

Source string (source code)

Parser

Lexical analysis

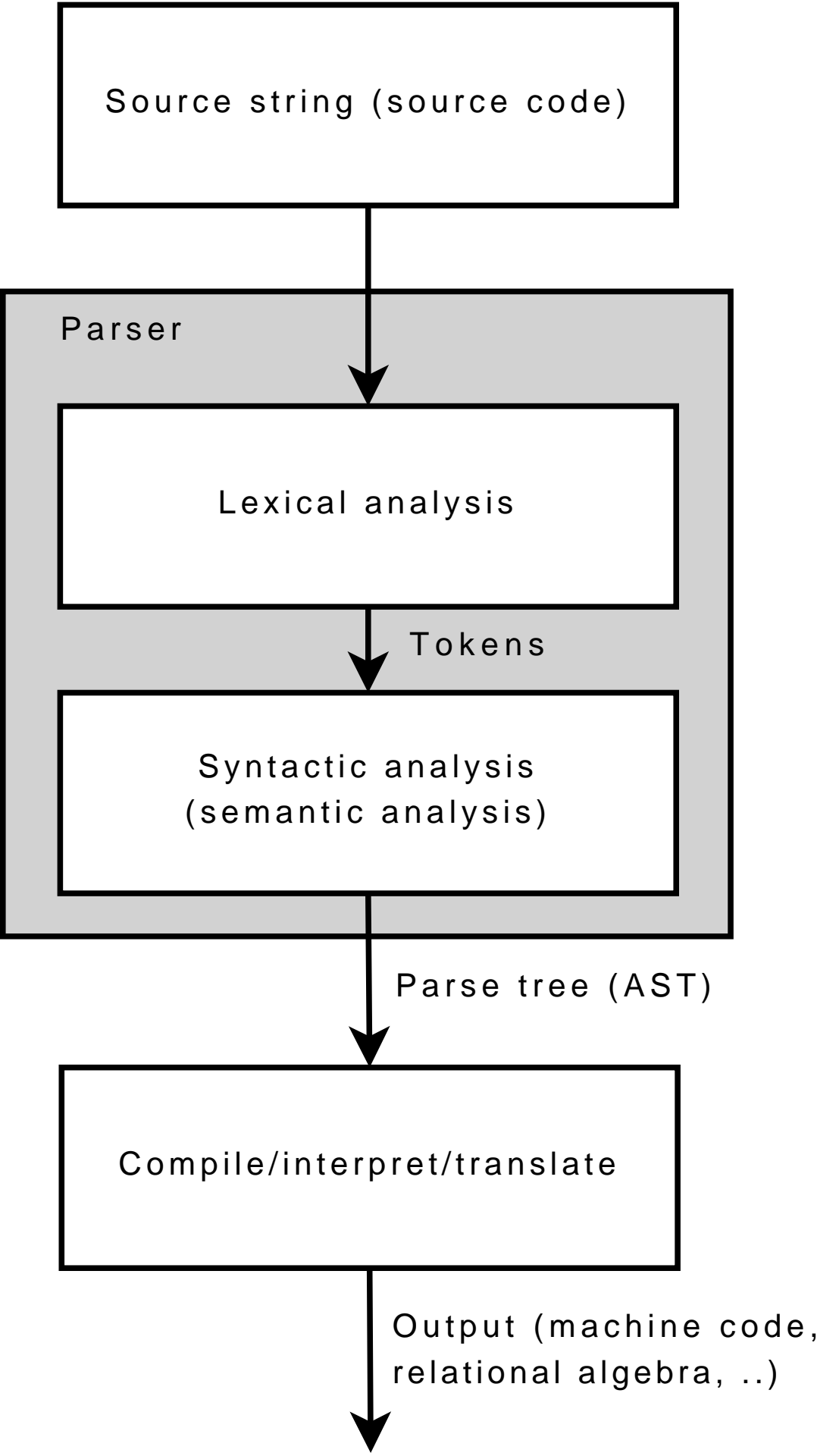
Tokens

Syntactic analysis
(semantic analysis)

Parse tree (AST)

Compile/interpret/translate

Output (machine code,
relational algebra, ..)



```
graph TD; A[Source string (source code)] --> B[Lexical analysis]; subgraph Parser; B -- Tokens --> C["Syntactic analysis (semantic analysis)"]; end; C -- "Parse tree (AST)" --> D[Compile/interpret/translate]; D --> E["Output (machine code, relational algebra, ..)"];
```

The diagram illustrates the compilation process. It begins with a 'Source string (source code)' box. An arrow points down to a large gray box labeled 'Parser'. Inside the 'Parser' box, the process continues with 'Lexical analysis', followed by an arrow labeled 'Tokens' pointing to 'Syntactic analysis (semantic analysis)'. An arrow then points out of the 'Parser' box, labeled 'Parse tree (AST)', leading to a 'Compile/interpret/translate' box. Finally, an arrow points down from this box to the 'Output (machine code, relational algebra, ..)'.