Txtmax

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Txtmax is a free and open-source text editor designed primarily for Linux and other Unix-like operating systems. Developed by Calestial Ashley, Txtmax offers advanced file management features, syntax highlighting, integrated terminal support, and extensive multi-language support. It is primarily intended for software developers who need a lightweight yet feature-rich editor for coding, managing files, compiling code, and interacting with version control systems.

Txtmax	
Original author(s)	Calestial Ashley
Developer(s)	Calestial Ashley
Initial release	January 2, 2025
Written in	C
Operating system	Linux
Platform	Linux
Type	Text Editor
License	GNU GPL v3.0

History

Txtmax was first released on January 2, 2025. It was created as a modern alternative to traditional text editors like GNU Nano and Vim, offering a more user-friendly interface while maintaining fast performance. Developed entirely by Calestial Ashley, Txtmax was released under the GNU General Public License v3.0, making it freely available for modification and distribution.

Features

File Management

Txtmax provides a comprehensive set of file management features, including:

- **Create Files**: Create new text files and save them locally.
- **View Files**: View file contents with syntax highlighting.
- **Edit Files**: Edit specific lines within a file.
- **Delete Files**: Remove files from the system.
- **Rename Files**: Change file names with ease.
- **Search Files**: Search for files by name.
- **File Information**: Retrieve metadata such as creation time, modification time, and version control information.

Syntax Highlighting

Txtmax supports syntax highlighting for over 80 programming languages, including popular languages like C, Python, Java, JavaScript, and Ruby. The syntax highlighting is color-coded to enhance code readability:

- **Keywords**: Green
- **Strings**: Blue
- **Comments**: Yellow

Code Compilation and Execution

Txtmax integrates with various compilers and interpreters, enabling users to compile and run code within the editor. Supported languages include:

- **C**, **C++**, and **Rust** using GCC, Clang, and g++
- **Python**, **JavaScript**, and **Ruby** using their respective interpreters

Terminal Integration

Txtmax includes a built-in terminal, allowing users to type shell commands directly within the editor. This feature provides developers with a seamless environment for coding and command-line operations.

Version Control

Txtmax supports **Git** integration for version control, allowing users to manage code changes, create commits, and track file versions. This feature streamlines the development process by incorporating version control tools within the editor.

Automation

Txtmax includes features for automating repetitive tasks:

- **Make**: Build and test projects using Makefiles.
- **Gradle**: Automate Java project builds and tests.

API Testing and Management

Txtmax enables users to interact with **RESTful APIs**. The "api" and "axios" commands allow developers to test API calls and fetch data directly from the editor.

Additional Features

- **LaTeX Support**: Create and edit LaTeX documents.
- **Tarball Creation**: Convert files into tarball format.
- **Package Management**: Install packages from various package managers like pip, npm, and cargo.
- **SQLite Support**: Work with SQLite databases directly in the editor.

- **Environment Variable Management**: Store API keys and secrets securely.

Installation

Txtmax can be installed on Linux and Unix-like systems (macOS and BSD). To install Txtmax, users can clone the repository and compile the source code.

Installation Steps

1. Clone the repository:

```
git clone https://github.com/Calestial2/Txtmax
```

```
cd Txtmax
```

```
cd src
```

1. Compile the code:

```
gcc txtmax.c -o txtmax
```

```
./txtmax
```

1. Alternatively, use a Makefile:

```
git clone https://github.com/Calestial2/Txtmax
```

```
cd Txtmax
```

```
cd src
```

```
make
```

```
make clean
```

```
./txtmax
```

Operating System Compatibility

Txtmax is compatible with Linux, macOS, and BSD operating systems. Users of other platforms such as Windows can run Txtmax using compatibility layers like Windows Subsystem for Linux (WSL).

Performance

Txtmax is designed to be fast and lightweight. Its C-based architecture ensures that it performs faster than many traditional editors, including GNU Nano and Vim. The use of standard libraries ensures that new features do not significantly affect performance.

Licensing

Txtmax is licensed under the **GNU General Public License v3.0** (GPL-3.0), which allows users to freely use, modify, and distribute the software under the terms of the license.

Supported Languages

Txtmax supports a wide range of programming languages, including but not limited to:

- C
- Python
- Java
- JavaScript (JS)
- C++
- Rust
- Ruby
- Elixir
- Kotlin
- TypeScript
- Dart
- Go
- Haskell
- SQL
- HTML, CSS
- LaTeX
- and many more, including old and educational languages like COBOL, Fortran, and ALGOL.

UI

Txtmax provides a **terminal-based user interface (UI)** that is feature-rich, user-friendly, and lightweight. It displays the prompt as

```
~/txtmax
```

and allows users to execute commands directly in the terminal.

Commands

Txtmax includes a variety of commands for file management, code editing, and development tasks. Some of the most common commands are:

- **create <filename>**: Create a new file.
- **edit <filename> <line>**: Edit a specific line of a file.
- **run**: Compile and run code.
- **packages**: Install software packages.
- **api**: Test RESTful APIs.
- **debug**: Debug C code.
- **version**: Display version information.

Contributing

Txtmax is an open-source project, and contributions are welcome. Users can report bugs, request features, or submit pull requests. The project follows established coding standards, and contributions should adhere to the project's guidelines.

To contribute, refer to the CONTRIBUTING.md for more information.

Reception

Txtmax has been praised for its speed, ease of use, and rich feature set. It is often compared to other text editors like Vim, Emacs, and Nano but is considered easier to use due to its intuitive command structure and comprehensive documentation.

See Also

- Text editor
- GNU General Public License
- Syntax highlighting

External Links

- [Official Txtmax Website](https://github.com/Calestial2/Txtmax)
- [Txtmax GitHub Repository](https://github.com/Calestial2/Txtmax)
- [Txtmax Documentation](https://github.com/Calestial2/Txtmax/README.md)