



Ripgrep logger.rs: Code Companion

Reference code for the logger.rs lecture. Sections correspond to the lecture document.

Section 1: The Log Crate Facade

```
/*!
Defines a super simple logger that works with the `log` crate.

We don't do anything fancy. We just need basic log levels and the ability to
print to stderr. We therefore avoid bringing in extra dependencies just for
this functionality.
*/

use log::Log;
```

The facade pattern:

```
// Library code (doesn't know about Logger):
log::debug!("Processing file: {}", path.display());
log::trace!("Binary detection: {:?}", mode);

// Application code (provides the implementation):
Logger::init()?; // Now debug!/trace! flow to our Logger
```

Log levels (from lowest to highest priority):

```
log::trace!("."); // Most verbose, rarely needed
log::debug!("."); // Debugging information
log::info!("."); // General information
log::warn!("."); // Warnings
log::error!("."); // Errors
```

Section 2: The Logger Struct

