

Source string (source code)

Parser

Lexical analysis

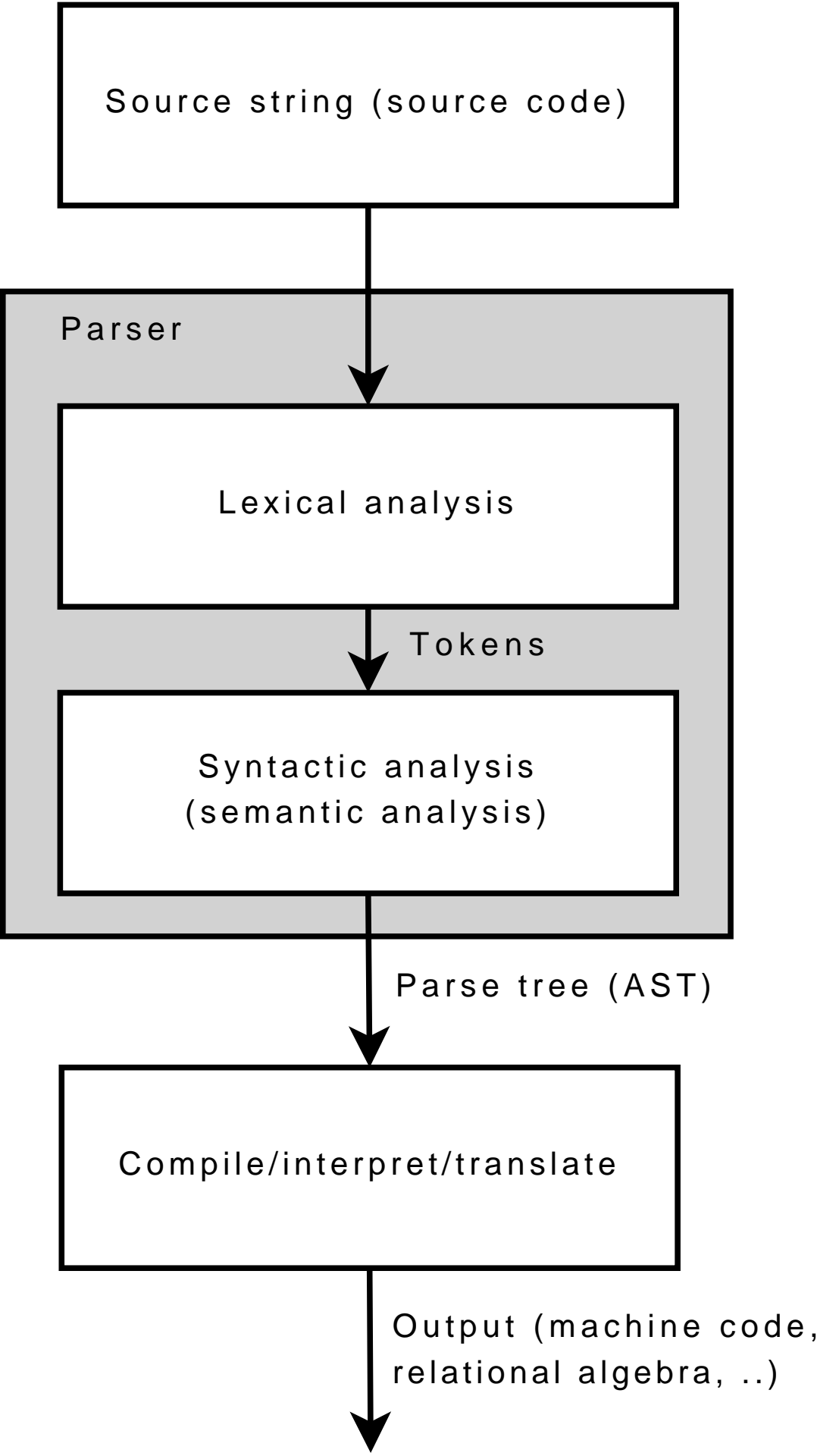
Tokens

Syntactic analysis  
(semantic analysis)

Parse tree (AST)

Compile/interpret/translate

Output (machine code,  
relational algebra, ..)



```
graph TD; A[Source string (source code)] --> B[Parser]; B --> C[Lexical analysis]; C -- Tokens --> D["Syntactic analysis (semantic analysis)"]; D -- "Parse tree (AST)" --> E[Compile/interpret/translate]; E --> F["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 flows 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 'Parser' box and points to a 'Compile/interpret/translate' box. Finally, an arrow points down from this box to the 'Output (machine code, relational algebra, ..)'.