Syntax of Standard ML
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PROGRAMS AND MODULES

Program

TopLevelDeclaration

TopLevelDeclaration

Expression

ObjectDeclaration
SignatureDeclaration
FunctorDeclaration

ObjectDeclaration

Declaration

structure
Ident :
Signature
=
Structure

local
ObjectDeclaration
in
ObjectDeclaration
end

;
EXPRESSIONS

Expression

InfixExpression

Expression : Type

Expression andalso Expression

Expression handle Match

raise Expression

if Expression then Expression else Expression

while Expression do Expression

case Expression of Match

fn Match

InfixExpression

AtomicExpression

InfixExpression InfixOperator InfixExpression
MATCHES AND PATTERNS

Match

Pattern $\Rightarrow$ Expression

Pattern

AtomicPattern

CompoundName AtomicPattern

Pattern InfixOperator Pattern

Pattern $\mathbf{::}$ Type

Name $\mathbf{::}$ Type $\mathbf{as}$ Pattern

let Declaration in Expression end
AtomicPattern

FieldPattern
TYPES

Type

LEXICAL MATTERS: IDENTIFIERS, CONSTANTS, COMMENTS

CompoundIdent

CompoundName

Name

InfixOperator

(any Ident that has been declared to be infi)