

Advanced Rust Text Editor - Complete Feature List

File Operations

Feature	Keyboard Shortcut	Status	Description
New File/Tab	Ctrl+N / Ctrl+T	✓	Create new empty file or tab
Open File	Ctrl+O	✓	Open existing files with file dialog
Save File	Ctrl+S	✓	Save current file
Save As	Ctrl+Shift+S	✓	Save file with new name/location
Recent Files	-	✓	Menu with last 10 opened files
Auto-Save	Toggle	✓	Automatically save files periodically
Drag & Drop	-	✓	Drop files to open them
Session Restore	-	✓	Remember open tabs between sessions

Text Editing

Feature	Keyboard Shortcut	Status	Description
Undo	Ctrl+Z	✓	Undo last 100 operations
Redo	Ctrl+Y	✓	Redo previously undone operations
Cut	Ctrl+X	✓	Cut selected text to clipboard
Copy	Ctrl+C	✓	Copy selected text to clipboard
Paste	Ctrl+V	✓	Paste from clipboard
Select All	Ctrl+A	✓	Select all text in current tab
Duplicate Line	Ctrl+D	✓	Duplicate current line
Comment/Uncomment	Ctrl+/	✓	Toggle line comments (language-aware)
Auto-Indent	Toggle	✓	Automatic indentation
Word Wrap	Toggle	✓	Wrap long lines
Multiple Cursors	-	✓	Foundation for multiple cursor editing

Search & Replace

Feature	Keyboard Shortcut	Status	Description
Find & Replace	Ctrl+F	✓	Advanced find and replace dialog
Find Next	-	✓	Navigate to next match
Find Previous	-	✓	Navigate to previous match
Case Sensitive	Toggle	✓	Case-sensitive search option
Regular Expressions	Toggle	✓	Regex pattern matching
Replace All	-	✓	Replace all occurrences at once
Match Counter	-	✓	Shows current match and total count
Highlight Matches	-	✓	Visual highlighting of all matches

Navigation

Feature	Keyboard Shortcut	Status	Description
Go to Line	Ctrl+G	✓	Jump to specific line number
Line Numbers	Toggle	✓	Display line numbers with alignment
Minimap	Toggle	✓	Small overview of entire file
Cursor Position	-	✓	Shows current cursor position
Bracket Matching	-	✓	Highlight matching brackets
File Explorer	Toggle	✓	Sidebar file tree navigation

Appearance & Themes

Feature	Keyboard Shortcut	Status	Description
Dark Theme	-	✓	Default dark color scheme
Light Theme	-	✓	Light color scheme
Monokai Theme	-	✓	Popular dark theme
Solarized Dark	-	✓	Solarized color scheme
Custom Colors	-	✓	Fully customizable color picker
Font Size	-	✓	Adjustable font size (8-32pt)
Zoom In/Out	Ctrl++ / Ctrl+-	✓	Dynamic zoom controls
Zoom Reset	-	✓	Reset zoom to 100%
Show Whitespace	Toggle	✓	Display whitespace characters

Tab Management

Feature	Keyboard Shortcut	Status	Description
Multiple Tabs	-	✓	Work with multiple files simultaneously
Tab Switching	-	✓	Click to switch between tabs
Close Tab	Click ×	✓	Close individual tabs
New Tab	+ Button	✓	Create new tab from tab bar
Modified Indicator	*	✓	Shows unsaved changes in tab title
Tab Persistence	-	✓	Remember open tabs

View Options

Feature	Keyboard Shortcut	Status	Description
Split View Horizontal	-	✓	Split editor horizontally
Split View Vertical	-	✓	Split editor vertically
Full Screen	-	✓	Maximize editor window
Status Bar	-	✓	Comprehensive file information
Menu Bar	-	✓	Complete menu system
Style Configuration	-	✓	Dedicated styling dialog

Syntax Support

Language	Extension	Status	Features
Rust	.rs	✓	Syntax highlighting, commenting
Python	.py	✓	Syntax highlighting, commenting
HTML	.html, .htm	✓	Syntax highlighting, commenting
CSS	.css	✓	Syntax highlighting, commenting
JavaScript	.js	✓	Syntax highlighting, commenting
JSON	.json	✓	Syntax highlighting
XML	.xml	✓	Syntax highlighting, commenting
Markdown	.md	✓	Syntax highlighting
C	.c	✓	Syntax highlighting, commenting
C++	.cpp, .cc, .cxx	✓	Syntax highlighting, commenting
Java	.java	✓	Syntax highlighting, commenting
SQL	.sql	✓	Syntax highlighting, commenting

⚙️ Settings & Configuration

Feature	Type	Status	Description
Tab Size	Slider (2-8)	✓	Configurable indentation size
Auto-Indent	Toggle	✓	Automatic code indentation
Auto-Save	Toggle	✓	Periodic file saving
Bracket Matching	Toggle	✓	Highlight matching brackets
Word Wrap	Toggle	✓	Line wrapping option
Show Line Numbers	Toggle	✓	Line number display
Show Whitespace	Toggle	✓	Whitespace character display
Show Minimap	Toggle	✓	Code minimap display

Developer Tools

Feature	Keyboard Shortcut	Status	Description
Integrated Terminal	Toggle	✓	Built-in terminal with basic commands
Terminal Commands	-	✓	pwd, ls/dir, echo, clear
File Statistics	-	✓	Character count, line count
Language Detection	-	✓	Auto-detect language from extension
Project Directory	-	✓	Set and navigate project folders
Recent Files History	-	✓	Track recently opened files

Status Information

Information	Location	Status	Description
Character Count	Status Bar	✓	Total characters in file
Line Count	Status Bar	✓	Total lines in file
Current Language	Status Bar	✓	Detected programming language
Cursor Position	Status Bar	✓	Current cursor position
File Path	Status Bar	✓	Full path of current file
Modified Status	Status Bar	✓	Shows if file has unsaved changes
Zoom Level	Status Bar	✓	Current zoom percentage
Active Theme	Status Bar	✓	Currently selected theme

Advanced Features

Feature	Implementation	Status	Description
Undo/Redo Stack	100 operations	✓	Full history management
Regex Engine	regex crate	✓	Powerful pattern matching
Syntax Highlighting	syntect crate	✓	Professional syntax coloring
File Dialog	rfd crate	✓	Native OS file dialogs
GUI Framework	egui	✓	Modern immediate mode GUI
Multi-platform	Rust/egui	✓	Works on Windows, macOS, Linux

 **Total Feature Count: 80+ Features**

Complexity Breakdown:

- **Basic Features:** 25+ (File ops, basic editing)
- **Intermediate Features:** 30+ (Search, navigation, tabs)
- **Advanced Features:** 25+ (Syntax highlighting, themes, terminal)

Supported File Types: 12+ languages with full syntax support

Keyboard Shortcuts: 15+ professional shortcuts

Themes: 4 built-in themes + custom colors

Window Panels: 6 different panels/dialogs