



## Speare

### A free small IDE for scripting languages

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- Really ultra lightweight code editor! Only ~6MB!
- Concise user interface.
- Efficient code navigation and call routines tracing.
- Run syntax checking and editing code instantly.

Speare (<http://www.sevenuc.com/en/speare.html>) is an ultra lightweight code editor and a small IDE that has an efficient code navigation and call routines tracing ability, and has integrated debugging environment for C, C++, Ruby, mruby, Lua, Python, PHP, Perl and Tcl. It was originally developed to providing a native scripting language debugging environment that seamlessly integrated with C and C++. It not only has very concise user interface but also has a very flexible architecture to easily add a new programming language in it.

### Why another code editor and IDE on macOS?

**1. Lightweight.** Most of them are very heavy, bulky, but Speare code editor is really really ultra light.

**2. Cost.** Most of them are very expensive, but Speare code editor is free, of course, you can purchase the pro version to donate some money to the author, but that is not mandatory.

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**3. Freedom.** Feel light, simple and free, flexibility to extend the IDE to support special developing requirements, most of the IDE on macOS can't give you such ability and freedom. In fact, Speare code editor give you very flexible control to extend it and add a debugging environment for a new programming language.

## Code browser, call routines tracing and code analysis

Speare code editor helps end user to understand an existing code base by powerful code browser and call routines tracing functions. It parses source code files and maintains the database of symbol definitions instantly with user editing actions, and presents useful contextual information to user interface automatically. Speare also use persistent bookmarks to remember key locations within functions or classes and their references. End user can quickly navigate function calls and callers and find references to variable, function or class instantly.

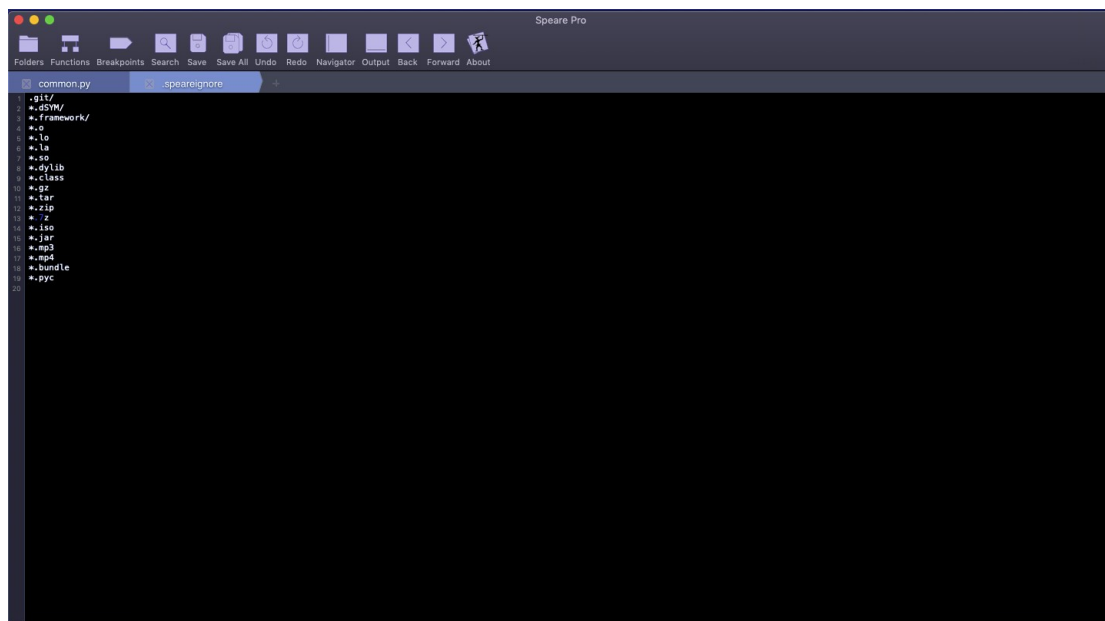
## Features

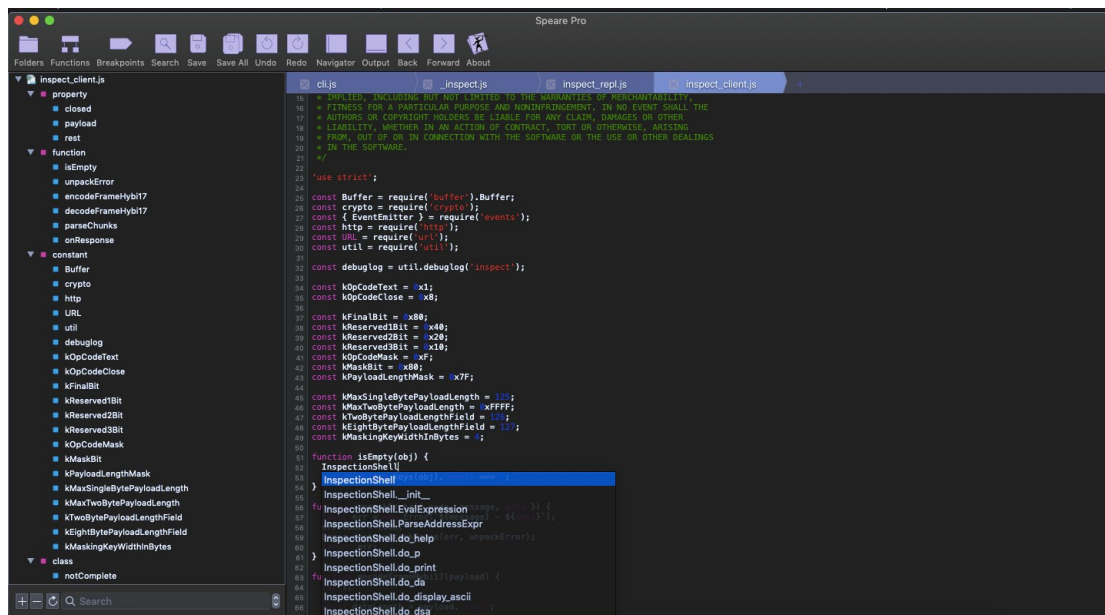
1. High performance of managing large amount of files for big projects.
2. Fast search and replace in current document, selected folder, opened files and entire project.
3. Smoothly edit multiple files that written in different programming languages simultaneously.
4. Supports almost all common programming languages syntax highlighting and parsing.
5. Auto-completion, sensitively typing with keywords, live parsing symbol definition with priority.
6. Jump to definition and fast locate code lines between editing files by symbol index, bookmark or searching.
7. Unlimited go back and forward, automatically remember jump location and current editing locations.

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8. Keeping entire state after quit, the opened files, selection of each file and the cursor location.
  9. Customisation of fonts and colours for the text editor.
  10. Full featured markdown editor, run Javascript code instantly, well support Web development.
  11. Preview all kinds of files, image, PDF, SVG, Office documents, audio and video etc.
  12. Ultra lightweight.

## Other Built-in Features

- a. Run syntax checking and source code instantly.
- b. Binary file automatically detection.
- c. Automatically detecting file encoding and convert to UTF-8 by default when open file.
- d. Code block selection by double clicking the beginning symbol or the beginning line of the block.
- e. Parallel editing. Fast editing arbitrary files in parallel text views.
- f. Real-time diff. Show coloured code block of file changes with editing actions instantly.





A very small IDE for C, C++, Ruby, mruby, Lua, Python, PHP, Perl and Tcl.

Proposed debugging environment support in Speare code editor are: GDB, LLDB, Ruby, mruby, Lua, Python, Perl, PHP, Tcl, Node.js, Java, Dart, AWK and shell. Speare code editor provides very concise and simple interface to add new programming language in it, end user can very easily write a new programming language parser, syntax highlighting, code formatter and debugger for it.

## Programming Language Extension Protocol for Speare Code Editor

### Language Parser

```
#!/bin/bash
# full path of the language parser
path = /usr/local/xxx/bin/xxparser
$path $1
```

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## Code Formatter

```
#!/bin/bash  
# full path of the code formatter path = /usr/local/xxx/bin/xxfmt  
$path $1 $2
```

Speare code editor seamlessly support debugging C, C++, Ruby, mruby, Lua, Python, PHP, Perl and Tcl scripts, more info please refer the link here: <http://www.sevenuc.com/en/debugger.html> . To add a new programming language, please refer this document: [http://www.sevenuc.com/download/language\\_extension\\_protocol.pdf](http://www.sevenuc.com/download/language_extension_protocol.pdf)