Expression Grammar

```
Expr::= ConditionalExpr | LogicalOrExpr
ConditionalExpr ::= ? Expr -> Expr , Expr
LogicalOrExpr ::= LogicalAndExpr ( ( | | | | | ) LogicalAndExpr)*
LogicalAndExpr ::= ComparisonExpr (( & | && ) ComparisonExpr)*
ComparisonExpr ::= PowExpr (( | > | == | <= | >=) PowExpr)*
PowExpr ::= AdditiveExpr ** PowExpr | AdditiveExpr
AdditiveExpr ::= MultiplicativeExpr (( + | - ) MultiplicativeExpr )*
MultiplicativeExpr ::= UnaryExpr (( * | / | % ) UnaryExpr)*
UnaryExpr ::= (! | - | width | height) UnaryExpr | PostfixExpr
PostfixExpr::= PrimaryExpr (PixelSelector | ε ) (ChannelSelector | ε )
PrimaryExpr ::= STRING_LIT | NUM_LIT | IDENT | ( Expr ) | CONST |
ExpandedPixelExpr
ChannelSelector ::= : red | : green | : blue
PixelSelector ::= [ Expr , Expr ]
ExpandedPixelExpr ::= [ Expr , Expr , Expr ]
```

The above grammar is a subset of the grammar for the programming language. The symbols in red correspond to token Kinds. In some cases (STRING_LIT, NUM_LIT, etc) the grammar uses the actual name of the constant in the Kind enum. In other cases, the text of the symbol itself is used for brevity. For example,

```
PixelSelector ::= [ Expr , Expr ]
rather than
PixelSelector ::= LSQUARE Expr COMMMA Expr RSQUARE
```