

words.hyper

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Chapter 1

words.hyper

1.1 main

Spellchecking for GoldED

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1.2 introduction

REQUIREMENTS

Suggested system: OS3.x, 68030, 5 MB RAM (minimum).

INSTALLATION

Doubleclick at the installer script icon.

INTRODUCTION

This is a a collection of spell checking software for GoldED. The package consists of three parts: ISpell (spell checker), WarpSPELL (syntax parser) and Words (API client). All three parts are started automatically if you start a spell checking session (

```
Usage
).
```

ISpell

GNU spell checking software. Ported to the Amiga by Jesper Skov. Responsible for spellchecking words and dictionary maintenance. The other programs of this package communicate with ISpell in order to decide if a word is spelled correctly. Dictionaries for ISpell are available at several FTP servers worldwide (this package contains English and German dictionaries). I recommend that you read the ISpell documentation carefully - it will help you to understand how ISpell works and to solve ISpell-related problems.

WarpSPELL

Configurable syntax highlighting parser. Shows spelling errors. It sends every word of a text to ISpell to have it checked while you scroll through the text in a GoldED window. Automatically starts ISpell (if not yet running). ISpell startup options are read from the environment variable "WORDS.prefs" (

```
Advanced options
).
```

Words

API client: it adds the new SPELL command to GoldED. This command can be used within menus, toolbars, etc. It controls ISpell and allows you to add new words to the user dictionary quickly. Automatically starts ISpell (if not yet running). ISpell startup options are read from the environment variable "WORDS.prefs" (

```

    Advanced options
  ).
```

1.3 usage

USAGE

Installation adds the new "spellcheck" icon to your standard toolbar. Click at the icon to change the filetype of the current text to "WORDS", thus starting a spell checking session. The command SET TYPE="WORDS" starts a spell checking session, too (TYPE RESET terminates the spell checking session). The WORDS environment automatically starts ISpell in ARexx server mode. ISpell startup may take a few seconds depending on the dictionary size.

Please note that ISpell wants to load the dictionary file into a single free memory block. A typical ISpell dictionary can be very large (800 KB to 2 MB). You may experience an "out of RAM" warning if your largest block of free memory is too small even if there is sufficient free (fragmented) RAM. There are two solutions for this problem: add more memory or use a smaller dictionary. The dictionary size can be selected during installation.

Spelling errors are highlighted if ISpell startup has been successful. Go to the "syntax" page of the local configuration window (extras/options local) to adjust the colors. The Words toolbar appears at the top of your screen if toolbars have been enabled ("view/toolbar" menu).

1.4 toolbar

TOOLBAR

The Words toolbar is based on the new SPELL command (provided by the Words API client; see

```

  Commands
  ). The toolbar offers the following functions:
```

"a" button: learn word (case-insensitive)

Learns the word under the cursor. Case of the word is ignored: ISpell will learn the words "The" and "the" if your cursor is over "The" (it will only add "the" to its dictionary but allow uppercase usage). Exception: words

containing multiple uppercase characters (e.g. "USA") are learned only in this specific form.

Please note that every line of a text is examined only once in order to increase performance: the screen is not refreshed if you learn a new word so that the word you just learned may still show up as spelling error in other lines. You need to manually order a display refresh every once in a while (see below).

Learned words are not saved to disk immediately. Click at the "save dictionary" button (see below) to save new words to the user dictionary file permanently. You are notified if you terminate a spell checking session without saving the new words. The user dictionary file can be found in "ispell:lib" (e.g. "ispell:lib/.ispell_english"). You can edit this file with a text editor to remove words accidentally added to the dictionary.

"A" button: learn word (uppercase)

Learns the word under the cursor. Only the uppercase form is learned if the word is uppercase. You should use this function to learn words that never appear in lowercase form. The word is added in its original (uppercase) form to ISpell's dictionary. Lowercase usage of uppercase words is not permitted.

Colouring button: refresh display

Reparses the text and refreshes the display, thus reflecting recent dictionary changes.

List button: show suggestions

Shows a list of suggestions for the word under the cursor (if misspelled). ESC closes the list of suggestions. RETURN selects a suggestion.

Strike-through-button: ignore word

The word under the cursor is ignored for the rest of the spell checking session.

Disk button: Save user dictionary

Saves new words to the user dictionary file. User dictionary files are stored in "ispell:lib/" (e.g. "ispell:lib/.ispell_english").

Cross button: Exit

Terminates the spell checking session.

1.5 commands

COMMANDS

GoldED's API interface can be used to add new capabilities to the editor at runtime (please read the GoldED documentation if you are unfamiliar with the

term "API interface").

This package contains the API client "Words". It adds the new SPELL command to GoldED. The SPELL command can be used within menus, in ARexx makros, etc. as if it were a built-in GoldED command. The

toolbar

shipped with the Words

package uses the SPELL command for its functions.

SPELL COMMAND

command	option	description
SPELL	CURRENT/S	show suggestions for word under cursor
	ADD/S	add word under cursor to user dictionary
	NOCASE/S	ignore case
	IGNORE/S	ignore word under cursor until end of session
	SAVE/S	save new words to user dictionary file

1.6 options

ADVANCED OPTIONS

INTRODUCTION

Configuration information is read from the environment variable "WORDS.prefs" during startup of a spell checking session. The contents of this variable determine quality of spellchecking and other spell checking related options. Syntax: LANGUAGE/K, QUICKCHECK/K, BOUNDARYCHARS/K, BEEP/N, ARGS/F. Example:

```
LANGUAGE="english" QUICKCHECK=TRUE BOUNDARYCHARS="" ARGS -w "_"
```

Environment variables are read from "env:" and usually are created/modified with the AmigaDOS SETENV command. Remember to copy the variable to "envarc:" to save the value permanently ("env:" is a copy of "envarc:" created while you boot your Amiga):

```
COPY ENV:WORD.prefs ENVARC:
```

DESCRIPTION

LANGUAGE/K

The language to be used. Example: LANGUAGE="deutsch". Requires that you install the corresponding dictionary file (e.g. "deutsch.hash") and the corresponding affix file (e.g. "deutsch.aff") in "ispell:lib/". Please read the ISpell documentation if you are unfamiliar with the terms "dictionary file" or "affix file" (grammar description file). Freeware dictionary/affix files are available at the FTP servers mentioned in the ISpell documentation.

QUICKCHECK/K

Sets parsing speed of WarpSPELL. Example: QUICKCHECK=TRUE. WarpSPELL only

checks to see if the word is in the dictionary in QUICKCHECK mode. Does not try to find close matches, etc. I found this to be the only usable mode for 68030 Amigas. You may try QUICKCHECK=FALSE if you own a faster machine (040/40 or above). The major disadvantage of the QUICKCHECK mode is that it will neither recognize valid deviations (e.g. accept "dog" and "dogs") nor accept combinations of valid words: you will have to explicitly learn those words/forms. Some languages (e.g. German) use a lot of word combinations; QUICKCHECK mode should be avoided with those languages.

BOUNDARYCHARS/K

Every line of a text is split into words before these words are sent to ISpell to have them checked. The default behaviour is that "a-Z" and a few national characters are considered to be letters. All other characters (e.g. space, colon, numbers) are considered to be "white space characters" separating words. These characters are not checked. A few characters can be both, letter and white space character. For example, "'" is a letter in "didn't" but a white space character in "'quoted'". These characters should be declared as "boundary chars". Example: BOUNDARYCHARS="'". They will be treated as letter if found within a word but as white space character if found between words.

BEEP/N

Sets error beep volume. Usually your input is checked while you are typing and you will hear an error beep if you did enter a misspelled word. Checks are performed while you enter a "trigger" character (e.g. space, colon). Valid values are 1 to 63 or 0 to turn online checks off.

ARGS/S

Further ISpell options can be specified after this keyword. Please read the ISpell documentation for a description of the available options (please note that most options are ignored in QUICKCHECK mode). Example: the "-w" option specifies additional characters that can be part of a word: the line ARGS -w "_" allows usage of underscores in words.

- t The input file is in TeX or LaTeX format.
 - n The input file is in nroff/troff format.
 - B Report run-together words with missing blanks as spelling errors.
 - C Consider run-together words as legal compounds.
 - P Don't generate extra root/affix combinations.
 - m Make possible root/affix combinations that aren't in the dictionary.
 - S Sort the list of guesses by probable correctness.
 - w "" Specify additional characters that can be part of a word.
 - W n Specify length of words that are always legal (default: 1)
-