

# The scrjrn1 class

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## 1 Introduction

The `scrjrn1` class is based of the `scrbook` class, and inherits all of its commands and settings. Please refer to the Koma-Script documentation for the detail of all of these. Note that the `scrjrn1` class is not an official Koma-Script class.

## 2 Usage

```
\documentclass[<options>]{scrjrn1}
```

### 2.1 Options

The class options are described below.

`monthpages`

By default, the month pages are skiped and only the days are typeset. If you wish to display a page for each starting month, use this setting.

`fancytabs`

This class can automatically make use of the `fancytabs` package to typeset tabs on the side of every odd page, with the name of the current month.

### 2.2 The journal environment

The `journal` environment is the main addition of this class. It provides an environment in which to typeset journal entries.

The `journal` environment takes the following options:

`startmonth`

The month in which to start the journal. Defaults to 1.

`startday`

The day in which to start the journal. Defaults to 1.

## 2.3 Typesetting months

Once the journal environment is initiated, you can use the `jrnlmonth` and `jrnlday` commands to typeset journal entries.

`\jrnlmonth`

The `\jrnlmonth` command starts a new month. It takes the following options:

`month`

Forces the current month instead of simply incrementing from the previous one. This parameter is an integer between 1 and 12.

`startday`

Start month at a given day, instead of 1.

## 2.4 Typesetting a journal entry

`\jrnlday`

In order to typeset a single journal entry, use the `\jrnlday` command. This command takes a mandatory argument which is the journal entry's title, as well as the following options:

`day`

Forces the current day instead of simply incrementing from the previous one. This parameter is an integer.

`ante`

Add a text before the date.

`post`

Add a text after the date.

## 2.5 Index

When typesetting a journal, you might want to rely only on day entries to relate to pages and turn off completely page numbers by using an empty page style.

In this situation, if you have to create an index, you might want index entries to link to dates in the journal rather than page numbers.

The `scrjrn` class records each typeset day in macros so they can be used to generate an index. The macros are named `jrnldaydate\thejrnlday`, with the page day corresponding to the entry, numbered from the first typeset day in the journal.

Below is an example of an index generated using the `bibleref` package, and linking to journal entries instead of pages:

```
% Index by day
\renewcommand*{\bidxpgformat}{transform}

% Get the date for the recorded day
\newcommand\getdaydate[1]{\csname jrnldaydate#1\endcsname}

% Go through index items
\newcommand{\transform}[1]{%
  \def\secondparam{0}%
```

```

\forcsvlist\decodesec{#1}}
\newcommand{\decodesec}[1]{%
\ifthenelse{\secondparam=1}{, }{}%
\mbox{\textsc{\getdaydate{#1}}}}
\def\secondparam{1}}

% Patch imakeidx to map journal entry instead of page
\makeatletter
\patchcmd{\@index}{\@wrindex}{\@Wrindex}{}{}
\let\@Wrindex\@wrindex
\patchcmd{\@Wrindex}{\thepage}{\thejrnltotalday}{}{}
\let\protected@iwrite\protected@write
\patchcmd{\protected@iwrite}{\write}{\immediate\write}{}{}
\patchcmd{\@Wrindex}{\protected@write}{\protected@iwrite}{}{}
\makeatother

```

### 3 Implementation

```

1 \ProvidesClass{scrjrn1}
2 \DeclareOption{scrartcl}{\def\jrnl@class{scrartcl}}
3 \DeclareOption{scrreprt}{\def\jrnl@class{scrreprt}}
4 \DeclareOption{scrbook}{\def\jrnl@class{scrbook}}
5 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{\jrnl@class}}
6 \ExecuteOptions{scrbook}
7 \newif\if@jrnl@monthpages
8 \DeclareOption{monthpages}{\@jrnl@monthpagetrue}
9 \newif\if@jrnl@fancytabs
10 \DeclareOption{fancytabs}{\@jrnl@fancytabstrue}
11 \newif\if@jrnl@cleardaypages
12 \DeclareOption{cleardaypages}{\@jrnl@cleardaypagetrue}
13 \ProcessOptions\relax
14 \LoadClass{\jrnl@class}
15 \RequirePackage{titlesec}

16 \AfterPackage!{babel}{\RequirePackage{datetime}}
17 \newcommand\jrnlformatdate\formatdateny
18 \newcommand\jrnlformatindexdate\formatdateny

19 % formatdate without year
20 \def\formatdateny{\csname noyear\language\name\expandafter\endcsname\formatdate}
21
22 \def\noyearenglish#1, \the\@year{#1}
23 \let\noyearamerican\noyearenglish
24 \let\noyearbritish\noyearenglish
25 \def\noyearfrench#1\space\number\@year{#1}
26 \let\noyeargerman\noyearfrench
27 \let\noyearaustrian\noyeargerman
28 \let\noyearswedish\noyearfrench
29 \let\noyearbreton\noyearfrench

```

Load datetime after babel

More datetime

```

30 \def\noyearrussian#1\ \number\@year~\cyrg. {#1}
31 \def\noyears spanish#1\ de~\number\@year{#1}
32 \let\noyearcatalan\noyears spanish
33 \def\noyearbasque#1\number\@year.eko\space{#1}

Set default lengths
34 \newlength{\jrnl daysepskip}
35 \setlength{\jrnl daysepskip}{0pt}
36 \newlength{\jrnl dayafterskip}
37 \setlength{\jrnl dayafterskip}{2\baselineskip}

Load fancytabs
38 %\if@jrnl@fancytabs
39 \RequirePackage{fancytabs}[2012/09/24]
40 %\fi

Month names
41 \newcommand{\jrnl@monthname}[1]{\monthname{#1}}
42 \newcommand{\jrnl@curmonth}{\jrnl@monthname{\thejrnlmonth}}

Setup counters
43 \newcounter{jrnlstartchapter}
44 \newcounter{jrnl day}
45 \newcounter{jrnlmonth}
46 \newcounter{jrnl year}
47 \newcounter{jrnl totalday}

HTML hooks for TeX4HT
48 \newcommand{\HTMLchapHook}[1]{}
49 \newcommand{\HTMLsecHook}[2]{}

Define jrnlmonth
50 \newcounter{jrnlmonthstartday}
51 \define@key{jrnlmonth}{month}{\setcounter{jrnlmonth}{#1}\addtocounter{jrnlmonth}{-1}}
52 \define@key{jrnlmonth}{startday}{\setcounter{jrnlmonthstartday}{#1}\addtocounter{jrnlmonthstart
53
54 \newcommand{\jrnlmonth}[1] [] {%
55 % Use \thejrnlstatday if first month of journal
56 \setcounter{jrnlmonthstartday}{\thejrnlstartday}%
57 \setcounter{jrnlstartday}{0}%
58 \setkeys{jrnlmonth}{#1}%
59 \stepcounter{jrnlmonth}%
60 \HTMLchapHook{\jrnl@curmonth}%
61 \if@jrnl@monthpages
62 \chapter{\jrnl@curmonth}%
63 \cleardoublepage%
64 \else
65 \refstepcounter{chapter}%
66 \@maybeautodot\thechapter
67 \addchaptertocentry{\thechapter}{\jrnl@curmonth}%
68 \fi
69 \setcounter{jrnl day}{\thejrnlmonthstartday}%
70 }

Define jrnl day
71 \newcommand{\jrnl@pagedate}{%
72 \jrnlformatdate{\thejrnl day}{\thejrnlmonth}{\thejrnl year}%
73 }
74 \define@key{jrnl day}{day}{\setcounter{jrnl day}{#1}\addtocounter{jrnl day}{-1}}
75 \define@key{jrnl day}{ante}{\def\jrnl day@ante{#1}}
76 \define@key{jrnl day}{post}{\def\jrnl day@post{#1}}

```

```

77
78 \newcommand{\jrnlday}[2] [] {%
79   \def\jrnlday@ante{%
80   \def\jrnlday@post{%
81   \setkeys{jrnlday}{#1}%
82   \stepcounter{jrnlday}%
83   \stepcounter{jrnltotalday}%
84   \if@jrnl@cleardaypages
85   \cleardoublepage
86   \fi
87   \newpage\section{#2}%
88   % TODO: provide index macros to be used with jrnlpagedate\thepage
89   \expandafter\xdef\csname jrnldaydate\thejrnltotalday\endcsname{%
90     \noexpand\jrnlformatindexdate{\thejrnlday}{\thejrnlmonth}{\thejrnlyear}%
91   }%
92   \HTMLsecHook{\jrnlday@ante\jrnlformatdate{\thejrnlday}{\thejrnlmonth}{\thejrnlyear}\jrnlday@p
93 }
Define fonts
94 \newcommand\dayheadfont{}
Chapter/section styles
95 \newcommand\monthheadfont{}
96 \newcommand\jrnl@titlestrut{\vrule height 25pt width0pt\relax}
97 \newcommand{\jrnl@secstyle}{\filcenter\dayheadfont\huge}
98 \newcommand{\jrnl@seclblstyle}{\raggedright\normalfont\scshape\Large}
99 \newcommand{\jrnl@seclbl}{\jrnl@seclblstyle\jrnlday@ante\jrnl@pagedate\jrnlday@post\\}
100
Define journal environment
101 \newcommand{\jrnl@chapstyle}{\filcenter\monthheadfont\Huge\textsc}
102 \newcounter{jrnlstartmonth}
103 \newcounter{jrnlstartday}
104 \define@key{jrnl}{startmonth}{\setcounter{jrnlstartmonth}{#1}\addtocounter{jrnlstartmonth}{-1}}
105 \define@key{jrnl}{startday}{\setcounter{jrnlstartday}{#1}\addtocounter{jrnlstartday}{-1}}
106 \newlength{\jrnl@bleed}
107 \define@key{jrnl}{bleed}{\setlength{\jrnl@bleed}{#1}}
108
109 \newenvironment{journal}[1] [] {%
110   {%
111   \setcounter{jrnlstartmonth}{0}%
112   \setcounter{jrnlstartday}{0}%
113   \setkeys{jrnl}{#1}%
114   \setcounter{jrnlstartchapter}{\thechapter}
115   \addtocounter{jrnlmonth}{\thejrnlstartmonth}
116
117   \titleformat{\chapter}[block]
118     {\vfill}
119     {}{0pt}
120     {\jrnl@chapstyle}
121     [\vfill\vfill]
122
123   \if@jrnl@fancytabs
124     % We know \paperheight and bleed
125     % Calculation base:

```

```

126 % 6*fancytabsHeight+2*fancytabsTop+5*fancytabsGap = paperheight
127 % fancytabsHeight = 10*fancytabsGap
128 % fancytabsTop = 5*fancytabsGap + 2*bleed
129
130 % Calculate \calcfancytabsGap as (\the\paperheight-2*bleed)/75
131 \newlength{\calcfancytabsGap}
132 \pgfmathsetlength{\calcfancytabsGap}{(\the\paperheight-2*\the\jrn@bleed)/75}
133 \fancytabsGap{\the\calcfancytabsGap}
134
135 % Calculate \calcfancytabsHeight as 10*\calcfancytabsGap
136 \newlength{\calcfancytabsHeight}
137 \pgfmathsetlength{\calcfancytabsHeight}{10*\calcfancytabsGap}
138 \fancytabsHeight{\the\calcfancytabsHeight}
139
140 % Calculate \calcfancytabsTop as (5*\calcfancytabsGap+2\jrn@bleed)
141 \newlength{\calcfancytabsTop}
142 \pgfmathsetlength{\calcfancytabsTop}{5*\calcfancytabsGap+2*\the\jrn@bleed}
143 \fancytabsTop{\the\calcfancytabsTop}
144
145 % Calculate \fancytabsWidth, without bleed
146 \newlength{\calcfancytabsWidth}
147 \pgfmathsetlength{\calcfancytabsWidth}{\the\paperwidth/12}
148
149 % Calculate \fancytabsWidthBleed, with bleed
150 \newlength{\calcfancytabsWidthBleed}
151 \pgfmathsetlength{\calcfancytabsWidthBleed}{\the\calcfancytabsWidth+\the\jrn@bleed}
152 \fancytabsWidth{\the\calcfancytabsWidthBleed}
153
154 \fancytabsTextVPos{0.5}
155 % Put text more inside
156 % \fancytabsTextHPos = (\fancytabsWidth/2)/\fancytabsWidthBleed
157 \pgfmathsetmacro{\calcfancytabsTextHPos}{(\the\calcfancytabsWidth/2)/(\the\calcfancytabsWidthBleed)}
158 \fancytabsTextHPos{\calcfancytabsTextHPos}
159
160 \newcommand{\jrn@fancytab}{%
161   \ifthenelse{\isodd{\thepage}}{%
162     {\fancytab{\jrn@curmonth}{\thejrn@month}}%
163     }%
164 }
165 \else
166 \newcommand{\jrn@fancytab}{}%
167 \fi
168
169 \titleformat{\section}[display]
170 {\jrn@secstyle} % format
171 {\jrn@seclbl} % label
172 {\jrn@daysepskip} %sep
173 {\jrn@fancytab}
174 \jrn@titlestrut\filcenter} %before
175 [\vspace{\jrn@dayafterskip}] %after

```

```

176
177 \titlespacing{\section}{Opt}{*}{-3pt}
178
179 } % end of \begin{devotional}
180 {} % end of \end{devotional}

```

## Change History

```

0.1
  General: First version . . . . . 1

```

## Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in *roman* refer to the code lines where the entry is used.

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