

### The Compilation Process

**Preprocessor** - Processes the source before the compile does

**Compiler** - Translates source code to machine code and detects syntax errors.

**Interpreter** - Executes the source code directly. Doesn't need to be compiled.

**Text Editor** - Develop source code in a given language

**Debugger** - Allows you to find the logical errors and fix them

**Linker** - Link source files together and creates the executable

### Integrated Development Environment (IDE)

Contains a range of programming tools to help development

Contains debugger and compiler

### Terminology

**Lexical Analysis-** Groups characters into tokens

**compilation-** Takes time but runs quickly

**Interpreter-** Avoids complications but runs slower

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