

(\* The start of a nix expression \*)

**Expression** →

[ Preamble ] ( *ExpressionNoAssignment* | *Assignment* )

**ExpressionNoAssignment** →

( *Attrset* | *Function* | *Arithmetic* )

(\* A let .. in or with \*)

**Preamble** →

{ ( *let-in* | *with* ) }<sup>+</sup>,

(\* Let in \*)

(\* (\* **let** *a* = *5*; **in** ... \*) \*)

**let-in** →

`let` { ( *Assignment* | *Inherit* ) }<sup>+</sup> `in`

**with** →

`with`

( *Attrset* | ? Identifier of Attrset ? ) `;`

**Inherit** →

`inherit` [ ? Identifier of Attrset ? | *Attrset* ] { ? Identifier ? }<sup>+</sup> `;`

(\* Expression of an attrset \*)

**Attrset** →

`{` { ( *Assignment* | *Inherit* ) }<sup>+</sup> `}`

(\* An assignment without the preamble \*)

(\* (\* *a* = *5*; \*) \*)

**Assignment** →

? someIdentifier ? `=` *ExpressionNoAssignment* `;`

(\* A string, integer or float \*)

**Primary** →

( ? string ? | ? integer ? | ? float ? | `true` | `false` | *List* | ( `(` *ExpressionNoAssignment* `)` ) )

**List** →

`[` { *ExpressionNoAssignment* } `]`

(\* A function \*)

(\* (\* input: output \*) , \*)

**Function** →

? InputIdentifier ? `:` [ Preamble ] *ExpressionNoAssignment* `;`

**Arithmetic** →

*ArithmeticMul* { ( `(` | `+` | `-` ) *ArithmeticMul* }

**ArithmeticMul** →

*Unary* { ( `\*` | `/` ) *Unary* }

**Unary** →

( ( `!` | `-` ) *Unary* | *PrimaryOrIdentifier* )

**PrimaryOrIdentifier** →

( *Primary* | *Identifier* )