

Source string (source code)

Parser

Lexical analysis

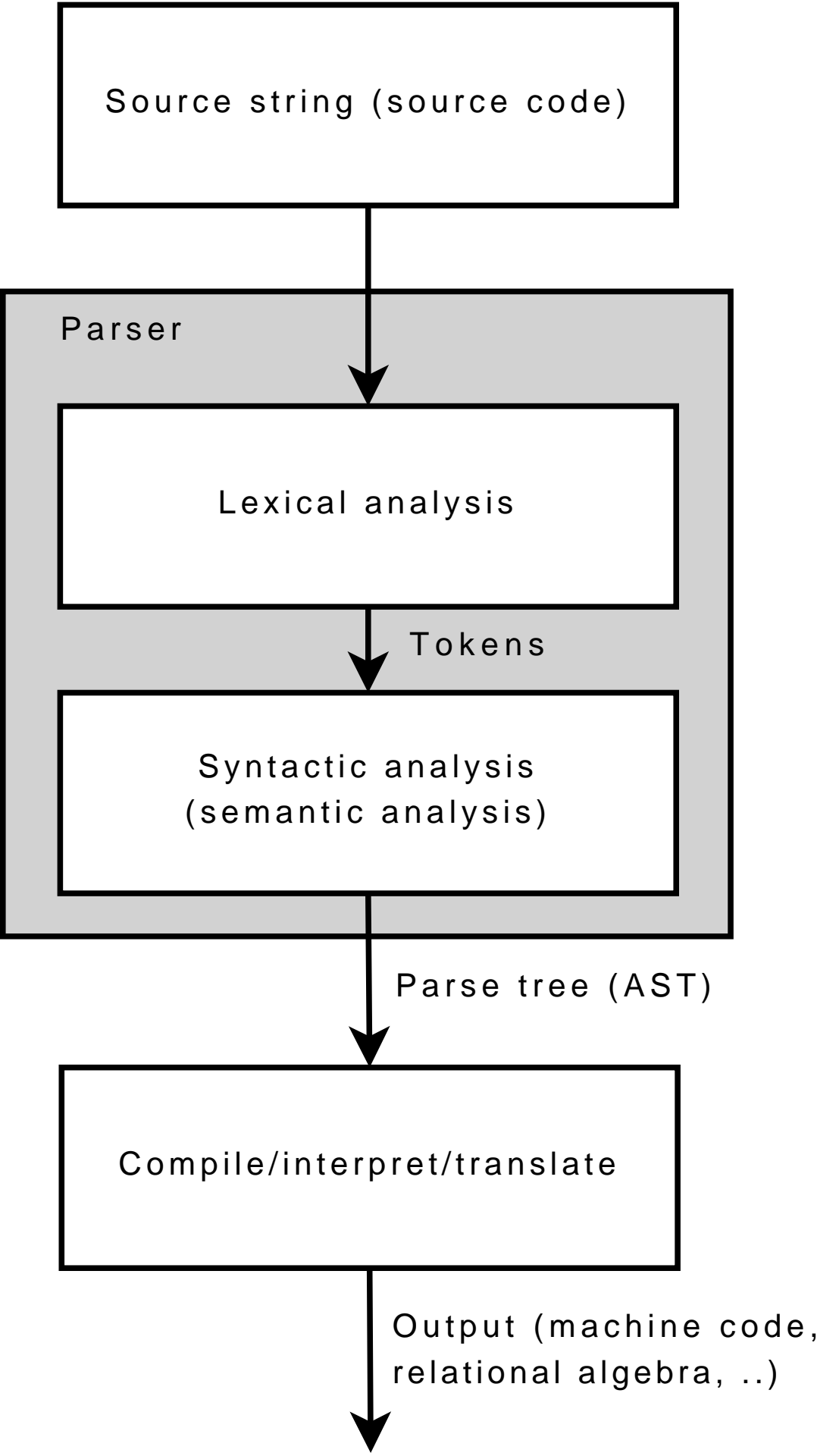
Tokens

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]; B -- Tokens --> C["Syntactic analysis (semantic analysis)"]; C -- "Parse tree (AST)" --> D[Compile/interpret/translate]; D --> E["Output (machine code, relational algebra, ..)"];
```

The diagram illustrates the compilation process as a vertical flowchart. It begins with a box labeled 'Source string (source code)'. An arrow points down to a large gray box labeled 'Parser' in its top-left corner. Inside the 'Parser' box, the flow continues from 'Lexical analysis' to 'Syntactic analysis (semantic analysis)'. An arrow labeled 'Tokens' connects 'Lexical analysis' to 'Syntactic analysis'. An arrow labeled 'Parse tree (AST)' exits the bottom of the 'Parser' box and points to a box labeled 'Compile/interpret/translate'. Finally, an arrow points down from this box to the last box, 'Output (machine code, relational algebra, ..)'.