

# Guide to the class `cjs-rcs-article` for *The Canadian Journal of Statistics*

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**Statistical Society of Canada**

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**Abstract** Authors submitting an article to *The Canadian Journal of Statistics* should use the document class `cjs-rcs-article` and its companion bibliographic styles to typeset their manuscript with  $\LaTeX$ . This guide provides a complete description of the characteristics and features of the class, as well as the details of its implementation and the version history. A French version of this guide is also available, but without these last two elements of documentation.

**Résumé** Les auteurs qui soumettent un article dans *La revue canadienne de statistique* doivent utiliser la classe `cjs-rcs-article` et les styles bibliographiques qui l'accompagnent pour préparer leur manuscrit avec  $\LaTeX$ . Ce guide fournit une description complète des caractéristiques et fonctionnalités de la classe, ainsi que les détails de sa mise en œuvre et l'historique des versions. Une version française de ce guide est également disponible, mais celle-ci ne contient pas ces deux derniers éléments de documentation.

**Version** This is the documentation for the class `cjs-rcs-article` v1.2a, dated 2025/07/24.

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## 1 Introduction

The  $\LaTeX$  document class `cjs-rcs-article` and its companion bibliographic styles `cjs-rcs-en` and `cjs-rcs-fr` typeset manuscripts immediately in accordance with the presentation rules of *The Canadian Journal of Statistics*. In particular, the dimensions of the typeblock, the page layout, the fonts and the list of references are identical to the final version of the article. But for a few modifications, the present guide uses the page layout of the class.

Typesetting a manuscript with `cjs-rcs-article` requires a recent and up-to-date  $\TeX$  distribution. We recommend the distributions  **$\TeX$  Live**—or its variant for macOS **Mac $\TeX$** —and **MiK $\TeX$** . You may also use an online  $\LaTeX$  editor such as **Overleaf**; their  $\TeX$  distributions usually satisfy the conditions above.

The class `cjs-rcs-article` is part of the standard  $\TeX$  distributions via the package **`cjs-rcs-article`**. If your distribution is up-to-date, you should be able to use the class without any special intervention.

This guide is organized as follows. [Section 2](#) explains how to get started quickly with the class, and [Section 3](#) describes how to install the class if it is not already available on your system. [Section 4](#) gives all the details of how to use the package for the various components of your article. [Section 5](#) discusses hyperlinks and the creation of the table of contents of the PDF. Finally, [Section 6](#) explains how you can use the class to prepare supplementary material. For  $\TeX$  experts, we include two appendices. [Appendix A](#) discusses features that are primarily intended for editors rather than authors, and [Appendix B](#) gives the details of the implementation.

## 2 Quick start

The class ships with templates for articles in English and in French. In  $\TeX$  Live, these are located with the documentation of the class. You may also obtain the templates from **CTAN** or in the **project website**. To quickly start writing your article, copy the appropriate template to your working directory and follow the brief instructions and the examples therein. You should also review the author guidelines that ship along the present documentation.

If your manuscript contains non-ASCII characters (such as accented letters), you have to save your file using the **UTF-8** character encoding. To take full advantage of the class, you should compile your manuscript using  $\text{Lua}\text{\LaTeX}$ .

The remainder of this guide provides detailed information on the characteristics and features of the class. We recommend that you read at least [Section 4.7](#) on mathematical typesetting.

### 3 Installation

The class `cjs-rcs-article` is distributed as the package **cjs-rcs-article** through the Comprehensive  $\text{T}_{\text{E}}\text{X}$  Archive Network (CTAN). It is part of the standard  $\text{T}_{\text{E}}\text{X}$  distributions such as  $\text{TeX}$  Live,  $\text{MacTeX}$  and  $\text{MiKTeX}$ . We strongly recommend that you install or update the package using the package manager of your  $\text{T}_{\text{E}}\text{X}$  distribution. For example, with  $\text{TeX}$  Live, you may install or update from the graphical package manager, or using either of these commands from the command line:

```
| $ tlmgr install cjs-rcs-article
```

or

```
| $ tlmgr update cjs-rcs-article
```

If you are not in position to install packages or update the  $\text{T}_{\text{E}}\text{X}$  distribution—notably when using an online editor—you may instead opt for a simplified installation of the class, but that will be limited in scope to your project. Download the archive `cjs-rcs-article-project-install.zip` from the [project website](#), uncompress it and place its contents in the directory of your project. You will then have access to all the essential files of the class, including the templates, within this project.

Manual installation with full access to the source code is possible for  $\text{T}_{\text{E}}\text{X}$  experts. Please follow the instructions provided in the `README.md` file included in the package.

### 4 Usage

The class `cjs-rcs-article` relies on modern and advanced tools, all of which are available in recent  $\text{T}_{\text{E}}\text{X}$  distributions. In particular:

- the class **memoir** on which `cjs-rcs-article` is based (therefore, `cjs-rcs-article` inherits all the features of `memoir`);
- the fonts **STIX Two** for text and mathematics;
- the fonts **Fira** for decorative elements (notably `Fira Sans` for section titles and `Fira Mono` for computer code);
- the package **babel** to handle multiple languages in a single document.

The class is largely compatible with the engine  $\text{pdf}\text{\LaTeX}$ . However, to take full advantage of its characteristics<sup>1</sup> we recommend that you compile your manuscript using the more modern engine  $\text{Lua}\text{\LaTeX}$ .

#### 4.1 Templates

The class is distributed with templates for articles in English and French. If you are using the version of the class included with your  $\text{T}_{\text{E}}\text{X}$  distribution, the templates may be located with the documentation (this is the case in  $\text{TeX}$  Live). You may also obtain them from [CTAN](#) or in the [project website](#). If you installed the class manually by following the instructions in [Section 3](#), the templates reside in your working directory.

We strongly encourage to start from a template to write your article. It may also help to follow a template while reading this section.

<sup>1</sup>In particular when it comes to fonts. The engine  $\text{pdf}\text{\LaTeX}$  uses the Type 1 versions of the fonts **STIX Two** and **Fira**. Since the PostScript Type 1 technology has been deprecated, the fonts are no longer updated. The engine  $\text{Lua}\text{\LaTeX}$  uses the more modern—and complete—OpenType versions of the fonts.

**Table 1:** Summary of the commands and environments of the class cjs-rcs-article to provide title-page information. Names starting with the symbol “\” are commands, and the others are environments. Items marked with \* are required.

Name	Usage
\title*	main title of the article (with an abbreviated version as an option)
\author*	name of an author (and metadata as an option)
\surname*	surname of an author (used inside \author)
\affil*	affiliation of an author
\runningauthor	author identification for the running heads
englishabstract*	English abstract
frenchabstract*	French abstract
keywords	list of keywords
classification*	mathematics subject classification MSC2020

## 4.2 Text encoding

When the text contains accented letters or any other non-ASCII symbol, you must save your manuscript using the **UTF-8** character encoding.<sup>2</sup>

## 4.3 Class declaration and options

The class is loaded with the command:

```
\documentclass[⟨options⟩]{cjs-rcs-article}
```

Some ⟨options⟩ of the class are intended for the authors, whereas others are instead intended for the editors of *The Journal*. Presentation of the editor ⟨options⟩ is deferred to [Appendix A](#). Here, we concentrate on the author ⟨options⟩, that is: the languages of the article, review, supplement, and nocjs.

- english (option) *The Canadian Journal of Statistics* asks for abstracts in English and French. Therefore, english and french are required in the ⟨options⟩ of the class. You need to declare these options in a specific order, because the *last* one becomes the main language of the article.
- french (option)
- review (option) The option review produces a partially anonymized version of the manuscript suitable for peer review. With this option, the names of the authors and their affiliations are removed from the title page; the acknowledgements, funding information and ORCID iDs are removed from the back matter; the lines are numbered; and the line spacing is increased.
- supplement (option) The class option supplement allows you to use the class cjs-rcs-article to prepare your supplementary material. See [Section 6](#) for additional details.
- nocjs (option) If you wish to use the class cjs-rcs-article to typeset documents other than an article for *The Journal*, use the option nocjs to hide all journal-specific publication information.<sup>3</sup> The option also allows you to specify a licence agreement in a statement that will be displayed in the footer of the title page; see [Section 4.6](#) for additional details.

## 4.4 Titling information

The class cjs-rcs-article defines a number of commands and environments to provide information for the title page. See [Table 1](#) for a summary; the detailed descriptions follow.

### 4.4.1 Main title

\title The command \title defines the title of the article. An optional argument specifies an abbreviated version of the title that will be used for the running head. Therefore, the syntax of the command is:

```
\title[⟨Short title⟩]{⟨Full title⟩}
```

<sup>2</sup>Since UTF-8 is usually not the default encoding on Windows, be particularly careful if you are using this operating system.

<sup>3</sup>This guide uses the option nocjs.

**Table 2:** Keys and values defined for the options of the command `\author`

Key	Value	Description
orcid	<code>&lt;id&gt;</code>	ORCID iD of the author
email	<code>&lt;email&gt;</code>	email address of the author
corresponding	true/false	corresponding author

Write the title in sentence style, that is, with only an initial capital. In English, also capitalize the first word after a colon. Break a long title needing more than one line using `\\` or `\newline`.

#### 4.4.2 Authors and affiliations

You must provide the names of all the authors and their persistent digital identifiers **ORCID iD**; the affiliation for each author; the email address of the corresponding author; and the list of authors for the running head. The class `cjs-rcs-article` uses an information entry system inspired by the package **authblk** consisting of a series of pairs of commands `\author` and `\affil`, one per author.

`\author` The command `\author` is the main component. Its general syntax is the following:

`\surname`

```
\author[<options>]{<Forename> \surname{<Surname>}}
```

The `<Surname>` must be entered using the command `\surname`. Write the `<Forename>` and `<Surname>` in lowercase (except for the initial capital and initials). If needed, the `<Forename>` may include one or more initials, each followed by a period.

The `<options>` are used to supply an author's metadata using a `<key> = <value>` interface. Table 2 shows the currently available keys and the expected value for each. The `<key>–<value>` pairs are separated by commas.

The key `orcid` provides the ORCID iD of the author, that is, a 16-digit alphanumeric code of the form 0000-0000-0000-0000.

The key `email` provides the email address of the author. Currently, only the email address of the corresponding author appears in the manuscript. Nevertheless, we recommend providing this address for all authors.

The key `corresponding` identifies the corresponding author. The value of the key is implicitly true when it appears in the options, and false when not present. In other words, instead of specifying `corresponding=true` and `corresponding=false` for every author, you may simply indicate `corresponding` for the corresponding author. This key has no effect if the `email` key is missing for the author.

`\affil` Second component of the author entry system, the command `\affil` declares the affiliation of the author mentioned in the immediately preceding `\author` command. The general form of an affiliation is:

```
\affil{<Department, University, City, Country>}
```

`\runningauthor` The running head contains the surnames of the authors as automatically collected by the command `\surname`. If the list is too long, you may use the command `\runningauthor` to provide a shorter version: the first author's surname followed by *et al.* (in English) or *et collab.* (in French):

```
\runningauthor{<Surname> et al.}
\runningauthor{<Surname> et collab.}
```

#### 4.4.3 Abstracts

`englishabstract (env.)` Articles in *The Canadian Journal of Statistics* have both English and French abstracts. Use the environments `englishabstract` and `frenchabstract` to enter the abstracts. Their position on the title page is set automatically by the class.

The standard environment `abstract` has no effect in the class `cjs-rcs-article`.

#### 4.4.4 Keywords

`keywords (env.)` The environment `keywords` is used to provide the list of keywords for the article. Its usage is similar to an `itemize` or `enumerate` list:

```
\begin{keywords}
\item Keyword 1
\item keyword 2
...
\end{keywords}
```

As shown above, an initial capital is needed for the first keyword only. Punctuation is added automatically.

#### 4.4.5 Mathematics subject classification

`classification (env.)` The environment `classification` is used to enter the mathematics subject classification of the article. Its interface is the following:

```
\begin{classification}[\langle type \rangle]
\item[\langle level \rangle] code 1, code 2, ...
\item[\langle level \rangle] code 1, code 2, ...
...
\end{classification}
```

The default classification system used is **MSC2020**. Should you need to use a different system for your manuscript that would be published elsewhere than in *The Journal*, you may provide its name in the optional argument `\langle type \rangle`. The required entries `\langle level \rangle` identify the classification levels, for example *Primary* and *Secondary*. Insert commas between the classification codes of a level, but no other punctuation.

#### 4.4.6 Creation of the title page

`\maketitle` The aforementioned titling information may be provided in the preamble or at the very beginning of the document body. The standard command `\maketitle` typesets the title page at the place where it appears. Therefore, you should issue this command after `\begin{document}`, but before any content.

The class reserves a space at the bottom of the title page for the licence statement that will be added by the publisher (Wiley) after acceptance of the paper. For the options `review`, `supplement` and `nocjs`, the space is replaced by a footer with the page number.

#### 4.4.7 ADNI data use agreement

`\ADNIacknowledgement` The Alzheimer's Disease Neuroimaging Initiative (ADNI) **Data Sharing and Publication Policy** requires authors using their data to acknowledge ADNI in the list of authors and give a specific statement on the title page. The command `\ADNIacknowledgement` adds these two requirements. The command has no arguments; simply insert it after the declarations of the authors.

`\ADMCacknowledgement` Similarly, the command `\ADMCacknowledgement` acknowledges the Alzheimer's Disease Metabolomics Consortium (ADMC).

### 4.5 Back matter information

Articles in *The Canadian Journal of Statistics* end with elements forming the so-called back matter information: supplementary material available online, data sharing statement, acknowledgements, etc. The class `cjs-rcs-article` provides specialized environments to enter this information. See [Table 1](#) for a summary; the detailed descriptions follow.

The environments described in this section are optional.















Although it is displayed at the end, we recommend that you enter the back matter information with the titling information, in the preamble or at the beginning of the main body of the document.

**Table 3:** Summary of the environments of cjs-rcs-article to provide the back matter information

Name	Usage
supplement	supplementary material
sharing	data sharing conditions
acknowledgements	acknowledgements
funding	funding information

**Table 4:** Commands to typeset the icons for the main Creative Commons licences. All commands feature a starred variant that add a matching copyright icon.

Command	Output	Starred variant
\ccby		
\ccbysa		
\ccbync		
\ccbyncsa		
\ccbynd		
\ccbyncnd		

- `supplement (env.)` Use the environment `supplement` to provide, as free form text, information on any supplementary material: figures, tables, computer code, long mathematical proofs, etc. This material must be cited in the main article.
- `sharing (env.)` *The Canadian Journal of Statistics* adheres to the **Expects Data Sharing** editorial policy of Wiley. Therefore, you must use the environment `sharing` to make a statement about the availability or absence of shared data. You may also use the environment to describe how to access shared computer code.
- `acknowledgements (env.)` Use the environment `acknowledgements` (or its alias `acknowledgments`) to write your acknowledgements in free form text. Avoid funding information here. The environment accepts an optional argument to replace its default name (“Acknowledgements” in English; “*Remerciements*” in French) by a name of your choosing.
- `acknowledgments (env.)`
- `funding (env.)` The environment `funding` lets you provide, in free form text, all pertinent funding information. The environment accepts an optional argument to replace its default name (“Funding information” in English; “*Financement*” in French) by a name of your choosing.
- `\makebackmatter` Similar to `\maketitle`, the command `\makebackmatter` typesets all the back matter information at the place where it appears. The information is listed in the following order, when available: supplementary material; data sharing; acknowledgements; funding information; full ORCID iD of the authors. The latter is built automatically by the class from the information provided in the commands `\author`.

#### 4.6 Licensing

- `\licence` You may specify a licence for the manuscript with the command `\licence` (or its alias `\license`).
- `\license` We recommend that you include this command with the title and back matter information.

For articles accepted for publication in *The Canadian Journal of Statistics*, the licence statement is added by the publisher. Therefore, any licensing information provided with either the default, review or supplement options is ignored by the class.

On the other hand, for the option `nocjs`, the licence statement is displayed in the footer of the title page, right-aligned on an odd page, left-aligned on an even page. Make sure to keep the statement short, as the space is limited to a single line.

- `\ccby` You may use the commands from [Table 4](#) to identify **Creative Commons** licences in your licence statement. All commands have a starred variant (name followed by “\*”) that follows the licence icons by a matching copyright icon. See [About CC Licenses](#) for more information on Creative Commons licences and how to apply them.
- `\ccbysa`
- `\ccbync`
- `\ccbyncsa`
- `\ccbynd`
- `\ccbyncnd`



**Table 5:** Additional commands for mathematical symbols and operators defined by the class cjs-rcs-article

Command	Description	Example	Output
<code>\Pr</code>	probability	<code>\Pr[X = x]</code>	$P[X = x]$
<code>\E</code>	expected value	<code>\E[X]</code>	$E[X]$
<code>\Var</code>	variance	<code>\Var[X]</code>	$\text{var}[X]$
<code>\Cov</code>	covariance	<code>\Cov(X, Y)</code>	$\text{cov}(X, Y)$
<code>\corr</code>	correlation	<code>\corr(X, Y)</code>	$\text{corr}(X, Y)$
<code>\prdist</code>	probability distribution	<code>\prdist{N}</code>	$\mathcal{N}$
<code>\mat</code>	matrix or vector	<code>\mat{A}</code>	<b>A</b>
<code>\matit</code>	matrix or vector (italic)	<code>\matit{x}</code>	<b><i>x</i></b>
<code>\trsp</code>	transposition	<code>\mat{A}\trsp</code>	<b><math>A^T</math></b>
<code>\tr</code>	trace	<code>\tr(\mat{A})</code>	<b><math>\text{tr}(\mathbf{A})</math></b>
<code>\diag</code>	diagonal	<code>\diag(\mat{A})</code>	<b><math>\text{diag}(\mathbf{A})</math></b>
<code>\Nset</code>	natural numbers	<code>\Nset</code>	$\mathbb{N}$
<code>\Zset</code>	integers	<code>\Zset</code>	$\mathbb{Z}$
<code>\Qset</code>	rational numbers	<code>\Qset</code>	$\mathbb{Q}$
<code>\Rset</code>	real numbers	<code>\Rset</code>	$\mathbb{R}$
<code>\Cset</code>	complex numbers	<code>\Cset</code>	$\mathbb{C}$

For example, the licence statement that appears on the title page of this document was created with the following command:

```
\licence{\ccby*} 2025, Statistical Society of Canada {\textbar}
Société statistique du Canada}
```

#### 4.7 Mathematics

The class automatically loads the packages **amsmath**, **amsthm** and, when the document is compiled with Lua $\text{\LaTeX}$ , **unicode-math**. Note that it is not compatible with the package **amssymb**. The class also defines a number of commands and environments to standardize the typesetting of mathematical content in *The Canadian Journal of Statistics*.

Table 5 provides a summary of the additional commands defined by the class.

`\Pr`  $\text{\LaTeX}$  provides a large number of commands to typeset the most common (and many not so common) mathematical operators. In addition, use the commands `\Pr`, `\E`, `\Var`, `\Cov` and `\corr` to uniformly typeset the operators for probability<sup>4</sup>, expected value, variance, covariance, and correlation. These commands have no arguments, so it is your responsibility to provide delimiters around the operands.

`\prdist` The command `\prdist` typesets the symbol for a probability distribution. For example:

$$\begin{aligned} \text{\prdist{N}}(\mu, \sigma^2) &\rightarrow \mathcal{N}(\mu, \sigma^2) && \text{(Normal)} \\ \text{\prdist{B}}(n, p) &\rightarrow \mathcal{B}(n, p) && \text{(Binomial)} \\ \text{\prdist{P}}(\lambda) &\rightarrow \mathcal{P}(\lambda) && \text{(Poisson)} \\ \text{\prdist{E}}(\lambda) &\rightarrow \mathcal{E}(\lambda) && \text{(Exponential)} \\ \text{\prdist{G}}(\alpha, \beta) &\rightarrow \mathcal{G}(\alpha, \beta) && \text{(Gamma)} \end{aligned}$$

`\mat` Bold in mathematics is a tricky issue. The commands `\mat` and `\matit` generate bold symbols reliably across  $\text{\TeX}$  engines. The first typesets a variable in roman bold, a style often used for matrices and vectors (hence the name of the command). With Lua $\text{\LaTeX}$ , `\mat` also works with Greek letters, but their shape is not modified:  $\mu$ ,  $\Gamma$ . The command `\matit` explicitly typesets a variable in bold italic.

`\trsp` To indicate matrix transposition, use only the command `\trsp`.

`\tr` The commands `\tr` and `\diag` define two other common linear algebra operators, the trace and

`\diag` <sup>4</sup>The class redefines the standard command `\Pr`.

**Table 6:** Theorem-like environments defined by the class `cjs-rcs-article`. The last column refers to the styles defined by **amsthm**.

Environment	English title	French title	Style
<code>theorem</code>	Theorem	Théorème	plain
<code>lemma</code>	Lemma	Lemme	plain
<code>proposition</code>	Proposition	Proposition	plain
<code>corollary</code>	Corollary	Corollaire	plain
<code>definition</code>	Definition	Définition	definition
<code>algorithm</code>	Algorithm	Algorithme	definition
<code>remark</code>	Remark	Remarque	remark

the diagonal.

`\Nset` To ensure a uniform representation of number sets, use the class commands `\Nset`, `\Zset`, `\Zset` `\Qset`, `\Rset`, and `\Cset` to typeset the sets of natural numbers, integers, rational numbers, real `\Qset` numbers and complex numbers, respectively.

`\Rset` You may define new mathematical operators in the preamble of your document. To do so, use `\Cset` the command `\DeclareMathOperator` of **amsmath**; see Section 5 of the package documentation for more details.

Table 6 lists the theorem-like environments defined by the class. The environment `proof` defined by **amsthm** is also available. All these environments accept an optional argument to provide additional information in the heading, such as the name of the theorem or its author. Here is a brief overview of the style of the environments:

**Theorem 1.** *Text.*

**Definition 1.** *Text.*

**Lemma 1** (Famous lemma). *Text.*

**Algorithm 1.** *Text.*

**Proposition 1.** *Text.*

*Remark 1.* *Text.*

**Corollary 1.** *Text.*

*Proof.* *Text.* □

If you need to define additional theorem-like environments, use the features of **amsthm**, in particular the commands `\theoremstyle` and `\newtheorem`.

#### 4.8 Computer code and software

The class does not offer any special features to typeset listings of computer code. If you need to display code, we recommend that you take advantage of specialized packages such as **fancyvrb** or **listings**. If you use R for your statistical analysis, we suggest that you prepare the file using a literate programming system such as **Sweave** or **knitr**.

That said, the class defines a few commands to ease and standardize the display of software names and code chunks.

`\proglang` The command `\proglang` typesets the names of programming languages and software. The class also provides shortcuts for the most common cases; see Table 7.

`\pkg` The command `\pkg` typesets the names of software packages, extensions or modules.

`\code` The command `\code` typesets code chunks within the text. The command escapes the  $\LaTeX$  special characters `_`, `~` and `$`. Therefore, you may write, for example, `\code{var_name}` to get `var_name`.

#### 4.9 Appendices

`\appendix` If needed, use the standard command `\appendix` to indicate the start of the appendices. The command changes the numbering of the following sections to an alphabetic form.



**Table 7:** List of shortcuts for the names of programming languages and software.

Software	Command
R	\Rlang
SAS	\SASlang
SPSS	\SPSSlang
Stata	\Statalang
Python	\Pylang
Julia	\Julialang
C	\Clang
C++	\Cplusplus

#### 4.10 Citations and list of references

Use `BIBTEX` for citations and to generate the list of references. The class relies on the package **natbib** to manage and typeset citations.

The class uses its own bibliography styles to typeset the list of references: `cjs-rcs-en` for articles in English, and `cjs-rcs-fr` for articles in French. These styles support all the standard `BIBTEX` entry types (article, book, proceedings, etc.) and all the standard fields (author, title, journal, etc.). Furthermore, the styles introduce support for the following fields:

**doi** The Digital Object Identifier (DOI) of a resource. Enter the value only as  $\langle prefix \rangle / \langle suffix \rangle$  (for example: 10.1000/182). The styles automatically create a hyperlink to the resource.

**isbn** The International Standard Book Number (ISBN) of a book. When present, the ISBN is displayed in the list of references.

**issn** The International Standard Serial Number (ISSN) of a serial publication, such as a magazine. Although allowed in the bibliographic database, the number is not displayed in the list of references.

**language**

The language of the reference. Including this information in an entry allows to hyphenate the words in the title according to the rules of its language.

**url** A URL for the reference. If both a URL and a DOI are present in the database, the latter takes precedence.

**\bibliography** The command `\bibliography` inserts the list of references at the point where it appears. Its arguments are the root names, separated by commas, of the bibliographic databases. Use this command to generate your reference list.

#### 4.11 Writing in French

The class is also carefully configured to prepare manuscripts in French. If you are writing in this language, please read the corresponding section in the French version of the documentation for additional details.

### 5 Hyperlinks

The class loads the package **hyperref** to insert internal and external hyperlinks into the PDF. You should use the command `\autoref` to create references to labeled text elements. The class defines the English and French description labels for all sectioning levels, for figures and tables, and for all the theorem-like environments introduced in [Section 4.7](#). If you need to define a description label of a new environment  $\langle env \rangle$ , use the following command in the preamble of your document:

```
\addto\extrasenglish{\def\langle env \rangle autorefname{\langle description \rangle}}
```

(If the main language of the article is French, replace `\extrasenglish` by `\extrasfrench`.<sup>5</sup>)

<sup>5</sup>For further details, see Section 6 of the documentation of **hyperref**.

`\texorpdfstring` The package **hyperref** builds the table of contents of the PDF. If you use mathematical notation or symbols in a section title, compilation of your manuscript may either result in warnings of the form

Token not allowed in a PDF string

or halt with the error message

Improper alphabetic constant

If you positively need the notation or symbol in the title, wrap it in `\texorpdfstring`. This command takes two arguments: the notation or symbol that should appear in the document, and the replacement text for the table of contents of the PDF. For example, you would replace

```
\section{Algorithm for  $U_n$ }
```

by something along the lines of

```
\section{Algorithm for \texorpdfstring{ $U_n$ }{U[n]}}
```

You would also replace

```
\subsection{Contribution of  $\beta$ }
```

by

```
\subsection{Contribution of \texorpdfstring{ $\beta$ }{beta}}
```

or even

```
\subsection{Contribution of \texorpdfstring{ $\beta$ }{\beta}}
```

if you can enter Unicode characters on the keyboard.

## 6 Supplementary material

The supplementary material is useful for additional results or information, such as tables and figures, computer code, long mathematical proofs, etc. This material must be cited in the main article, and it is peer reviewed.

You can use `cjs-rcs-article` to prepare the supplementary material by specifying the class option `supplement`. The differences are as follows:

- a statement identifying the document as supplementary material is added before the title;
- the abstracts, keywords and mathematics subject classification are hidden;
- the space for the licence statement is replaced by a footer with the page number;
- the back matter is also hidden;
- the sections, equations, figures, etc., are numbered with a prefix “S”.

The title and back matter material may still be present in the source code. In other words, you may create the supplementary material from the same template as your main article; just add `supplement` to the class options.

The option `supplement` is compatible with the option `review` to create an anonymized version of the supplementary material suitable for peer review.

*Have fun writing!*

## A Features for the editors

The options and commands presented in this appendix should mostly be of use to the editors of *The Canadian Journal of Statistics* during the peer-reviewing phase, and for the production of the final version before publication.

**review (option)** The option `review`, already mentioned in [Section 4.3](#), typesets the anonymized version of the manuscript for peer review. Line spacing is also increased and the lines are numbered. This option is compatible with `supplement`.



If the document was successfully compiled with the option `review` and the option is later removed, you will need to either delete the `.aux` file before compiling again or compile the document at least twice.

**final (option)** The option `final`—which overrides `review`—activates checks that the publication information and article history are correctly defined. Furthermore, if licensing information is provided using the commands of [Section 4.6](#), the licence statement is displayed at the bottom of the first page. The option has no other effect on the rendering of the article.

**\jvol** The commands `\jvol`, `\jissue` and `\jyear` provide the publication information: volume,

**\jissue** number and year of the issue in which the article appears. The command `\firstpage` specifies the

**\jyear** number of the first page; the number of the last page is determined automatically. This information

**\firstpage** appears on the title page.

**\received** The commands `\received` and `\accepted` specify the revision history that is displayed at the

**\accepted** very end of the article. Their argument is a date in the [ISO 8601](#) format YYYY-MM-DD. For example:

```
\received{2025-07-24}
```

**\specialack** The command `\specialack` provides a generic interface to give special acknowledgement on the title page, such as the one required by ADNI ([Section 4.4.7](#)). The command takes two arguments:

```
\specialack{<by-line>}{<statement>}
```

The `<by-line>` is inserted in the list of authors, whereas the `<statement>` is typeset at the bottom of the title page, with the licensing information. Each argument may be empty, in which case the corresponding information is not printed. For example, the command `\ADNIacknowledgement` is effectively defined as:

```
\specialack{\CJS@adnibyline}{\CJS@adnistatement}
```

(The internal commands `\CJS@adnibyline` and `\CJS@adnistatement` typeset the official ADNI by-line and statement. The analogous commands `\CJS@admbyline` and `\CJS@admstatement` serve the same purpose for the Alzheimer's Disease Metabolomics Consortium.)

**\specialackmark** The command `\specialackmark` sets the footnote marker used by `\specialack`. The default definition of the marker is:

```
\textsuperscript{\ensuremath{*}}
```

It may happen that the title material occupies too much space (or, rarely, too little). When this happens, the editors can tweak the typesetting of the title page using the following elements.

**\titlingskip (ℓ)** The distance between the elements of the title page (from the abstracts to the corresponding author address) is `\titlingskip`. This value may be changed as usual via `\setlength`. The default value is 2.0pt plus 2.0pt minus 0.8pt.

**\fancybreaksep (ℓ)** The decorative element between the title information and the body of the article is surrounded by a vertical skip of length `\fancybreaksep`.<sup>6</sup> This value may be changed as usual via `\setlength`. The default value is 6.0pt plus 3.0pt minus 1.0pt.

**\suppressfancybreak** The command `\suppressfancybreak` suppresses the decorative element between the title information and the body of the article. This will be useful if it appears at the bottom of the title

<sup>6</sup>The terminology *fancy break* is taken from memoir.

page or the top of the subsequent page. The command must appear *before* `\maketitle`. For the sake of symmetry, the class also provides the command `\showfancybreak` to force the display of the decorative element, although this is the default behaviour.

## B Implementation

This appendix describes the  $\text{\TeX}$  and  $\text{\LaTeX}$  code of the class. It is likely to be of interest only to experts, bug hunters or casual readers curious to know how the class is implemented.

### B.1 Class setup

#### B.1.1 Boolean values

We start by defining the boolean values needed throughout the class. In the sequel, the booleans `\ifCJS@nocjs` and `\ifCJS@journalinfo` will be used as negation of one another.

```
1%<*class>
2\newif\ifCJS@review      \CJS@reviewfalse      % review version?
3\newif\ifCJS@supplement  \CJS@supplementfalse  % supplementary material?
4\newif\ifCJS@nocjs       \CJS@nocjsfalse       % not a CJS article?
5\newif\ifCJS@final       \CJS@finalfalse       % final version?
6\newif\ifCJS@titlingfooter \CJS@titlingfooterfalse % footer on title page?
7\newif\ifCJS@journalinfo \CJS@journalinfotru  % display journal info?
8\newif\ifCJS@specialack  \CJS@specialackfalse  % special acknowledgement?
9\newif\ifCJS@fancybreak  \CJS@fancybreaktrue   % display fancy break?
10\newif\ifCJS@history     \CJS@historyfalse    % history present?
11\newif\ifCJS@corrauth    \CJS@corrauthfalse   % corresponding author?
12\newif\ifCJS@newauth     \CJS@newauthtrue    % internal; author blocks
```

#### B.1.2 Options

The class features options for authors and some others targeted more specifically to editors.

**review (option)** The class option `review` composes an anonymized version of the article (or the supplementary material) suitable for revision by external referees. It uses a standard footer on the title page.

```
13\DeclareOption{review}{%
14 \CJS@reviewtrue
15 \CJS@titlingfootertrue}
```

**supplement (option)** The class option `supplement` enables authors to use the class to prepare the supplementary material to the article. It uses a standard footer on the title page.

```
16\DeclareOption{supplement}{%
17 \CJS@supplementtrue
18 \CJS@titlingfootertrue}
```

**nocjs (option)** The class option `nocjs` is a convenience feature for authors who wish to use the class for something else than an article in *The Canadian Journal of Statistics*. It hides any journal-specific information from the manuscript. It also uses a standard footer on the title page.

```
19\DeclareOption{nocjs}{%
20 \CJS@nocjstrue
21 \CJS@titlingfootertrue
22 \CJS@journalinfofalse}
```

**final (option)** The class option `final` activates sanity checks for the preparation of the final copy of the article, and the display of the licence statement on the title page (when available). The option takes precedence over `review`.

```
23\DeclareOption{final}{%
24 \CJS@finaltrue
25 \CJS@reviewfalse}
```

### B.1.3 Underlying document class

The class `cjs-rcs-article` is based on `memoir`. We force the options `letterpaper`, `10pt`, `article` and `twoside`.

```
26 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{memoir}}
27 \ProcessOptions\relax
28 \LoadClass[letterpaper,10pt,article,twoside]{memoir}
```

### B.1.4 Required packages

The class tries to load as few packages as possible to avoid conflicts. Yet, some are required for standard features of a mathematics oriented journal, or else for internal processing. Useful packages like **iftex** and **etoolbox** are already loaded by `memoir`.

We rely on **natbib** for author-year citations. This package must be loaded before **babel**. The option `sectionbib` ensures that the bibliography (or list of references) is typeset as a section, rather than as a chapter.

```
29 \RequirePackage[round,semicolon,authoryear,sectionbib]{natbib}
```

Articles in *The Canadian Journal of Statistics* contain at least two languages, English and French, for the abstracts. Multilingual support is provided by **babel**. The languages are declared with `\documentclass` in the article source file. The package **numprint** prints numbers with a separator every three digits and convert numbers in scientific notation. The package alters its behaviour with the active language declared to **babel**. The option `np` activates the convenient shortcut `\np` for the command `\numprint`.

```
30 \RequirePackage{babel}
31 \RequirePackage[autolanguage,np]{numprint}
```

The required packages **bookmark** and **hyperref** must usually be loaded very last. To achieve this within the class, the packages are loaded with the **etoolbox** command `\AtEndPreamble`. Since they require **hyperref** to be loaded, it is also at this point that we define the English and French contextual labels for `\autoref` for all elements defined by the class.

```
32 \AtEndPreamble{%
33   \RequirePackage{bookmark}      % loads hyperref
34   \hypersetup{%
35     colorlinks = true,
36     urlcolor = {CJSurl},
37     linkcolor = {CJSlink},
38     citecolor = {CJScitation}}
39   \bookmarksetup{%
40     open = true,
41     depth = 3,
42     numbered = true}
43   \addto\extrasenglish{%
44     \def\sectionautorefname{Section}%
45     \def\subsectionautorefname{Section}%
46     \def\subsubsectionautorefname{Section}%
47     \def\figureautorefname{Figure}%
48     \def\tableautorefname{Table}%
49     \def\theoremautorefname{Theorem}%
50     \def\lemmaautorefname{Lemma}%
51     \def\propositionautorefname{Proposition}%
52     \def\corollaryautorefname{Corollary}%
53     \def\definitionautorefname{Definition}%
54     \def\algorithmautorefname{Algorithm}%
55     \def\remarkautorefname{Remark}}
56   \addto\extrasfrench{%
57     \def\sectionautorefname{section}%
58     \def\subsectionautorefname{section}%
59     \def\subsubsectionautorefname{section}%
60     \def\figureautorefname{figure}%
```

```

61 \def\tableautorefname{tableau}%
62 \def\theoremautorefname{théorème}%
63 \def\lemmaautorefname{lemme}%
64 \def\propositionautorefname{proposition}%
65 \def\corollaryautorefname{corollaire}%
66 \def\definitionautorefname{définition}%
67 \def\algorithmautorefname{algorithme}%
68 \def\remarkautorefname{remarque}}

```

The next set of packages are mostly for internal purposes: **keyval** provides the key-value interface used for `\author`; **enumitem** and **environ** help to define new environments for the titling information; **datetime2** is used to store and format dates from the article history; **xcolor** provides  $\TeX$  extensions to colourize text; **paracol** and **ragged2e** are used to typeset the abstracts in columns, ragged right and with proper hyphenation; **url** is a fairly standard package to enter an URL or email address, used at least here for the corresponding author email; **relsize** provides commands to set font sizes relatives to the current size, like `\smaller` or `\larger`; **fontawesome5** provides a number of symbols, including the ORCID logo and the Creative Commons licence icons.

```

69 \RequirePackage{keyval}
70 \RequirePackage[shortlabels]{enumitem}
71 \RequirePackage{environ}
72 \RequirePackage[userregional,french,en-GB]{datetime2}
73 \RequirePackage{xcolor}
74 \RequirePackage{paracol}
75 \RequirePackage{ragged2e}
76 \RequirePackage{url}
77 \RequirePackage{relsize}
78 \RequirePackage{fontawesome5}

```

The **graphicx** package is not directly used by the class, but many authors may need it to display graphics and images, so we load it by default.

```
79 \RequirePackage{graphicx}
```

The **amsmath** and **amsthm** packages are standard requirements for mathematics papers. They are used in the class to define new commands for mathematical symbols and theorem-like environments.

```

80 \RequirePackage{amsmath}
81 \RequirePackage{amsthm}

```

Finally, **lineno** is loaded to number lines with option `review`.

```

82 \ifCJS@review
83 \RequirePackage{lineno}
84 \linenumbers
85 \fi

```

Note that some additional packages related to font management are loaded in [Section B.2.1](#).

### B.1.5 Incompatible package

The package **geometry** is incompatible with **memoir** and should not be used in the first place to change the document layout. We issue an error message if users load it in their article.

```

86 \AtBeginDocument{%
87 \@ifpackageloaded{geometry}{%
88 \ClassError{cjs-rcs-article}%
89 {Package geometry is incompatible with this class}%
90 {You should not change the page layout.\MessageBreak%
91 If absolutely needed, use the memoir class facilities.}}{\relax}}

```

## B.2 Document layout

The document layout of the class is inspired by the layout of the newspaper *Le Devoir* designed by Lucie Lacava in 2018.



### B.2.1 Fonts and character encoding

The class uses special fonts for the main text and mathematics, for decorative text (section titles, headers and such), and for text set in monospace (like computer code). The class also imposes Unicode UTF-8 character encoding for the source files.

We need two sets of commands to load the main document fonts depending on the engine used. For the modern engines Lua $\TeX$  and Xe $\TeX$ , commands from **fontspec** and **unicode-math** load the OpenType variants of the fonts. The encoding is UTF-8 by default for these engines.

```

92 \iftutex
93 \RequirePackage[babel=true]{microtype}
94 \RequirePackage{fontspec}
95 \RequirePackage{unicode-math}
96 \setmainfont{STIXTwoText}
97 [
98   Extension = .otf,
99   UprightFont = *-Regular,
100   BoldFont = *-SemiBold,
101   ItalicFont = *-Italic,
102   BoldItalicFont = *-SemiBoldItalic,
103   Scale = 1,
104   Ligatures = TeX
105 ]
106 \setmathfont{STIXTwoMath-Regular}
107 [
108   Extension = .otf,
109   Scale = 1,
110   bold-style = TeX
111 ]
112 \setmathfont{FiraMath-Regular}
113 [
114   version = titles,
115   Extension = .otf,
116   Scale = 0.92
117 ]

```

For the traditional engine pdf $\TeX$ , we need to rely on ancillary packages and the Type 1 variants of the fonts. These are no longer updated, in contrast to their OpenType counterparts. Furthermore, the Type 1 variant of STIX Two does not contain the semibold weight.

```

118 \else
119 \RequirePackage[babel=true]{microtype}
120 \RequirePackage[utf8]{inputenc}
121 \RequirePackage[T1]{fontenc}
122 \RequirePackage{stix2}
123 \fi

```

For the sans serif font, the packages **FiraSans** and **FiraMono** provide a unified interface for the OpenType and Type 1 versions of the fonts.

```

124 \RequirePackage[book,medium,proportional,lining,scale=0.92]{FiraSans}
125 \RequirePackage[medium,lining,scale=0.90]{FiraMono}

```


With option `review`, we redefine the font for the line numbers and position them closer to the left margin (default is 10 pt) to avoid overlap in abstracts.

```

126 \ifCJS@review
127 \renewcommand*\linenumberfont{\normalfont\firalinings\tiny}
128 \setlength\linenumbersep{5pt}
129 \fi

```

### B.2.2 Colours

We define some colours used by the class. First, the three main colours of *The Canadian Journal of Statistics* logo, hand-picked from the SVG code of the latter: .

```

130 \definecolor{CJSpink}{HTML}{E3038B}
131 \definecolor{CJSred}{HTML}{D10000}
132 \definecolor{CJSyellow}{HTML}{FEC70D}


```

Next, the colours for the hyperlinks (inspired by **classicthesis**):  for internal links;  for external links;  for citations.

```

133 \definecolor{CJSlink}{rgb}{0,0.4,0.6} % internal links
134 \definecolor{CJSurl}{rgb}{0.6,0,0} % external links
135 \definecolor{CJScitation}{rgb}{0,0.5,0} % citations

```

Finally, the colour of the **ORCID icon**: .

```

136 \definecolor{CJSorcid}{HTML}{A6CE39}

```

### B.2.3 Page size and margins

The page size was set to letter paper in the options passed to memoir. We use the very nice commands of memoir to set the margins. Their size is determined such that the typeblock has a height to width aspect ratio of approximately  $\sqrt{2}:1$ , the same as **ISO A series** paper.

```

137 \setlrmarginsandblock{24mm}{30mm}{*}
138 \setulmarginsandblock{24mm}{26mm}{*}
139 \setheadfoot{13.5pt}{9mm}
140 \checkandfixthelayout[nearest]

```

### B.2.4 Journal name and publication information

The title page starts with the journal name and publication information set next to a decorative element (called “ornament” in the code).

First, define macros containing the English and French names of the journal, and another one that displays both.

```

141 \def\CJS@journalname@en{The Canadian Journal of Statistics}
142 \def\CJS@journalname@fr{La revue canadienne de statistique}
143 \def\CJS@journalname{\CJS@journalname@en~{\textbar}~\CJS@journalname@fr}

```

The decorative element is created using plain T<sub>E</sub>X rules. Its height and depth are identical to the journal information.

```

144 \newsavebox\CJS@journalornament
145 \setbox\CJS@journalornament=\vbox{%
146   \setbox\z@=\vbox{\sffamily\hbox{\CJS@journalname}\hbox{\bfseries V,}}
147   \setbox\tw@=\hbox{\vrule \@width4pt\@height\ht\z@\@depth\dp\z@}
148   \hbox{\textcolor{CJSpink}{\copy\tw@}\kern2pt
149         \textcolor{CJSred}{\copy\tw@}\kern2pt
150         \textcolor{CJSyellow}{\copy\tw@}\kern6pt}}

```

`\makejournalinfo` The command `\makejournalinfo` puts the journal information together. The actual information is provided through the editor commands defined in [Section B.11](#). Although a visible command, `\makejournalinfo` is actually called by `\maketitle`.

```

151 \newcommand*\makejournalinfo{%
152   \mbox{%
153     \box\CJS@journalornament
154     \vbox{%
155       \sffamily
156       \hbox{\CJS@journalname}
157       \hbox{\bfseries Vol.~\CJS@vol, %
158             No.~\CJS@issue, %
159             \CJS@year, %
160             \CJS@firstpage--\thelastpage}}}}

```

### B.2.5 Headers and footers

We need to define headers and footers for the internal pages, and specific ones for the title page. They are built from scratch using tabular environments.

First, a command to set the font.

```
161 \def\CJS@setheadfootfont{%
162   \fira\lining\fontsize{9}{13}\selectfont}
```

Next, a command to draw the vertical rule that will be used as a separator between the header or footer content and the page folio.

```
163 \newlength\CJS@headdivheight
164 \settoheight\CJS@headdivheight{\CJS@setheadfootfont 1}
165 \setlength\CJS@headdivheight{0.9\CJS@headdivheight}
166 \def\CJS@headdivrule{%
167   \rule[0.05\CJS@headdivheight]{0.75\normalrulethickness}{\CJS@headdivheight}}
```

Now, the page style `cjs` for the internal pages. The even header contains the names of the authors flush left. The odd header contains the article title (short version, if appropriate) flush right.

```
168 \newlength\CJS@pagenumwidth
169 \settowidth\CJS@pagenumwidth{9\quad}
170 \makepagestyle{cjs}
171 \makeevenhead{cjs}{%
172   \CJS@setheadfootfont
173   \begin{tabular*}{\textwidth}%
174     {\@{p{\CJS@pagenumwidth}\CJS@headdivrule\quad}\@{\extracolsep\fill}}
175     \thepage & \ifCJS@review\else\MakeTextUppercase{\CJS@runningauthor}\fi \\ \hline
176   \end{tabular*}}{}{}
177 \makeoddhead{cjs}{{}{}%
178   \CJS@setheadfootfont
179   \begin{tabular*}{\textwidth}%
180     {\l@{\extracolsep\fill}r@{\extracolsep{0pt}\quad\CJS@headdivrule}p{\CJS@pagenumwidth}\@{}}
181     & \MakeTextUppercase{\CJS@shorttitle} & \hfill\thepage \\ \hline
182   \end{tabular*}}
```

The footer for internal pages is empty.

```
183 \makeevenfoot{cjs}{{}{} \makeoddfoot{cjs}{{}{}}}
```

Use the `cjs` page style.

```
184 \pagestyle{cjs}
```

We need a special page style for the title page. The header of the title page is empty.

```
185 \makepagestyle{cjsfirstpage}
186 \makeevenhead{cjsfirstpage}{{}{} \makeoddhead{cjsfirstpage}{{}{}}}
```

With the `review`, `statement` and `nocjs` options, the title page features a footer with the page folio. With option `nocjs`, the footer may also contain a licence statement specified with `\licence`; see [Section B.5](#).

```
187 \ifCJS@titlingfooter
188   \makeevenfoot{cjsfirstpage}{%
189     \CJS@setheadfootfont
190     \begin{tabular*}{\textwidth}%
191       {\@{p{\CJS@pagenumwidth}\CJS@headdivrule\quad}\@{\extracolsep\fill}}
192       \hline \thepage &
193       \ifCJS@nocjs\CJS@licence\fi
194     \end{tabular*}}{}{}
195 \makeoddfoot{cjsfirstpage}{{}{}%
196   \CJS@setheadfootfont
197   \begin{tabular*}{\textwidth}%
198     {\l@{\extracolsep\fill}r@{\extracolsep{0pt}\quad\CJS@headdivrule}p{\CJS@pagenumwidth}\@{}}
199     \hline &
200     \ifCJS@nocjs\CJS@licence\fi &
201     \hfill\thepage
202   \end{tabular*}}
203 \fi
```

### B.2.6 Section titles

The memoir class assumes that sectioning starts at the chapter level—even with the `article` option. To get around this requirement, we disable the effect of `\chapter`. A desirable side effect is to make `\autoref` work correctly for appendices.

```
204 \let\chapter\relax
205 \counterwithout{section}{chapter}
```

The class uses a numbering system of at most three levels.

```
206 \setsecnumdepth{subsubsection}
207 \maxsecnumdepth{subsubsection}
```

We then define the style of section titles from level `\section` down to `\subparagraph`. With the  $\text{\LaTeX}$  and  $\text{\XeTeX}$  engines, we make sure to use a matching font for mathematics in case some appear in the titles.

```
208 \iftutex
209   \setsecheadstyle{\normalfont\Large\sffamily\mathversion{titles}\bfseries\raggedright}
210   \setsubsecheadstyle{\normalfont\large\sffamily\mathversion{titles}\bfseries\raggedright}
211   \setsubsubsecheadstyle{\normalfont\sffamily\mathversion{titles}\bfseries\raggedright}
212   \setparaheadstyle{\normalfont\sffamily\mathversion{titles}\bfseries}
213   \setsubparaheadstyle{\normalfont\mathversion{titles}\bfseries}
214 \else
215   \setsecheadstyle{\normalfont\Large\sffamily\bfseries\raggedright}
216   \setsubsecheadstyle{\normalfont\large\sffamily\bfseries\raggedright}
217   \setsubsubsecheadstyle{\normalfont\sffamily\bfseries\raggedright}
218   \setparaheadstyle{\normalfont\sffamily\bfseries}
219   \setsubparaheadstyle{\normalfont\bfseries}
220 \fi
221 \setbeforesecskip{-1.75ex plus -0.5ex minus -0.1ex}
222 \setaftersecskip{1.2ex plus 0.1ex}
223 \setbeforesubsecskip{-1.5ex plus -0.5ex minus -0.1ex}
224 \setaftersubsecskip{0.75ex plus 0.1ex}
225 \setbeforesubsubsecskip{-1.5ex plus -0.5ex minus -0.1ex}
226 \setaftersubsubsecskip{0.75ex plus 0.1ex}
227 \setbeforeparaskip{0pt}
228 \setafterparaskip{-0.5em}
229 \setbeforesubparaskip{0pt}
230 \setaftersubparaskip{-0.25em}
```

### B.2.7 Line spacing

With option `review`, line spacing is increased using the command `\OnehalfSpacing` of memoir.

```
231 \ifCJS@review
232   \OnehalfSpacing
233 \fi
```

### B.2.8 Captions

The caption name for tables and figures is typeset in bold.

```
234 \captionnamefont{\bfseries}
```

### B.2.9 Configuration for French

We change some of the defaults of **babel-french** and allow French opening and closing quotes (« ») to be entered directly with the keyboard.

```
235 \frenchsetup{%
236   SmallCapsFigTabCaptions=false,
237   ThinSpaceInFrenchNumbers=true,
238   og=«, fg=»}
239 \renewcommand*\frenchtablename{Tableau}
240 \renewcommand*\frenchfigurename{Figure}
```

### B.3 Titling material

Before we dive into the definition of the commands to enter titling information, we first define the various lengths that will be needed to position the elements on the title page.

`\journalinfoskip` ( $\ell$ ) The length `\journalinfoskip` holds the distance between the top of the typeblock and the journal information.

```
241 \newlength\journalinfoskip
242 \setlength\journalinfoskip{-4ex}
```

`\maintitleskip` ( $\ell$ ) The length `\maintitleskip` holds the distance between the journal information and the start of the main title area.

```
243 \newlength\maintitleskip
244 \setlength\maintitleskip{6ex}
```

`\supptitleskip` ( $\ell$ ) The length `\supptitleskip` holds the distance between the supplementary material statement and the main title of the article.

```
245 \newlength\supptitleskip
246 \setlength\supptitleskip{2ex}
```

`\authorskip` ( $\ell$ ) The length `\authorskip` holds the distance between the main title and the author block.

```
247 \newlength\authorskip
248 \setlength\authorskip{5ex}
```

`\titlingskip` ( $\ell$ ) The length `\titlingskip` holds the distance between the other elements of the title page, that is, from the abstract to the corresponding author.

```
249 \newlength\titlingskip
250 \setlength\titlingskip{2pt plus2pt minus0.8pt}
```

`\fancybreaksep` ( $\ell$ ) The length `\fancybreaksep` holds the distance between the fancy break and the surrounding text.

```
251 \newlength\fancybreaksep
252 \setlength\fancybreaksep{6pt plus3pt minus1pt}
```

#### B.3.1 Article title

The main title area is composed of two elements: the statement that the document is supplementary material to an article when the option `supplement` is specified, and the main title of the article.

`\supplementfont` The public command `\supplementfont` defines the font of the supplementary material title.

```
253 \def\CJS@supptitlename@en{supplementary material for the article}
254 \def\CJS@supptitlename@fr{matériel additionnel pour l'article}
255 \newcommand*\supplementfont{\normalfont\Large\scshape}
```

`\maintitlefont` The public command `\maintitlefont` defines the font of the main title.

```
256 \newcommand*\maintitlefont{\raggedright\normalfont\huge\bfseries}
```

`\title` The implementation of `\title`, copied from `amsart.cls`, allows an optional argument to provide the short title that is displayed in the running head.

```
257 \renewcommand*\title[2][\gdef\CJS@shorttitle{#1}\gdef\@title{#2}]
258 \edef\titlen{\@nx\@dblarg
259 \@xp\@nx\csname\string\title\endcsname}
```

### B.3.2 Author and affiliation information

The mechanism to enter the author and affiliation information is inspired from **authblk**, but the implementation is rewritten more legibly using the tools from **etoolbox**.

`\authfont` First, we define two public commands to control the visual style of author names and affiliations, respectively.

```
260 \newcommand*\authfont{\normalfont\sffamily\bfseries\color{black}}
261 \newcommand*\affilfont{\normalfont\sffamily\color{gray}}
```

`\affilsep` ( $\ell$ ) Next, we define (and initialize) two lengths holding the space between the author identification and the affiliation, and between author blocks.

```
262 \newlength\affilsep \setlength\affilsep{\z@}
263 \newlength\authsep \setlength\authsep{1ex}
```

`\author` We can now define a new version of `\author` that will inject the author names into `\@author`, along with styling instructions and the appropriate separator between the author blocks (none before the first author, a space `\authsep` between the following ones).

The command also allows collection of the ORCID iD, email address and corresponding author status through a now fairly standard key-value interface.

```
264 \define@key{author}{orcid}{\def\CJS@orcid{#1}}
265 \define@key{author}{email}{\def\CJS@email{#1}}
266 \define@key{author}{corresponding}[true]{%
267   \csname if#1\endcsname \CJS@corrauthtrue\fi}
268 \def\CJS@corrauthname@en{Corresponding author}
269 \def\CJS@corrauthname@fr{Auteur correspondant}
270 \newcommand*\CJS@corrauth{}
271 \newcommand*\CJS@orcidlist{}
272 \newcommand*\CJS@orcidname{ORCID}
273 \newcommand*\CJS@authsep{, }
274 \newcommand*\CJS@orcid@and{}
275 \newcommand*\CJS@blk@and{\protect\authfont}
276 \newcommand*\CJS@pand{\protect\[\authsep] \protect\authfont}
277 \renewcommand\author{%
278   \new@ifnextchar[{\author@}%
279     {\author@[]}}
280 \newcommand*\author@{}
281 \def\author@[#1]#2{%
282   \begingroup
283     \setkeys{author}{#1}
284     \let\protect\@unexpandable@protect
285     \ifCJS@newauth
286       \xappto\@author{\CJS@blk@and#2}
287     \else
288       \xappto\@author{\CJS@authsep#2}
289     \fi
290     \ifCJS@corrauth
291       \ifundef{\CJS@email}{\relax}{%
292         \protected@xdef\CJS@corrauth{\protect\url{\CJS@email}}
293         \xappto\@author{\;%
294           \protect\href{mailto:\CJS@email}{\corrauthmark}}
295       \fi
296       \ifundef{\CJS@orcid}{\relax}{%
297         \xappto\@author{\;%
298           \protect\href{https://orcid.org/\CJS@orcid}%
299             {\textcolor{CJSorcid}{\fa0rcid}}}
300         \xappto\CJS@orcidlist{\CJS@orcid@and#2: %
301           \protect\href{https://orcid.org/\CJS@orcid}%
302             {\textcolor{CJSorcid}{\fa0rcid}}\, \protect\url{https://orcid.org/\CJS@orcid}}}
```



```

303 \gdef\CJS@orcid@and{\protect\\}
304 \endgroup
305 \CJS@newauthfalse
306 }

```

`\affil` We immediately define the command `\affil` since it works in tandem with `\author`. The command provides an affiliation for the author previously mentioned in `\author`. Note how the separator `\CJS@blk@and` is redefined here.

```

307 \newcommand*\affil[1]{%
308 \CJS@newauthtrue
309 \let\CJS@blk@and\CJS@pand
310 \begingroup
311 \let\protect\@unexpandable@protect
312 \gappto\@author{\protect\\[\affilsep]\protect\affilfont #1}
313 \endgroup
314 }

```

`\surname` The command `\surname` defines the styling of the surname (using `\CJS@printsurname`), but also collects the surnames in the `\CJS@runningauthor` macro with the appropriate separators. This will be printed in the running head.

The command `\surname` is expanded by `\maketitle`. We need to take into account that `\runningauthors` (see below) may be used in the document, in which case the command should not collect the surnames in `\CJS@runningauthor`. When `\runningauthors` is used, `\CJS@runningauthor` is not empty when `\maketitle` is expanded and, therefore, `\CJS@runningauthor@and` is never defined by `\surname`. Hence the test with `\ifvoiddef` in the “false” branch of `\ifdefempty`.

```

315 \newcommand*\CJS@runningauthor{}
316 \newcommand*\CJS@printsurname[1]{\MakeTextUppercase{#1}}
317 \newrobustcmd{\surname}[1]{%
318 \ifdefempty{\CJS@runningauthor}{%
319 \def\CJS@runningauthor@{#1}%
320 \edef\CJS@runningauthor@and{\iflanguage{french}{ et }}{ and }}%
321 \gappto\CJS@runningauthor{#1}}%
322 \ifdefvoid{\CJS@runningauthor@and}{\relax}{%
323 \global\let\CJS@runningauthor\CJS@runningauthor@
324 \appto\CJS@runningauthor{, #1}%
325 \xappto\CJS@runningauthor{\CJS@runningauthor@and#1}%
326 \edef\CJS@runningauthor@and{\iflanguage{french}{ et }}{, and }}}%
327 \CJS@printsurname{#1}%
328 }

```

`\corrauthmark` The command `\corrauthmark` contains the marker that is used as a hyperlink next to the name of the corresponding author, and as the mark next to the titling information.

```

329 \newcommand*\corrauthmark{\small\faAt}

```

`\runningauthor` The command `\runningauthors` may be used to provide an alternative (shorter) version of the author names for the running head.

```

330 \newcommand*\runningauthor[1]{\renewcommand*\CJS@runningauthor{#1}}

```

Finally, we need to reset `\@author` to avoid No `\author` given warnings.

```

331 \def\@author{}

```

### B.3.3 Abstracts

`englishabstract (env.)` The environments for the English and French abstracts are defined using the facilities of the package **environ**. They each merely collect their body into a macro whose content is later typeset by `\maketitle`.

```

332 \def\CJS@englishabstract{}
333 \def\CJS@frenchabstract{}
334 \NewEnviron{englishabstract}{\global\let\CJS@englishabstract\BODY}
335 \NewEnviron{frenchabstract}{\global\let\CJS@frenchabstract\BODY}

```

### B.3.4 Keywords

`keywords (env.)` The treatment of keywords involves two environments. The first, `keywords`, is the visible one that collects the information into a macro. The second, `CJS@keywordslist`, is the (inline) environment based on `itemize` that actually typesets the information inside `\maketitle`. (The command `\newlist` comes from `enumitem`.)

```

336 \def\CJS@keywords{}
337 \def\CJS@keywordsname@en{Keywords}
338 \def\CJS@keywordsname@fr{Mots-clés}
339 \NewEnviron{keywords}{\global\let\CJS@keywords\BODY}
340 \newlist{CJS@keywordslist}{itemize*}{1}
341 \setlist[CJS@keywordslist]{%
342   mode=unboxed,
343   label={},
344   afterlabel={},
345   itemjoin={; },
346   after={.}
347 }
```

### B.3.5 Mathematics subject classification

`classification (env.)` The implementation of the environment `environment` is similar to `keywords`, the main difference being that this environment has an optional argument with a default value stored in the macro `\CJS@defclassifname`.

```

348 \def\CJS@classif{}
349 \def\CJS@classifname{}
350 \def\CJS@defclassifname{MSC2020}
351 \NewEnviron{classification}[1]{%
352   \CJS@defclassifname}%
353   \global\def\CJS@classifname{#1}
354   \global\let\CJS@classif\BODY}
355 \newlist{CJS@classiflist}{itemize*}{1}
356 \setlist[CJS@classiflist]{%
357   mode=unboxed,
358   itemjoin={; },
359   after={.}
360 }
```

### B.3.6 Fancy break

`\pfbreakdisplay` The fancy break is the three-rule separator between the titling information and the body of the paper. Using the facilities of `memoir`, we simply redefine the command `\pfbreakdisplay`.

```

361 \renewcommand\pfbreakdisplay{%
362   \vskip\fancybreaksep\par%
363   \rule[\z@]{\linewidth}{\normalrulethickness}\hskip-\linewidth
364   \rule[4\normalrulethickness]{\linewidth}{\normalrulethickness}\hskip-\linewidth
365   \rule[8\normalrulethickness]{\linewidth}{\normalrulethickness}\par%
366   \vskip\fancybreaksep}
```

`\suppressfancybreak` The command `\suppressfancybreak` allows suppression of the fancy break should it appear at the very bottom of the title page or at the very top of the second page. The converse `\showfancybreak` forces display, although it should not be needed as it is the default behaviour of the class.

```

367 \newcommand*\suppressfancybreak{\CJS@fancybreakfalse}
368 \newcommand*\showfancybreak{\CJS@fancybreaktrue}
```

### B.3.7 Typesetting of the titling material

`\maketitle` The command `\maketitle` typesets the titling material. Single spacing is turned on, top floats are suppressed from the title page (we still need bottom floats for the licence statement; see below), and paragraph spacing and indentation is set to zero.

```

369 \renewcommand\maketitle{%
370   \SingleSpacing
371   \suppressfloats[t]
372   \setlength\parskip{\z@}
373   \setlength\parindent{\z@}
374   \setcounter{page}{\CJS@firstpage}
375   \thispagestyle{cjsfirstpage}

```

The decorative element and journal information is hidden with option `nocjs`.

```

376   \ifCJS@journalinfo
377     \vspace*{\journalinfoskip}
378     \makejournalinfo\par
379   \fi
380   \vspace*{\maintitleskip}

```

We need to know the height of the supplementary material statement to replace it by a strut for regular articles.

```

381   \setbox\z@=\vbox{\supplementfont%
382     \iflanguage{french}{\CJS@supptitlename@fr}{\CJS@supptitlename@en}}
383   \ifCJS@supplement
384     \box\z@\par
385   \else
386     \rule{\z@}{\dimexpr\ht\z@\par % strut
387   \fi
388   \vskip\supptitleskip
389   \begin{minipage}{0.9\textwidth}
390     \maintitlefont\@title\par
391   \end{minipage}
392   \vskip\authorskip

```

The author block is displayed when the option `review` is not specified.

```

393   \ifCJS@review\else
394     \hrulefill
395     \vskip\belowrulesep
396     \begin{minipage}{0.9\textwidth}
397       \@author
398     \end{minipage}\par
399     \vskip\aboverulesep
400     \hrulefill\par
401   \fi

```

The rest of the titling material, except the corresponding author address, is hidden with option `supplement`.

```

402   \ifCJS@supplement\else
403     \vskip2\titlingskip

```

The abstracts are positioned automatically depending on the main language of the article.

```

404   \begin{paracol}{2}
405     \RaggedRight
406     \switchcolumn[\iflanguage{english}{0}{1}]
407     \begingroup
408       \selectlanguage{english}\paragraph{\abstractname}\CJS@englishabstract
409     \endgroup
410     \switchcolumn[\iflanguage{french}{0}{1}]
411     \begingroup
412       \selectlanguage{french}\paragraph{\abstractname}\CJS@frenchabstract
413     \endgroup
414   \end{paracol}\par

```

Start a group for the keywords and subject classification that are typeset ragged right.

```

415   \begingroup
416   \sloppy\RaggedRight

```

```

417 \ifdefempty{\CJS@keywords}{\relax}{%
418 \vskip\titlingskip
419 \paragraph{\iflanguage{french}{\CJS@keywordsname@fr}{\CJS@keywordsname@en}}
420 \begin{CJS@keywordslist}
421 \CJS@keywords
422 \end{CJS@keywordslist}\par}
423 \vskip\titlingskip

```

The subject classification block is always shown, just with an empty content if the information is not provided.

```

424 \paragraph{\CJS@classifname}
425 \ifdefempty{\CJS@classif}{\mbox{}}{%
426 \begin{CJS@classiflist}
427 \CJS@classif
428 \end{CJS@classiflist}\par
429 \endgroup
430 \fi

```

The corresponding author address is only hidden with option review.

```

431 \unless\ifCJS@review
432 \ifdefempty{\CJS@corrauth}{\relax}{%
433 \vskip\titlingskip
434 \paragraph{\corrauthmark\;%
435 \iflanguage{french}{\CJS@corrauthname@fr}{\CJS@corrauthname@en}}
436 \CJS@corrauth\par}
437 \fi
438 \ifCJS@fancybreak
439 \fancybreak{\pfbreakdisplay}
440 \fi

```

Finally, unless overridden by a class option, allocate space for the licence statement at the bottom of the title page. By default, a notice indicates that the licence will appear here. With option final, the licence statement is displayed, if provided.

```

441 \unless\ifCJS@titlingfooter
442 \CJS@measurelicence
443 \setlength\textfloatsep{0pt}
444 \def\CJS@notice{%
445 \iflanguage{french}{Futur emplacement de la déclaration de licence.}%
446 {Licence statement to appear here.}}
447 \begin{figure}[!b]
448 \raisebox{0pt}[0pt][\dimexpr\CJS@licenceht-\footskip\relax]{%
449 \vbox{%
450 \CJS@setlicencefont
451 \rule{\textwidth}{\normalrulethickness}
452 \parbox[t][\CJS@licenceht][t]{\textwidth}{%
453 \ifCJS@specialack\CJS@specialackstatement\fi
454 \ifCJS@final\CJS@licence \else\textit\CJS@notice \fi}}}
455 \end{figure}
456 \fi
457 }}

```

### B.3.8 ADNI data use agreement

`\ADNIacknowledgement` The commands `\ADNIacknowledgement` and `\ADMCacknowledgement` automatically create special acknowledgements for the Alzheimer's Disease Neuroimaging Initiative (ADNI) and the Alzheimer's Disease Metabolomics Consortium (ADMC), respectively.

```

458 \newcommand*\CJS@adniheadline{for the Alzheimer's Disease Neuroimaging Initiative}
459 \newcommand*\CJS@adnistatement{%
460 Data used in preparation of this article were obtained
461 from the \href{https://adni.loni.usc.edu}{Alzheimer's Disease Neuroimaging Initiative}
462 (ADNI) database. As such, the investigators within the ADNI

```

```

463 contributed to the design and implementation of ADNI and/or provided
464 data but did not participate in the analysis or writing of this
465 report. A complete listing of ADNI investigators can be found at:
466 \url{https://adni.loni.usc.edu/wp-content/uploads/how_to_apply/ADNI_Acknowledgement_List.pdf}.}
467 \newcommand*{\CJS@admcblyline}{for the Alzheimer's Disease Metabolomics Consortium}
468 \newcommand*{\CJS@admcstatement}{%
469 Data used in preparation of this article were generated by the
470 Alzheimer's Disease Metabolomics Consortium (ADMC). As such, the
471 investigators within the ADMC provided data but did not participate
472 in analysis or writing of this report. A complete listing of ADMC
473 investigators can be found at:
474 \url{https://sites.duke.edu/adnimetab/team/}.}
475 \newcommand*{\ADNIacknowledgement}{%
476 \specialack{\CJS@adnibyline}{\CJS@adnistatement}}
477 \newcommand*{\ADMCacknowledgement}{%
478 \renewcommand*{\CJS@specialackmark{\textsuperscript{\ensuremath{**}}}}
479 \specialack{\CJS@admcblyline}{\CJS@admcstatement}}

```

## B.4 Back matter

Perhaps a word is in order to explain the presence of the back matter environments in the class. The funding information started its life on the title page. It was therefore natural to provide an environment funding along with the environments keywords and classification.

It was later decided to move this information at the end of the article, where space is less at a premium. We could have just included the appropriate sectioning commands in the templates, but it turned out that providing a command `\makebackmatter` proved useful to impose the order of the back matter and, furthermore, to display the full ORCID iDs, when available. The other environments of this section followed.

`supplement (env.)` The environments `supplement` and `sharing` only collect their contents into macros.

```

sharing (env.) 480 \def\CJS@supplement{}
481 \def\CJS@supplementname@en{Supplementary material}
482 \def\CJS@supplementname@fr{Matériel additionnel}
483 \NewEnviron{supplement}{\global\let\CJS@supplement\BODY}

484 \def\CJS@sharing{}
485 \def\CJS@sharingname@en{Data sharing}
486 \def\CJS@sharingname@fr{Partage des données}
487 \NewEnviron{sharing}{\global\let\CJS@sharing\BODY}

```

`acknowledgements (env.)` The environments `acknowledgements` (or its alias `acknowledgments`) and `funding` are very similar, except that they accept an optional argument to change the name of the information provided.

```

funding (env.) 488 \def\CJS@ack{}
489 \def\CJS@ackname@en{Acknowledgements}
490 \def\CJS@ackname@fr{Remerciements}
491 \NewEnviron{acknowledgements}{\global\let\CJS@ack\BODY}
492 \let\acknowledgments\acknowledgements
493 \let\endacknowledgments\endacknowledgements

494 \def\CJS@funding{}
495 \def\CJS@fundingname{}
496 \def\CJS@fundingname@en{Funding information}
497 \def\CJS@fundingname@fr{Financement}
498 \NewEnviron{funding}[1]{%
499 \iflanguage{french}{\CJS@fundingname@fr}{\CJS@fundingname@en}}{%
500 \global\def\CJS@fundingname{#1}
501 \global\let\CJS@funding\BODY}

```

`\makebackmatter` Similar to `\maketitle`, the command `\makebackmatter` typesets all elements of the back matter that are available at the point where it appears.

```

502 \newcommand\makebackmatter{%
503   \ifCJS@supplement\else
504     \ifdefempty{CJS@supplement}{\relax}{%
505       \section*{\iflanguage{french}{CJS@supplementname@fr}{CJS@supplementname@en}}
506       CJS@supplement}
507     \ifdefempty{CJS@sharing}{\relax}{%
508       \section*{\iflanguage{french}{CJS@sharingname@fr}{CJS@sharingname@en}}
509       CJS@sharing}
510     \ifCJS@review\else
511       \ifdefempty{CJS@ack}{\relax}{%
512         \section*{\iflanguage{french}{CJS@ackname@fr}{CJS@ackname@en}}
513         CJS@ack}
514       \ifdefempty{CJS@funding}{\relax}{%
515         \section*{CJS@fundingname}
516         CJS@funding}
517       \ifdefempty{CJS@orcidlist}{\relax}{%
518         \section*{CJS@orcidname}
519         \begin{group}
520           \let\surname\relax
521           \let\corrauth\@gobble
522           CJS@orcidlist
523         \end{group}
524       \fi
525     \fi}

```

## B.5 Licensing

The licensing information is used in two main ways by the class: either the licence statement provided by the publisher is inserted at the bottom of the title page with option `final`, or else the user provided licence statement is displayed in the footer of the title page with option `nocjs`. In all other cases the licensing information is ignored.

In order to maintain the page layout as much as possible, we leave space by default at the bottom of the title page for the future licence statement.

First, set the font for the licence statement.

```

526 \def\CJS@setlicencefont{%
527   \firalining\fontsize{8pt}{9pt}\selectfont}

```

`\CJS@measurelicence` We need to compute the required space for a licence statement and, possibly, the ADNI statement. The internal command `\CJS@measurelicence` measures the total height required using either the licence statement provided with `\licence`, or the seemingly longest version of the license statement used by the publisher. The command is used inside `\maketitle`.

```

528 \newlength\CJS@licenceht
529 \def\CJS@licencesample{%
530   {\ccbyncnd*} 2023 The Authors. The Canadian Journal of
531   Statistics~{\textbar}~La revue canadienne de statistique published
532   by Wiley Periodicals LLC on behalf of Statistical Society of
533   Canada~{\textbar}~Société statistique du Canada. This is an open
534   access article under the terms of the Creative Commons
535   Attribution-NonCommercial-NoDerivs License, which permits use and
536   distribution in any medium, provided the original work is properly
537   cited, the use is non-commercial and no modifications or adaptations
538   are made.}
539 \newsavebox\CJS@licencebox
540 \newcommand\CJS@measurelicence{%
541   \setbox\CJS@licencebox=\vbox{%
542     \CJS@setlicencefont
543     \ifCJS@specialack\CJS@specialackstatement\fi
544     \ifdefempty{CJS@licence}{CJS@licencesample}{CJS@licence}}%
545   \setlength\CJS@licenceht{\dimexpr\ht\CJS@licencebox+\dp\CJS@licencebox}}

```



`\licence` The command `\licence` (alias `\license`) specifies the licence statement for the manuscript. It may be used by the editors or the publisher to insert the statement at the bottom of the title page with option `final`. Otherwise, the statement is only displayed in the footer with option `nocjs`.

```
546 \def\CJS@licence{}
547 \newcommand\licence[1]{\renewcommand*\CJS@licence{#1}}
548 \let\license\licence
```

For convenience, we define commands to display the icons of the most common Creative Commons licences. The starred versions add the Font Awesome copyright icon © at the end. Inspired by the package **ccicons** (not used by the class since **fontawesome5** contains all the Creative Commons icons).

`\ccby` The command `\ccby` typesets the icons for the Attribution licence: © ⓘ.

```
\ccby* 549 \newcommand*\ccby{\ccbya\@ifstar{~\faCopyright[regular]}\relax}
550 \def\CJS@fakern{\kern0.1em}
551 \def\ccbya{\mbox{%
552   \faCreativeCommons\CJS@fakern
553   \faCreativeCommonsBy\CJS@fakern}}
```

`\ccbysa` The command `\ccbysa` typesets the icons for the Attribution-ShareAlike licence: © ⓘ ⓘ.

```
\ccbysa* 554 \newcommand*\ccbysa{\ccbysa\@ifstar{~\faCopyright[regular]}\relax}
555 \def\ccbysa{\mbox{%
556   \faCreativeCommons\CJS@fakern
557   \faCreativeCommonsBy\CJS@fakern
558   \faCreativeCommonsSa}}
```

`\ccbync` The command `\ccbync` typesets the icons for the Attribution-NonCommercial licence: © ⓘ Ⓗ.

```
\ccbync* 559 \newcommand*\ccbync{\ccbync\@ifstar{~\faCopyright[regular]}\relax}
560 \def\ccbync{\mbox{%
561   \faCreativeCommons\CJS@fakern
562   \faCreativeCommonsBy\CJS@fakern
563   \faCreativeCommonsNc}}
```

`\ccbyncsa` The command `\ccbyncsa` typesets the icons for the Attribution-NonCommercial-ShareAlike licence: © ⓘ Ⓗ ⓘ.

```
564 \newcommand*\ccbyncsa{\ccbyncsa\@ifstar{~\faCopyright[regular]}\relax}
565 \def\ccbyncsa{\mbox{%
566   \faCreativeCommons\CJS@fakern
567   \faCreativeCommonsBy\CJS@fakern
568   \faCreativeCommonsNc\CJS@fakern
569   \faCreativeCommonsSa}}
```

`\ccbynd` The command `\ccbynd` typesets the icons for the Attribution-NoDerivatives licence: © ⓘ ⓘ.

```
\ccbynd* 570 \newcommand*\ccbynd{\ccbynd\@ifstar{~\faCopyright[regular]}\relax}
571 \def\ccbynd{\mbox{%
572   \faCreativeCommons\CJS@fakern
573   \faCreativeCommonsBy\CJS@fakern
574   \faCreativeCommonsNd}}
```

`\ccbyncnd` The command `\ccbyncnd` typesets the icons for the Attribution-NonCommercial-NoDerivatives licence: © ⓘ Ⓗ ⓘ.

```
575 \newcommand*\ccbyncnd{\ccbyncnd\@ifstar{~\faCopyright[regular]}\relax}
576 \def\ccbyncnd{\mbox{%
577   \faCreativeCommons\CJS@fakern
578   \faCreativeCommonsBy\CJS@fakern
579   \faCreativeCommonsNc\CJS@fakern
580   \faCreativeCommonsNd}}
```

## B.6 Mathematics

`\Pr` We provide a number of shortcuts for the more common mathematical operators.

```
\E 581 \let\Pr\relax
\Var 582 \DeclareMathOperator{\Pr}{P}
\Cov 583 \DeclareMathOperator{\E}{E}
\corr 584 \DeclareMathOperator{\Var}{var}
      585 \DeclareMathOperator{\Cov}{cov}
      586 \DeclareMathOperator{\corr}{corr}
```

`\prdist` The command `\prdist` typesets the symbol or the name of a probability distribution. With the newer  $\TeX$  engines that load **unicode-math**, `\symcal` is recommended over `\mathcal`.

```
587 \iftutex
588   \let\prdist\symcal
589 \else
590   \let\prdist\mathcal
591 \fi
```

`\mat` The class provides special commands to typeset matrix and vector names, a carefully designed transpose symbol, and the most common linear algebra operators.

```
\trsp 592 \iftutex
\tr 593   \let\mat\sympf
\diag 594   \let\matit\sympfit
      595   \newcommand*\trsp^{*\mkern-1.5mu\symsfup{T}}
      596 \else
      597   \let\mat\mathbf
      598   \let\matit\mathbf{it}
      599   \newcommand*\trsp^{*\mkern-1.5mu\mathsf{T}}
      600 \fi
      601 \DeclareMathOperator{\tr}{tr}
      602 \DeclareMathOperator{\diag}{diag}
```

`\Nset` To ensure uniformity, the class provides commands to typeset the sets of natural numbers, integers, `\Zset` rational numbers, real numbers, and complex numbers.

```
\Qset 603 \iftutex
\Rset 604   \newcommand*\Nset{\sympb{N}}
\Cset 605   \newcommand*\Zset{\sympb{Z}}
      606   \newcommand*\Qset{\sympb{Q}}
      607   \newcommand*\Rset{\sympb{R}}
      608   \newcommand*\Cset{\sympb{C}}
      609 \else
      610   \newcommand*\Nset{\mathbb{N}}
      611   \newcommand*\Zset{\mathbb{Z}}
      612   \newcommand*\Qset{\mathbb{Q}}
      613   \newcommand*\Rset{\mathbb{R}}
      614   \newcommand*\Cset{\mathbb{C}}
      615 \fi
```

The class defines a number of theorem-like environments using the **amsthm** styles.

```
616 \def\CJS@theoremname@en{Theorem}
617 \def\CJS@theoremname@fr{Théorème}
618 \def\CJS@lemmaname@en{Lemma}
619 \def\CJS@lemmaname@fr{Lemme}
620 \def\CJS@propositionname@en{Proposition}
621 \def\CJS@propositionname@fr{Proposition}
622 \def\CJS@corollaryname@en{Corollary}
623 \def\CJS@corollaryname@fr{Corollaire}
624 \def\CJS@definitionname@en{Definition}
625 \def\CJS@definitionname@fr{Définition}
```

```

626 \def\CJS@algorithmname@en{Algorithm}
627 \def\CJS@algorithmname@fr{Algorithme}
628 \def\CJS@remarkname@en{Remark}
629 \def\CJS@remarkname@fr{Remarque}
630 \theoremstyle{plain}
631 \newtheorem{theorem}{\iflanguage{french}{\CJS@theoremname@fr}{\CJS@theoremname@en}}
632 \newtheorem{lemma}{\iflanguage{french}{\CJS@lemmaname@fr}{\CJS@lemmaname@en}}
633 \newtheorem{proposition}{\iflanguage{french}{\CJS@propositionname@fr}{\CJS@propositionname@en}}
634 \newtheorem{corollary}{\iflanguage{french}{\CJS@corollaryname@fr}{\CJS@corollaryname@en}}
635 \theoremstyle{definition}
636 \newtheorem{definition}{\iflanguage{french}{\CJS@definitionname@fr}{\CJS@definitionname@en}}
637 \newtheorem{algorithm}{\iflanguage{french}{\CJS@algorithmname@fr}{\CJS@algorithmname@en}}
638 \theoremstyle{remark}
639 \newtheorem{remark}{\iflanguage{french}{\CJS@remarkname@fr}{\CJS@remarkname@en}}

```

`\eqref` The command `\eqref` from **amsmath** should be used to refer to equations. We redefine it such that the parentheses are part of the hyperlink, and that the command inherits font changes, notably in titles.<sup>7</sup>

```

640 \renewcommand*{\eqref[1]}{\hyperref[#{1}]{\textup{(\ref*{#{1}})}}}

```

## B.7 Computer code and software

`\proglang` The command `\proglang` provides a means to uniformly typeset the name of a software or programming language. The command also prevents hyphenation within the name. The class also provides shortcuts to the most common languages. Notice that the `\Cpplang` case is specially crafted.

```

641 \newrobustcmd*\proglang[1]{\mbox{#1}}
642 \newcommand*\Rlang{\proglang{R}}
643 \newcommand*\SASlang{\proglang{SAS}}
644 \newcommand*\SPSSlang{\proglang{SPSS}}
645 \newcommand*\Statalang{\proglang{Stata}}
646 \newcommand*\Pylang{\proglang{Python}}
647 \newcommand*\Julialang{\proglang{Julia}}
648 \newcommand*\Clang{\proglang{C}}
649 \newcommand*\Cpplang{\proglang{C\CJS@plus\CJS@plus}}
650 \def\CJS@plus{%
651   \ifx\fontfamily\sfddefault%
652     \protect\hspace{-.04em}\protect\raisebox{-.125ex}{\larger+}%
653   \else%
654     \protect\hspace{-.03em}\protect\raisebox{.25ex}{\smaller+}%
655   \fi}

```

`\pkg` The command `\pkg` typesets the name of software packages, extensions or modules.

```

656 \let\pkg\textbf

```

`\code` The following pretty smart implementation of `\code` allows use of the active characters `_`, `~` and `$` as is within the command. It is lifted from the class file of the *Journal of Statistical Software*.

```

657 \newcommand\code{\bgroup\@makeother\_ \@makeother\~ \@makeother\$ \code@}
658 \def\code@#1{{\normalfont\ttfamily\hyphenchar\font=-1 #1}\egroup}

```

## B.8 Appendices

`\appendix` Given that appendices are sections in the class (instead of chapters as with memoir), we redefine `\appendix` based on the standard article class definition.

```

659 \renewcommand*\appendix{\par
660   \setcounter{section}{0}
661   \gdef\thesection{\@Alph{c}@section}}

```

<sup>7</sup>With thanks to Heiko Oberdiek (<https://tex.stackexchange.com/a/192754>) and David Carlisle (<https://tex.stackexchange.com/a/631254>).

## B.9 Citations and references

Very little to do here, as most of the work on the citations front is handled by **natbib**. We loaded the package with the option `sectionbib` to obtain the list of references as a section, but memoir will use `\section` in such instances. We want an unnumbered section (yet showing in the virtual table of contents of the PDF). To achieve this efficiently, we redefine the internal command of memoir.

```
662 \renewcommand{\@memb@bsec}{%
663   \section*{\bibname}%
664   \addcontentsline{toc}{section}{\bibname}%
665   \prebibhook}
```

Furthermore, we need to redefine the title of the section, because memoir uses “Bibliography” by default. Due to the presence of **babel**, we have to use `\setlocalecaption` rather than redefine `\bibname` directly.

```
666 \setlocalecaption{english}{bib}{References}
667 \setlocalecaption{french}{bib}{Références}
```

The class uses its own bibliographic styles: `cjs-rcs-en` for articles in English, and `cjs-rcs-fr` for articles in French. For additional information on these styles, please refer to the documentation of the master bibliographic style in `cjs-rcs-merlin.pdf`.

```
668 \bibliographystyle{\iflanguage{french}{cjs-rcs-fr}{cjs-rcs-en}}
```

Finally, condense the bibliography. The default spacing between the entries defined by **natbib** is `\itemsep + \parsep`, which amounts to  $2 \times \itemsep$ . Reduce this to `\itemsep`.

```
669 \setlength{\bibsep}{\itemsep}
```

## B.10 Supplementary material

In order to easily distinguish them from their counterparts of the main article, sections, equations, theorems, figure, etc., are numbered with “S” in prefix. For document divisions, we only need to change `\thesection` as the lower level printing commands are based on the latter.

```
670 \def\CJS@suppprefix{S}          % required for the documentation
671 \ifCJS@supplement
672   \renewcommand*\thesection{\CJS@suppprefix\arabic{section}}
673   \renewcommand*\thefigure{\CJS@suppprefix\arabic{figure}}
674   \renewcommand*\thetable{\CJS@suppprefix\arabic{table}}
675   \renewcommand*\theequation{\CJS@suppprefix\arabic{equation}}
676   \renewcommand*\thetheorem{\CJS@suppprefix\arabic{theorem}}
677   \renewcommand*\thelemma{\CJS@suppprefix\arabic{lemma}}
678   \renewcommand*\theproposition{\CJS@suppprefix\arabic{proposition}}
679   \renewcommand*\thecorollary{\CJS@suppprefix\arabic{corollary}}
680   \renewcommand*\thedefinition{\CJS@suppprefix\arabic{definition}}
681   \renewcommand*\thealgorithm{\CJS@suppprefix\arabic{algorithm}}
682   \renewcommand*\theremark{\CJS@suppprefix\arabic{remark}}
683 \fi
```

## B.11 Commands for the editors

*final (option)* The class option `final` activates a number of sanity checks on the document: the journal publication information (volume, issue, year) is provided; the folio of the first page is set; the article history (date received, date accepted) is provided. These checks are conducted at the end of the document.

```
684 \AtEndDocument{%
685   \ifCJS@final
686     \ifdefempty{\CJS@vol}{%
687       \ClassError{cjs-rcs-article}%
688       {Unknown Journal volume}%
689       {Use \string\jvol\space to specify the volume.}}{\relax}
690     \ifdefempty{\CJS@issue}{%
691       \ClassError{cjs-rcs-article}%
692       {Unknown Journal issue}%
693       {Use \string\jissue\space to specify the issue.}}{\relax}
```

```

694 \ifdefempty{CJS@year}{%
695 \ClassError{cjs-rcs-article}%
696 {Unknown Journal publication year}%
697 {Use \string\jyear\space to specify the year.}}{\relax}
698 \ifdefstring{CJS@firstpage}{1}{%
699 \ClassWarningNoLine{cjs-rcs-article}%
700 {The first page number is not set.\MessageBreak%
701 Using the default folio 1}}{\relax}
702 \ifCJS@history\else
703 \ClassError{cjs-rcs-article}%
704 {Unknown article history}%
705 {Use \string\received\space and \string\accepted\space to provide the article history.}
706 \fi
707 \fi}

```

\jvol The editors use the commands \jvol, \jissue, \jyear and \firstpage to enter the publication information of the journal.

```

\jyear 708 \def\CJS@vol{}
\firstpage 709 \def\CJS@issue{}
710 \def\CJS@year{}
711 \def\CJS@firstpage{1}
712 \newcommand*\jvol[1]{\renewcommand*\CJS@vol{#1}}
713 \newcommand*\jissue[1]{\renewcommand*\CJS@issue{#1}}
714 \newcommand*\jyear[1]{\renewcommand*\CJS@year{#1}}
715 \newcommand*\firstpage[1]{\renewcommand*\CJS@firstpage{#1}}

```

\received The article history—dates when the article was received and accepted—is printed at the very end of the article when present. Its treatment involves a number of steps.

First, the dates themselves are input in ISO format YYYY-MM-DD and converted in language dependent strings using the package **datetime2**. In English, we want to use the British format without the ordinal for the day: 1 January 1970. In French, we can simply rely on the default format.

```
716 \DTMLangsetup[en-GB]{ord=omit}
```

Next, we need interface commands, a special kind of list to display the information, and a macro to actually typeset the history. Providing a *received* date marks the article history as present. The dates are saved and printed using commands from **datetime2**.

```

717 \def\CJS@receivedname@en{Received}
718 \def\CJS@receivedname@fr{Reçu le}
719 \def\CJS@acceptedname@en{Accepted}
720 \def\CJS@acceptedname@fr{Accepté le}
721 \newcommand*\received[1]{\CJS@historytrue\DTMsavedate{received}{#1}}
722 \newcommand*\accepted[1]{\DTMsavedate{accepted}{#1}}
723 \newlist{CJS@historylist}{itemize*}{1}
724 \setlist[CJS@historylist]{%
725 mode=unboxed,
726 font=\sffamily,
727 itemjoin={{ --- }},
728 after={}
729 }
730 \newcommand*\CJS@history{%
731 \small\sffamily%
732 \begin{CJS@historylist}
733 \item[\iflanguage{french}{\CJS@receivedname@fr}{\CJS@receivedname@en}]
734 \DTMusedate{received}%
735 \DTMifsaveddate{accepted}{%
736 \item[\iflanguage{french}{\CJS@acceptedname@fr}{\CJS@acceptedname@en}]
737 \DTMusedate{accepted}}{\relax}%
738 \end{CJS@historylist}\par}

```

We also define a decorative element similar to the one used on the title page, only adapted for a single line content. To create a balanced element, we use the height of a letter with an ascender and the depth of the old-style number 4.

```
739 \newsavebox\CJS@historyornament
740 \setbox\CJS@historyornament=\vbox{%
741   \setbox\z@=\vbox{\hbox{\firaoldstyle\small 14}}
742   \setbox\tw@=\hbox{\vrule \@width1.5pt\@height\ht\z@\@depth\dp\z@}
743   \hbox{\textcolor{CJSpink}{\copy\tw@}\kern.75pt
744         \textcolor{CJSred}{\copy\tw@}\kern.75pt
745         \textcolor{CJSyellow}{\copy\tw@}\kern3pt}}
```

Finally, the history information, when present, is printed at the end of the article.

```
746 \def\CJS@historybox{
747   \par\addvspace{2\baselineskip}\noindent%
748   \smash{\box\CJS@historyornament \CJS@history}\par%
749   \vspace*{40pt}}
750 \AtEndDocument{\ifCJS@journalinfo\ifCJS@history\CJS@historybox\fi\fi}
```

**\specialack** The command `\specialack` is the generic interface to give special acknowledgement on the title page. The command inserts its first argument in the list of authors, and its second argument at the bottom of the title page, with the licensing information. Each argument may be empty, in which case the corresponding information is not displayed.

```
751 \def\CJS@specialackstatement{}
752 \newcommand*\specialack[2]{%
753   \ifstrepty{#1}{}{%
754     \author{#1\CJS@specialackmark}}
755   \ifstrepty{#2}{}{%
756     \CJS@specialacktrue
757     \renewcommand*\CJS@specialackstatement{\CJS@specialackmark\, #2\medskip\newline}}}
```

**\specialackmark** The command `\specialackmark` changes the footnote marker used by `\specialack` from its default definition.

```
758 \def\CJS@specialackmark{\textsuperscript{\ensuremath{*}}}
759 \newcommand*\specialackmark[1]{%
760   \renewcommand*\CJS@specialackmark{#1}}
```

</class>

## Version history

0.1	First test version for review by CJS editorial team. . . . .	1	moved in appendix. . . . .	1
			Option final for the editors. . . . .	1
			Support for hyperlinks. . . . .	1
0.1a	Change the paper size from 7in x 10in to letter paper. . . . .	1	The ornament in the journal information now uses the CJS colours. . . . .	1
	Command <code>\surname</code> to enter the surname of an author and automatically populate the running authors list. . . . .	1	0.1c	
	Funding information moved to the end of the paper with other back matter. . . . .	1	The corresponding author mark <code>*</code> is replaced by an envelope. The marker positioned next to the corresponding author name is now a <code>mailto:</code> hyperlink. . . . .	1
	Support for <code>\firstpage</code> and automatic display of the last page number in the journal information. . . . .	1	Use a key-value interface in <code>\author</code> to specify not only the ORCID iD, but also the email and corresponding author status. . . . .	1
	Support for ORCID iD. . . . .	1	Use Font Awesome for all symbols, instead of ccicons for the Creative Commons symbols and a solution based on TikZ to	
0.1b	Documentation on the commands for editors			

draw the ORCID icon. Therefore, ccicons and tikz are no longer loaded by the class.	1	0.3	Condense the bibliography by cutting the spacing between the entries in half. . . . .	1
0.1d			Increase the visibility of the templates in the documentation, notably with a new subsection at the beginning of Section 4 (Usage). . . . .	1
The role of the option supplement is now to typeset a document similar to a regular article, but with some unnecessary information hidden (abstracts, keywords, back matter, etc.). . . . .	1		Make Section 2 (Quick start) independent from the rest of the text, such that readers may either read only that section, or skip it entirely. . . . .	1
The user documentation is now available in English. . . . .	1			
0.1e		0.4	Replace old-style numbers by lining numbers throughout. . . . .	1
In addition to the LPPL for the code, licence the documentation under CC BY-SA, if only to provide an example of \licence.	1	0.5	Allow usage of \licence with option final. Editors or the publisher may now use the command to specify the official licence statement to display at the bottom of the title page. . . . .	1
Introduce commands to typeset Creative Commons licence icons. . . . .	1		Clarify the documentation as to what is displayed at the bottom of the first page and with which class option. . . . .	1
Introduce handling of licences depending on the type of document. . . . .	1		Improve the measuring and positioning of the space for licensing information at the bottom of the title page. . . . .	1
The command \appendix now indicates the start of the appendices like the standard command. A starred variant specially useful for CJS articles is introduced to also insert the sectional division and title in the article. . . . .	1			
0.1f		0.9	Change the corresponding author symbol from an envelope to @. . . . .	20
The (author) documentation of \appendix and \appendix* is moved to its own subsection to the Usage section. . . . .	1		Document usage of the bibliographic styles. . .	9
The article structure is modified to put the appendix before the back matter and the references. . . . .	1		Fix missing comment characters in \extrasenglish and \extrasfrench. . . . .	13
The author documentation now recommends where to use \licence. . . . .	1		Include bibliographic styles with the class. . . .	1
The command to print the back matter material is now \backmatter*. The standard \backmatter is kept untouched. . . . .	1	0.91	Change the name of the archive containing a “local” installation of the class from -no-local-tex.zip to -project-install.zip. . . . .	2
The list of references is always an unnumbered section, even without \backmatter. . . . .	1		Revise the documentation, in particular the installation instructions of Section 3 and in the file README.md. . . . .	2
The package natbib is now loaded with the option sectionbib. . . . .	1	0.92	Proofread all the package documentation. . . .	1
0.2			Relegate the makebst menu information to the complete master bibliographic style documentation. . . . .	1
Appendices now appear between the back matter and the bibliography. . . . .	1	0.93	Disable old-style numbers in pdfLaTeX. . . . .	15
Change \backmatter* to \makebackmatter, to align with \maketitle and since \appendix* no longer exists. . . . .	1		Fix the name of a command from \textorpdfstring to the correct \texorpdfstring in the documentation. . . .	10
Many revisions to the documentation, thanks mostly to Julie Falkner. . . . .	1		Replace packages stickstoo and newtxmath by the simpler stix2 now that access to font features is no longer needed. . . . .	15
Specify that CJS may provide an abstract in the second language, for French as well as for English. . . . .	1		Templates: fix a missing closing brace in \author commands. . . . .	32
The number of appendices is no longer limited to one. The command \appendix* becomes obsolete and is removed from the class. . . . .	1	1.0	First official release distributed through CTAN. . . . .	1

Fix various typos and cosmetic issues in the documentation. . . . .	1	Implementation: simpler definition of <code>\mat</code> and <code>\matit</code> using <code>\let</code> instead of <code>\newcommand*</code> . . . . .	28
Mention the inspiration for the layout of the class at the beginning of Section B.2 of the English documentation. . . . .	14	Improve the documentation, in particular the installation instructions and access to the templates. . . . .	1
1.1		Introduce new commands <code>\specialack</code> and <code>\specialackmark</code> for the editors. . . . .	1
Add the command <code>\matit</code> to typeset bold italic in math in a portable way. . . . .	1	Provide support to acknowledge usage of data from the Alzheimer's Disease Neuroimaging Initiative (ADNI) and the Alzheimer's Disease Neuroimaging Metabolomics Consortium (ADMC). . . . .	1
Add the References section to the table of contents of the PDF. . . . .	1	Templates: revise the description of the sharing environment. . . . .	32
Documentation: add a link to obtain the templates in the <i>Quick start</i> section. . . . .	1	1.1a	
Documentation: add a link to the templates in the <i>Templates</i> sub-section. . . . .	2	Fix the command <code>\proglang</code> that would disable hyphenation for the rest of the document. With thanks to Enrico Gregorio (egreg) for the heads up in person at TUG 2024. . . . .	1
Documentation: mention to also use <code>\texorpdfstring</code> to fix Token not allowed in a PDF string warnings. . . . .	10	Implementation: fix the generation of spacing in the <code>\ccby*</code> commands. . . . .	27
Documentation: provide a direct link to the release corresponding to the version of the documentation in the <i>Installation</i> section. . . . .	2	Implementation: prevent hyphenation in <code>\proglang</code> using a simple <code>\mbox</code> . . . . .	29
Documentation: revise the description of the sharing environment now that the CJS adhered to the Expects Data Sharing editorial policy of Wiley. . . . .	6	Implementation: replace box registers <code>\@ne</code> and <code>\thr@@</code> by <code>\z@</code> and <code>\tw@</code> . . . . .	32
Documentation: specify that the class is not compatible with the package <code>amssymb</code> . . . . .	7	Make the command <code>\proglang</code> robust. . . . .	1
Implementation: add a <code>\addtocontentsline</code> command to the redefinition of <code>\@memb@bsec</code> to include the References section in the virtual table of contents of the PDF. . . . .	30	1.2	
Implementation: define the new command <code>\specialackmark</code> . . . . .	32	Fix spurious Unicode (U+0301) characters that made their way in the code of the class and that halted compilation using <code>pdflatex</code> . . . . .	26
Implementation: define the new command <code>\specialack</code> . . . . .	32	Load package <code>numprint</code> with the option <code>np</code> to activate the shortcut <code>\np</code> for <code>\numprint</code> . . . . .	13
Implementation: define the new commands <code>\ADNIacknowledgement</code> and <code>\ADMCacknowledgement</code> . . . . .	24	Modify the statement about the effect of <code>\mat</code> on greek letters: they are not always in italic, it is rather that their shape is not modified. . . . .	7
Implementation: explicitly set the option <code>bold-style=TeX</code> when loading the math font with the modern engines. . . . .	15	Recommend compilation with <code>Lua<math>\TeX</math></code> instead of <code>X<math>\TeX</math></code> , to follow the official recommendation of the $\TeX$ Team. . . . .	2
Implementation: fix the positioning of the licensing information at the bottom of the title page. . . . .	24	Split the documentation between the actual class documentation and author guidelines. . . . .	1
Implementation: include the special acknowledgement statement in the licensing information, if required. . . . .	24	Templates: enhance the templates to provide more comments and sample code for various structures commonly used in articles. . . . .	32