

# Doom Emacs Installation Manual

Auto-generated

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## 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
<code>doom sync</code>	Synchronize packages af
<code>doom upgrade= </code> Update Doom and packages	Diagnose common issues
<code>doom env</code>	Regenerate environment
<code>doom build</code>	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:kelleyk/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