

F1000Research Software Tool Article Template

Please provide a concise and specific title that clearly reflects the content of the article.

Author Name-1¹ and Author Name-2²

¹Address of author-1

²Address of author-2

Please list all authors that played a significant role in developing the software tool and/or writing the article. Please provide full affiliation information (including full institutional address, ZIP code and e-mail address) for all authors, and identify who is/are the corresponding author(s).

Abstract

Abstracts should be up to 300 words and provide a succinct summary of the article. Although the abstract should explain why the article might be interesting, care should be taken not to inappropriately over-emphasise the importance of the work described in the article. Citations should not be used in the abstract, and abbreviations, if needed, should be spelled out in full.

Keywords

Please list up to eight relevant keywords that describe the subject of their article. These will improve the visibility of your article.

Introduction

The introduction provides context as to why the software tool was developed and what need it addresses. It is good scholarly practice to mention previously developed tools that address similar needs, and why the current tool is needed.

Methods

Implementation

For software tool papers, this section should address how the tool works and any relevant technical details required for implementation of the tool by other developers.

Operation

This part of the methods should include the minimal system requirements needed to run the software and an overview of the workflow for the tool for users of the tool.

Results

This section is only required if the paper includes novel data or analyses, and should be written as a traditional results section.

Use Cases

This section is required if the paper does not include novel data or analyses. Examples of input and output files should be provided with some explanatory context. Any novel or complex variable parameters should also be explained in sufficient detail to allow users to understand and use the tool's functionality. **Data input for use cases must be provided**

Tables

Use `\table` and `\tabledata` for basic tables. See [Table 1](#), for example.

Table 1. An example of a simple table with caption.

First name	Last Name	Grade
John	Doe	7.5
Richard	Miles	2

Figures

You can upload a figure (JPEG, PNG or PDF) using the files menu. To include it in your document, use `\includegraphics` (see the example in the source code below). All figures should be discussed in the article text.

Please give figures appropriate filenames eg: `figure1.pdf`, `figure2.png`.

Figure legends should briefly describe the key messages of the figure such that the figure can stand alone from the main text, and avoid lengthy descriptions of the methods. Each legend should have a concise title of no more than 15 words. Please ensure all abbreviations used in your figures and legends are defined to allow them to stand independently from the main body of the text.

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The logo for F1000Research, featuring the text "F1000" in a large, bold, black sans-serif font, followed by "Research" in a smaller, bold, orange sans-serif font.

Figure 1. Your figure legend goes here; it should be succinct, while still explaining all symbols and abbreviations.

Discussion

This section is only required if the paper includes novel data or analyses, and should be written in the same style as a traditional discussion section. Please include a brief discussion of allowances made (if any) for controlling bias or unwanted sources of variability, and the limitations of any novel datasets.

Conclusions

This section is only required if the paper includes novel data or analyses, and should be written as a traditional conclusion.

Data availability

Use this section to provide the raw data that support their findings. Readers should be able to view the raw data, replicate the study, and re-analyse and/or reuse the data (with appropriate attribution). Please take a look at the F1000Research guidelines on [data preparation](#). Raw data should be uploaded to an approved repository before submission, a list of which can be found on the [data guidelines page](#).

This section should be completed in the following format:

Source data

If the data has been published previously, details of the dataset and where it can be accessed should be provided here.

Underlying data

This section should detail all novel data collected and used as part of your article. Details of the repository where your data are hosted, a description of the data files and the license under which they are held should be included. See the F1000Research Data Guidelines for more information. The following formatting should be used:

Repository: Manually annotated miRNA-disease and miRNA-gene interaction corpora.
<https://doi.org/10.5256/repository.4591.d34639>.

This project contains the following underlying data:

- Data file 1. (Description of data.)
- Data file 2. (Description of data.)

Data are available under the terms of the Creative Commons Zero "No rights reserved" data waiver (CC0 1.0 Public domain dedication).

Extended data

Additional materials that support the key claims in the paper but are not absolutely required to follow the study design and analysis of the results (e.g. questionnaires, supporting images or tables) should be included as extended data. Details of the repository where these materials are hosted, a description of the extended data files and the license under which they are held should be included. See the F1000Research Data Guidelines for more information.

Software availability

Source code for new software must be made openly and permanently available in a structured repository such as Zenodo (see 'Making Your Code Citable' for more information), and assigned an open license; we strongly encourage the use of an OSS approved license, but will accept other open licenses including Creative Commons. The Software availability section must include the following information:

- Software available from: URL to own website where software can be downloaded from (if available)
- Source code available from: URL to versioning control system (e.g. GitHub)
- Archived source code at time of publication: DOI for archived source code
- License: OSS approved license or other open license

Competing interests

All financial, personal, or professional competing interests for any of the authors that could be construed to unduly influence the content of the article must be disclosed and will be displayed alongside the article. If there are no relevant competing interests to declare, please add the following: 'No competing interests were disclosed'.

Grant information

Please state who funded the work discussed in this article, whether it is your employer, a grant funder etc. Please do not list funding that you have that is not relevant to this specific piece of research. For each funder, please state the funder's name, the grant number where applicable, and the individual to whom the grant was assigned. If your work was not funded by any grants, please include the line: 'The author(s) declared that no grants were involved in supporting this work.'

Acknowledgements

This section should acknowledge anyone who contributed to the research or the article but who does not qualify as an author based on the criteria provided earlier (e.g. someone or an organization that provided writing assistance). Please state how they contributed; authors should obtain permission to acknowledge from all those mentioned in the Acknowledgements section.

Please do not list grant funding in this section.

References

[1] J. M. Smith and A. B. Jones. *Book Title*. Publisher, 7th edition, 2012.

[2] A. B. Jones and J. M. Smith. Article Title. *Journal title*, 13(52):123–456, March 2013.

Include a reference list in your .tex file - if using a .bib file this can be generated with `\bibliography` as demonstrated above. References can be listed in any standard referencing style and should be consistent between references within a given article. In-line references should be formatted using `\cite`, for example [1] and [2]

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- (a) Keep your LaTeX files as simple as possible; do not use elaborate local macros or highly customized style files. Preferably, use the template provided for formatting your paper.
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- (c) Do not use external style files or packages, except for `f1000styles.sty` and those packages already referenced in the main.tex template. If you need additional macros, please keep them simple and include them in the .tex document preamble.
- (d) Source code should be structured so that all .sty and .bst files called by the main .tex file are in the same directory as the main .tex file.
- (e) AMS math commands are recommended when inserting math equations into your manuscript.
- (f) When using URLs in the text these should be incorporated as hyperlinks using the `\hyperref` package and `\href{ }{ }` function where possible.
- (g) References to figures and tables within the manuscript should use `\autoref{ }`

References:

- Reference management systems such as F1000Workspace provide options for exporting bibliographies as BibTEX files (.bib). This template contains an example of such a file, `sample.bib`, which can be replaced with your own.
- Use only the generic `\cite{ }` command for referencing in the text (like this [1] and this [2]), not other commands built on special macros. Also, make sure that there is no space between reference keynames within the braces (i.e., `\cite{refone, reftwo, refthree}`, not `\cite{refone, reftwo, refthree}`).

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