

# 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 skipped 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 jrn1month and jrn1day commands to typeset journal entries.

\jrn1month

The \jrn1month 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 `bibref` package, and linking to journal entries instead of pages:

```
% Index by day
\renewcommand*{\bvidxpgformat}{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\codesec{#1}}
\newcommand{\codesec}[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{\@Wrintex}{\protected@write}{\protected@iwrite}{}{}
\makeatother

```

### 3 Implementation

```

1 \ProvidesClass{scrjrn1}
2 \DeclareOption{scrartcl}{\def\jrn1@class{scrartcl}}
3 \DeclareOption{scrreprt}{\def\jrn1@class{scrreprt}}
4 \DeclareOption{scrbook}{\def\jrn1@class{scrbook}}
5 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{\jrn1@class}}
6 \ExecuteOptions{scrbook}
7 \newif\ifjrn1@monthpages
8 \DeclareOption{monthpages}{\@jrn1@monthpagetrue}
9 \newif\ifjrn1@fancytabs
10 \DeclareOption{fancytabs}{\@jrn1@fancytabstrue}
11 \newif\ifjrn1@cleardaypages
12 \DeclareOption{cleardaypages}{\@jrn1@cleardaypagetrue}
13 \ProcessOptions\relax
14 \LoadClass{\jrn1@class}
15 \RequirePackage{titlesec}
16 \AfterPackage{babel}{\RequirePackage{datetime}}
17 \newcommand\jrn1formatdate\formatdateny
18 \newcommand\jrn1formatindexdate\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\@year{#1}
26 \let\noyeargerman\noyearfrench
27 \let\noyearaustrian\noyeargerman
28 \let\noyearswedish\noyearfrench
29 \let\noyearbreton\noyearfrench
30 \def\noyearrussian#1\ \number\@year~\cyrg. {#1}
31 \def\noyearspanish#1\ de~\number\@year{#1}
32 \let\noyearcatalan\noyearspanish
33 \def\noyearbasque#1\number\@year.eko\space{#1}
34 \newlength{\jrn1daysepskip}
35 \setlength{\jrn1daysepskip}{0pt}
36 \newlength{\jrn1dayafterskip}
37 \setlength{\jrn1dayafterskip}{2\baselineskip}
38 %%\ifjrn1@fancytabs
39 \RequirePackage{fancytabs}[2012/09/24]
40 %%\fi
41 \newcommand{\jrn1@monthname}[1]{\monthname{#1}}
42 \newcommand{\jrn1@curmonth}{\jrn1@monthname{\thejrn1month}}
43 \newcounter{jrn1startchapter}

```

Load datetime after babel

More datetime

Set default lengths

Load fancytabs

Month names

Setup counters

```

44 \newcounter{jrnlday}
45 \newcounter{jrnlnmonth}
46 \newcounter{jrnlyear}
47 \newcounter{jrnltotalday}
48 \newcommand{\HTMLchapHook}[1]{}
49 \newcommand{\HTMLsecHook}[2]{}
50 \newcounter{jrnlnmonthstartday}
51 \define@key{jrnlnmonth}{month}{\setcounter{jrnlnmonth}{#1}\addtocounter{jrnlnmonth}{-
  1}}
52 \define@key{jrnlnmonth}{startday}{\setcounter{jrnlnmonthstartday}{#1}\addtocounter{jrnlnmonthstar
  1}}
53
54 \newcommand{\jrnlnmonth}[1] [] {%
55   % Use \thejrnlnstatday if first month of journal
56   \setcounter{jrnlnmonthstartday}{\thejrnlnstartday}%
57   \setcounter{jrnlnstartday}{0}%
58   \setkeys{jrnlnmonth}{#1}%
59   \stepcounter{jrnlnmonth}%
60   \HTMLchapHook{\jrnln@curmonth}%
61   \ifjrnln@monthpages
62     \chapter{\jrnln@curmonth}%
63     \cleardoublepage%
64   \else
65     \refstepcounter{chapter}%
66     \@maybeatodot\thechapter
67     \addchaptertocentry{\thechapter}{\jrnln@curmonth}%
68   \fi
69   \setcounter{jrnlday}{\thejrnlnmonthstartday}%
70 }
71 \newcommand{\jrnln@pagedate}{%
72   \jrnlnformatdate{\thejrnlday}{\thejrnlnmonth}{\thejrnlyear}%
73 }
74 \define@key{jrnlday}{day}{\setcounter{jrnlday}{#1}\addtocounter{jrnlday}{-
  1}}
75 \define@key{jrnlday}{ante}{\def\jrnlday@ante{#1}}
76 \define@key{jrnlday}{post}{\def\jrnlday@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   \ifjrnln@cleardaypages
85   \if@openright\cleardoublepage\else\clearpage\fi
86   \fi
87   \newpage\section{#2}%
88   % TODO: provide index macros to be used with jrnlnpagedate\thepage
89   \expandafter\edef\csname jrnldaydate\thejrnltotalday\endcsname{%
90     \jrnlday@ante\noexpand\jrnlnformatindexdate{\thejrnlday}{\thejrnlnmonth}{\thejrnlyear}\jrnln
91 }%
92   \HTMLsecHook{\jrnlday@ante\jrnlnformatdate{\thejrnlday}{\thejrnlnmonth}{\thejrnlyear}\jrnlday
93 }

```

HTML hooks for TeX4HT

Define jrnlnmonth

Define jrnlday

Define fonts

```
94 \newcommand\dayheadfont{}
```

Chapter/section styles

```
95 \newcommand\monthheadfont{}
```

```
96 \newcommand\jrnltitlustrut{\vrule height 25pt width0pt\relax}
```

```
97 \newcommand{\jrnltitlustrut}{\filcenter\dayheadfont\huge}
```

```
98 \newcommand{\jrnltitlustrut}{\raggedright\normalfont\scshape\Large}
```

```
99 \newcommand{\jrnltitlustrut}{\jrnltitlustrut\jrnlday@ante\jrnltitlustrut\jrnlday@post\}}
```

```
100
```

Define journal environment

```
101 \newcommand{\jrnltitlustrut}{\filcenter\monthheadfont\Huge\textsc}
```

```
102 \newcounter{jrnltitlustrut}
```

```
103 \newcounter{jrnltitlustrut}
```

```
104 \define@key{jrnltitlustrut}{startmonth}{\setcounter{jrnltitlustrut}{#1}\addtocounter{jrnltitlustrut}{-1}}
```

```
105 \define@key{jrnltitlustrut}{startday}{\setcounter{jrnltitlustrut}{#1}\addtocounter{jrnltitlustrut}{-1}}
```

```
106 \newlength{\jrnltitlustrut}
```

```
107 \define@key{jrnltitlustrut}{bleed}{\setlength{\jrnltitlustrut}{#1}}
```

```
108
```

```
109 \newenvironment{jrnltitlustrut}[1][\%]
```

```
110 {\%
```

```
111 \setcounter{jrnltitlustrut}{0}\%
```

```
112 \setcounter{jrnltitlustrut}{0}\%
```

```
113 \setkeys{jrnltitlustrut}{#1}\%
```

```
114 \setcounter{jrnltitlustrut}{\thechapter}
```

```
115 \addtocounter{jrnltitlustrut}{\thejrnltitlustrut}
```

```
116
```

```
117 \titleformat{\chapter}[block]
```

```
118 {\vfill}
```

```
119 }{0pt}
```

```
120 {\jrnltitlustrut}
```

```
121 [\vfill\vfill]
```

```
122
```

```
123 \if@jrnltitlustrut
```

```
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\jrnltitlustrut)/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*\jrnltitlustrut)
```

```
141 \newlength{\calcfancytabsTop}
```

```
142 \pgfmathsetlength{\calcfancytabsTop}{5*\calcfancytabsGap+2*\the\jrnltitlustrut}
```

```
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\jrnlobleed}
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{\jrnlfancytab}{%
161   \ifthenelse{\isodd{\thepage}}{%
162     {\fancytab{\jrnlfancytab}{\thejrnlfancytab}}%
163   }%
164 }
165 \else
166 \newcommand{\jrnlfancytab}{}%
167 \fi
168
169 \titleformat{\section}[display]
170   {\jrnlfancytab} % format
171   {\jrnlfancytab} % label
172   {\jrnlfancytab} %sep
173   {\jrnlfancytab}
174   \jrnlfancytab\filcenter} %before
175   [\vspace{\jrnlfancytab}] %after
176
177 \titlespacing{\section}{0pt}{*}{-3pt}
178
179 } % end of \begin{devotional}
180 {} % end of \end{devotional}

```