

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 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 box labeled 'Compile/interpret/translate'. Finally, an arrow points down from this box to the last step, 'Output (machine code, relational algebra, ..)'.