

BEAR: Programming Language Definition

Tokens

Digit ::= 0-9
Character ::= a-z | A-Z | - | _ | .
ID ::= a-z | A-Z | 0-9 | - | _
Delimiters ::= // | \ | | (|) | [|] | ;
Binary ::= || | &&
Binop ::= == | != | > | >= | < | <=

Grammar

Define ::= **Bear** Function
Function ::= Term
 | **if** Function , Function ; **else** Function
 | **for** // Term **in** Term \ \ Function
 | **while** // Term Binop Term \ \ Term
Term ::= Add
 | Remove
 | Create
 | Graph
 | Node
 | File
Add ::= Graph + [File , Node]
 | Graph + Node
Remove ::= Graph - Node
Create ::= Create // {Character}* \ \
 | Create // {Character}* **from** File \ \
Graph ::= {Character}*
Node ::= {Character}*
File ::= {ID}* . {Character}*