

Notation

Grammar

The following notational convention is used in grammar snippets:

Notation	Example	Meaning
<code>CAPITAL_CASE</code>	<code>IDENTIFIER</code>	A named nonterminal or lexer token
<code>"string"</code>	<code>"if", "+"</code>	The exact character(s)
<code>`string`</code>	<code>``</code>	Alternative syntax for exact character(s)
<code>snake_case</code>	<code>let_stmt, item</code>	A syntactical production
<code>\x</code>	<code>\n, \r, \t, \0</code>	The character represented by this escape
<code>x?</code>	<code>pub?</code>	An optional item
<code>x*</code>	<code>item*</code>	0 or more of <code>x</code>
<code>x+</code>	<code>item+</code>	1 or more of <code>x</code>
<code>x{a}</code>	<code>[0-9a-fA-F]{2}</code>	Exactly <code>a</code> repetitions of <code>x</code>
<code>x{a,b}</code>	<code>[0-9a-fA-F]{1,6}</code>	<code>a</code> to <code>b</code> repetitions of <code>x</code>
<code> </code>	<code>felt int</code>	Either one or another
<code>[]</code>	<code>[bB]</code>	Any of the characters listed
<code>[-]</code>	<code>[a-z]</code>	Any of the characters in the range
<code>~[]</code>	<code>~[bB]</code>	Any characters, except those listed
<code>~"string"</code>	<code>~"\n", ~"*/"</code>	Any characters, except this sequence
<code>~CAPITAL_CASE</code>	<code>~EOL*</code>	Any characters, except sequences matching the lexer token
<code>()</code>	<code>(" , " parameter)?</code>	Group items
<code>/* text */</code>	<code>ITEM /* except IMPL_ITEM */</code>	Human words supplementation