

1. Grammar symbols: Used cross reference.

Reference of each grammar's symbol used within each rule's productions. The index uses the tripple: rule name, its subrule no, and the symbol's position within the symbol string.

2. # file-name:.

Rfilename 1.2

3. # lrk-suffix:.

Rt_sufx_kw 1.2 Rt_sufx_kw_must 1.2

4. # name-space:.

Rnamespace 1.2

5. (:.

Ropen_par 2.1

6.).:

Rclose_par 2.1

7. ,:.

Rnamespace_phrase 1.1

8. NS_cweb_or_c_k::TH_cweb_or_c_k:.

Rcweb_k 1.3

9. NS_identifier::TH_identifier:.

Rfilename 1.3 Rfilename_id 1.3 Rnamespace 1.3 Rnamespace_id 1.3 Rt_sufx_kw 1.3 Rt_sufx_kw_must 1.3

10. NS_lint_balls::TH_lint_balls:.

Rlint 1.3

11. NS_o2_sdc::TH_o2_sdc:.

Rt_sufx_code 1.3

12. NS_term_def_ph::TH_term_def_ph:.

Rsym_def 1.3 Rsym_def1 1.3

13. NULL thread:.

Rfilename 2.3 Rfilename_id 2.3 Rnamespace 2.3 Rnamespace_id 2.3 Rsym_def 2.3 Rsym_def1 2.3 Rsym_def1 3.3 Rt_sufx_kw_must 2.3 Rt_sufx_code 2.3 Rcweb_k 2.3

14. Rclose_brace:.

Rlr1_k_phrase 1.10

15. Rclose_par:.

Rlr1_k_phrase 1.4

16. Rweb_k:.

Rt_sufx_phrase 1.2

17. Rfilename:.

Rfilename_phrase 1.1

18. Rfilename_id:.

Rfilename_phrase 1.3

19. Rfilename_phrase:.

Rparameters 1.2

20. Rlint:.

Rlr1_k_phrase 1.1 Rlr1_k_phrase 1.5 Rlr1_k_phrase 1.9 Rparameters 1.1 Rparameters 1.3 Rparameters 1.5 Rfilename_phrase 1.2 Rnamespace_phrase 1.2 Rnamespace_phrase 1.4 Rsym_defs_phrase 1.1 Rsym_defs_phrase 1.3 Rsym_def1s 1.2 Rsym_def1s 2.3 Rt_sufx_phrase 1.1 Rt_sufx_phrase 1.3 Rt_sufx_phrase 2.1

21. Rnamespace:.

Rnamespace_phrase 1.3

22. Rnamespace_id:.

Rnamespace_phrase 1.5

23. Rnamespace_phrase:.

Rparameters 1.4

24. Ropen_brace:.

Rlr1_k_phrase 1.6

25. Ropen_par:.

Rlr1_k_phrase 1.2

26. Rparameters:.

Rlr1_k_phrase 1.3

27. Rsym_def:.

Rsym_defs_phrase 1.2

28. Rsym_def1:.

Rsym_def1s 1.1 Rsym_def1s 2.2

29. Rsym_def1s:.

Rsym_defs_phrase 1.4 Rsym_def1s 2.1

30. Rsym_defs_phrase:.

Rlr1_k_phrase 1.7

31. Rt_sufx_code:.

Rt_sufx_phrase 1.5 Rt_sufx_kw_code 1.2

32. Rt_sufx_kw:.

Rt_sufx_kw_code 1.1

33. Rt_sufx_kw_code:.

Rt_sufx_phrase 2.2

34. Rt_sufx_kw_must:.

Rt_sufx_phrase 1.4

35. Rt_sufx_phrase:.

Rlr1_k_phrase 1.8

36. ϵ :.

Rsym_def1s 3.1 Rt_sufx_kw_code 2.1 Rlint 2.1

37. cweb-comment:.

Rcweb_k 1.2

38. identifier:.

Rfilename_id 1.2 Rnamespace_id 1.2

39. lint:.

Rlint 1.2

40. no key-value present in definition:.

Rsym_def1 2.2

41. syntax-code:.

Rt_sufx_code 1.2

42. terminal-def:.

Rsym_def 1.2 Rsym_def1 1.2

43. {:.

Ropen_brace 2.1

44. |.:.

Rsym_defs_phrase 1.5

45. |?:.

Ropen_par 1.1 Rclose_par 1.1 Rfilename 2.2 Rfilename 3.1 Rfilename_id 2.2 Rfilename_id 3.1 Rnamespace_phrase 2.1 Rnamespace 2.2 Rnamespace 3.1 Rnamespace_id 2.2 Rnamespace_id 3.1 Rsym_def 2.2 Rsym_def 3.1 Rsym_def1 3.2 Rt_sufx_kw_must 2.2 Rt_sufx_kw_must 3.1 Rt_sufx_code 2.2 Rt_sufx_code 3.1 Ropen_brace 1.1 Rclose_brace 1.1 Rcweb_k 2.2

46. |||:.

Rfilename 1.1 Rfilename 2.1 Rfilename_id 1.1 Rfilename_id 2.1 Rnamespace 1.1 Rnamespace 2.1 Rnamespace_id 1.1 Rnamespace_id 2.1 Rsym_def 1.1 Rsym_def 2.1 Rsym_def1 1.1 Rsym_def1 2.1 Rsym_def1 3.1 Rt_sufx_kw 1.1 Rt_sufx_kw_must 1.1 Rt_sufx_kw_must 2.1 Rt_sufx_code 1.1 Rt_sufx_code 2.1 Rlint 1.1 Rcweb_k 1.1 Rcweb_k 2.1

47. }:.

Rclose_brace 2.1

48. Grammar Rules's First Sets.

49. *Rlr1.k_phrase* # in set: 3.
(|?| |||

50. *Ropen_par* # in set: 2.
(|?|

51. *Rclose_par* # in set: 2.
) |?|

52. *Rparameters* # in set: 2.
|?| |||

53. *Rfilename_phrase* # in set: 2.
|?| |||

54. *Rfilename* # in set: 2.
|?| |||

55. *Rfilename_id* # in set: 2.
|?| |||

56. *Rnamespace_phrase* # in set: 2.
, |?|

57. *Rnamespace* # in set: 2.
|?| |||

58. *Rnamespace_id* # in set: 2.
|?| |||

59. *Rsym_defs_phrase* # in set: 2.
|?| |||

60. *Rsym_def* # in set: 2.
|?| |||

61. *Rsym_def1s^ε* # in set: 1.
|||

62. *Rsym_def1* # in set: 1.
|||

63. *Rt_sufx_phrase^ε* # in set: 1.
|||

64. *Rt_sufx_kw_code^ε* # in set: 1.
|||

65. *Rt_sufx_kw* # in set: 1.
|||

66. *Rt_sufix_kw_must* # in set: 2.

|?| |||

67. *Rt_sufix_code* # in set: 2.

|?| |||

68. *Ropen_brace* # in set: 2.

{ |?|

69. *Rclose_brace* # in set: 2.

|?| }

70. *Rlint*^ε # in set: 1.

|||

71. *Rcweb_k* # in set: 1.

|||

72. LR State Network.

List of productions with their derived LR state lists. Their subrule number and symbol string indicates the specific production being derived. The ‘>’ symbol indicates the production’s list of derived states from its closed state. Multiple lists within a production indicate 1 of 2 things:

1) derived string that could not be merged due to a lr(1) conflict

2) partially derived string merged into another derived lr states

A partially derived string is indicated by the ‘merged into’ symbol ↗ used as a superscript along with the merged into state number.

73. Rlr1_k_phrase.

```
1 Rlint Ropen_par Rparameters Rclose_par Rlint Ropen_brace Rsym_defs_phrase
  Rt_sufix_phrase Rlint Rclose_brace
  ▷ 1 4 5 6 7 8 9 10 11 12 15
```

74. Ropen_par.

```
1 |?|
  ▷ 4 16
2 (
  ▷ 4 17
```

75. Rclose_par.

```
1 |?|
  ▷ 6 33
2 )
  ▷ 6 34
```

76. Rparameters.

```
1 Rlint Rfilename_phrase Rlint Rnamespace_phrase Rlint
  ▷ 5 18 19 20 31 32
```

77. Rfilename_phrase.

```
1 Rfilename Rlint Rfilename_id
  ▷ 18 66 67 72
```

78. Rfilename.

```
1 ||| # file-name NS_identifier::TH_identifier
  ▷ 18 63 65
2 ||| |?| NULL
  ▷ 18 63 64
3 |?|
  ▷ 18 62
```

79. Rfilename_id.

```
1 ||| identifier NS_identifier::TH_identifier
  ▷ 67 69 71
2 ||| |?| NULL
  ▷ 67 69 70
3 |?|
  ▷ 67 68
```

80. Rnamespace_phrase.

```
1 , Rlint Rnamespace Rlint Rnamespace_id
  ▷ 20 22 23 24 25 30
2 |?|
  ▷ 20 21
```

81. Rnamespace.

```
1 ||| # name-space NS_identifier::TH_identifier
  ▷ 23 74 76
2 ||| |?| NULL
  ▷ 23 74 75
3 |?|
  ▷ 23 73
```

82. Rnamespace_id.

```
1 ||| identifier NS_identifier::TH_identifier
  ▷ 25 27 29
2 ||| |?| NULL
  ▷ 25 27 28
3 |?|
  ▷ 25 26
```

83. Rsym_defs_phrase.

```
1 Rlint Rsym_def Rlint Rsym_def1s |.|
  ▷ 9 37 38 39 40 45
```

84. Rsym_def.

```
1 ||| terminal-def NS_term_def_ph::TH_term_def_ph
  ▷ 37 78 80
2 ||| |?| NULL
  ▷ 37 78 79
3 |?|
  ▷ 37 77
```

85. Rsym_def1s.

```
1 Rsym_def1 Rlint
  ▷ 39 83 84
2 Rsym_def1s Rsym_def1 Rlint
  ▷ 39 40 81 82
3 ε
  ▷ 39
```

86. Rsym_def1.

```
1 ||| terminal-def NS_term_def_ph::TH_term_def_ph
  ▷ 39 41 43
  ▷ 40↗41
2 ||| no key-value present in definition NULL
  ▷ 39 41 44
  ▷ 40↗41
3 ||| |?| NULL
  ▷ 39 41 42
  ▷ 40↗41
```

87. Rt_sufx_phrase.

```
1 Rlint Rcweb_k Rlint Rt_sufx_kw.must Rt_sufx_code
  ▷ 10 46 58 59 60 61
2 Rlint Rt_sufx_kw_code
  ▷ 10 46 51
```

88. Rt_sufx_kw_code.

```
1 Rt_sufx_kw Rt_sufx_code
  ▷ 46 52 57
2 ε
  ▷ 46
```


89. Rt_sufix_kw.

```
1 ||| # lrk-sufix NS_identifier::TH_identifier
  ▷ 46 47 49
```

90. Rt_sufix_kw_must.

```
1 ||| # lrk-sufix NS_identifier::TH_identifier
  ▷ 59 86 88
2 ||| |?| NULL
  ▷ 59 86 87
3 |?|
  ▷ 59 85
```

91. Rt_sufix_code.

```
1 ||| syntax-code NS_o2_sdc::TH_o2_sdc
  ▷ 52 54 56
  ▷ 60 ↗54
2 ||| |?| NULL
  ▷ 52 54 55
  ▷ 60 ↗54
3 |?|
  ▷ 52 53
  ▷ 60 ↗53
```

92. Ropen_brace.

```
1 |?|
  ▷ 8 35
2 {
  ▷ 8 36
```

93. Rclose_brace.

```
1 |?|
  ▷ 12 13
2 }
  ▷ 12 14
```

94. Rlint.

```
1 ||| lint NS_lint_balls::TH_lint_balls
  ▷ 1 2 3
  ▷ 5↗2
  ▷ 7↗2
  ▷ 9↗2
  ▷ 10↗2
  ▷ 11↗2
  ▷ 19↗2
  ▷ 22↗2
  ▷ 24↗2
  ▷ 31↗2
  ▷ 38↗2
  ▷ 58↗2
  ▷ 66↗2
  ▷ 81↗2
  ▷ 83↗2
2 ε
  ▷ 1
  ▷ 5
  ▷ 7
  ▷ 9
  ▷ 10
  ▷ 11
  ▷ 19
  ▷ 22
  ▷ 24
  ▷ 31
  ▷ 38
  ▷ 58
  ▷ 66
  ▷ 81
  ▷ 83
```

95. Rcweb.k.

```
1 ||| cweb-comment NS_cweb_or_c.k::TH_cweb_or_c.k
  ▷ 46 47 50
2 ||| |?| NULL
  ▷ 46 47 48
```

96. List of reducing states.

The following legend indicates the type of reducing state.

Points 2--4 are states that must meet the lr(1) condition:

- 1) r --- only 1 production reducing
- 2) r² --- 2 or more reducing productions
- 3) s/r --- shift and 1 reducing production
- 4) s/r² --- shift and multiple reducing productions

1 ^{s/r}	3 ^r	5 ^{s/r}	7 ^{s/r}	9 ^{s/r}	10 ^{s/r}	11 ^{s/r}	13 ^r	14 ^r	15 ^r	16 ^r	17 ^r	19 ^{s/r}	21 ^r	
22 ^{s/r}	24 ^{s/r}	26 ^r	28 ^r	29 ^r	30 ^r	31 ^{s/r}	32 ^r	33 ^r	34 ^r	35 ^r	36 ^r	38 ^{s/r}	39 ^{s/r}	
42 ^r	43 ^r	44 ^r	45 ^r	46 ^{s/r}	48 ^r	49 ^r	50 ^r	51 ^r	53 ^r	55 ^r	56 ^r	57 ^r	58 ^{s/r}	
61 ^r	62 ^r	64 ^r	65 ^r	66 ^{s/r}	68 ^r	70 ^r	71 ^r	72 ^r	73 ^r	75 ^r	76 ^r	77 ^r	79 ^r	80 ^r
81 ^{s/r}	82 ^r	83 ^{s/r}	84 ^r	85 ^r	87 ^r	88 ^r								

97. Lr1 State's Follow sets and reducing lookahead sets.

Notes on Follow set expressions:

1) The "follow set" for rule uses its literal name and tags its grammar rule rank number as a superscript. Due to space limitations, part of the follow set information uses the rule's literal name while the follow set expressions refers to the rule's rank number. This \langle rule name, rule rank number \rangle tuple allows you the reader to decipher the expressions. Transitions are represented by S_xR_z whereby S is the LR1 state identified by its "x" subscript where other transient calculations occur within the LR1 state network. R indicates the follow set rule with the subscript "z" as its grammar rank number that contributes to the follow set.

The \nearrow_x symbol indicates that a merge into state "x" has taken place. That is, the reduced subrule that depends on this follow set finds its follow set in 2 places: its birthing state that generated the sequence up to the merged into state, and the birthing state that generated the "merged into" state. So the rule's "follow set" calculation must also continue its calculation within the birth state generating the "x merged into" state.

State: 1 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rlr1.k.phrase¹

Local follow set yield:

eolr.

← Follow set Rule → ← follow set symbols contributors →

Rlint²² $R_{1.1.1} \nearrow_{66} \nearrow_{58} \nearrow_{83} \nearrow_{81} \nearrow_{38} \nearrow_{24} \nearrow_{22} \nearrow_{19} \nearrow_{11} \nearrow_{10}$
 $\nearrow_9 \nearrow_7 \nearrow_{31} \nearrow_5$

Local follow set yield:

|?|, (.

State: 4 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Ropen_par² $R_{1.1.2}$

Local follow set yield:

|?|, |||.

State: 5 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rparameters⁴ $R_{1.1.3}$

Local follow set yield:

|?|,).

← Follow set Rule → ← follow set symbols contributors →

Rlint²² $R_{4.1.1}$

Local follow set yield:

|?|, |||.

State: 6 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rclose_par³ $R_{1.1.4} R_{1.1.5}$

Local follow set yield:

|?|, |||, {.

State: 7 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rlint²² R_{1.1.5}
 Local follow set yield:
 |?|, {.

State: 8 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Ropen_brace²⁰ R_{1.1.6}
 Local follow set yield:
 |?|, |||.

State: 9 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rsym_defs_phrase¹¹ R_{1.1.7} R_{1.1.8} R_{1.1.9}
 Local follow set yield:
 |?|, |||, }.
 ← Follow set Rule → ← follow set symbols contributors →
 Rlint²² R_{11.1.1}
 Local follow set yield:
 |?|, |||.

State: 10 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rt_sufx_phrase¹⁵ R_{1.1.8} R_{1.1.9}
 Local follow set yield:
 |?|, |||, }.
 ← Follow set Rule → ← follow set symbols contributors →
 Rlint²² R_{15.1.1} R_{15.2.1} R_{15.2.2} S₁₀ R₁₅
 Local follow set yield:
 |||.

State: 11 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rlint²² R_{1.1.9}
 Local follow set yield:
 |?|, }.

State: 12 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rclose_brace²¹ R_{1.1.10} S₁ R₁
 Local follow set yield:

State: 18 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rfilename_phrase⁵ R_{4.1.2} R_{4.1.3}
 Local follow set yield:
 |?|, |||, ,.
 ← Follow set Rule → ← follow set symbols contributors →
 Rfilename⁶ R_{5.1.1} R_{5.1.2}

Local follow set yield:

|?|, |||.

State: 19 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rlint²² R_{4.1.3}

Local follow set yield:

|?|, ,.

State: 20 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rnamespace.phrase⁸ R_{4.1.4} R_{4.1.5} S₅R₄

Local follow set yield:

|||.

State: 22 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rlint²² R_{8.1.2}

Local follow set yield:

|?|, |||.

State: 23 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rnamespace⁹ R_{8.1.3} R_{8.1.4}

Local follow set yield:

|?|, |||.

State: 24 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rlint²² R_{8.1.4}

Local follow set yield:

|?|, |||.

State: 25 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rnamespace.id¹⁰ R_{8.1.5} S₂₀R₈

Local follow set yield:

State: 31 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rlint²² R_{4.1.5} S₅R₄

Local follow set yield:

State: 37 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →

Rsym.def¹² R_{11.1.2} R_{11.1.3} R_{11.1.4}

Local follow set yield:

|||, |.|.

State: 38 Follow Set contributors, merges, and transitions

← Follow set Rule → ← follow set symbols contributors →
 Rlint²² R_{11.1.3} R_{11.1.4}
 Local follow set yield:
 | | | , | . | .

State: 39 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 Rsym_def1¹³ R_{11.1.4} R_{13.2.1}
 Local follow set yield:
 | | | , | . | .

← Follow set Rule → ← follow set symbols contributors →
 Rsym_def1¹⁴ R_{13.1.1} R_{13.1.2} S₃₉R₁₃
 Local follow set yield:
 | | | .

State: 40 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 Rsym_def1¹⁴ R_{13.2.2} R_{13.2.3} ^{↗³⁹} S₃₉R₁₃
 Local follow set yield:
 | | | .

State: 46 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 Rt_sufx_kw_code¹⁶ R_{15.2.2} S₁₀R₁₅
 Local follow set yield:

← Follow set Rule → ← follow set symbols contributors →
 Rt_sufx_kw¹⁷ R_{16.1.1}
 Local follow set yield:
 | ? | , | | | .

← Follow set Rule → ← follow set symbols contributors →
 Rcweb_k²³ R_{15.1.2} R_{15.1.3}
 Local follow set yield:
 | ? | , | | | .

State: 52 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 Rt_sufx_code¹⁹ R_{16.1.2} ^{↗⁶⁰} S₄₆R₁₆
 Local follow set yield:

State: 58 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 Rlint²² R_{15.1.3}
 Local follow set yield:
 | ? | , | | | .

State: 59 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 Rt_sufx_kw_must¹⁸ R_{15.1.4}
 Local follow set yield:
 | ? | , | | | .

State: 60 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 $R_{t_sufx_code}^{19} R_{15.1.5} S_{10} R_{15}$
 Local follow set yield:

State: 66 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 $R_{lint}^{22} R_{5.1.2}$
 Local follow set yield:
 |?|, |||.

State: 67 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 $R_{filename_id}^7 R_{5.1.3} S_{18} R_5$
 Local follow set yield:

State: 81 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 $R_{lint}^{22} R_{13.2.3} S_{39} R_{13}$
 Local follow set yield:

State: 83 Follow Set contributors, merges, and transitions
 ← Follow set Rule → ← follow set symbols contributors →
 $R_{lint}^{22} R_{13.1.2} S_{39} R_{13}$
 Local follow set yield:

98. Common Follow sets.

99. LA set: 1.

|?|, |r|, |.|, (,), ,, {, }.

100. LA set: 2.

|?|, |r|.

101. LA set: 3.

|?|, {.

102. LA set: 4.

|?|, |r|, }.

103. LA set: 5.

|?|, }.

104. LA set: 6.

eolr.

105. LA set: 7.

|?|, ,.

106. LA set: 8.

|?|, |r|,).

107. LA set: 9.

|?|,).

108. LA set: 10.

|?|, |r|, {.

109. LA set: 11.

|r|, |.|.

110. LA set: 12.

|?|, |r|, ,.

111. Index.

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lr1_k_phrase_th_idx.w

Date: January 14, 2015 at 15:39

File: lr1_k_phrase_th_idx.w

Grammar symbols: Used cross reference	1	1
# file-name:	2	1
# lrk-suffix:	3	1
# name-space:	4	1
(:	5	1
):	6	1
,:	7	1
NS_cweb_or_c_k::TH_cweb_or_c_k:	8	1
NS_identifier::TH_identifier:	9	1
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