

Universidad de Carabobo Facultad Experimental De Ciencias Y Tecnología Departamento de Computación

Lenguajes de Programación



Asignacion 1: Lezer

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Gramática:

```
@top JSON { Element }
@tokens {
  // Números
  number { @number }
  integer { /0|[1-9]\d*/ }
  fraction \{ / \. d+/ \}
  exponent { /[eE][+-]?\d+/ }
  // Strings
  string { "\"" ( [^"\\] | "\\" ["\\/bfnrt] | "\\u" [0-9a-fA-F]{4} )* "\"" }
  // Literales
  true { "true" }
  false { "false" }
  null { "null" }
  // Símbolos
  comma { "," } colon { ":" }
  lbrace { "{" }
rbrace { "{" }
}
lbracket { "[" }
rbracket { "[" }
  // Espacios
  @space { " " | "\t" | "\n" | "\r" }
@rules {
  Element { Object | Array | string | number | true | false | null }
  // Objetos
  Object { 1brace Members? rbrace }
  Members { Member (comma Member)* }
  Member { string colon Element }
 // Arrays
  Array { lbracket Elements? rbracket }
 Elements { Element (comma Element)* }
  // Reglas numéricas
  number { "-"? (integer fraction? exponent? | integer exponent | fraction exponent?) }
}
```



Basic Latin 0000-007F

Latin-1 Supplement 0080-00FF

Latin Extended-A 0100-017F

Latin Extended-B 0180-024F

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Caracteres definidos para Basic Latin, Latin-1, Latin Extended-A y B

Salida por consola

Arbol sintactico JSON

JSON(Object(Member(MemberName, String), Member(MemberName, Number), Member(MemberName, Number), Member(MemberName, True), Member(MemberName, False), Member(MemberName, Array(String, Number, True, Object(Member(MemberName, String)))
), Member(MemberName, Object(Member(MemberName, String), Member(MemberName, Number), Member(MemberName, Object(Member(MemberName, String), Member(MemberName, False))))), Member(MemberName, Array(Object(Member(MemberName, String), Member(MemberName, Number)), Object(Member(MemberName, String), Member(MemberName, Number)))), Member(MemberName, Object(Member(MemberName, Array(String, String, String))))), Member(MemberName, String))))

