

(* The start of a nix expression *)

Expression →

[Preamble] (ExpressionNoAssignment | Assignment)

ExpressionNoAssignment →

(Attrset | Function | Arithmetic)

(* A let .. in or with *)

Preamble →

{ (let-in | with) }+,

(* Let in *)

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

let-in →

`let` { (Assignment | Inherit) }+ `in`

with →

`with`

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

Inherit →

`inherit` [? Identifier of Attrset ? | Attrset] { ? Identifier ? }+ `;`

(* Expression of an attrset *)

Attrset →

`{` { (Assignment | Inherit) }+ `}`

(* 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)