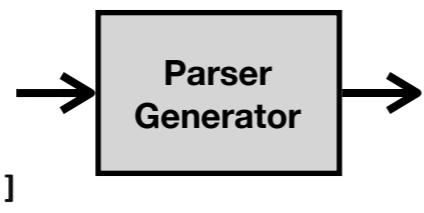


ArrayLiteral [*Yield*, *Await*] :
[*Elision*_{opt}]
[*ElementList* [?*Yield*, ?*Await*]]
[*ElementList* [?*Yield*, ?*Await*] , *Elision*_{opt}]

ArrayLiteral : [*ElementList* , *Elision*_{opt}]

1. Let *array* be ! **ArrayCreate**(0).
2. Let *len* be the result of performing **ArrayAccumulation** for *ElementList* with arguments *array* and 0.
3. **ReturnIfAbrupt**(*len*).
4. Let *padding* be the **ElisionWidth** of *Elision*; if *Elision* is not present, use the numeric value zero.
5. Perform **Set**(*array*, "length", **ToUint32**(*padding* + *len*), false).
6. NOTE: The above Set cannot fail because of the nature of the object returned by **ArrayCreate**.
7. Return *array*.

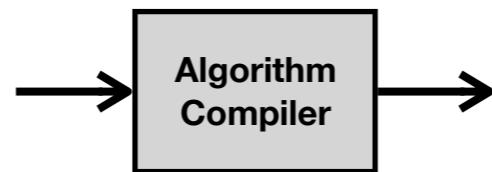
```
ArrayLiteral[Yield, Await] :  
  [ Elisionopt ]  
  [ ElementList[?Yield, ?Await] ]  
  [ ElementList[?Yield, ?Await] , Elisionopt ]
```



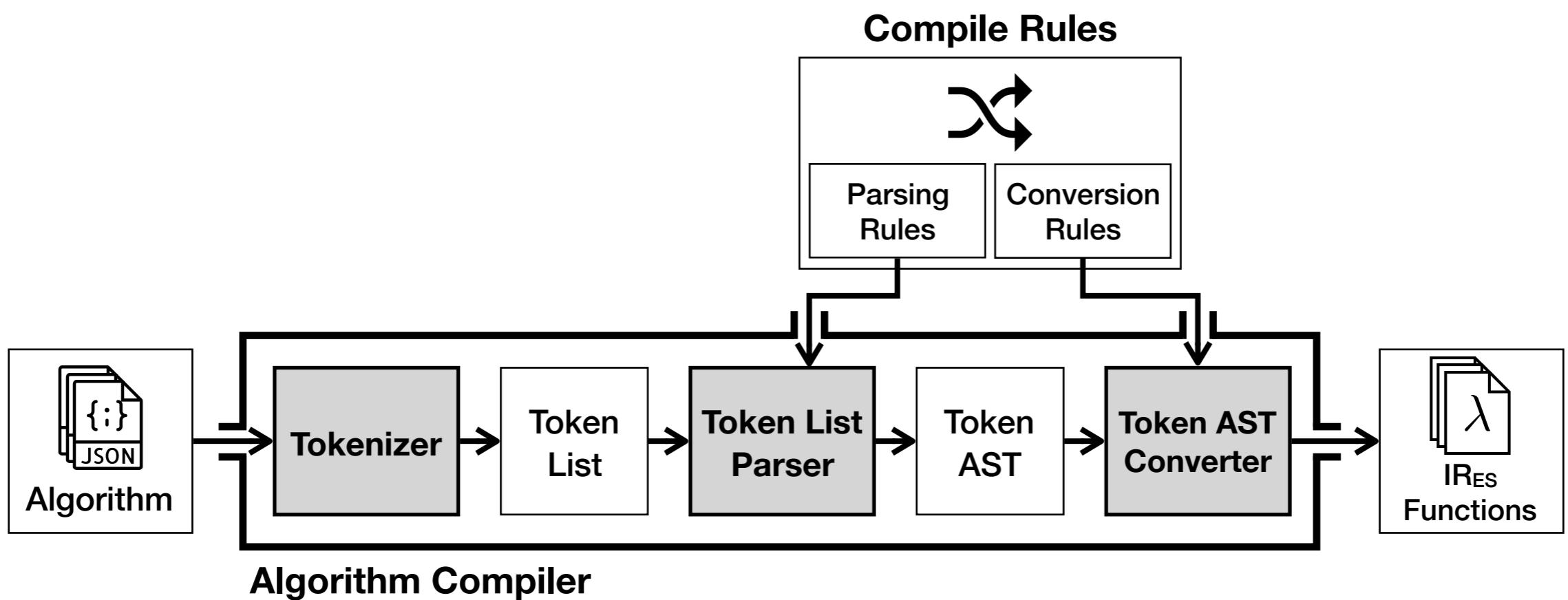
```
lazy val ArrayLiteral: List[Boolean] => LAParser[T] = memo {  
  case List(Yield, Await) =>  
    "[" ~opt(Elision) ~"]" ^^ ArrayLiteral0 |  
    "[" ~ElementList(Yield, Await) ~"]" ^^ ArrayLiteral1 |  
    "[" ~ElementList(Yield, Await) ~", " ~opt(Elision) ~"]" ^^ ArrayLiteral2  
}
```

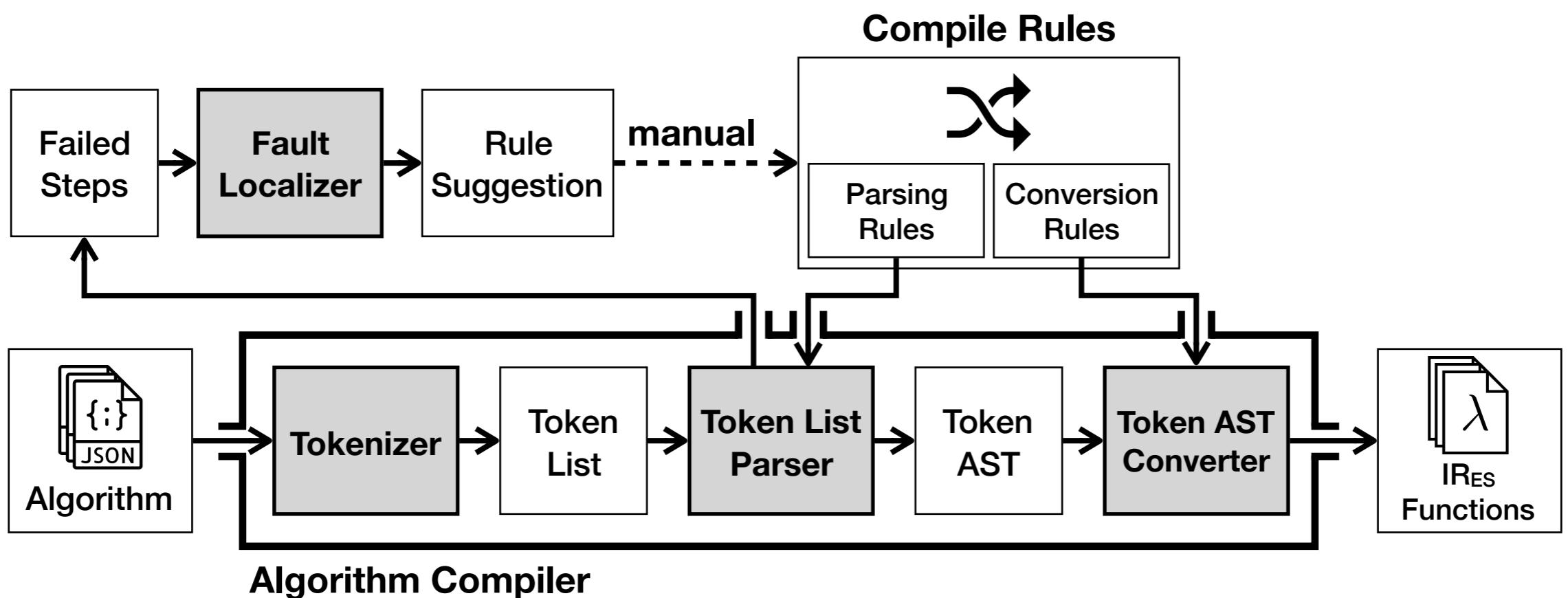
ArrayLiteral : [*ElementList* , *Elision*_{opt}]

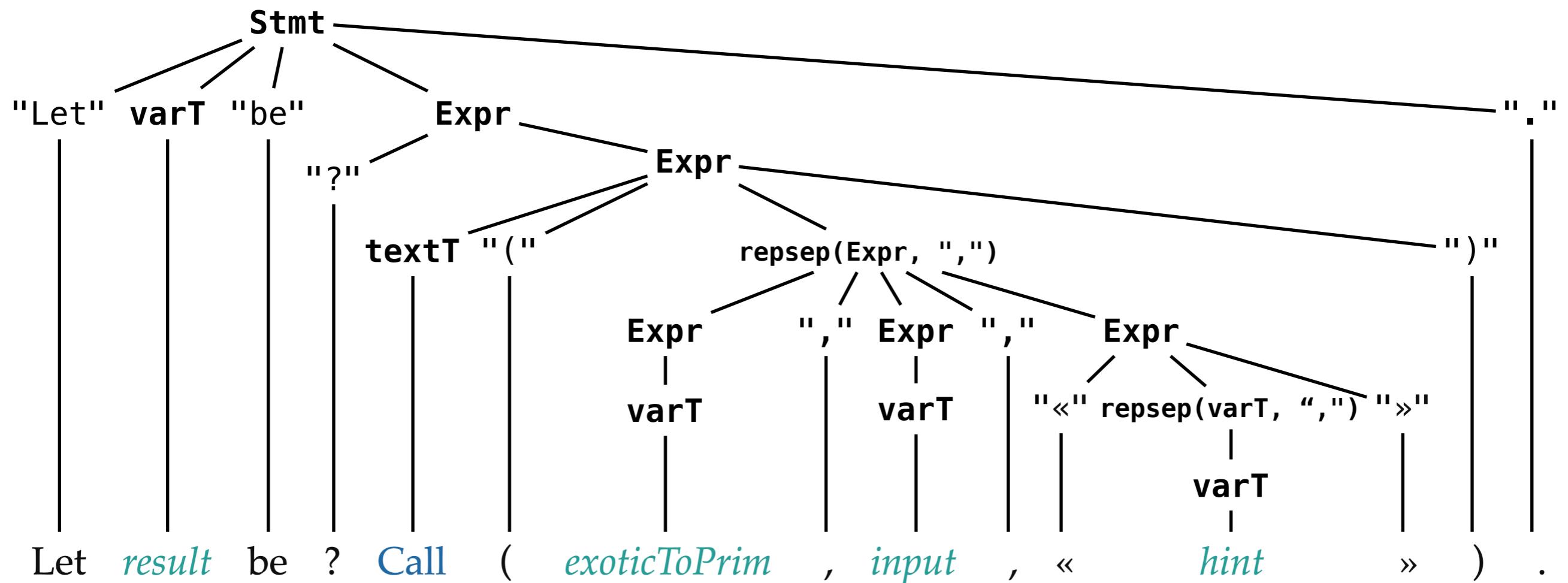
1. Let *array* be ! [ArrayCreate](#)(0).
2. Let *len* be the result of performing [ArrayAccumulation](#) for *ElementList* with arguments *array* and 0.
3. [ReturnIfAbrupt](#)(*len*).
4. Let *padding* be the [ElisionWidth](#) of *Elision*; if *Elision* is not present, use the numeric value zero.
5. Perform [Set](#)(*array*, "length", [ToUInt32](#)(*padding* + *len*), false).
6. NOTE: The above Set cannot fail because of the nature of the object returned by [ArrayCreate](#).
7. Return *array*.

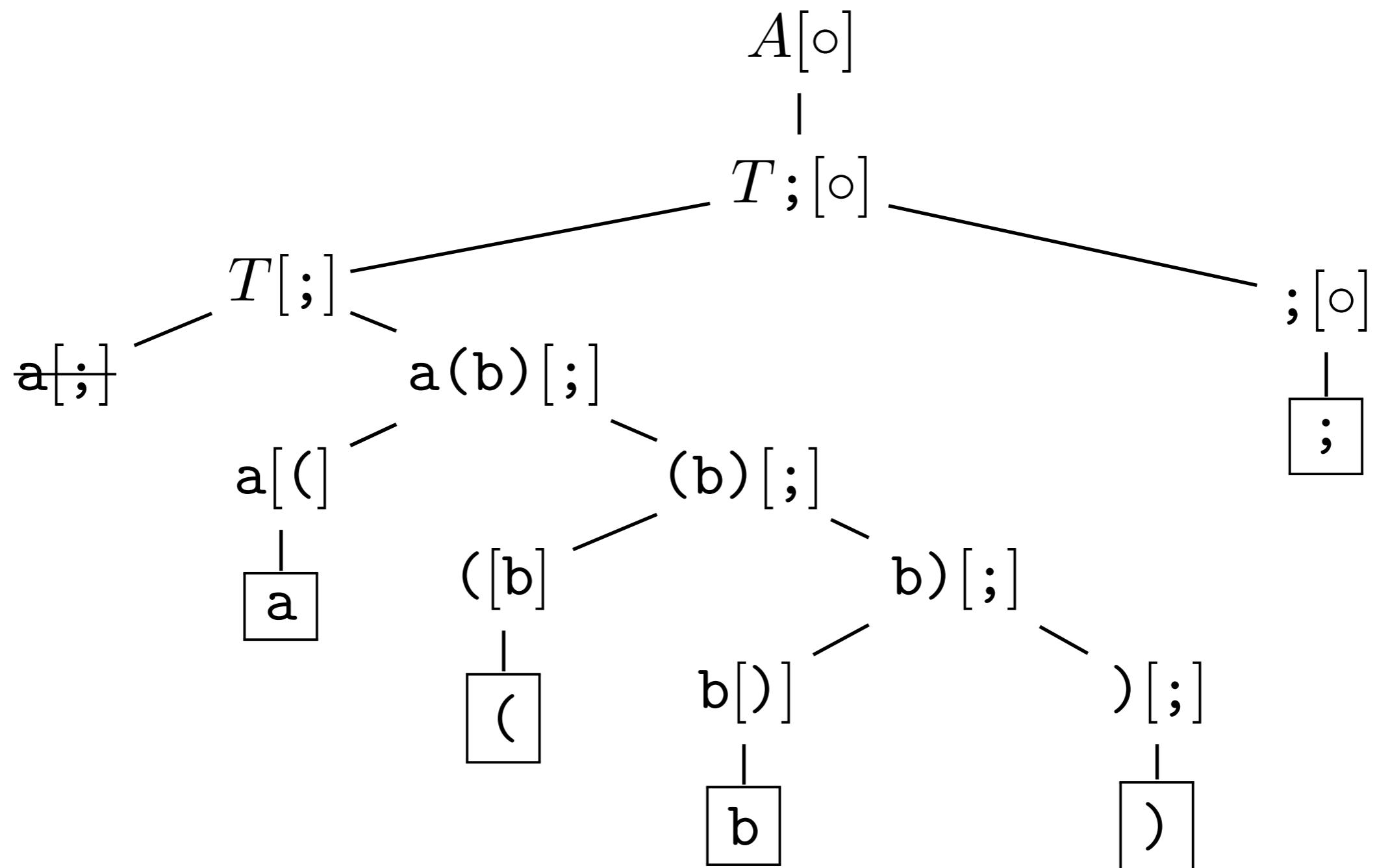


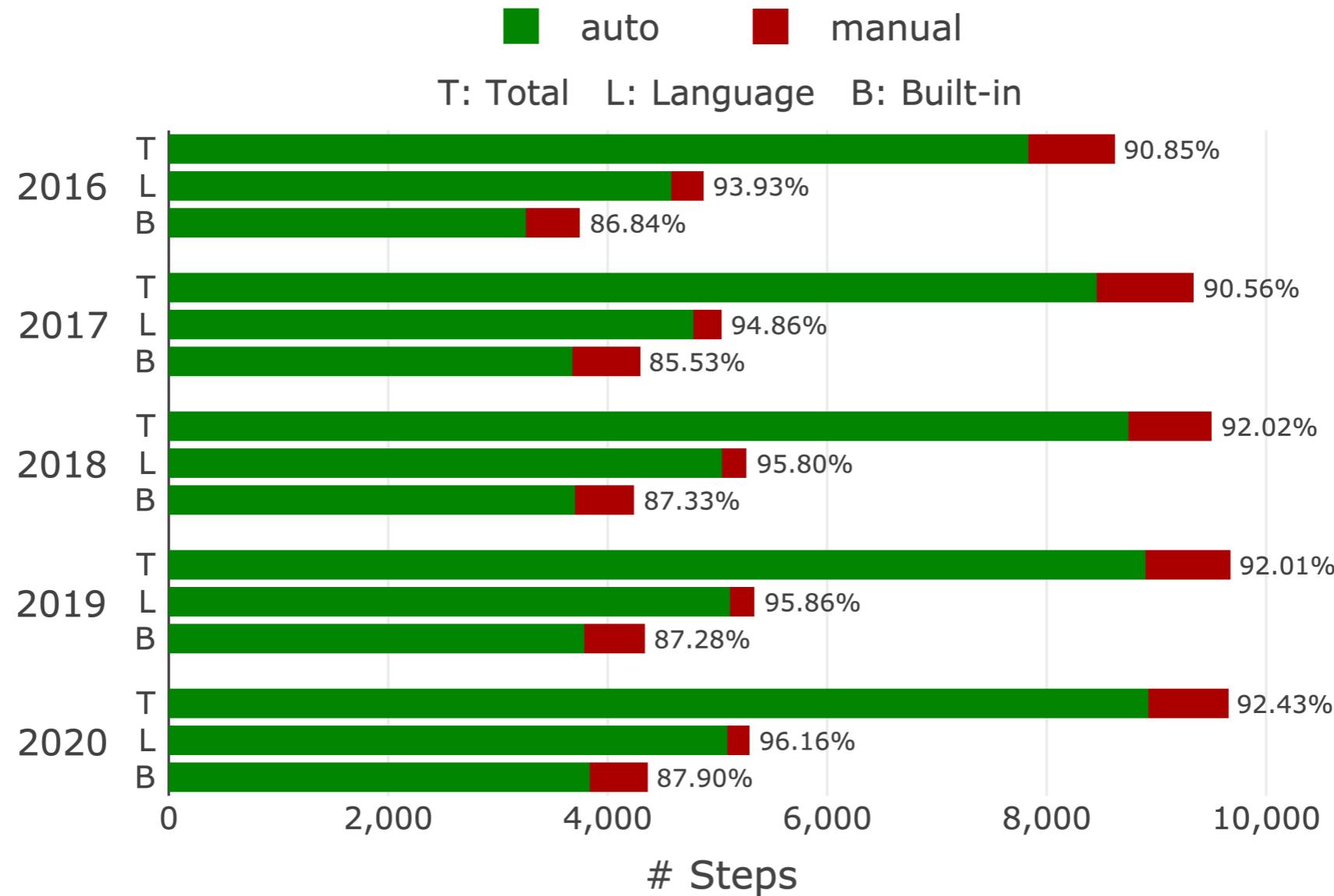
```
ArrayLiteral[2].Evaluation (ElementList, Elision) => {
  let array = ! (ArrayCreate 0)
  let len = (ElementList.ArrayAccumulation array 0)
  ? len
  if (= Elision absent) let padding = 0
  else let padding = Elision.ElisionWidth
  (Set array "length" (ToUInt32 (+ padding len)) false)
  return array
}
```

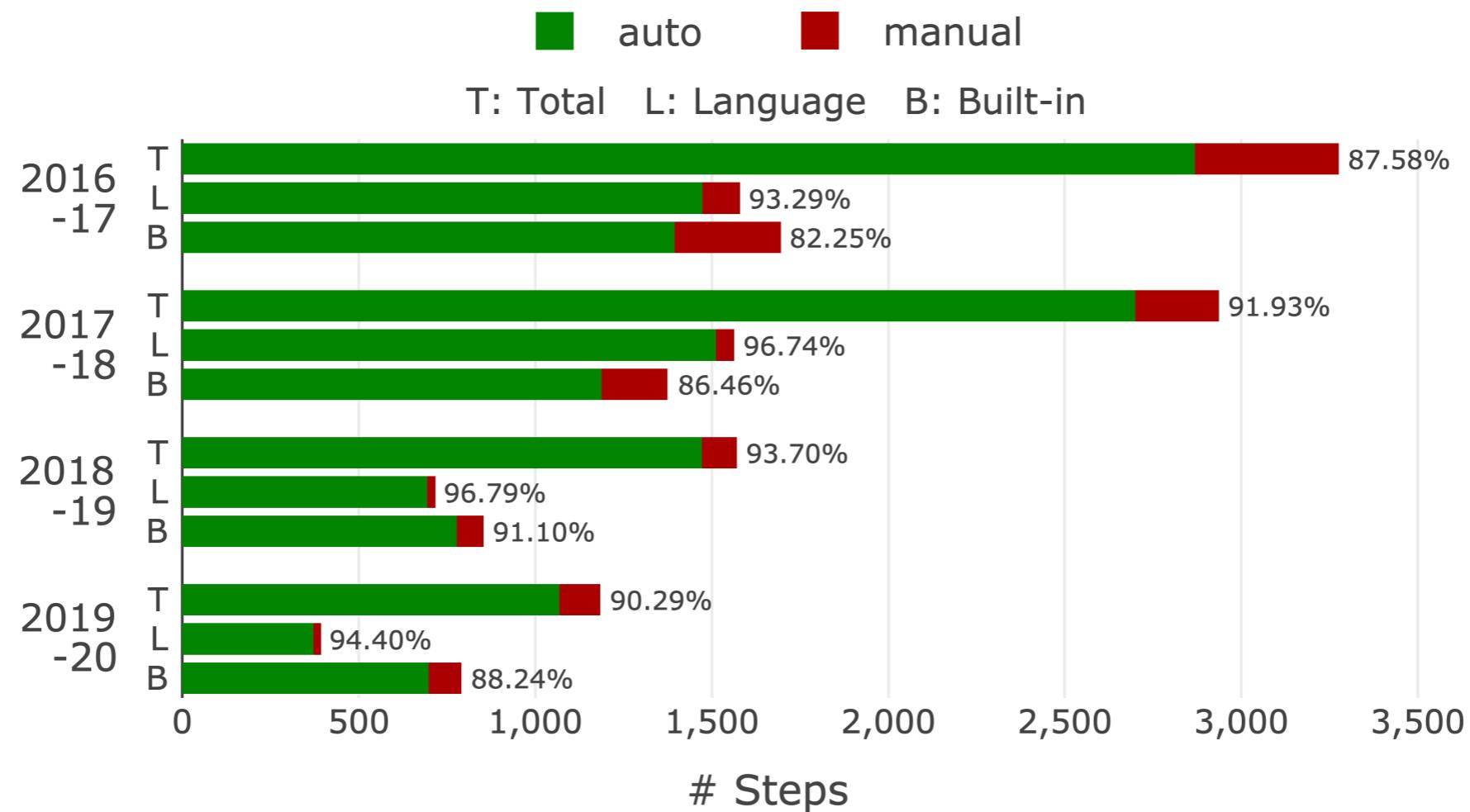








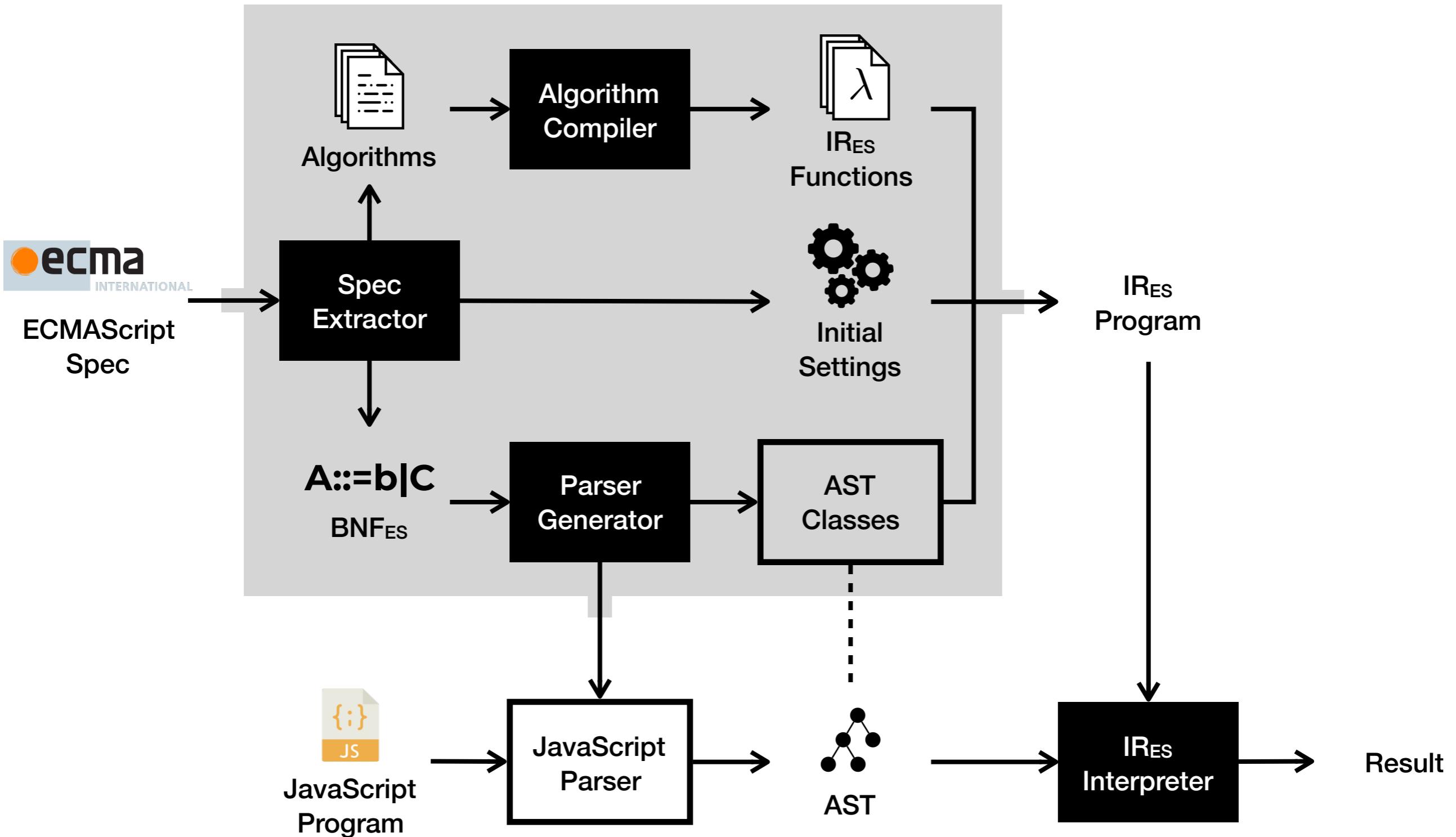








Automatic Semantics Extractor (ASE)





ECMAScript
Spec

Spec
Extractor

manual

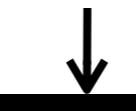
A::=b|C
BNF_{ES}

Section 3

JS Parser
Generator



Algorithms



Compile
Rules

Section 4

Algorithm
Compiler



IR_{ES}
Functions



Initial
Setting

