



Background of Writefull

Academic writing can be a challenge to researchers and students. Researchers might get their manuscripts and research proposals rejected due to poor language, and students may struggle to write their assignments and dissertations.

Writefull uses the latest Artificial Intelligence techniques to identify language patterns in academic texts. It has been developed especially for students and researchers, and its feedback is tailored to academic writing. Using Writefull enables students and researchers to have more confidence in their writing, thereby increasing their productivity and fostering academic success.

For more information, please visit our website at <https://writefull.com/>

1) The team behind Writefull

As non-native speakers of English and students new to academic writing, Writefull co-founders' Juan Castro and Alberto Villar were looking for an easy way to check their texts. With a PhD in AI and MSc in Machine Learning under their belts, they set out to create a tool using the latest AI techniques on big data to enable this. Joined by two PhD graduates in Applied Linguistics, they have built AI models with solid academic language performance.

Writefull is science, AI, and linguistics. Created by researchers, for researchers.

2) How Writefull works

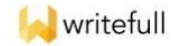
Writefull trains its language models on authentic academic texts, from a very large global database of millions of published Open Access articles from Dimensions.

Writefull offers expert language feedback in the following categories:

- **Grammar** covers several aspects. For example, does the student/researcher use the right preposition? (it is the effect in/on/at something?), are articles like 'the' used where needed, and are the correct verb forms used (is it the majority of people is/are)?
- **Spelling** is a contextual spell check, using Writefull's scientific dictionaries to correct highly technical, discipline-scientific terms (e.g. chemical compounds and plant/animal species).
- **Word use** checks that the student/researcher uses words that are appropriate in their sentence (e.g. capability vs ability, quantity vs amount, notable vs noticeable, alternate vs alternative). Writefull's models process the written sentence and determine which of two confusing words is better to use.
- **Punctuation** covers, for example, the use of commas.

- **Style** looks at whether the author uses language appropriate for science (e.g. no informal words like ‘stuff’, no contractions like ‘it’s’, the use of connectors like ‘however’ instead of ‘but’, etc). It also checks for language conciseness (e.g. instead of ‘The aim of this paper is to..’, write ‘This paper aims to...’, etc).

Writefull’s language feedback



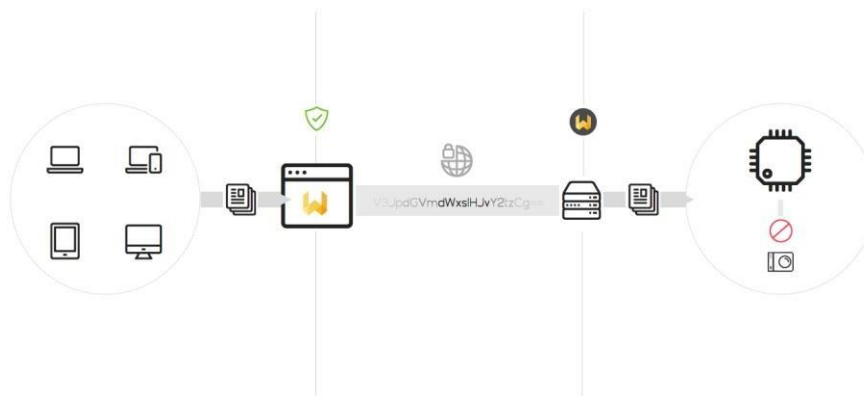
Grammar	<i>This emphasised the role of agglomeration economies on in accelerating economic growth.</i>
Spelling	<i>The infrared spectrum of tetrafluorohydrasine tetrafluorohydrazine...</i>
Word use	<i>Most African RLGs have weak fiscal capacity, limiting their capability ability to access capital markets.</i>
Punctuation	<i>However However with the complexity of contemporary buildings, ...</i>
Style	<i>This led to a huge large / great / considerable / substantial increase...</i>

3) Privacy and security

Writefull takes privacy and security issues very seriously.

All Writefull products encrypt all communications between computers and servers. The servers do not store any texts, and text written in Word or uploaded to Writefull Revise/Cite never reaches our hard drive.

For privacy reasons, accepted suggestions by students and researchers are not used to improve algorithms.

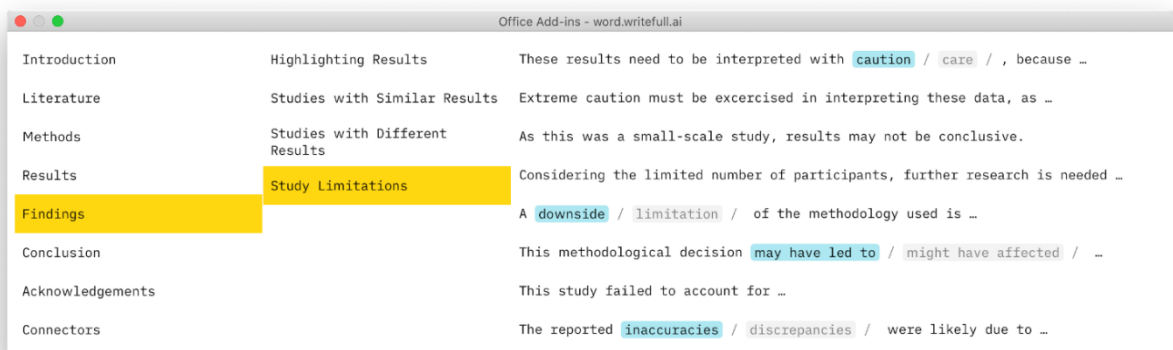
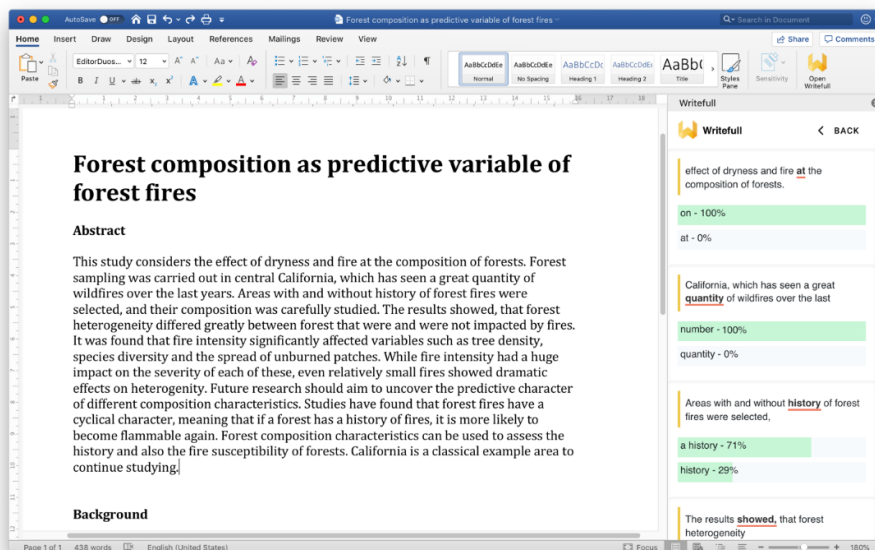


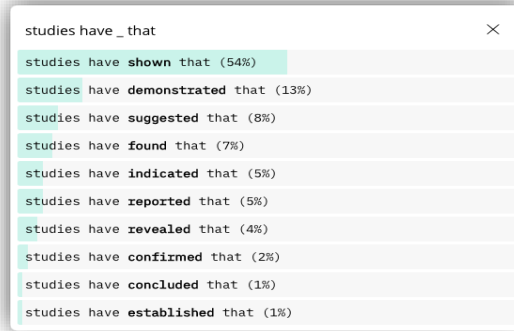
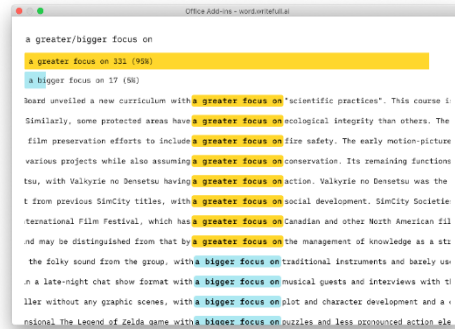
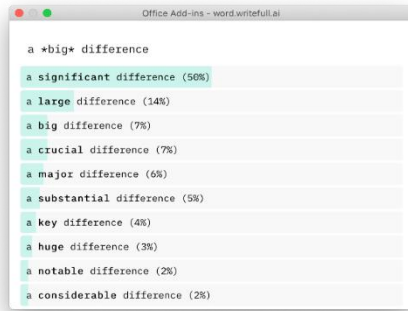
Writefull products and solution scope

Writefull's product suite comprises **four** distinct **products** that cater for the needs of different users, from students/researchers to publishers, at various stages of the writing/publishing process

1) Writefull for Word

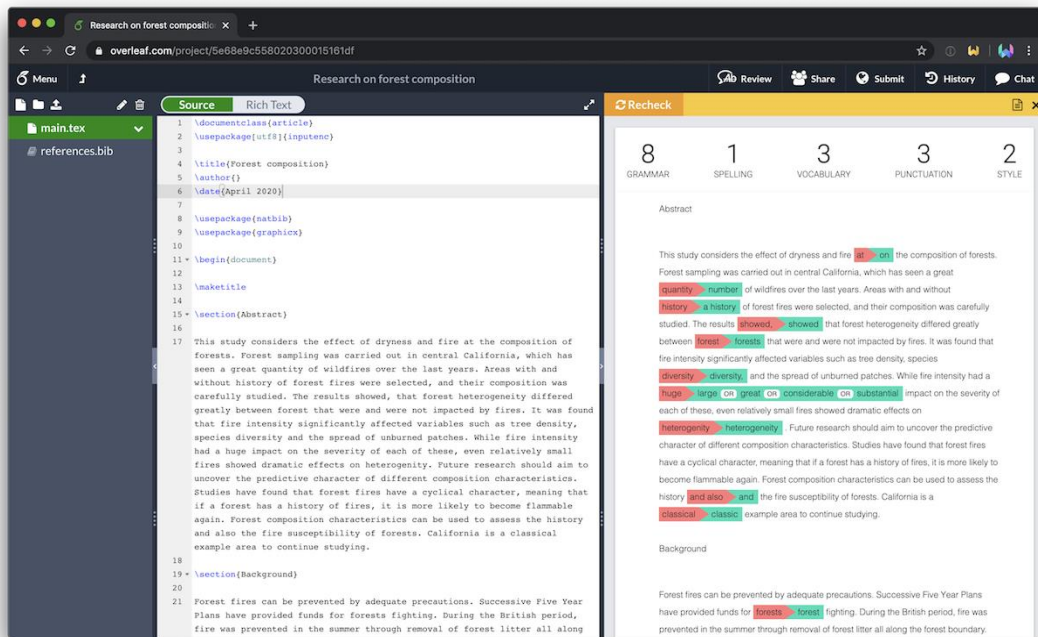
Writefull for Word provides language feedback on text written in a Word document. It checks for correctness of grammar, word use, style, and more. It also offers a database of authentic scientific texts, in which students and researchers can search for language patterns that they can incorporate into their own texts.





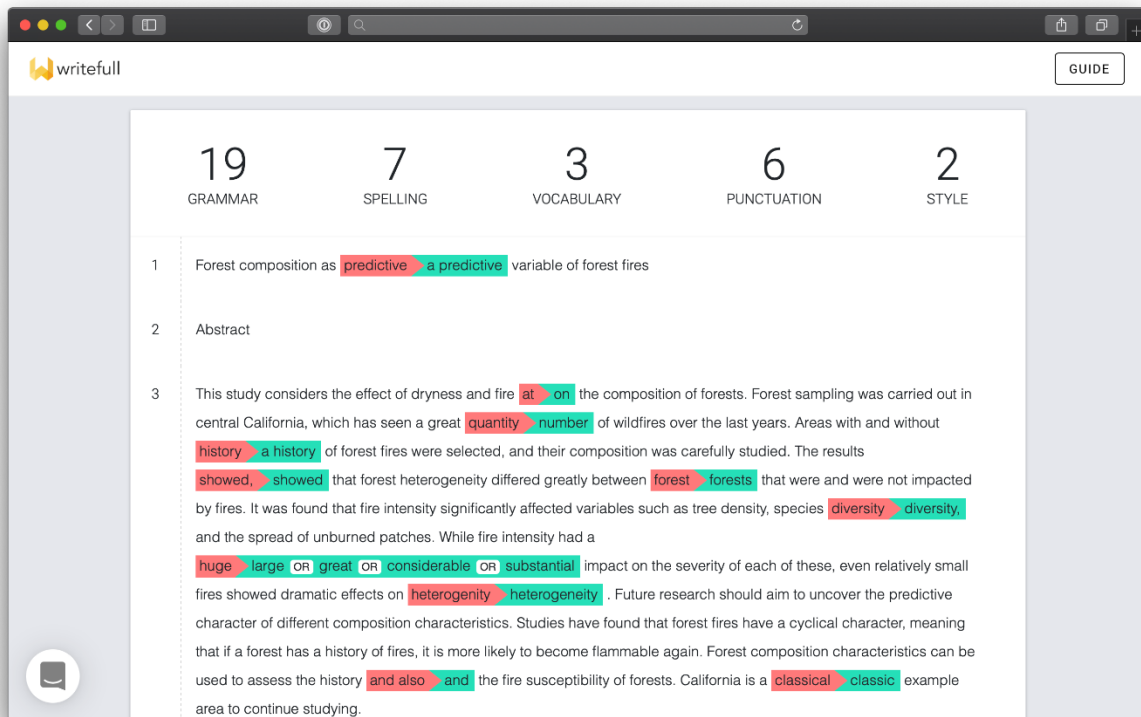
1) Writefull for Overleaf

Get Writefull's language feedback within Overleaf, and directly apply the corrections to your LaTeX source.



2) Writefull Revise

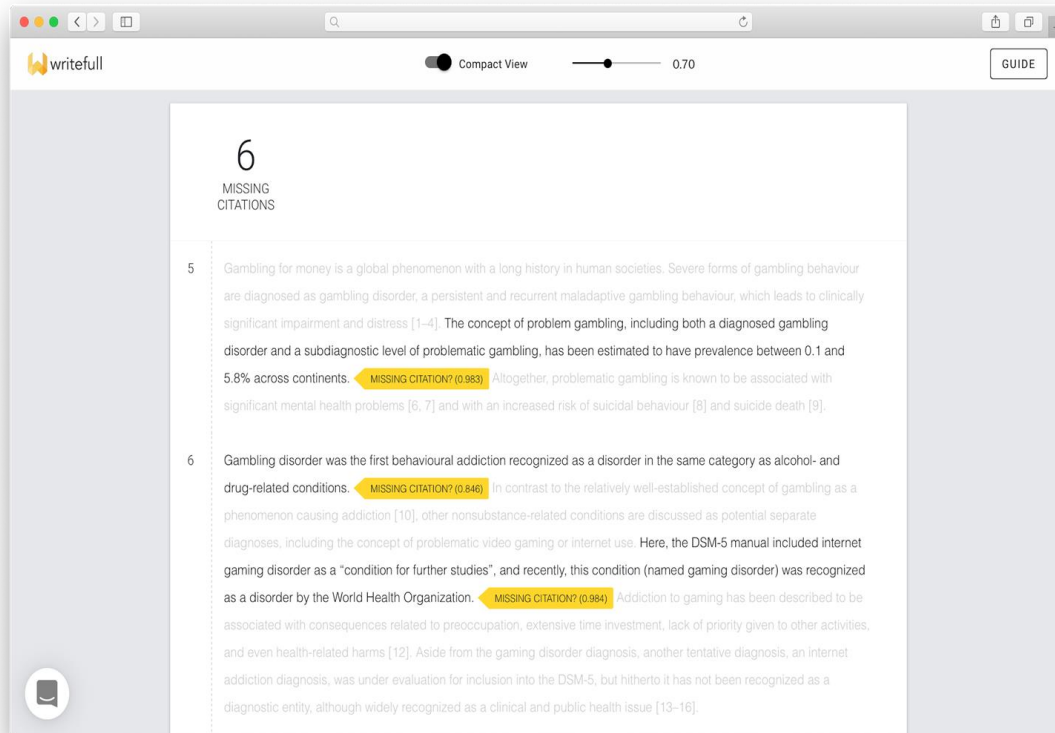
Writefull Revise screens text for correctness of grammar, word use, style, and more. It can be used by students and researchers to upload and check the language quality of a text they have already written, and to ensure that any language mistakes are corrected. A revised version of their text incorporating all accepted suggestions can then be downloaded.



The screenshot displays the Writefull Revise web interface. At the top, the Writefull logo is on the left and a 'GUIDE' button is on the right. Below the header, a summary bar shows five categories with their respective counts: GRAMMAR (19), SPELLING (7), VOCABULARY (3), PUNCTUATION (6), and STYLE (2). The main content area shows a document with several lines of text. The first line is 'Forest composition as predictive a predictive variable of forest fires', with 'predictive' highlighted in red and 'a predictive' in green. The second line is 'Abstract'. The third line is a paragraph of text with multiple suggestions: 'at on' (red), 'quantity number' (green), 'history a history' (green), 'showed showed' (green), 'forest forests' (green), 'diversity diversity' (green), 'huge large OR great OR considerable OR substantial' (green), 'heterogeneity heterogeneity' (green), 'and also and' (green), and 'classical classic' (green). A chat icon is visible in the bottom left corner.

3) Writefull Cite

Writefull Cite screens texts for citation completeness, highlighting sentences that should be supported by a reference. It can be used by students and researchers to check for citation completeness within their text, to ensure that claims are supported by references as appropriate.



4) Solution scope

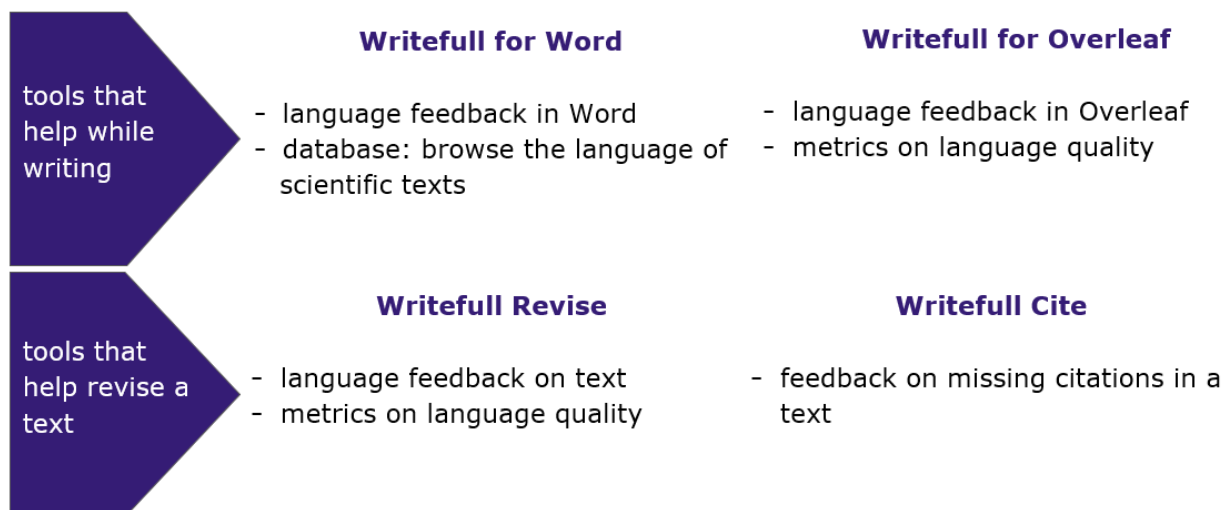
Our suite of products helps students and researchers at various stages of the academic writing process, which require different solutions.

Writefull for Word and Writefull for Overleaf provide language feedback online, offering suggestions as students and researchers are writing their texts.

Writefull Revise and Writefull Cite provide language and referencing feedback on texts after they have been written, for a quick revision. Students and researchers can upload their texts to Revise and Cite, and review language and citation suggestions offered by the tools.

Using Writefull Revise and Writefull Cite is recommended before proceeding with submitting a paper to a journal for publication, a proposal to a conference or funding body, or university coursework.

Writefull products



Using Writefull

1) Technical requirements

Writefull for Word can be used with:

- Microsoft 365, Office 365 (Windows and Mac)
- Word Online (Windows and Mac)
- Office 2016 (Windows and Mac)
- Office 2019 (Windows and Mac)

Writefull Revise and Writefull Cite run in evergreen browsers (Chrome, Firefox, Safari, Edge). If using Edge, it must be a Chromium based build (post January 15, 2020).

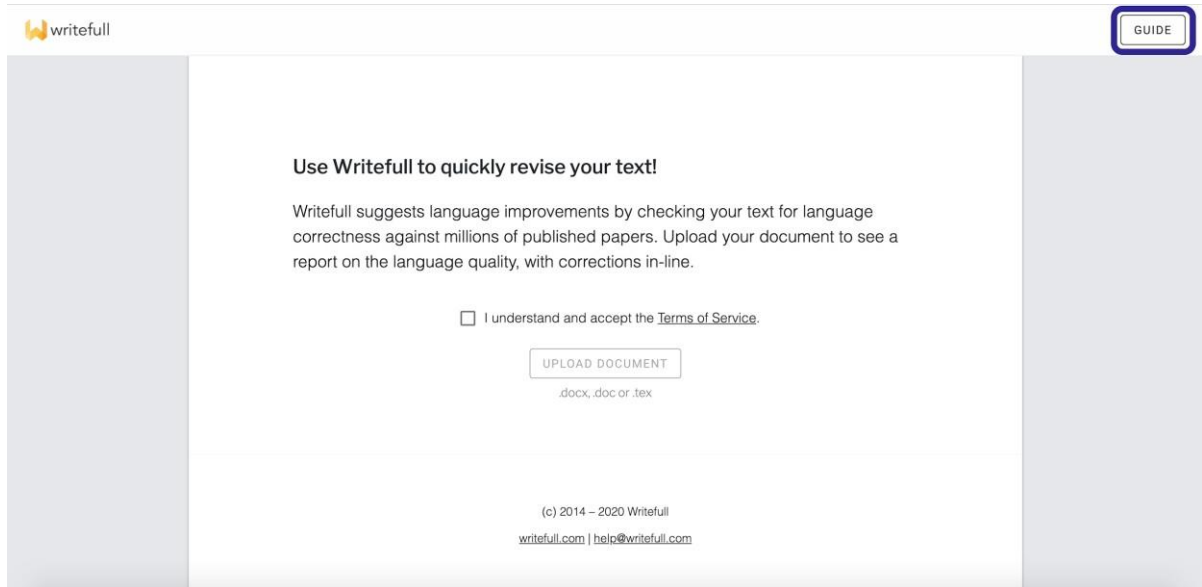
Writefull for Overleaf is not part of Overleaf itself, but is offered as a Chrome extension by Writefull. It is currently available from the Chrome web store and from the Writefull website.

2) How-to guides for users (with screenshots)

We have created dedicated guides for users, including detailed explanations of how to use the products, and screenshots to illustrate the various features.

These guides can be accessed from the top right-hand side corner of

Writefull Revise and Writefull Cite homepages, as shown below.



3) Technical support

Students and researchers can email support@writefull.com with any questions.

In addition, tutorial videos on how to use our suite of products will shortly be made available on the Writefull website (<https://writefull.com/>)