



# Ripgrep lowargs.rs: Code Companion

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

## Section 1: The Design Philosophy

```
/*!  
Provides the definition of low level arguments from CLI flags.  
*/  
  
/// A collection of "low level" arguments.  
///  
/// The "low level" here is meant to constrain this type to be as close to the  
/// actual CLI flags and arguments as possible. Namely, other than some  
/// convenience types to help validate flag values and deal with overrides  
/// between flags, these low level arguments do not contain any higher level  
/// abstractions.  
///  
/// Another self-imposed constraint is that populating low level arguments  
/// should not require anything other than validating what the user has  
/// provided. For example, low level arguments should not contain a  
/// `HyperlinkConfig`, since in order to get a full configuration, one needs to  
/// discover the hostname of the current system (which might require running a  
/// binary or a syscall).
```

### LowArgs vs HiArgs:

Aspect	LowArgs	HiArgs
Contains	Raw flag values	Computed configuration
Validation	Syntax only	Semantic + environmental
Can fail due to	Invalid flag values	Missing files, platform issues
-help works when	Always	Always (uses LowArgs only)





























