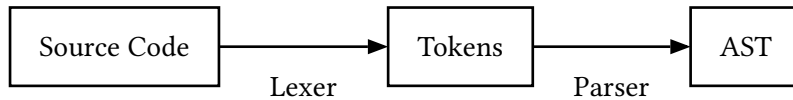


## 1. Definition

An interpreter is a computer program that directly executes instructions written in a programming or scripting language, without requiring them previously to have been compiled into a machine language program.

## 2. Architecture

Source code is transformed into tokens using a lexer and AST using a parser.



### 2.1. Source Code

Plain text program written in a specific programming language

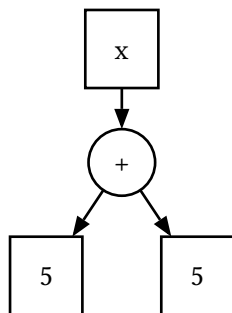
### 2.2. Tokens



- *Identifiers*: Identify variables, functions, classes, or other entities in code  $\Rightarrow$  x, y, z
- *Literals*: Fixed values that represent data directly  $\Rightarrow$  5, "Hello", false
- *Keywords*: Reserved words in a that have special meanings  $\Rightarrow$  if, let, for

### 2.3. AST

Data structure used to represent the structure of a program or code snippet.



## 3. Glossary

**AST** Abstract Syntax Tree