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/* Calendar macro for FinalWriter (SoftWood)
Written by Andrew McCardie
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January 31st, 1995
$VER: FW Calendar Macro v1.1 for FW3
```

Because of changes in measurement of text blocks in FW3, this macro will probably not work under previous versions of FW.

This macro can create three different types of calendars: Portrait, double-portrait, and landscape. It supports all years that are supported by the Amiga's internal calendar (1978 ->)

Portrait produces a standard 8.5x11 page with a single calendar. Double portrait produces a standard 8.5x11 page with two calendars. Landscape produces a standard 11x8.5 page with a single calendar.

While it should handle leap-years, this feature has not been exhaustively tested. The fonts and margins are designed to be user-customizeable. Certain default values (in inches) have been hardcoded into the variables 'top\_margin', 'bottom\_margin', and 'side\_margin' to produce the largest calendars on my DeskJet. You can change these if you need a smaller calendar or if the calendars print incorrectly on your setup.

If you change the default fonts, you may have to experiment with their sizes and widths to get an appropriate look.

If you find any bugs, let me know and I'll try to rectify them.

Disclaimer: I take no responsibility for problems that may result from using  
this macro.

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*/
```

```
OPTIONS RESULTS
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```
ADDRESS "FINALW.1"
```

```
ClearDoc FORCE
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```
View 25 /* Speeds things up slightly on fast machines, probably more on  
slower machines.
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*/
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```
SetMeasure MicroPoints
```

```
BoxPrefs LINEWT 2 LINECOLOR Black FILL Solid FILLCOLOR Cyan TEXTFLOW None
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```
TextBlockPrefs TEXTFLOW None
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```
micropoints_per_inch = 720
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```

ShowMessage 1 0 "What type of calendar?" "" "" "Portrait" "Double-
Portrait" "Landscape"
calendar_type = RESULT

Select

    /* Portrait calendar */
    When calendar_type = 1 Then
        Do
            PageSetup PAGETYPE USLetter ORIENT Tall
            GetPageSetup WIDTH HEIGHT
            Parse Var RESULT true_width true_height

            /* The following measurements are based on inches converted to
micropoints
            Experiment with the defaults at your own risk, however. :)
            */

            side_margin = Trunc(.5 * micropoints_per_inch)
            top_margin = Trunc(.625 * micropoints_per_inch)
            bottom_margin = Trunc(.625 * micropoints_per_inch)
            pagewidth = Trunc(true_width - 2 * side_margin)
            pageheight = Trunc(true_height - top_margin - bottom_margin)
            text_area = Trunc(.15 * pageheight) /* 15% of calendar size
devoted to titles */
            box_width = Trunc(pagewidth/7)
            box_height = Trunc((pageheight-text_area)/5)
            bevel_control = "BEVEL"
            SectionSetup TOP top_margin INSIDE side_margin OUTSIDE
side_margin

            /* Set up font defaults */
            datestring_font = "Dragon_BoldItalic"
            datestring_font_size = 64
            datestring_font_width = 100
            text_font = "Dragon_BoldItalic"
            text_font_size = 20
            text_font_width = 80
            day_font = "Dragon_Bold"
            day_font_size = 20
            day_font_width = 100

            iteration = 1
        End

    /* Double-portrait calendar */

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When calendar_type == 2 Then
  Do
    PageSetup PAGETYPE USLetter ORIENT Tall
    GetPageSetup WIDTH HEIGHT
    Parse Var RESULT true_width true_height

    /* The following measurements are based on inches converted to
micropoints
    Experiment with the defaults at your own risk, however. :)
*/

    side_margin = Trunc(.5 * micropoints_per_inch)
    top_margin = Trunc(.625 * micropoints_per_inch)
    bottom_margin = Trunc(5.50 * micropoints_per_inch)
    pagewidth = Trunc(true_width - 2 * side_margin)
    pageheight = Trunc(true_height - top_margin - bottom_margin)
    text_area = Trunc(.15 * pageheight) /* 15% of calendar size
devoted to titles */
    box_width = Trunc(pagewidth/7)
    box_height = Trunc((pageheight-text_area)/5)
    bevel_control = "BEVEL"
    SectionSetup TOP top_margin INSIDE side_margin OUTSIDE
side_margin

    /* Set up font defaults */
    datestring_font = "Dragon_BoldItalic"
    datestring_font_size = 29
    datestring_font_width = 150
    text_font = "Dragon_BoldItalic"
    text_font_size = 18
    text_font_width = 80
    day_font = "Dragon_Bold"
    day_font_size = 20
    day_font_width = 100

    iteration = 2
  End

/* Landscape calendar */
When calendar_type == 3 Then
  Do
    PageSetup PAGETYPE USLetter ORIENT Wide
    GetPageSetup WIDTH HEIGHT
    Parse Var RESULT true_width true_height

    /* The following measurements are based on inches converted to
micropoints

```

```

Experiment with the defaults at your own risk, however. :)
*/

side_margin = Trunc(.5 * micropoints_per_inch)
top_margin = Trunc(.625 * micropoints_per_inch)
bottom_margin = Trunc(.625 * micropoints_per_inch)
pagewidth = Trunc(true_width - 2 * side_margin)
pageheight = Trunc(true_height - top_margin - bottom_margin)
text_area = Trunc(.15 * pageheight) /* 15% of calendar size
devoted to titles */
box_width = Trunc(pagewidth/7)
box_height = Trunc((pageheight-text_area)/5)
bevel_control = "BEVEL"
SectionSetup TOP top_margin INSIDE side_margin OUTSIDE
side_margin

/* Set up font defaults */
datestring_font = "Montreal_BoldItalic"
datestring_font_size = 44
datestring_font_width = 150
text_font = "Montreal_BoldItalic"
text_font_size = 22
text_font_width = 80
day_font = "Montreal_Bold"
day_font_size = 20
day_font_width = 100

iteration = 1
End
End

current_month = -1
current_month_number = -1
current_year = -1

temp_date = "00000000"

day.6 = 'Saturday'
day.0 = 'Sunday'
day.1 = 'Monday'
day.2 = 'Tuesday'
day.3 = 'Wednesday'
day.4 = 'Thursday'
day.5 = 'Friday'

month.0 = 'January'
month.1 = 'February'

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```
month.2 = 'March'
month.3 = 'April'
month.4 = 'May'
month.5 = 'June'
month.6 = 'July'
month.7 = 'August'
month.8 = 'September'
month.9 = 'October'
month.10 = 'November'
month.11 = 'December'
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```
month_length.0 = 31
month_length.1 = 28
month_length.2 = 31
month_length.3 = 30
month_length.4 = 31
month_length.5 = 30
month_length.6 = 31
month_length.7 = 31
month_length.8 = 30
month_length.9 = 31
month_length.10 = 30
month_length.11 = 31
```

```
RequestText "Month Select" "Month:" 'DATE('M')' '
current_month = RESULT
```

```
RequestText "Year Select" "Year:" 'SUBSTR(DATE('S'),1,4)' '
current_year = RESULT
if current_year < 1978 then current_year = 1978
```

```
Do i = 0 to 11
  If current_month = month.i Then current_month_number = i + 1
End
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```
Do While iteration > 0
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  If current_year//4 == 0 & current_year//100 > 0 Then
    month_length.1 = 29
  Else
    If current_year//400 == 0 Then
      month_length.1 = 29
```

```
Select
  When current_month_number < 10 Then
    temp_date = current_year || 0 || current_month_number || "01"
  When current_month_number >= 10 Then
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        temp_date = current_year || current_month_number || "01"
When current_month_number == -1 Then
    Exit 10
End

first_day_of_the_month = Date('W', temp_date, 'S')

Select
    When first_day_of_the_month == "Saturday" Then cal_start = 6
    When first_day_of_the_month == "Sunday" Then cal_start = 0
    When first_day_of_the_month == "Monday" Then cal_start = 1
    When first_day_of_the_month == "Tuesday" Then cal_start = 2
    When first_day_of_the_month == "Wednesday" Then cal_start = 3
    When first_day_of_the_month == "Thursday" Then cal_start = 4
    When first_day_of_the_month == "Friday" Then cal_start = 5
End

/* Create month/year header */
TextBlockTypePrefs SIZE datestring_font_size WIDTH datestring_font_width
FONT datestring_font
datestring = current_month || " " || current_year
obj_top = top_margin + datestring_font_size * 9
DrawTextBlock 1 side_margin obj_top datestring
datestring_obj = RESULT
Redraw
GetObjectCoords datestring_obj
coords = RESULT
Parse Var coords Page obj_left obj_top obj_width obj_height
text_edge = Trunc(side_margin + (pagewidth - obj_width)/2)
SetObjectCoords datestring_obj Page text_edge obj_top obj_width
obj_height

i = 0
Do While (i < 7)
    j = 0
    box_left = side_margin+box_width*i
    box_top = top_margin+text_area

    Do While (j < 5)
        serial_position = i + (j * 7)
        index = current_month_number - 1
        If serial_position >= cal_start & serial_position <
cal_start+month_length.index
            Then BoxPrefs LINEWT 2 LINECOLOR Black FILL Transparent
TEXTFLOW None
            Else BoxPrefs LINEWT 2 LINECOLOR Black FILL Solid FILLCOLOR Cyan
TEXTFLOW None

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```

box_top = top_margin+text_area+box_height*j
text_top = box_top + box_height - day_font_size * 5
DrawBox Page box_left box_top box_width box_height bevel_control
box_obj.i.j = RESULT
day_of_month = serial_position-cal_start+1
TextBlockTypePrefs SIZE day_font_size WIDTH day_font_width FONT
day_font
GetBoxPrefs FILL
If RESULT = "Transparent" Then
    Do
        DrawTextBlock Page box_left text_top day_of_month
            day_obj = RESULT
            Redraw
            GetObjectCoords day_obj
            coords = RESULT
            Parse Var coords Page obj_left obj_top obj_width
obj_height
                text_edge = Trunc(box_left + (box_width - obj_width -
50))
                SetObjectCoords day_obj Page text_edge text_top
obj_width obj_height
            End
        j = j + 1
    End

    i = i + 1
End

i = 0
Do While (i < 7)
    GetObjectCoords box_obj.i.0
    coords = RESULT
    Parse Var coords Page obj_left obj_top obj_width obj_height
    box_center = Trunc(obj_left + obj_width/2)
    box_top = obj_top
    TextBlockTypePrefs SIZE text_font_size WIDTH text_font_width FONT
text_font
    DrawTextBlock 1 obj_left obj_top day.i
    text_obj.i = RESULT
    Redraw
    GetObjectCoords text_obj.i
    coords = RESULT
    Parse Var coords Page obj_left obj_top obj_width obj_height
    text_edge = Trunc(box_center - obj_width/2)
    text_bottom = box_top-text_font_size*5
    SetObjectCoords text_obj.i Page text_edge text_bottom obj_width
obj_height

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        i = i + 1
    End

/* Special cases for months whose last day(s) wrap to the
   beginning of the week */

If cal_start+month_length.index == 36 Then
    Do
        TextBlockTypePrefs SIZE day_font_size WIDTH day_font_width FONT
day_font
        day_of_month = day_of_month + 1
        GetObjectCoords box_obj.0.4
        coords = RESULT
        Parse Var coords Page obj_left obj_top obj_width obj_height
        DrawLine Page obj_left+40 obj_top+obj_height-40
obj_left+obj_width-40 obj_top+40
        DrawTextBlock 1 obj_left+50 obj_top+day_font_size*12 day_of_month

    End
If cal_start+month_length.index == 37 Then
    Do
        TextBlockTypePrefs SIZE day_font_size WIDTH day_font_width FONT
day_font
        day_of_month = day_of_month + 1
        GetObjectCoords box_obj.0.4
        coords = RESULT
        Parse Var coords Page obj_left obj_top obj_width obj_height
        DrawLine Page obj_left+40 obj_top+obj_height-40
obj_left+obj_width-40 obj_top+40
        DrawTextBlock 1 obj_left+50 obj_top+day_font_size*12 day_of_month

        day_of_month = day_of_month + 1
        GetObjectCoords box_obj.1.4
        coords = RESULT
        Parse Var coords Page obj_left obj_top obj_width obj_height
        DrawLine Page obj_left+40 obj_top+obj_height-40
obj_left+obj_width-40 obj_top+40
        DrawTextBlock 1 obj_left+50 obj_top+day_font_size*12 day_of_month
    End

/* Handles special case of double portrait calendar */
If iteration == 2 Then
    Do
        drop datestring
        top_margin = Trunc(5.5 * micropoints_per_inch)
        bottom_margin = Trunc(.625 * micropoints_per_inch)

```



```

        pagewidth = Trunc(true_width - 2 * side_margin)
        pageheight = Trunc(true_height - top_margin - bottom_margin)
        text_area = Trunc(.15 * pageheight) /* 15% of calendar size
devoted to titles */
        box_width = Trunc(pagewidth/7)
        box_height = Trunc((pageheight-text_area)/5)
        If current_month_number < 12 Then
            Do
                current_month = month.current_month_number
                current_month_number = current_month_number + 1
            End
        Else
            Do
                current_month_number = 1
                current_month = "January"
                current_year = current_year + 1
            End
        End
        iteration = iteration - 1
    End
End

SectionSetup BOTTOM bottom_margin
SelectObject
Redraw
View 50

```