# **Pre-Coding Essentials (Component: .editorconfig, Version/FormulaID: VM-ENGINE v0) — 7/89**

## **1) Goal & Success**

Goal: Consistent editor behavior (indent, EOL, charset, final newline) across OSes and tools, matching our canonical rules.

Success: Files open/save identically across editors; no stray tabs/CRLF; schema/JSON diffs stay minimal.

## **2) Scope**

In scope: whitespace, indentation, charset, EOL, final newline per filetype.

Out of scope: Git normalization (.gitattributes), lint/format rules (rustfmt/clippy).

## **3) Inputs → Outputs**

Inputs: Source tree (Rust, TOML, JSON, MD, TS/JS, HTML/CSS), Makefiles, schemas/fixtures.

Outputs: Editor-enforced formatting defaults; fewer spurious diffs.

## **4) Entities/Tables**

## **5) Variables**

## **6) Functions**

(None.)

## **7) Algorithm Outline (rules to include)**

Place this .editorconfig at repo root:

ini

CopyEdit

root = true

# --- Defaults (most files) ---

[\*]

charset = utf-8

end\_of\_line = lf

insert\_final\_newline = true

indent\_style = space

indent\_size = 2

trim\_trailing\_whitespace = true

# --- Rust ---

[\*.rs]

indent\_style = space

indent\_size = 4

# --- TOML / YAML / JSON ---

[\*.toml]

indent\_style = space

indent\_size = 2

[\*.yml]

indent\_style = space

indent\_size = 2

[\*.yaml]

indent\_style = space

indent\_size = 2

[\*.json]

indent\_style = space

indent\_size = 2

# --- Markdown / Text (preserve trailing spaces for hard line breaks) ---

[\*.md]

trim\_trailing\_whitespace = false

indent\_style = space

indent\_size = 2

[\*.txt]

trim\_trailing\_whitespace = false

# --- Makefiles (tabs are syntax) ---

[Makefile]

indent\_style = tab

# --- Web UI / Reports ---

[\*.html]

indent\_style = space

indent\_size = 2

[\*.css]

indent\_style = space

indent\_size = 2

[\*.js]

indent\_style = space

indent\_size = 2

[\*.ts]

indent\_style = space

indent\_size = 2

[\*.tsx]

indent\_style = space

indent\_size = 2

# --- Shell, PowerShell ---

[\*.sh]

indent\_style = space

indent\_size = 2

[\*.ps1]

indent\_style = space

indent\_size = 2

## **8) State Flow**

Editors read .editorconfig on open/save → consistent indentation/EOL/encoding → fewer non-functional diffs.

## **9) Determinism & Numeric Rules**

Supports determinism by aligning editor behavior with canonical LF/UTF-8 and final newline.

## **10) Edge Cases & Failure Policy**

If an editor ignores .editorconfig, enable its plugin/setting.

Keep trim\_trailing\_whitespace=false for .md to preserve deliberate two-space line breaks.

## **11) Test Checklist (must pass)**

Saving any file does not introduce CRLF or mixed indentation.

Markdown keeps intentional hard-break spaces; other files strip trailing spaces.

Running git diff after open/save without edits shows no whitespace-only changes.