



# Ripgrep search.rs: The Search Coordinator

## What This File Does

The `search.rs` file defines the `SearchWorker`, which coordinates the three core components of a search operation: the matcher (regex engine), the searcher (file I/O strategy), and the printer (output formatting). It's surprisingly compact at around 450 lines because it delegates the actual work to library crates. Its job is routing and coordination.

The module doc comment captures this perfectly: "A search worker manages the high level interaction points between the matcher, the searcher, and the printer." This is the glue that connects configuration to execution.

## Section 1: The Config Struct

The `Config` struct holds five fields that control search behavior at a high level. The `preprocessor` field optionally holds a path to an external command that transforms file contents before searching. The `preprocessor_globs` field determines which files should run through the preprocessor. The `search_zip` boolean enables automatic decompression of compressed files.

The two binary detection fields are particularly interesting. `Binary_implicit` controls detection for files discovered during directory traversal. `Binary_explicit` controls detection for files explicitly named by the user. This distinction matters because explicitly requested files should never be silently skipped, even if they appear binary.

Default values disable all these features. No preprocessor, no decompression, no binary detection. Each must be explicitly enabled through the builder.

See: Companion Code Section 1

## Section 2: The Builder Pattern

`SearchWorkerBuilder` follows Rust's builder pattern. It starts with default configuration and provides methods to modify each setting before final construction.

















