
Morph2Excel - User Manual

Version 2024.0 - Early Access Program

This is the official handbook for version 3.0 of Morph2Excel. Due to a long development process version 3.0 is the first release version of this software. It can be downloaded as a [github repository](#) or as an .exe file from this repository.

Morph2Excel (M2E) is a console-based application that provides multiple operations on the so-called wikimorph database, an A.I. generated JSON file that contains morphological and etymological information about several English terms. The M2E software is able to search for specific entries within this database and create a special formatted excel file as output. Since this software was created for linguistic research in the field of anglistics, the user can choose between several output formats and search restrictions within the program settings. M2E was developed to cover a wide range of research goals and needs. In this manual the different functions of M2E will be introduced.

1. Getting started

To execute M2E you need to install the wikimorph database from the [Zenovo](#) webpage. The program offers the possibility to download it on the fly. There is also an update control to inform you whether there is a new version of the database.¹

2. Manual Term Search

You can search a term by typing it in and pressing enter. This procedure can be repeated till you end this program. You can only search for one term at the same time. To restrict the search and filter your results you can define **part-of-speech (pos) filters** by connecting them to the term via a colon. The general notation is **term:pos**.

Examples:

cool:noun	→ the term “cool” will be searched as noun
cool:adjective	→ the term “cool” will be searched as adjective
plant:verb:noun	→ the term “plant” will be searched as verb and noun

You can choose between the six pos types **noun**, **verb**, **adjective**, **adverb**, **preposition** and **phrase**. These filters can be combined at will, the order is irrelevant. If you want to search for the term without restrictions meaning with all pos types just type in the term as described in section 1.

Note: The term you want to search cannot be connected with other pos types than the given ones or even other terms!

¹ Unfortunately for the moment Zenovo server does not provide update information (Februar 13th 2024).

3. Automatic Scan Mode

By typing in **s!** instead of a term you can enter the automatic scan mode (ASM). In this mode you are free to select an excel file from your directory to scan this file and extract all the entries from the first column. These entries will be searched in the database consecutively and the results will be structured given the current settings. In M2E all modes are independent from each other. Therefore the ASM can be combined with manual searches or several executions of itself at will. Even settings can be changed between multiple executions of the ASM. But the results will be saved in one output file, so make sure to plan your searches respectively. Since this program was made to deal with research data, the first row in the scanned file will be ignored to exclude headlines from the search. That means in total: Please make sure, your term list starts in the second row of the first column!

4. Outputs

The execution of M2E creates two general output files.

The output covering the search results is an excel file, which will be named as “M2E_Output” (plus date and time of the execution). Its format and contents are dependent on the respective settings. This is the output for the user, which will open automatically after the program terminates (if at least one term was searched either manually or via ASM). It can be found in the program directory structure under “./output/excel_files”. If M2E was executed without searching a term this excel file will be empty. Of course it is no problem to delete empty or no longer needed excel files.

The second output is a log file as txt, which contains information about the search history and the general user interactions. This file is important for development processes in case of exceptions and program crashes and can be ignored by normal users.

5. Comparison Mode

There is a third type of output files which are only generated if the user executes the comparison mode (CM). This mode can be entered by typing in **c!** instead of a term. The CM can be used to compare terms from two excel files. Therefore the files will be scanned just like in ASM, so make sure the list of terms to compare starts in the second row of the first column! The difference to the ASM is that the program will only compare the terms and not search them in the database. The resulting output is a special comparison excel file, which lists all terms and declares if they are found in only one of the scanned files (keyword: **unique**) or in both (keyword: **common**). For every execution of the CM there will be a new comparison file with a respective number generated. So the comparison results are always in separated files instead of being connected in one file!

6. Settings

The settings menu allows the user to influence many aspects of the program, mostly regarding the output format of search results (not comparison results!). For every setting there are always a detailed description and the respective options given directly in the menu for an intuitive user experience. Changes are saved on the fly, so an interruption of the program or a crash will not delete the new configurations. The main menu provides an overview of the current settings. For entering the settings menu type in **set!** instead of a term.