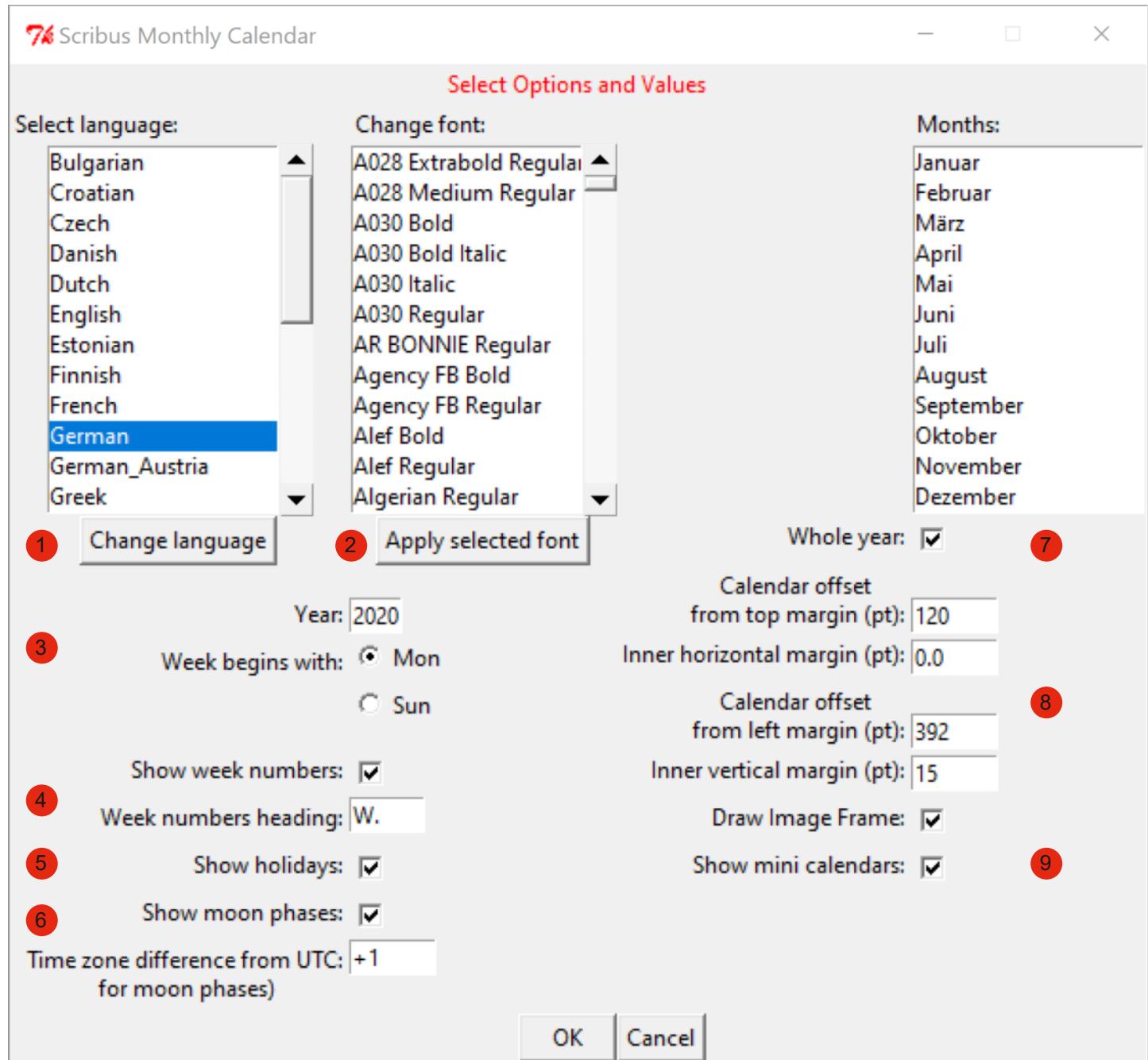


# Monthly Calendar script

This Scribus script generates a classic monthly calendar with following options:



- 1) You can choose between more than 20 languages (default is English). You may add, change or delete languages in the localization list in the script. Please respect the Python syntax.
- 2) You can choose your default calendar font from the list of fonts available on your system. Please check if all special characters for your language are available in the chosen font! You can change fonts of many items afterwards in the Styles menu (Edit - Styles).
- 3) Calendar year and week starting day are to be given. Saturdays and Sundays will be printed in dark grey (many colors can be changed afterwards with Edit - Colors and Fills).
- 4) Option to show week numbers with (or without) a week numbers heading in your local language. Calendar week numbers will be printed in dark grey.

- 5) Option to import holidays and special days from a 'holidays.txt' file for your country. Automatic calculation of the holiday dates each calendar year. See next page and also the sample files for the layout of the entries. Official holidays will be printed in red.
- 6) Option to import a 'moonphases.txt' file in order to draw the moon phase symbols on the calendar. See page 4 for more details.
- 7) Select one or more months or the whole year.
- 8) You have the possibility to determine where on the page the calendar month will be drawn with the offsets from top and / or left margin. Option to draw an empty image frame within the top and / or left 'offset' area and to get an 'inner' margin between this frame and the calendar grid.
- 9) Option to draw mini calendars for previous and next months in the calendar month heading.
- 10) You can hide the separate layers for grid, moons, holiday texts and images. Use of different styles for month title, weekday names, week numbers, moon phases, holiday texts, mini calendars and dates which can be changed individually. Automatic change to abbreviated weekday names if cells are too small. Many build-in controls.

This is the result of the settings in the menu on the previous page (note: picture and logo were inserted manually in the empty image frames afterwards):



# Scribus

Open Source Desktop Publishing



APRIL 2020						
	Mo	Di	Mi	Do	Fr	Sa
W.	14		● 1	2	3	4
	15	6	7	8	9	10
	16	13	● 14	15	16	17
	17	20	21	22	● 23	24
	18	27	28	29	● 30	

MÄRZ						
	Mo	Di	Mi	Do	Fr	Sa
	2	3	4	5	6	7
	9	10	11	12	13	14
	16	17	18	19	20	21
	23	24	25	26	27	28
	30	31				

MAI						
	Mo	Di	Mi	Do	Fr	Sa
	4	5	6	7	8	9
	11	12	13	14	15	16
	18	19	20	21	22	23
	25	26	27	28	29	30
	31					

2

# The holidays.txt file

You can enter holidays (or other special days) in an 'holidays.txt'-file with one of the following formats:

1) Fixed dates: These are entered as follows:

```
fixed,1,1,,New Year's Day,1  
fixed,10,28,,Mom's birthday,0  
fixed,12,25,,Christmas Day,1
```

The line starts with 'fixed', followed by a month figure and a day figure, an empty position, a text and the figure 1 or 0 (all separated by comma's). The date will be printed in red if the ending figure is '1' and in black if it is '0'. Here you can put special days texts like birthdays to be printed.

2) nth weekday of month: the holiday will be assigned to the nth occurrence of a certain weekday in the given month:

```
nWDOM,1,0,3,Martin Luther King Jr. Day,1  
nWDOM,5,0,0,Memorial Day,1  
nWDOM,11,3,4,Thanksgiving Day,1
```

Here the line begins with 'nWDOM', followed by the month figure and a weekday number (Monday=0, Tuesday=1, etc..). The next position represents the nth occurrence of this day in the given month (take 0 for the last). Then we put the holiday text and the color code.

3) Variable holidays (referring to Easter):

```
variable,easter,-2,,Good Friday,1  
variable,easter,0,,Easter Sunday,0  
variable,easter,50,,Whit Monday,1  
variable,easterO,0,,Orthodox Easter Sunday,0
```

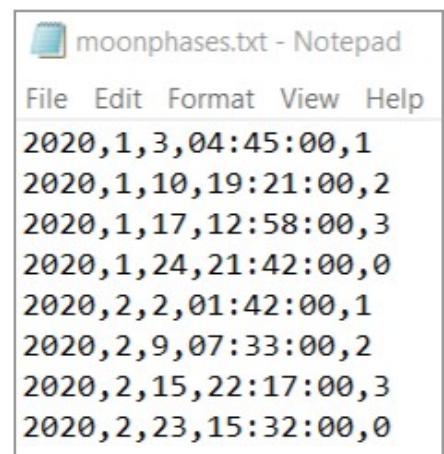
'variable' followed by the calculation base 'easter' (or 'easterO' for Orthodox Easter calculation), the number of days from Easter, an empty position, a text with the holiday description and the figure 1 or 0 for the color.

Note: If your holidays do not follow one of the above calculation methods, you have to give them in as 'fixed' and make an 'holidays.txt' file for each calendar year.

# The moonphases.txt file

As it is too complex to program the moon phase dates in this script, we use a text file instead. Each line of text in this file contains the year, the month, the day, the time and a digit from 0 to 3 for determining the New Moon, First Quarter, Full Moon and Last Quarter (all data separated by comma's, no spaces).

As the time of the moon phases has to be given for UTC±00:00, which corresponds with the time zone of Greenwich Mean Time, you have to add or subtract the difference with your time zone in the menu (please note that this script does not consider Daylight Saving Time, so in some cases when your local moon phase is around midnight this can result in the previous or next date).



moonphases.txt - Notepad

File Edit Format View Help

2020,1,3,04:45:00,1
2020,1,10,19:21:00,2
2020,1,17,12:58:00,3
2020,1,24,21:42:00,0
2020,2,2,01:42:00,1
2020,2,9,07:33:00,2
2020,2,15,22:17:00,3
2020,2,23,15:32:00,0

The data included in the 'moonphases.txt' file are taken from 'Moon Phases Table' courtesy of Fred Espenak, [www.Astropixels.com](http://www.Astropixels.com) for the years 2020-2025.

If you want your calendar to display the moon phases, there are not many fonts who can display these characters. I suggest to use the 'Symbola Regular' font (to download at <https://fontlibrary.org/en/font/symbola> - license: free for any use). Or for Windows you can use 'Segoe UI Symbol Regular' or the 'Yu Gothic'-family and for Linux the 'DejaVu' or the 'Noto'-families.

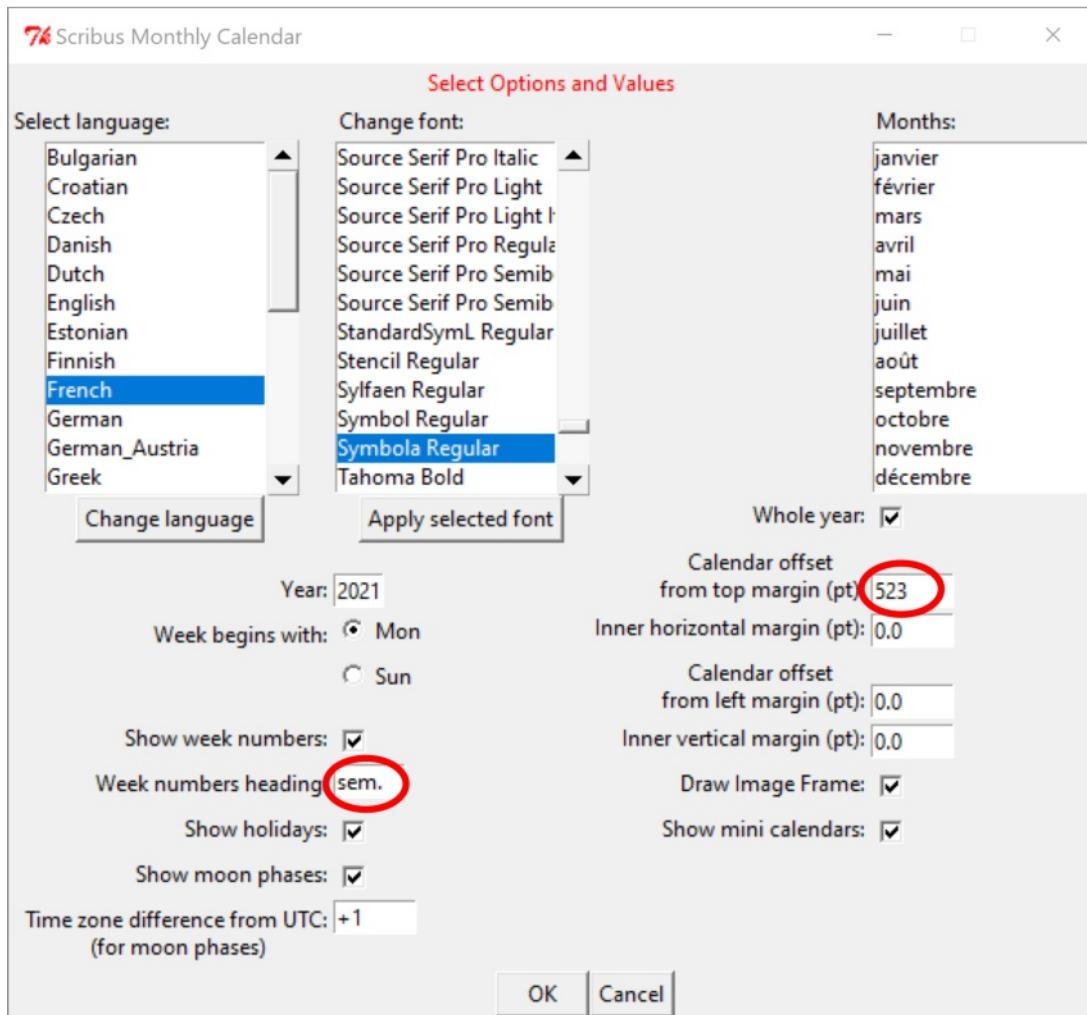
## Some tips and troubleshooting

- 1) Be patient, generating a year calendar can take several minutes! (See progress on the status bar on the bottom right corner and wait until 100% has disappeared).
- 2) Change layer to 'Images' in order to add your pictures. You can copy your 'Logo' image to the master page to repeat it automatic on each month page. You can convert an image frame to a text frame if needed.
- 3) Choose your favourite font in the script menu and change the font in the character style 'char\_style\_Moons' afterwards in one of the above mentioned to display the moon phases symbols. Do not forget each cell is individually editable.
- 4) If colors do not show correctly: Menu 'Edit' -> 'Colors and Fills': set color set to 'Scribus small'.
- 5) In case you know a little bit of Python you can uncomment some options in the script (these are indicated as such).
- 6) Close the 'Outline' window (and other windows too) before running this script if Scribus 'hangs' or terminates unexpected.
- 7) Restart Scribus and generate only one month with no options checked to see if this works.
- 8) Final option: do a clean install of Scribus.

# Example: French A3 wall calendar

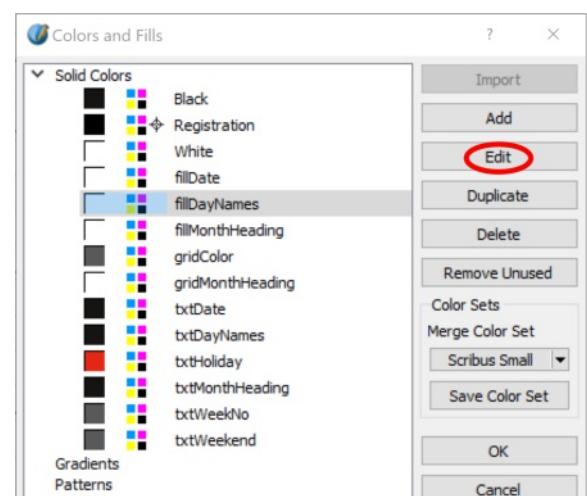
1) Generate a monthly calendar with following options (see figure below):

- Language = French.
- Font = Symbola Regular.
- Week numbers heading = 'sem.' (abbreviation for "semaine" = week).
- Calendar offset from top margin (pt) = 523 (We will use an A3 page with all margins set to 10mm, this means we have a picture width of  $297 - 10 - 10 = 277$ mm or 785pt. Assuming a picture format of 3:2, picture height is  $785 / 3 * 2 = 523$ pt).



2) Make following changes to the generated calendar:

- Change the fillDayNames and txtMonthHeading color to CMYK 100%-0%-23%-64%.
- Change the gridColor and txtDayNames color to CMYK 0%-0%-0%-0%.
- Change the fillDate color to CMYK 0%-9%-17%-0%.



3) To show the possibilities of this script we will change some Styles:

- Character Style 'char\_style\_Month' (for month name): change font to Open Sans Bold.
- Line Style 'grid\_Line\_Style': change line width to 0.5mm.

4) Switch to layer "Images" and get your images in their frames.

5) Save the calendar and export to PDF for printing (see below).



MAI 2021

sem.	lundi	mardi	mercredi	jeudi	vendredi	samedi	dimanche
17						1 <small>Fête du Travail</small>	2
18	● 3	4	5	6	7	8 <small>Victoire 1945</small>	9
19	10	● 11	12	13 <small>Jeudi de l'Ascension</small>	14	15	16
20	17	18	● 19	20	21	22	23 <small>Pentecôte</small>
21	24 <small>Lundi de Pentecôte</small>	25	○ 26	27	28	29	30
22	31						

Style Manager

**Name**

**Paragraph Styles**

Default Paragraph Style  
 par\_style\_Date  
 par\_style\_DayNames  
 par\_style\_Holidays  
 par\_style\_Mini  
**char\_style\_Month**  
 par\_style\_Moons  
 par\_style\_WeekNo

**Character Styles**

Default Character Style  
**char\_style\_Month**  
 char\_style\_DayNames  
 char\_style\_WeekNo  
 char\_style\_Moons  
 char\_style\_Holidays  
 char\_style\_Date  
 char\_style\_Mini

**Table Styles**

Default Table Style

**Cell Styles**

Default Cell Style

**Line Styles**

grid\_Line\_Style  
 grid\_Month\_Heading\_Style

New
Clone

Import
Delete

Edit >>