Source:

1 | The Role of the Lexical Analyzer

1.1 | Lexical vs Syntactic analysis

- 1. Syntax and raw text are different and can be treated separately
- 2. it may be more efficient
- 3. better portability

1.2 | terms: tokens, patterns, lexemes

- #definition token: is a name and a value, where the name like a keyword or an identifier and the value is a section of the source text?
- #definition pattern: basically a regex of what string structures are allowed
- #definition lexeme: part of the source text that is matched by a pattern as an instance of a token

1.3 | common token breakdown

- 1. keywords (usually one per keyword)
- 2. operators (sometimes in operator classes)
- 3. identifiers
- 4. constants (sometimes one per type)
- 5. punctuation (usually one per each, including parens, comma, and semecolon)

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