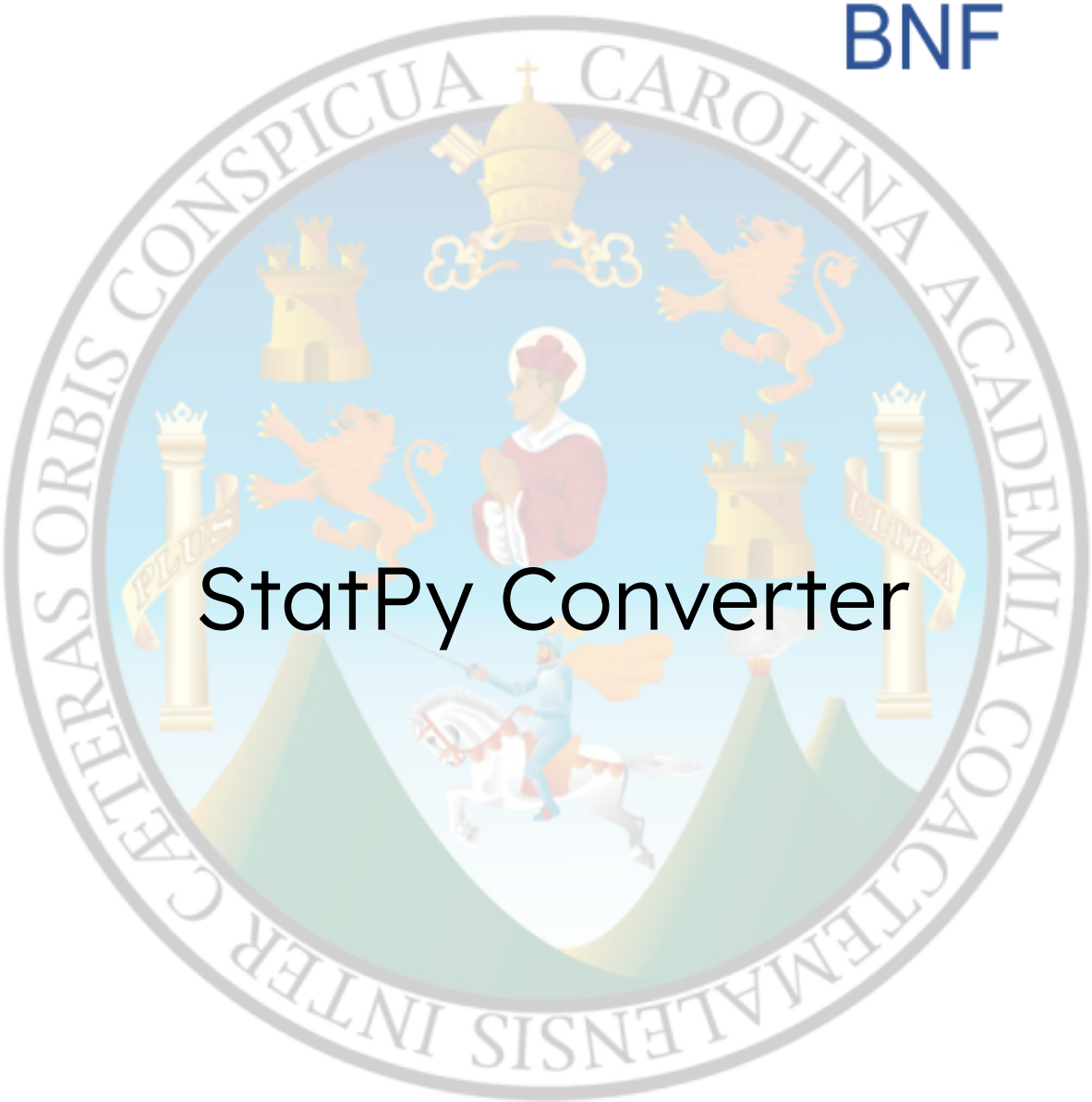
Gramatica

BNF



StatPy Converter

StatPy

<ini> ::= "void" "main" "(" ")" "{" <mainstatements> "}"

<mainstatements> ::= <function> | <statements>

<function> ::= "void" <id> "(" ")" "{" <statements> "}"

<statements> ::= <declaration> | <assignment> | <if> | <switch> | <for> | <while> | <dowhile> | <print>

<declaration> ::= <datatype> <id> "=" <expr> ";"

<assignment> ::= <id> "=" <expr> ";"

<datatype> ::= "int" | "char" | "string" | "char" | "bool"

<if> ::= "if" "(" <expr> ")" "{" <statements> "}" | "if" "(" <expr> ")" "{" <statements> "}" <elseifs>

<elseifs> ::= "else if" "(" <expr> ")" "{" <statements> "}"

<switch> ::= "switch" "(" <expr> ")" "{" <cases> "}"

<cases> ::= "case" <expr> ":" <statements>

<for> ::= "for" "(" "int" <id> "=" <integer> ";" <expr> ";" <expr> ")" "{" <statements> "}"

<while> ::= "while" "(" <expr> ")" "{" <statements> "}"

<dowhile> ::= "do" "{" <statements> "}" "while" "(" <expr> ")"

<print> ::= "console" "." "write" "(" <statements> ")" ";"

<expr> ::= <symbols> | <aritmetic> | <relational> | <logical> | <unitary>

<symbols> ::= <integer> | <decimal> | <text> | <character> | <boolean> | <id>

<aritmetic> ::= <expr> "+" <expr> | <expr> "-" <expr> | <expr> "*" <expr> | <expr> "/" <expr>

<relational> ::= <expr> ">" <expr> | <expr> "<" <expr> | <expr> ">=" <expr> | <expr> "<=" <expr> <expr> "==" <expr> | <expr> "!=" <expr>

<logical> ::= <expr> "and" <expr> | <expr> "and" <expr>

<unitary> ::= "-" <expr> | "not" <expr> | <expr> "++" | <expr> "--"

<integer> ::= [0-9]+

<decimal> ::= [0-9]+ "." [0-9]+

<text> ::= "\"" [a-zA-Z][a-zA-Z_0-9]+ "\""

<character> ::= "\"" [a-zA-Z_0-9] "\""

<boolean> ::= "true" | "false"

<id> ::= [a-zA-Z][a-zA-Z_0-9]+

JSON

<success> ::= <valid_json>

<valid_json> ::= <array> | <object>

<object> ::= "{" <member_list> "}" | "{" "}"

<member_list> ::= <pair> | <member_list> "," <pair>

<pair> ::= <string> ":" <value>

<array> ::= "[" "]" | "[" <value_list> "]"

<value_list> ::= <value> | <value_list> "," <value>

<value> ::= <string> | <decimal> | <array> | <object>

<string> ::= "\"" [a-zA-Z][a-zA-Z_0-9]+ "\""

<decimal> ::= [0-9]+ "." [0-9]+