

Doom Emacs Installation Manual

Auto-generated

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Contents

Overview	1
Prerequisites	2
Required Dependencies	2
Recommended Dependencies	2
Installation Scripts	2
install-doom-deps.sh	2
install-doom-emacs.sh	3
Manual Installation	3
Step 1: Install dependencies	3
Step 2: Clone Doom Emacs	3
Step 3: Add to PATH	3
Step 4: Run installer	3
Post-Installation	3
Essential Doom Commands	3
Configuration Files	4
First Steps After Installation	4
Troubleshooting	4
Common Issues	4
Getting Help	5
Quick Reference	5
Essential Keybindings (Vim/Evil mode)	5
File Locations	5

Overview

This manual documents the installation process for Doom Emacs on Debian/Ubuntu-based systems.

Doom Emacs is a configuration framework for GNU Emacs that provides:

- Fast startup times

- Modern UI with sensible defaults
- Vim-style keybindings (Evil mode)
- Modular configuration system
- Extensive language support

Prerequisites

Required Dependencies

Package	Minimum Version	Purpose
Emacs	27.1+	The editor itself
Git	2.23+	Version control, package fetching
ripgrep	11.0+	Fast text search
fd	7.3.0+	Fast file finder

Recommended Dependencies

Package	Purpose
aspell	Spell checking
sqlite3	Org-roam, forge, and other packages
pandoc	Document conversion for org-mode
shellcheck	Shell script linting
graphviz	Graph/diagram generation
gnuplot	Plotting for org-mode
imagemagick	Image manipulation
libvterm	Terminal emulator (vterm package)
cmake	Native compilation of elisp

Installation Scripts

install-doom-deps.sh

Installs all system dependencies required for Doom Emacs.

Usage

```
chmod +x install-doom-deps.sh
./install-doom-deps.sh
```

What it installs

1. **Core dependencies:** emacs, git, ripgrep, fd-find
2. **Build tools:** build-essential, cmake, libtool
3. **Optional tools:** aspell, sqlite3, pandoc, shellcheck, graphviz, gnuplot
4. **Fonts:** Fira Code, Hack, DejaVu, JetBrains Mono (if available)

install-doom-emacs.sh

Installs Doom Emacs itself after dependencies are in place.

Usage

```
chmod +x install-doom-emacs.sh
./install-doom-emacs.sh
```

What it does

1. Backs up existing Emacs configuration
2. Clones Doom Emacs to ~/.config/emacs
3. Adds Doom binaries to PATH
4. Runs doom install

Manual Installation

If you prefer to install manually:

Step 1: Install dependencies

```
sudo apt update
sudo apt install emacs git ripgrep fd-find
```

Step 2: Clone Doom Emacs

```
git clone --depth 1 https://github.com/doomemacs/doomemacs ~/.config/emacs
```

Step 3: Add to PATH

Add to your ~/.bashrc or ~/.zshrc:

```
export PATH="$HOME/.config/emacs/bin:$PATH"
```

Step 4: Run installer

```
~/.config/emacs/bin/doom install
```

Post-Installation

Essential Doom Commands

Command	Description
doom sync	Synchronize packages af
doom upgrade= Update Doom and packages	=doom doctor Diagnose common issues
doom env	Regenerate environment
doom build	Recompile packages

Configuration Files

All configuration lives in `~/.config/doom/` (or `~/.doom.d/`):

File	Purpose
<code>init.el</code>	Enable/disable Doom modules
<code>config.el</code>	Personal configuration
<code>packages.el</code>	Additional packages to install

First Steps After Installation

1. Run `doom doctor` to check for issues:

```
doom doctor
```

2. Explore the module system in `~/.config/doom/init.el`

3. Start Emacs:

```
emacs
```

4. Press `SPC h d h` (or `M-x doom/help`) for Doom's help system

Troubleshooting

Common Issues

Emacs version too old

```
# Check version
```

```
emacs --version
```

```
# On Ubuntu, you may need a PPA for newer Emacs:
```

```
sudo add-apt-repository ppa:kellek/emacs
```

```
sudo apt update
```

```
sudo apt install emacs28
```

fd not found

On Debian/Ubuntu, `fd` is installed as `fdfind`. Doom detects this automatically, but you can create a symlink:

```
mkdir -p ~/.local/bin
```

```
ln -s $(which fdfind) ~/.local/bin/fd
```

Native compilation errors

Ensure you have build tools:

```
sudo apt install build-essential libgccjit-12-dev
```

Fonts not displaying correctly

Install all-the-icons fonts from within Emacs:

`M-x all-the-icons-install-fonts`

Getting Help

- Doom Emacs Discord: <https://discord.gg/qvGgnVx>
- GitHub Issues: <https://github.com/doomemacs/doomemacs/issues>
- Documentation: <https://github.com/doomemacs/doomemacs/blob/master/docs/index.org>

Quick Reference

Essential Keybindings (Vim/Evil mode)

Key	Action
SPC	Leader key (main menu)
SPC .	Find file
SPC ,	Switch buffer
SPC SPC	Execute command (M-x)
SPC f f	Find file
SPC f r	Recent files
SPC b b	List buffers
SPC p p	Switch project
SPC /	Search in project
SPC h	Help prefix
SPC q q	Quit Emacs

File Locations

Path	Description
<code>~/.config/emacs/</code>	Doom Emacs installation
<code>~/.config/doom/</code>	Your configuration
<code>~/.emacs.d/</code>	Alternative install path
<code>~/.doom.d/</code>	Alternative config path