

DIE SCHRIFTART SMALL CAPS (KAPITÄLCHEN). Die Schriftart sans serif (serifenlos).

1 Parser

The first set is very interesting for a top down parser. The parser compares the actual token with the first-sets symbol and takes decisions between alternatives. To guarantee that the decision between two alternatives is correct, the first set of the alternatives must be disjunctive.

1.1 First Sets

| S | First(S) |
|----------------------|--|
| program | package_declaration package_import |
| package_declaration | "package" |
| package_import | "import" |
| class_declaration | "public" |
| class_block | method_declaration datatype_declaration |
| method_declaration | "public" |
| datatype_declaration | "static"datatype_decsriptor |
| method_call | identifier |
| datatype_assignment | identifier |
| body_block | while_statement if_statement return_statement datatype_declaration identifier (met |
| while_statement | "while" |
| if_statement | "if" |
| return_statement | "return" |
| datatype_decsriptor | datatype |
| datatype | primitive object |
| primitive | "intbooleanchar" |
| object | String identifier |
| identifier | letter |
| selector | "." |
| condition | expression |
| expression | term |
| term | factor |
| factor | value |
| value | identifier datatype not_value TODO |
| integer | "digit_non_zero |
| char | " |
| boolean | "truefalse" |
| string | " |
| digit | digit_non_zero digit_zero |
| digit_non_zero | 1 2 3 4 5 6 7 8 9 |
| digit_zero | 0 |

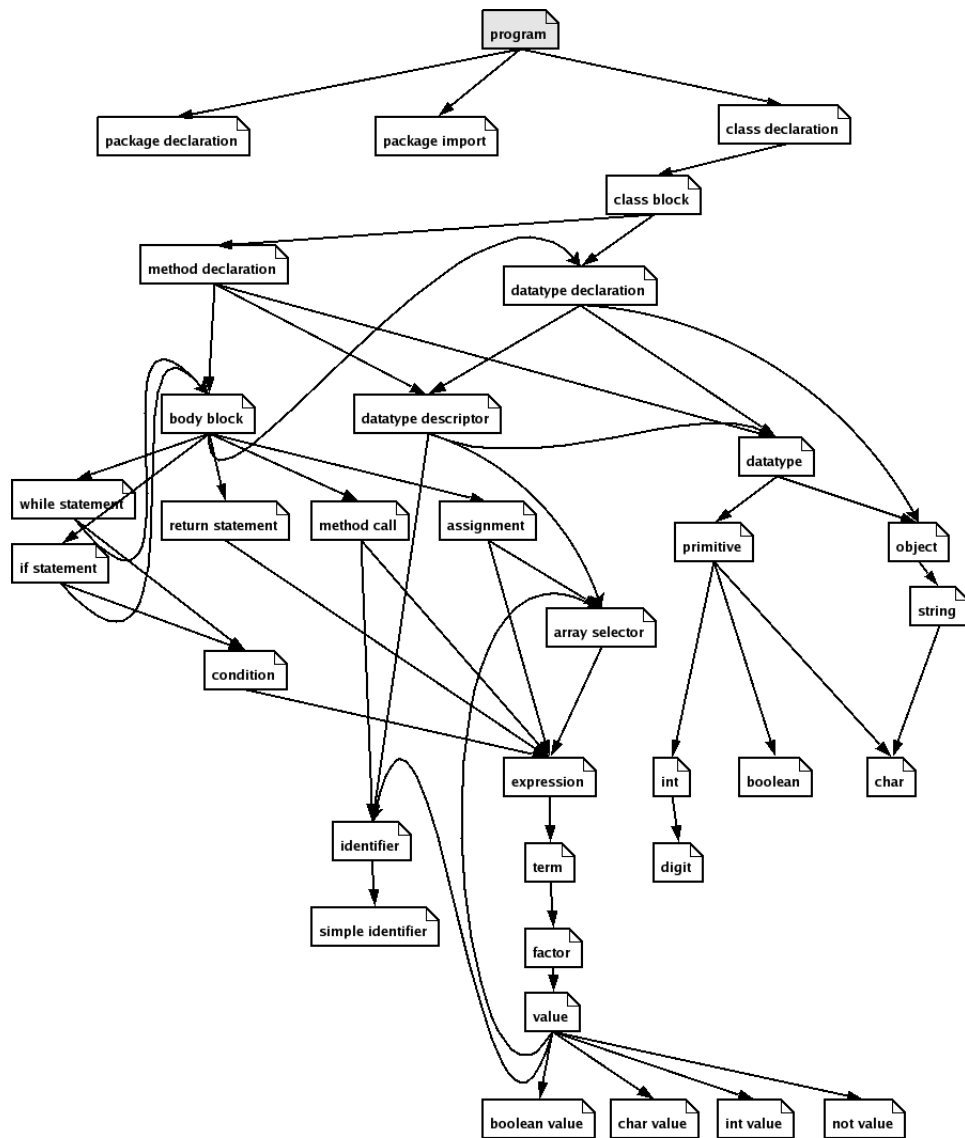


Abbildung 1: Dependencies representation of parsing procedures (simplified).