        {\getvariable{PocketDiary}{WeekDay}}
533        {\getvariable{PocketDiary}{Week}}
534        {\getvariable{PocketDiary}{Month}}
535        {\getvariable{PocketDiary}{Year}}
536        {\getvariable{PocketDiaryGeoPosition}{lat}}
537        {\getvariable{PocketDiaryGeoPosition}{lon}}
538        {\getvariable{PocketDiaryGeoPosition}{timeoffset}}
539        {"\getvariable{PocketDiaryGeoPosition}{continent}"}
540  \stopbuffer
```

Weekend

The weekend calendar shows Saturday and Sunday on one page (see figure 2).

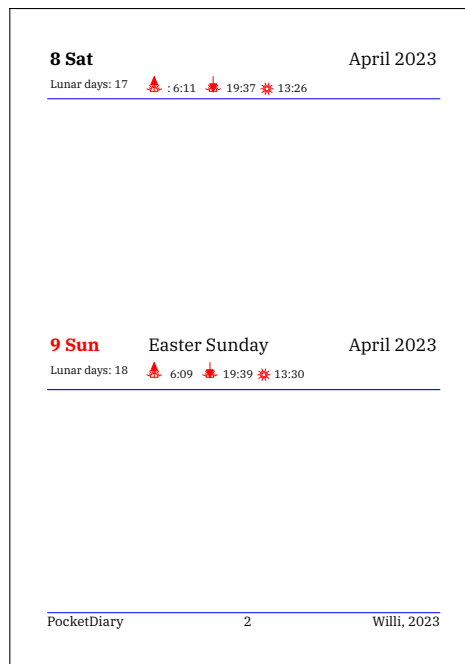The typeset data are identical to those of the 'Dayplan'

Figure 2 Example
Weekend-calendar

Comparable to the Dayplan the Weekendplan command is defined with 8 parameters.

```
541  \define[8]\Weekendplan{\ctxlua{thirddata.diary.weekendplan(#1,#2,#3,#4,#5,#6,#7,#
542    8)}}
```

Again this command with the collected information of the 8 parameters is placed in a buffer which is called then from the user-file `PocketDiary.tex` .

```
543  \startbuffer[Weekendplan]
544    \Weekendplan %Weekday,Week,Month,Year,lat,lon,timeoffset,continent
545      {6}
546      {\getvariable{PocketDiary}{Week}}
547      {\getvariable{PocketDiary}{Month}}
548      {\getvariable{PocketDiary}{Year}}
549      {\getvariable{PocketDiaryGeoPosition}{lat}}
550      {\getvariable{PocketDiaryGeoPosition}{lon}}
551      {\getvariable{PocketDiaryGeoPosition}{timeoffset}}
552      {"\getvariable{PocketDiaryGeoPosition}{continent}"}
553  \stopbuffer
```

Week plan and next week plan

The week calendar is a one-column table for working days. Saturday and Sunday are placed next to each other in the last table row. An example is given in figure 3.

In the 'Weekplan' header appears 'Weeek agenda' or its correspondent name in the supported languages. To the right the month's number, weeknumber and year are typeset.

Figure 3   Example Week-calendar

By means of a setups-sequence the table is defined as follows:

```
554  \startsetups table:week
```

```
555    \setupTABLE[r][each][height=.158\textheight,align=flushleft] %.165
556    \setupTABLE[r][even][background=color,backgroundcolor=.5s]
557    \setupTABLE[c][1][width=.5\textwidth]
558    \setupTABLE[c][2][width=.5\textwidth]
559  \stopsetups
```

Again the Weekcurrentplan-command is defined with 8 parameters

```
560  \define[8]\Weekcurrentplan{\ctxlua{thirddata.diary.weekplan(#1,#2,#3,#4,#5,#6,#7,
561    #8)}}
```

And the command together with the gathered parameters is stored in a buffer, which will be used by the user-file PocketDiary.tex .

```
562  \startbuffer[Weekcurrentplan]
563    \Weekcurrentplan %Weekday,Week,Month,Year,lat,lon,timeoffset,continent
564      {1}
565      {\getvariable{PocketDiary}{Week}}
566      {\getvariable{PocketDiary}{Month}}
567      {\getvariable{PocketDiary}{Year}}
568      {\getvariable{PocketDiaryGeoPosition}{lat}}
569      {\getvariable{PocketDiaryGeoPosition}{lon}}
570      {\getvariable{PocketDiaryGeoPosition}{timeoffset}}
571      {"\getvariable{PocketDiaryGeoPosition}{continent}"}
572    \page[yes]
573  \stopbuffer
```

Similar to the week plan the next week plan is built.

```
574  \define[8]\Weeknextplan{\ctxlua{thirddata.diary.weekplan(#1,#2,#3,#4,#5,#6,#7,#8)
575    }}
```

```
576  \startbuffer[Weeknextplan]
577    \Weeknextplan %Weekday,Week,Month,Year,lat,lon,timeoffset,dst_start,dst_stop
578      {1}
579      {\directlua{tex.print{\getvariable{PocketDiary}{Week}+1}}}
580      {\getvariable{PocketDiary}{Month}}
581      {\getvariable{PocketDiary}{Year}}
582      {\getvariable{PocketDiaryGeoPosition}{lat}}
583      {\getvariable{PocketDiaryGeoPosition}{lon}}
584      {\getvariable{PocketDiaryGeoPosition}{timeoffset}}
585      {"\getvariable{PocketDiaryGeoPosition}{continent}"}
586    \page[yes]
587  \stopbuffer
```

Month current and month next

The month calendar looks as in figure 4.

Left in the header appears the month name in the chosen language. To the right the year is typeset.

Figure 4 Example Month-calendar

In the same fashion as the previous items also the month and next month calendars are defined respectively setup:

```
588  \startsetups table:month
589    \setupTABLE[column][each][width=.143\textwidth,align=flushright,offset=3pt]
590    \setupTABLE[column][7][style=\red]
591  \stopsetups
```

For the Month-calendars we need only two parameters: month and year.

```
592  \define[2]\Monthcurrentplan{\ctxlua{thirddata.diary.monthcurrentplan(#1,#2)}}
```

The command is kept together with the gathered parameters in a buffer again. This will be called from the user-file PocketDiary.tex .

```
593  \startbuffer[Monthcurrentplan]
594    \Monthcurrentplan
595      {\getvariable{PocketDiary}{Month}}
596      {\getvariable{PocketDiary}{Year}}
597  \stopbuffer
```

```
598  \define[2]\Monthnextplan{\ctxlua{thirddata.diary.monthnextplan(#1,#2)}}
```

```
599  \startbuffer[Monthnextplan]
600    \Monthnextplan
601      {\getvariable{PocketDiary}{Month}}
602      {\getvariable{PocketDiary}{Year}}
603  \stopbuffer
```

Year current and year next

The year calendar looks as in figure 5.

PocketDiary

In the header the year only is typeset.

Figure 5   Example Year-calendar

The year table(s) are prepared as the week tables with a table-setup sequence, a custom command which resides with the parameters assigned in a buffer, which will again be called from the user-file `PocketDiary.tex`.

```
604   \startsetups table:year
605     \setupTABLE[column]
606              [each]
607              [width=.032\textwidth,align=flushright,offset=1pt,frame=off]
608     \setupTABLE[column][1][width=.052\textwidth,align=flushleft]
609     \setupTABLE[row][each][offset=1pt,height=1.5\bodyfontsize]
610   \stopsetups

611   \define[2]\Yearcurrentplan{\ctxlua{thirddata.diary.yearplan(#1,#2)}}
612   \define[2]\Yearnextplan{\ctxlua{thirddata.diary.yearplan(#1,#2)}}

613   \startbuffer[Yearcurrentplan]
614     \Yearcurrentplan
615       {\getvariable{PocketDiary}{Year}}
616       {"no"}
617   \stopbuffer

618   \startbuffer[Yearnextplan]
619     \Yearnextplan
620       {\getvariable{PocketDiary}{Year}}
621       {"\getvariable{PocketDiary}{Nextyear}"}
622   \stopbuffer
```

One week...

As mentioned before, the result will be 5 pages with one working day per page and the weekend on one page i.e. 6 pages. For the pages 7 and 8 the values defined in the 'PocketDiaryLayout' variable set is used. As for the Dayplan we need a command carrying 8 parameters:

```
623  \define[8]\Daybyday{\ctxlua{thirddata.diary.daybydayplan(#1,#2,#3,#4,#5,#6,#7,#8)
624    }}
```

A buffer contains the command just defined with the gathered information for the parameters. The buffer then is called from the user-file PocketDiary.tex .

```
625  \startbuffer[Daybyday]
626    \Daybyday
627      {1} %Weekday
628      {\getvariable{PocketDiary}{Week}}
629      {\getvariable{PocketDiary}{Month}}
630      {\getvariable{PocketDiary}{Year}}
631      {\getvariable{PocketDiaryGeoPosition}{lat}}
632      {\getvariable{PocketDiaryGeoPosition}{lon}}
633      {\getvariable{PocketDiaryGeoPosition}{timeoffset}}
634      {"\getvariable{PocketDiaryGeoPosition}{continent}"}
635  \stopbuffer
```

Templates

The PocketDiary comes with a couple of templates for writing down information:

For the pages with (grid)lines we use an overlay in the background of the text area which will contain the METAPOST-graphic.

The setups for the Contacts page look as follows:

```
636  \startsetups table:contacts
637    \setupTABLE[r][each][frame=off,bottomframe=on,height=2\lineheight]
638    \setupTABLE[c][1][width=.3\textwidth]
639    \setupTABLE[c][2][width=.5\textwidth]
640    \setupTABLE[c][3][width=.2\textwidth]
641  \stopsetups
```

The setups for the Lost-Returnto page is setup in the following way:

```
642  \startsetups table:returnto
643    \setupTABLE[r][each][frame=off]
644    \setupTABLE[c][each][width=\textwidth]
645  \stopsetups
```

Another setups covers the reset of the used Background

```
646  \startsetups Background:stop
647    \defineoverlay
648      [Textarea]
649      [\resetMPdrawing]
```
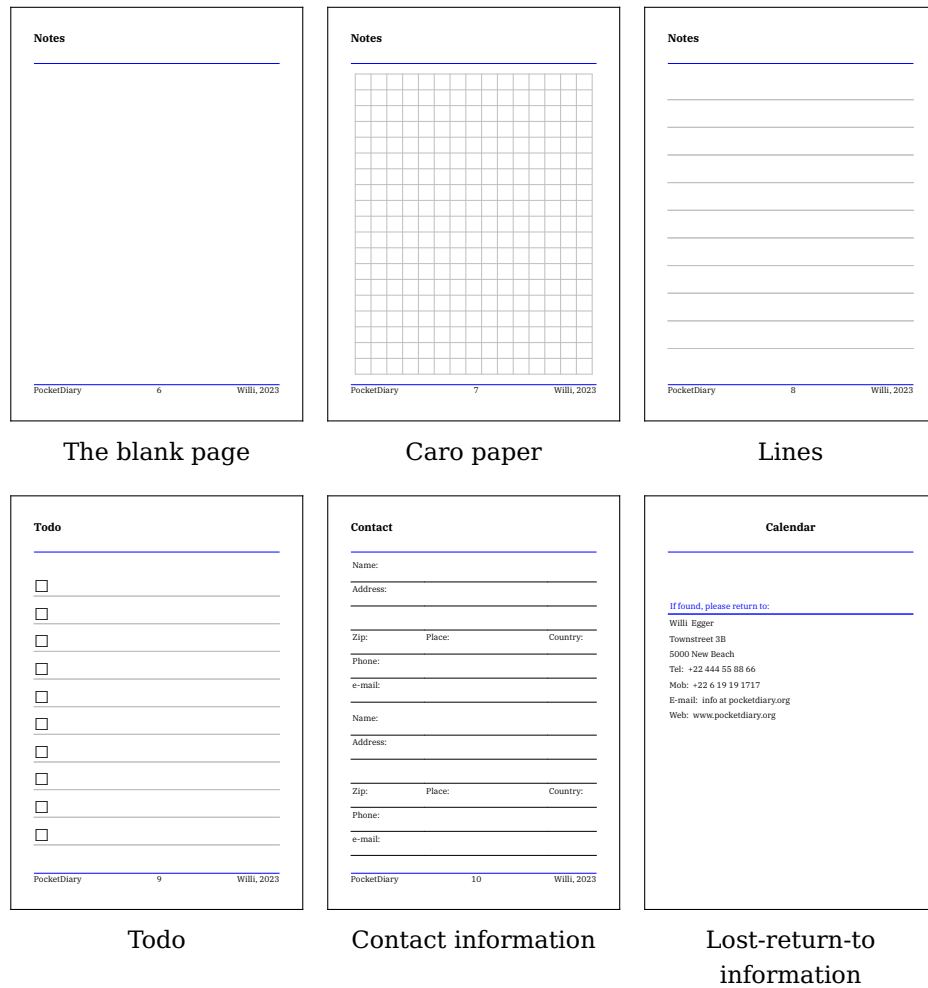
PocketDiary

The blank page	Caro paper	Lines
Todo	Contact information	Lost-return-to information

Figure 6 The set of available templates

```
650    \setupbackgrounds[text][text][background=]
651  \stopsetups
```

All templates for these pages are contained in buffers in order to call them from the user-file
PocketDiary.tex

```
652  \startbuffer[Contact]
653    \setupheadertexts[{\bf \labeltext{contact}\hfill}]
654    \switchtobodyfont[6pt]
655  \dorecurse{2}{\bTABLE[setups=table:contacts]
656    \bTR
657      \bTD \labeltext{name}: \eTD
658      \bTD \eTD
659      \bTD \eTD
660    \eTR
661    \bTR
662      \bTD \labeltext{address}:\eTD
663      \bTD \eTD
664      \bTD \eTD
665    \eTR
666    \bTR
```

```
667        \bTD \strut\eTD
668          \bTD \eTD
669          \bTD \eTD
670        \eTR
671        \bTR
672          \bTD \labeltext{zip}:\eTD
673          \bTD \labeltext{place}:\eTD
674          \bTD \labeltext{country}:\eTD
675        \eTR
676        \bTR
677          \bTD \labeltext{phone}:\eTD
678          \bTD \eTD
679          \bTD \eTD
680        \eTR
681        \bTR
682          \bTD \labeltext{mail}:\eTD
683          \bTD \eTD
684          \bTD \eTD
685        \eTR
686      \eTABLE
687      \blank}
688      \page[yes]
689    \stopbuffer

690    \startbuffer[Caro]
691      \setupheadertexts[{\bf \labeltext{notes}\hfill}]
692      \defineoverlay
693        [Textarea]
694        [\useMPgraphic{Caro}]
695      \setupbackgrounds[text][background=Textarea]
696      \strut
697      \page[yes]
698      \setups{Background:stop}
699    \stopbuffer

700    \startbuffer[Lines]
701      \setupheadertexts[{\bf \labeltext{notes}\hfill}]
702      \defineoverlay
703        [Textarea]
704        [\useMPgraphic{Lines}]
705      \setupbackgrounds[text][text][background=Textarea]
706      \strut
707      \page[yes]
708      \setups{Background:stop}
709    \stopbuffer

710    \startbuffer[Todo]
711      \defineoverlay
712        [Textarea]
713        [\useMPgraphic{Todo}]
714      \setupbackgrounds[text][text][background=Textarea]
```

```
715    \setupheadertexts[\bf \labeltext{todo}\hfill]
716    \strut
717    \page[yes]
718    \setups{Background:stop}
719  \stopbuffer

720  \startbuffer[Blank]
721    \setupheadertexts[{\bf \labeltext{notes}\hfill}]
722    \strut
723        \page[yes]
724  \stopbuffer

725  \startbuffer[Lost-Returnto]
726    \strut
727    \setupheadertexts[{\bf \labeltext{calendar}}]
728    \setupfooter[state=empty]
729    \setupbackgrounds[footer][text][topframe=off]
730    \setups{Background:stop}
731    \strut
732    \blank[2*line]
733    \framed[width=\textwidth,
734           frame=off,
735           bottomframe=on,
736           align=flushleft,
737           rulethickness=1pt,
738           foregroundcolor=\getvariable{PocketDiaryColors}{Separatorline},
739           framecolor=\getvariable{PocketDiaryColors}{Separatorline}]
740           {\labeltext{found}}
741    \bTABLE[setups=table:returnto]
742      \bTR
743        \bTD \getvariable{PocketDiaryAddress}{Forename}~
744            \getvariable{PocketDiaryAddress}{Familyname} \eTD
745      \eTR
746      \bTR
747        \bTD \getvariable{PocketDiaryAddress}{Street} \eTD
748      \eTR
749      \bTR
750        \bTD \getvariable{PocketDiaryAddress}{Zipcode}
751           {\addff{f:smallcaps}\getvariable{PocketDiaryAddress}{City}}\eTD
752      \eTR
753      \bTR
754        \bTD Tel: \getvariable{PocketDiaryAddress}{Phone}\eTD
755      \eTR
756      \bTR
757        \bTD Mob: \getvariable{PocketDiaryAddress}{Mobile}\eTD
758      \eTR
759      \bTR
760        \bTD E-mail: \getvariable{PocketDiaryAddress}{E-mail} \eTD
761      \eTR
762      \bTR
763        \bTD Web: \getvariable{PocketDiaryAddress}{Web} \eTD
```

```
764        \eTR
765      \eTABLE
766      \page[yes]
767      \getbuffer[Footertext]
768      \setupbackgrounds[footer][text][topframe=on]
769    \stopbuffer
```

PocketDiary

The setup of the PocketDiary

When filling the 8 pages we can do two things. Either we let CONT_EXT typeset the pages as we choose them in the section 'PocketDiaryLayout' or we set the variable 'Daybyday' in the variable set 'PocketDiary' to 'yes'. This leads to the typesetting of 5 pages with each a working day and the weekend on one page. The remaining two pages are typeset according to the values given in 'PocketDiaryLayout.'

```
770  \startbuffer[Pocketdiary]
771    \definecolor[Grid][\getvariable{PocketDiaryColors}{Gridline}]
772    \definecolor[Separatorline][\getvariable{PocketDiaryColors}{Separatorline}]

773    \doifelse{\getvariable{PocketDiary}{Daybyday}}{yes}
774      {\Daybyday %creates 6 pages
775          {1}
776          {\getvariable{PocketDiary}{Week}}
777          {\getvariable{PocketDiary}{Month}}
778          {\getvariable{PocketDiary}{Year}}
779          {\getvariable{PocketDiaryGeoPosition}{lat}}
780          {\getvariable{PocketDiaryGeoPosition}{lon}}
781          {\getvariable{PocketDiaryGeoPosition}{timeoffset}}
782          {"\getvariable{PocketDiaryGeoPosition}{continent}"}
783       \getbuffer[\getvariable{PocketDiaryLayout}{Page7}]
784       \getbuffer[\getvariable{PocketDiaryLayout}{Page8}]
785      }
786      {\getbuffer[\getvariable{PocketDiaryLayout}{Page1}]
787       \getbuffer[\getvariable{PocketDiaryLayout}{Page2}]
788       \getbuffer[\getvariable{PocketDiaryLayout}{Page3}]
789       \getbuffer[\getvariable{PocketDiaryLayout}{Page4}]
790       \getbuffer[\getvariable{PocketDiaryLayout}{Page5}]
791       \getbuffer[\getvariable{PocketDiaryLayout}{Page6}]
792       \getbuffer[\getvariable{PocketDiaryLayout}{Page7}]
793       \getbuffer[\getvariable{PocketDiaryLayout}{Page8}]
794      }
795  \stopbuffer
```

PocketDiary

Arranging the pages

For the arrangement of the 8 pages on the paper we need a special arranging scheme, which is included in the distribution. Invoking the scheme is performed with

```
\setuparranging[1*8]
```

The arrangement of the 8 pages is not switched on in this file. For the purpose of experimenting it is better to keep this command in the user file \type{PocketDiary.tex}

PocketDiary

51pocketdiary   PocketDiary CONT$_E$XT User Module   CONT$_E$XT

How to fold the PocketDiary

The eight printed pages are folded in such a way, that the PocketDiary presents itself as a small booklet. There are no empty pages visible.
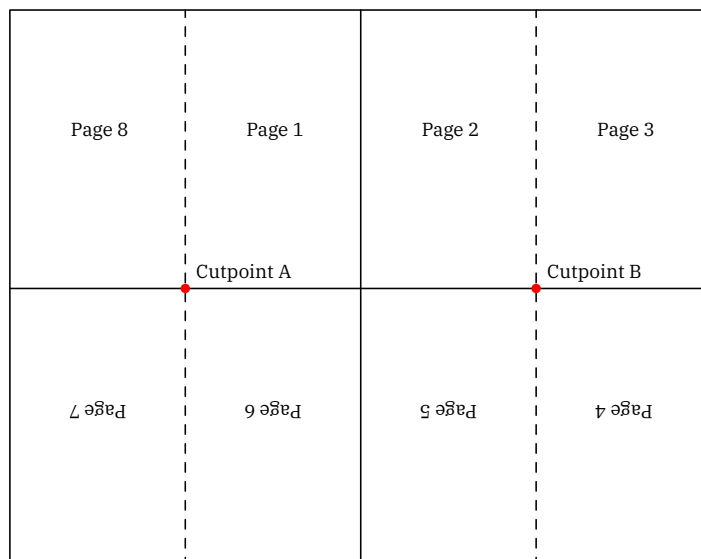

Figure 7 The basic folding scheme

First make two mountain-folds as indicated with the straight lines in figure 7. Unfold the paper and turn it face up and 90° to the left. Make a valley-fold with the lower part of the sheet on the previously made mountain-fold. Unfold and turn the sheet 180°. Make another valley-fold as described before. Unfold the sheet.

Take a sharp knife and a ruler. Slit the paper open between Cuttingpoint A and B (see figure 7).

Now we can fold the booklet. First fold the paper again in the length. Then hold the double folded paper with the mountain-fold up. Push from both sides towards the center in order to get a form similar to figure 8. Fold then the upper double-page in direction B, the lower double-page in direction C and finally the lefthand double-sided page in direction D.

Before creasing the booklet at the spine it is worthwhile to put the section on table and adjust folds where needed. Finally the spine is creased with preference with a bone-folder.
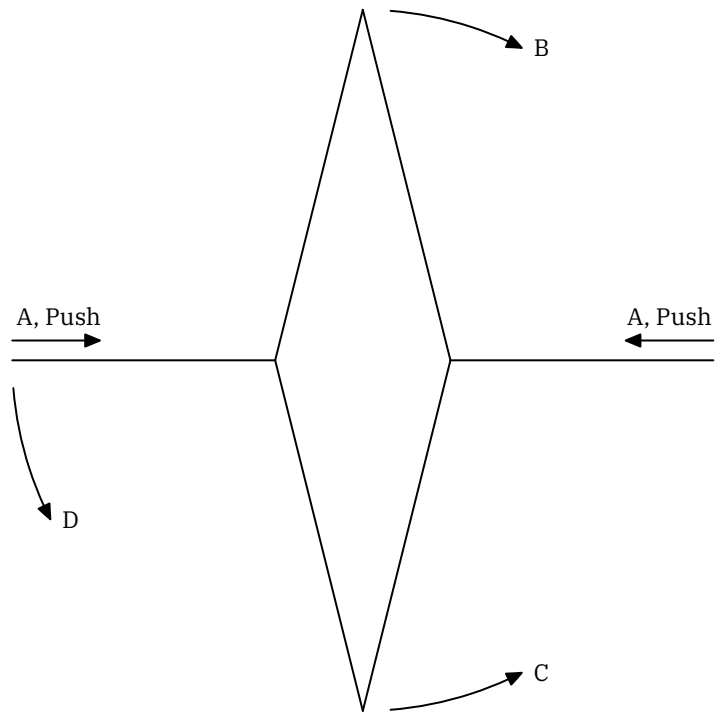
796   **\stopmodule**

PocketDiary

Figure 8   The basic folding scheme