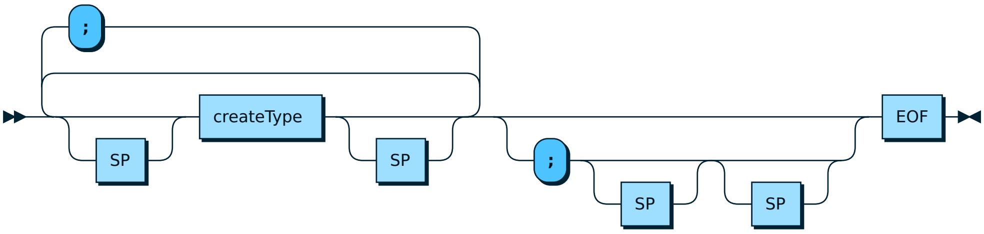
PG-Schema Grammar

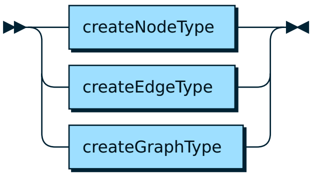
pgs:



```
pgs      ::= SP? createType SP? ( ';'? SP? createType SP? )* ( ';' SP? SP? )? EOF
```

no references

createType:

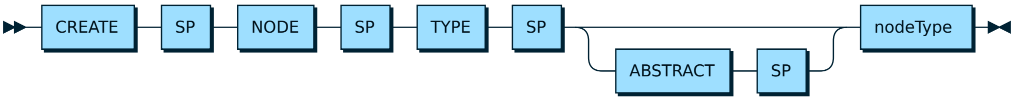


```
createType
         ::= createNodeType
           | createEdgeType
           | createGraphType
```

referenced by:

- pgs

createNodeType:

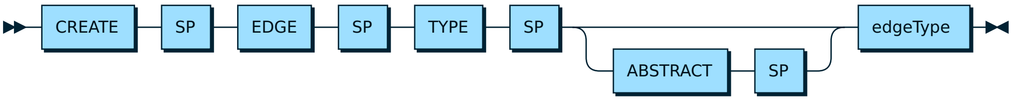


```
createNodeType
         ::= CREATE SP NODE SP TYPE SP ( ABSTRACT SP )? nodeType
```

referenced by:

- createType

createEdgeType:

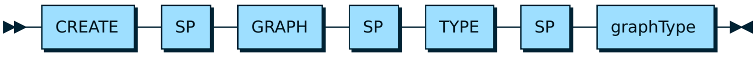


```
createEdgeType
         ::= CREATE SP EDGE SP TYPE SP ( ABSTRACT SP )? edgeType
```

referenced by:

- createType

createGraphType:

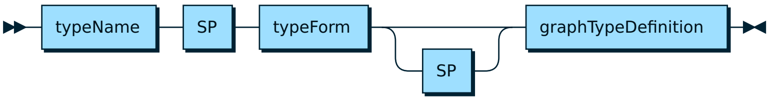


```
createGraphType
         ::= CREATE SP GRAPH SP TYPE SP graphType
```

referenced by:

- createType

graphType:

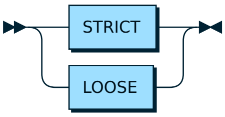


```
graphType
         ::= typeName SP typeForm SP? graphTypeDefinition
```

referenced by:

- createGraphType

typeForm:

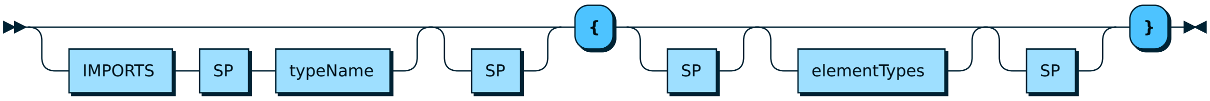


```
typeForm ::= STRICT
           | LOOSE
```

referenced by:

- graphType

graphTypeDefinition:

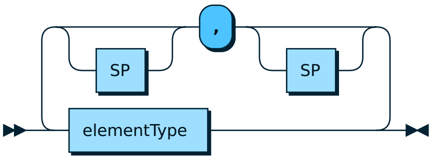


```
graphTypeDefinition
         ::= ( IMPORTS SP typeName )? SP? '{' SP? elementTypes? SP? '}'
```

referenced by:

- graphType

elementTypes:

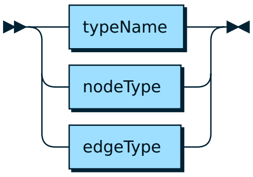


```
elementTypes
         ::= elementType ( SP? ',' SP? elementType )*
```

referenced by:

- graphTypeDefinition

elementType:

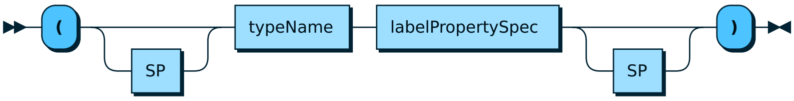


```
elementType
         ::= typeName
           | nodeType
           | edgeType
```

referenced by:

- elementTypes

nodeType:

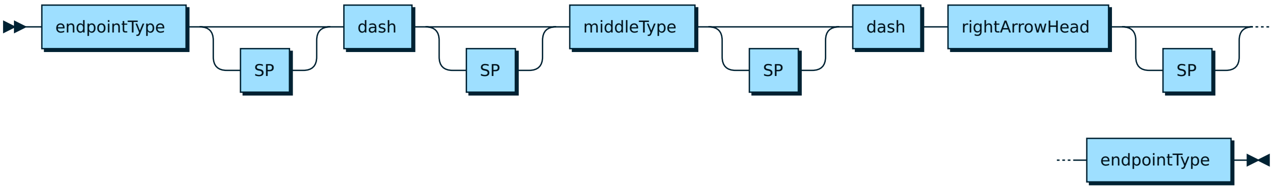


```
nodeType ::= '(' SP? typeName labelPropertySpec SP? ')'
```

referenced by:

- createNodeType
- elementType

edgeType:

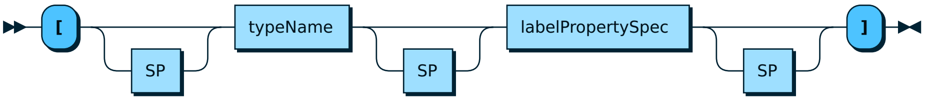


```
edgeType ::= endpointType SP? dash SP? middleType SP? dash rightArrowHead SP? endpointType
```

referenced by:

- createEdgeType
- elementType

middleType:

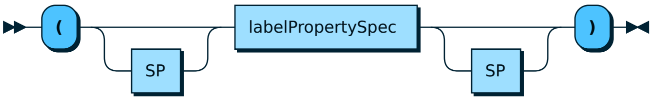


```
middleType
         ::= '[' SP? typeName SP? labelPropertySpec SP? ']'
```

referenced by:

- edgeType

endpointType:

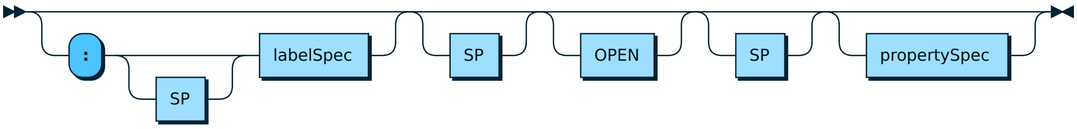


```
endpointType
         ::= '(' SP? labelPropertySpec SP? ')'
```

referenced by:

- edgeType

labelPropertySpec:

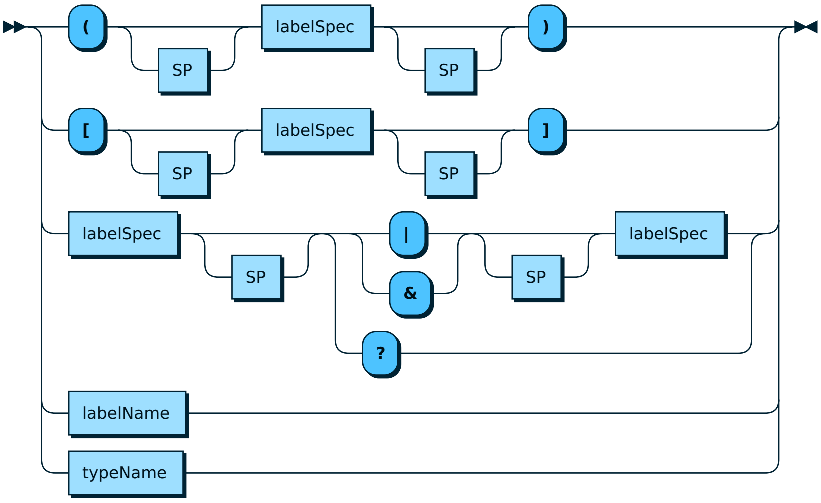


```
labelPropertySpec
         ::= ( ':' SP? labelSpec )? SP? OPEN? SP? propertySpec?
```

referenced by:

- endpointType
- middleType
- nodeType

labelSpec:

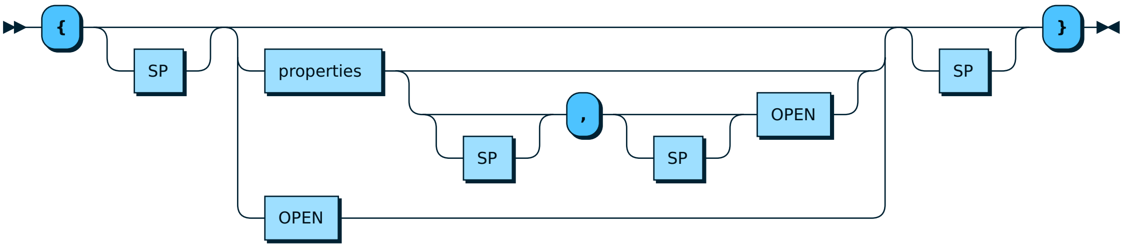


```
labelSpec
         ::= '(' SP? labelSpec SP? ')'
           | '[' SP? labelSpec SP? ']'
           | labelSpec SP? ( ( '|' | '&' ) SP? labelSpec | '?' )
           | labelName
           | typeName
```

referenced by:

- labelPropertySpec
- labelSpec

propertySpec:

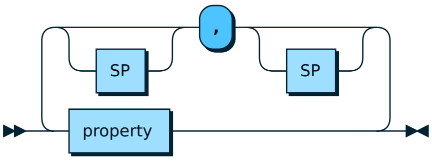


```
propertySpec
         ::= '{' SP? ( properties ( SP? ',' SP? OPEN )? | OPEN )? SP? '}'
```

referenced by:

- labelPropertySpec

properties:

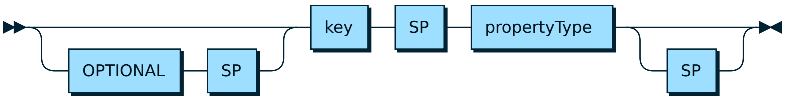


```
properties
         ::= property ( SP? ',' SP? property )*
```

referenced by:

- propertySpec

property:

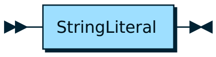


```
property ::= ( OPTIONAL SP )? key SP propertyType SP?
```

referenced by:

- properties

propertyType:

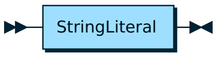


```
propertyType
         ::= StringLiteral
```

referenced by:

- property

key:

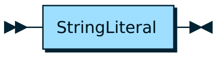


```
key      ::= StringLiteral
```

referenced by:

- property

labelName:

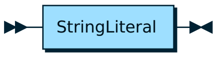


```
labelName
         ::= StringLiteral
```

referenced by:

- labelSpec

typeName:

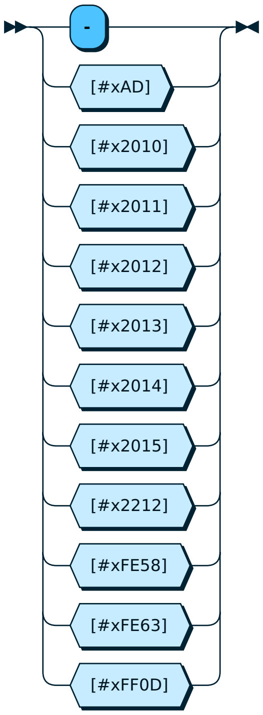


```
typeName ::= StringLiteral
```

referenced by:

- elementType
- graphType
- graphTypeDefinition
- labelSpec
- middleType
- nodeType

dash:

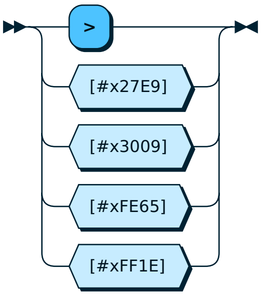


```
dash     ::= [-#xAD#x2010#x2011#x2012#x2013#x2014#x2015#x2212#xFE58#xFE63#xFF0D]
```

referenced by:

- edgeType

rightArrowHead:

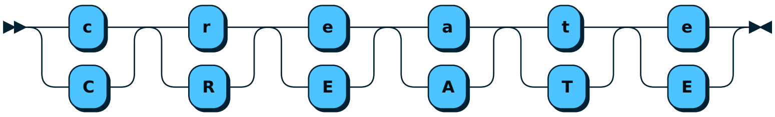


```
rightArrowHead
         ::= [>#x27E9#x3009#xFE65#xFF1E]
```

referenced by:

- edgeType

CREATE:

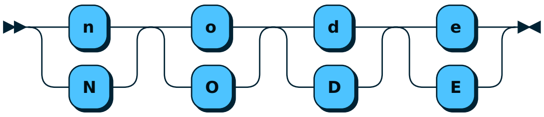


```
CREATE   ::= ( 'c' | 'C' ) ( 'r' | 'R' ) ( 'e' | 'E' ) ( 'a' | 'A' ) ( 't' | 'T' ) ( 'e' | 'E' )
```

referenced by:

- createEdgeType
- createGraphType
- createNodeType

NODE:

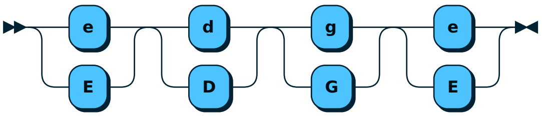


```
NODE     ::= ( 'n' | 'N' ) ( 'o' | 'O' ) ( 'd' | 'D' ) ( 'e' | 'E' )
```

referenced by:

- createNodeType

EDGE:

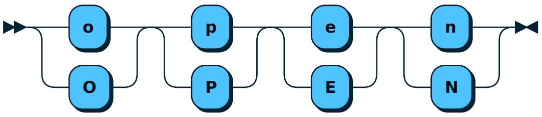


```
EDGE     ::= ( 'e' | 'E' ) ( 'd' | 'D' ) ( 'g' | 'G' ) ( 'e' | 'E' )
```

referenced by:

- createEdgeType

OPEN:

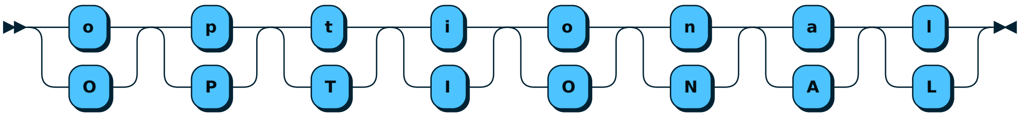


```
OPEN     ::= ( 'o' | 'O' ) ( 'p' | 'P' ) ( 'e' | 'E' ) ( 'n' | 'N' )
```

referenced by:

- labelPropertySpec
- propertySpec

OPTIONAL:

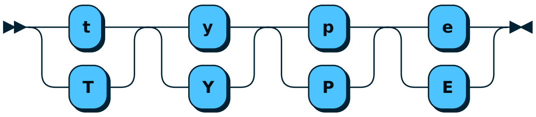


```
OPTIONAL ::= ( 'o' | 'O' ) ( 'p' | 'P' ) ( 't' | 'T' ) ( 'i' | 'I' ) ( 'o' | 'O' ) ( 'n' | 'N' ) ( 'a' | 'A' ) ( 'l' | 'L' )
```

referenced by:

- property

TYPE:

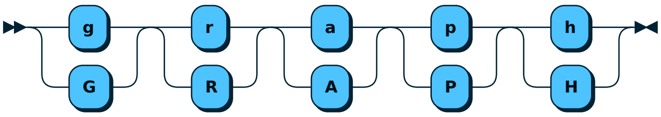


```
TYPE     ::= ( 't' | 'T' ) ( 'y' | 'Y' ) ( 'p' | 'P' ) ( 'e' | 'E' )
```

referenced by:

- createEdgeType
- createGraphType
- createNodeType

GRAPH:

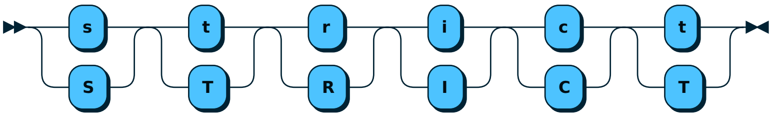


```
GRAPH    ::= ( 'g' | 'G' ) ( 'r' | 'R' ) ( 'a' | 'A' ) ( 'p' | 'P' ) ( 'h' | 'H' )
```

referenced by:

- createGraphType

STRICT:

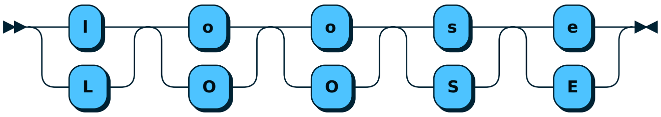


```
STRICT   ::= ( 's' | 'S' ) ( 't' | 'T' ) ( 'r' | 'R' ) ( 'i' | 'I' ) ( 'c' | 'C' ) ( 't' | 'T' )
```

referenced by:

- typeForm

LOOSE:

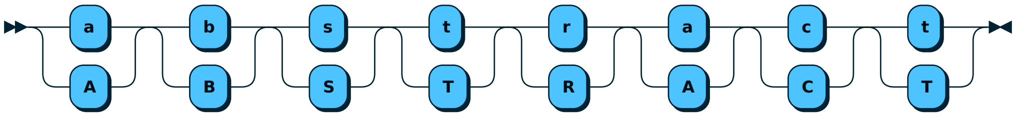


```
LOOSE    ::= ( 'l' | 'L' ) ( 'o' | 'O' ) ( 'o' | 'O' ) ( 's' | 'S' ) ( 'e' | 'E' )
```

referenced by:

- typeForm

ABSTRACT:

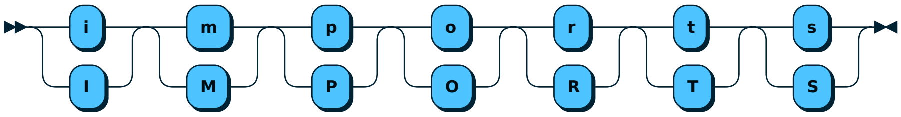


```
ABSTRACT ::= ( 'a' | 'A' ) ( 'b' | 'B' ) ( 's' | 'S' ) ( 't' | 'T' ) ( 'r' | 'R' ) ( 'a' | 'A' ) ( 'c' | 'C' ) ( 't' | 'T' )
```

referenced by:

- createEdgeType
- createNodeType

IMPORTS:

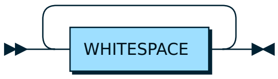


```
IMPORTS  ::= ( 'i' | 'I' ) ( 'm' | 'M' ) ( 'p' | 'P' ) ( 'o' | 'O' ) ( 'r' | 'R' ) ( 't' | 'T' ) ( 's' | 'S' )
```

referenced by:

- graphTypeDefinition

SP:

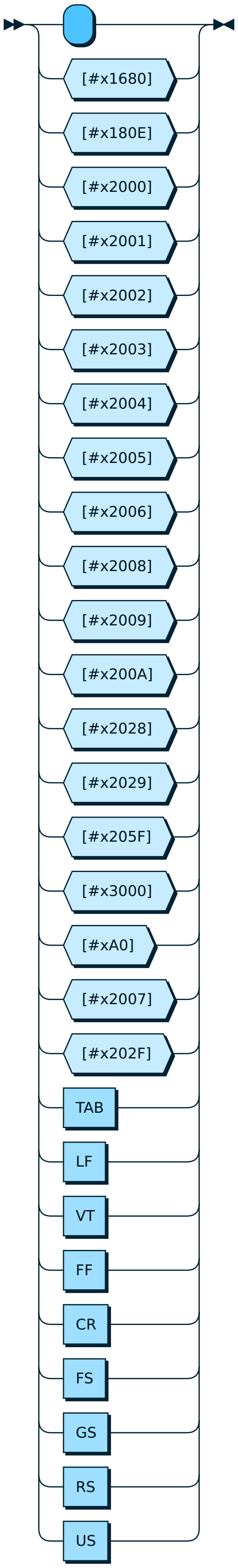


```
SP       ::= WHITESPACE+
```

referenced by:

- createEdgeType
- createGraphType
- createNodeType
- edgeType
- elementTypes
- endpointType
- graphType
- graphTypeDefinition
- labelPropertySpec
- labelSpec
- middleType
- nodeType
- pgs
- properties
- property
- propertySpec

WHITESPACE:

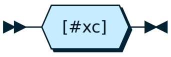


```
WHITESPACE
         ::= [ #x1680#x180E#x2000#x2001#x2002#x2003#x2004#x2005#x2006#x2008#x2009#x200A#x2028#x2029#x205F#x3000#xA0#x2007#x202F]
           | TAB
           | LF
           | VT
           | FF
           | CR
           | FS
           | GS
           | RS
           | US
```

referenced by:

- SP

FF:



```
FF       ::= #xc
```

referenced by:

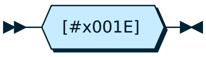
- WHITESPACE

EscapedSymbolicName_0:

```
EscapedSymbolicName_0
         ::= [^`]
```

no references

RS:



```
RS       ::= #x001E
```

referenced by:

- WHITESPACE

StringLiteral_1:

```
StringLiteral_1
         ::= [^'\]
```

no references

GS:

```
GS       ::= #x001D
```

referenced by:

- WHITESPACE

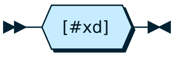
FS:

```
FS       ::= #x001C
```

referenced by:

- WHITESPACE

CR:

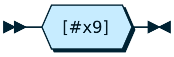


```
CR       ::= #xd
```

referenced by:

- WHITESPACE

TAB:



```
TAB      ::= #x9
```

referenced by:

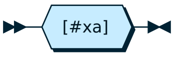
- WHITESPACE

StringLiteral_0:

```
StringLiteral_0
         ::= [^"\]
```

no references

LF:

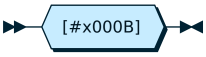


```
LF       ::= #xa
```

referenced by:

- WHITESPACE

VT:

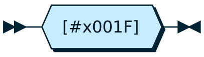


```
VT       ::= #x000B
```

referenced by:

- WHITESPACE

US:

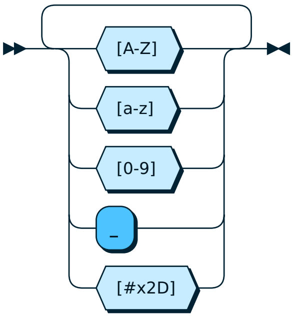


```
US       ::= #x001F
```

referenced by:

- WHITESPACE

StringLiteral:

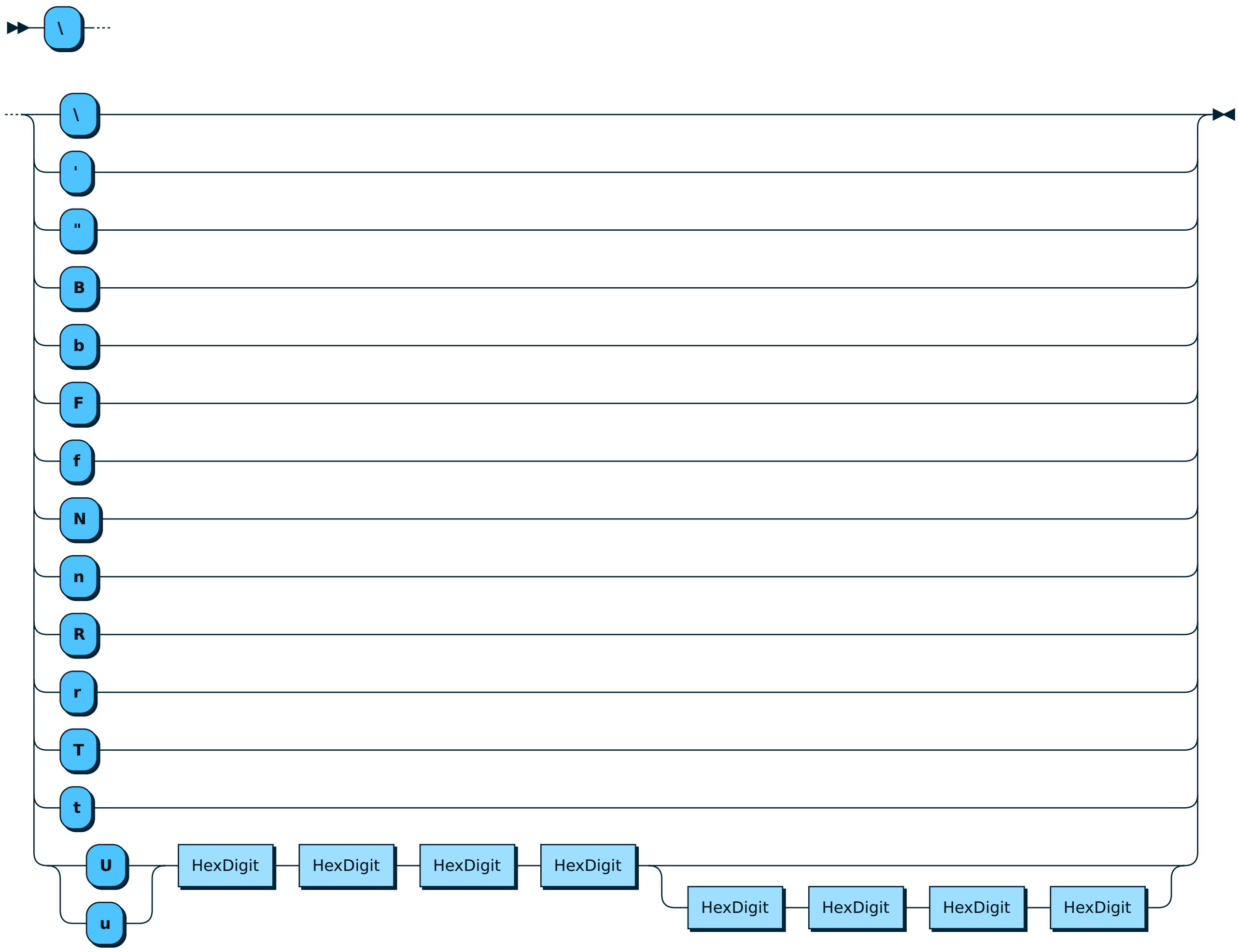


```
StringLiteral
         ::= [A-Za-z0-9_#x2D]+
```

referenced by:

- key
- labelName
- propertyType
- typeName

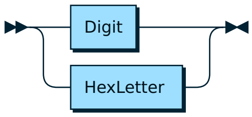
EscapedChar:



```
EscapedChar
         ::= '\' ( '\' | "'" | '"' | 'B' | 'b' | 'F' | 'f' | 'N' | 'n' | 'R' | 'r' | 'T' | 't' | ( 'U' | 'u' ) HexDigit HexDigit HexDigit
             HexDigit ( HexDigit HexDigit HexDigit HexDigit )? )
```

no references

HexDigit:

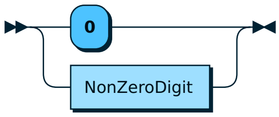


```
HexDigit ::= Digit
           | HexLetter
```

referenced by:

- EscapedChar

Digit:

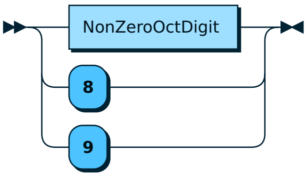


```
Digit    ::= '0'
           | NonZeroDigit
```

referenced by:

- HexDigit

NonZeroDigit:

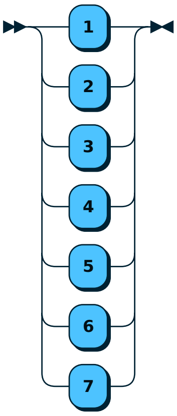


```
NonZeroDigit
         ::= NonZeroOctDigit
           | '8'
           | '9'
```

referenced by:

- Digit

NonZeroOctDigit:

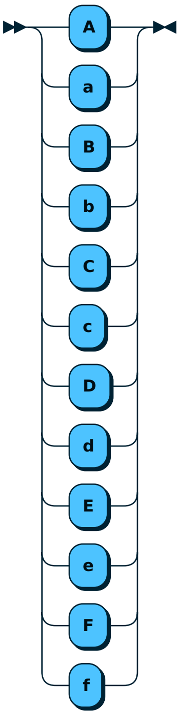


```
NonZeroOctDigit
         ::= '1'
           | '2'
           | '3'
           | '4'
           | '5'
           | '6'
           | '7'
```

referenced by:

- NonZeroDigit

HexLetter:



```
HexLetter
         ::= 'A'
           | 'a'
           | 'B'
           | 'b'
           | 'C'
           | 'c'
           | 'D'
           | 'd'
           | 'E'
           | 'e'
           | 'F'
           | 'f'
```

referenced by:

- HexDigit

EOF:

```
EOF      ::= $
```

referenced by:

- pgs