

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. -:.

Rminus_la 2.1

3. 0:.

RNUMBERS 1.1

4. 1:.

RNUMBERS 2.1

5. 2:.

RNUMBERS 3.1

6. 3:.

RNUMBERS 4.1

7. 4:.

RNUMBERS 5.1

8. 5:.

RNUMBERS 6.1

9. 6:.

RNUMBERS 7.1

10. 7:.

RNUMBERS 8.1

11. 8:.

RNUMBERS 9.1

12. 9:.

RNUMBERS 10.1

13. A:.

RUPPER_A_M 1.1

14. B:.
RUPPER_A.M 2.1

15. C:.
RUPPER_A.M 3.1

16. D:.
RUPPER_A.M 4.1

17. E:.
RUPPER_A.M 5.1

18. F:.
RUPPER_A.M 6.1

19. G:.
RUPPER_A.M 7.1

20. H:.
RUPPER_A.M 8.1

21. I:.
RUPPER_A.M 9.1

22. J:.
RUPPER_A.M 10.1

23. K:.
RUPPER_A.M 11.1

24. L:.
RUPPER_A.M 12.1

25. M:.
RUPPER_A.M 13.1

26. N:.
RUPPER_N.Z 1.1

27. O:.
RUPPER_N.Z 2.1

28. P:.
RUPPER_N.Z 3.1

29. Q:.
RUPPER_N.Z 4.1

30. R:.
RUPPER_N.Z 5.1

31. RNUMBERS:.
Rminus_la 7.1

32. RUPPER_A_M:.
Rminus_la 3.1

33. RUPPER_N_Z:.
Rminus_la 4.1

34. Rdelimiters:.
Reol 1.1

35. Rlower_a_m:.
Rminus_la 5.1

36. Rlower_n_z:.
Rminus_la 6.1

37. S:.
RUPPER_N.Z 6.1

38. T:.
RUPPER_N.Z 7.1

39. U:.
RUPPER_N.Z 8.1

40. V:.
RUPPER_N.Z 9.1

41. W:.
RUPPER_N.Z 10.1

42. X:.
RUPPER_N.Z 11.1

43. Y:.
RUPPER_N.Z 12.1

44. Z:.
RUPPER_N.Z 13.1

45. .:.
Rminus_la 1.1

46. a:.
Rlower_a_m 1.1

47. b:.
Rlower_a_m 2.1

48. c:.
Rlower_a_m 3.1

49. d:.
Rlower_a_m 4.1

50. e:.
Rlower_a_m 5.1

51. f:.
Rlower_a_m 6.1

52. g:.
Rlower_a_m 7.1

53. h:

Rlower_a_m 8.1

54. i:

Rlower_a_m 9.1

55. j:

Rlower_a_m 10.1

56. k:

Rlower_a_m 11.1

57. l:

Rlower_a_m 12.1

58. m:

Rlower_a_m 13.1

59. n:

Rlower_n_z 1.1

60. o:

Rlower_n_z 2.1

61. p:

Rlower_n_z 3.1

62. q:

Rlower_n_z 4.1

63. r:

Rlower_n_z 5.1

64. s:

Rlower_n_z 6.1

65. t:

Rlower_n_z 7.1

66. u:.
Rlower_n.z 8.1

67. v:.
Rlower_n.z 9.1

68. w:.
Rlower_n.z 10.1

69. x:.
Rlower_n.z 11.1

70. x0a:.
Rdelimiters 1.1 Rdelimiters 3.2

71. x0d:.
Rdelimiters 2.1 Rdelimiters 3.1

72. y:.
Rlower_n.z 12.1

73. z:.
Rlower_n.z 13.1

74. |.|:.
Rdelimiters 2.2

75. Grammar Rules's First Sets.**76. Reol # in set: 2.**

x0a x0d

77. Rdelimiters # in set: 2.

x0a x0d

78. Rminus_la # in set: 64.

- 0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z
 _ a b c d e f g h i j k l m n o p q r s t u v w x y z

79. RUPPER_A_M # in set: 13.

A B C D E F G H I J K L M

80. RUPPER_N_Z # in set: 13.

N O P Q R S T U V W X Y Z

81. Rlower_a_m # in set: 13.

a b c d e f g h i j k l m

82. Rlower_n_z # in set: 13.

n o p q r s t u v w x y z

83. RNUMBERS # in set: 10.

0 1 2 3 4 5 6 7 8 9

84. 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 \nearrow used as a superscript along with the merged into state number.

85. Reol.

1 Rdelimiters

▷ 1 6

86. Rdelimiters.

1 x0a

▷ 1 2

2 x0d |.|

▷ 1 3 4

3 x0d x0a

▷ 1 3 5

87. 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) r^2 — 2 or more reducing productions
- 3) s/r — shift and 1 reducing production
- 4) s/r^2 — shift and multiple reducing productions

$\subset 2^r \ 4^r \ 5^r \ 6^r$

88. 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 $\langle \text{rule name, rule rank number} \rangle$ 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 →

Reol¹

Local follow set yield:

```
eog, x00, x01, x02, x03, x04, x05, x06, x07, x08, x09, x0a, x0b, x0c, x0d, x0e, x0f, x10, x11, x12, x13,
x14, x15, x16, x17, x18, x19, x1a, x1b, x1c, x1d, x1e, x1f, !, ", #, $, %, &, ', (, ), *, +, ,, ., /, :, ;, <,
=, >, ?, @, [, \, ], ^, ` {, |, }, , x7f, x80, x81, x82, x83, x84, x85, x86, x87, x88, x89, x8a,
x8b, x8c, x8d, x8e, x8f, x90, x91, x92, x93, x94, x95, x96, x97, x98, x99, x9a, x9b, x9c, x9d,
x9e, x9f, xa0, xa1, xa2, xa3, xa4, xa5, xa6, xa7, xa8, xa9, xaa, xab, xac, xad, xae, xaf, xb0,
xb1, xb2, xb3, xb4, xb5, xb6, xb7, xb8, xb9, xba, xbb, xbc, xbd, xbe, xbf, xc0, xc1, xc2, xc3,
xc4, xc5, xc6, xc7, xc8, xc9, xca, xcb, xcc, xcd, xce, xcf, xd0, xd1, xd2, xd3, xd4, xd5, xd6,
xd7, xd8, xd9, xda, xdb, xdc, xdd, xde, xdf, xe0, xe1, xe2, xe3, xe4, xe5, xe6, xe7, xe8, xe9,
xea, xeb, xec, xed, xee, xef, xf0, xf1, xf2, xf3, xf4, xf5, xf6, xf7, xf8, xf9, xfa, xfb, xfc,
xfd, xfe, xff, option-t, option-p, option-err, esc-seq, eol, basic-char, raw-char, comment,
ws, angled-string, c-literal, c-string, xc-str, unquoted-string, file-inclusion, identi-
fier, int-no, # raw-characters, # lr1-constant-symbols, # error-symbols, # ***, # AD,
# AB, # parallel-la-boundary, # arbitrator-code, # parallel-parser, # parallel-thread-
function, # parallel-control-monitor, # fsm, # fsm-id, # fsm-filename, # fsm-namespae,
# fsm-class, # fsm-version, # fsm-date, # fsm-debug, # fsm-comments, # terminals, # T-
enumeration, # file-name, # name-space, # sym-class, # rules, # lhs, # user-declaration,
# user-prefix-declaration, # user-suffix-declaration, # constructor, # destructor, #
op, # failed, # user-implementation, # user-imp-tbl, # user-imp-sym, # constant-defs, #
terminals-refs, # terminals-suffix, # lrk-suffix, - > , # NULL, ::, block, syntax-code, fsm-
class-phrase, fsm-phrase, parallel-parser-phrase, T-enum-phrase, terminal-def, table-
entry, sym-tbl-report-card, terminals-phrase, error-symbols-phrase, lr1-k-phrase, rc-
phrase, rule-lhs-phrase, parallel-monitor-phrase, rule-def, rules-phrase, subrule-def,
subrules-phrase, T-in-stbl, refered-T, rule-in-stbl, refered-rule, transitive, grammar-
name, thread-name, monolithic, no-of-T, list-of-native-first-set-terminals, end-list-of-
native-first-set-terminals, list-of-transitive-threads, end-list-of-transitive-threads,
emitfile, preamble, end-preamble, T-alphabet, end-T-alphabet, file-of-T-alphabet, T-
attributes, tth-in-stbl, thread-attributes, th-in-stbl, kw-in-stbl, la-express-source,
eosubrule, called thread eosubrule, null call thread eosubrule, cweb-comment, grammar-
phrase, cweb-marker, lint, list-of-used-threads, end-list-of-used-threads, nested files
exceeded, no end-of-code, no cmd-lne-data, no filename, bad filename, bad filename to out-
put grammar header, bad filename to output cpp, bad filename to output sym, bad filename
```

to output tbl, bad filename to output enumeration header, bad filename for Errors vocabulary header, bad filename for Errors vocabulary implementation, bad cmd-opt, bad int-no, bad int-no range, no int present, bad eos, bad esc, comment-overrun, bad char, bad univ-seq, improper closing of rules construct, no identifier present, no directive present, duplicate directive, no syntax-code present, no open-parenthesis, no close-parenthesis, no fsm-id-present, no fsm-id-string present, no fsm-filename present, no fsm-filename id present, no comma present, no key-value present in definition, no fsm-namespace present, no fsm-namespace id present, no fsm-class present, no fsm-version present, no fsm-version string present, no fsm-date present, no fsm-date string present, no fsm-debug present, no fsm-debug string present, no fsm-comments present, no fsm-comments string present, invalid fsm-debug value, no parallel-thread-function, no parallel-control-monitor, no parallel thread function, no parallel-la-boundary, no parallel-la-boundary-expr, no ***, no parallel-code, no parallel-code-syntax-code, not an arbitration-code keyword, no open-brace, no close-brace, no constant-defs-directive present, no file-name present, no file-name-id present, no name-space present, no name-space-id present, no constant-defs-code present, no constant-defs keyword present, no terminal-def-code present, no symbol definition present, duplicate-entry in alphabet, already defined AB tag, already defined AD tag, improper directive, no sym-class present, no sym-class id present, zero len symbol, stbl full, stbl char-pool full, dup-entry in sym-table, subscript out-of-range, stbl scope-stk overflow, stbl scope-stk underflow, stbl context-buf-overflow, report-card-ptr-0, bad pos of t def, dup ? sufx directive, bad pos of terminals-refs, terminals-refs duplicate, no rule name present, no sub rule present, undefined terminal in subrule, unknown symbol type in stbl, subrule overrun, stbl has entry but not a rule, no file-of-T-alphabet, emitfile kw not present, preamble kw not present, no preamble source code, no end-preamble present, command line chaffe, T-alphabet kw not present, T-alphabet file not present, no end-T-alphabet present, no T in T-alphabet list, rotten chr in T-alphabet, no transitive present, no grammar-name present, no name-space, no file-name kw present, no thread-name present, no monolithic present, no no-of-T present, no list-of-native-terminals, no list-of-transit..., no Ts in T-alphabet, linker's transitive value not n or y, linker's monolithic value not n or y, no grammar-name value, no name-space value, no thread-name value, no file-name value, no-of-T value not present, no # in list-of-native-term..., no end-list-of-native..., no end-list-of-trans..., # T in list not eq, # threads in list not eq, thread xrefed, but not defed, T in list not defined in T-alphabet, transitive list thread not defined by fsc files, thread defined by another fsc file, thread in stbl but subscript badly set, token found in stbl but not a kw, no # in list-of-trans..., re-compile grammar: bad T-alphabet, fsc file does not exist, file-name file does not exist, T-alphabet file does not exist, emitfile file does not exist, emitfile file not present, fsc file not present, file of T-alphabet not present, 02 epsilon badly gened: 0 items in fsc lists, 02 epsilon: T present, but no T list, rule not found in stbl, T not found in stbl, bad directive, bad term in la expr, removal of term against empty set in la expr, bad operator la expr: not a + or -, not a lhs kw, no parallel-la-bndary expr, duplicate fsm phrase, duplicate parallel-parse phrase, duplicate T_enum phrase, duplicate error phrase, duplicate raw character phrase, duplicate lrk phrase, duplicate terminal phrase, duplicate rule phrase, T not returned from a thread, not a namespace id in thread expr, not a thread name id in expr, bad thread expr, not :: in thread expr, bad term in subrule expr, ? ended subrule expr, not an eosr in subrule expr, invalid logical name, invalid logical value, duplicate logical name, missing terminals-refs kw, missing terminals-sufx kw, not a terminal definition, missing lrk-sufx kw, rule does not gen T strings - sick grammar, misplaced or missing fsm phrase, misplaced or missing T enumeration phrase, misplaced or missing lrk phrase, misplaced or missing rc phrase, misplaced or missing errors phrase, misplaced or missing terminals phrase, misplaced or missing rules phrase, rule used but undefined, rule already defined, la expression calculates an empty set, no closing brace ending rules defs, use of T outside Rules's construct, not a kw to

start the top/down parse construct, use of Non-terminal (rule) outside Rules's construct,
 misplaced or misspelt Rule or T outside of Rules defs, not a Rule in chained dispatcher expr,
 Empty file no grammar constructs present, term not a lhs or parallel-control-monitor kw.

← Follow set Rule → ← follow set symbols contributors →
 Rdelimiters² R_{1.1.1} S₁R₁

Local follow set yield:

89. Common Follow sets.

90. LA set: 1.

eog, x00, x01, x02, x03, x04, x05, x06, x07, x08, x09, x0a, x0b, x0c, x0d, x0e, x0f, x10, x11, x12, x13, x14, x15, x16, x17, x18, x19, x1a, x1b, x1c, x1d, x1e, x1f, , !, ", #, \$, %, &, ', (,), *, +, ,, ., /, :, ;, <, =, >, ?, @, [, \,], ^, ` , {, |, }, , x7f, x80, x81, x82, x83, x84, x85, x86, x87, x88, x89, x8a, x8b, x8c, x8d, x8e, x8f, x90, x91, x92, x93, x94, x95, x96, x97, x98, x99, x9a, x9b, x9c, x9d, x9e, x9f, xa0, xa1, xa2, xa3, xa4, xa5, xa6, xa7, xa8, xa9, xaa, xab, xac, xad, xae, xaf, xb0, xb1, xb2, xb3, xb4, xb5, xb6, xb7, xb8, xb9, xba, xbb, xbc, xbd, xbe, xbf, xc0, xc1, xc2, xc3, xc4, xc5, xc6, xc7, xc8, xc9, xca, xcb, xcc, xcd, xce, xcf, xd0, xd1, xd2, xd3, xd4, xd5, xd6, xd7, xd8, xd9, xda, xdb, xdc, xdd, xde, xdf, xe0, xe1, xe2, xe3, xe4, xe5, xe6, xe7, xe8, xe9, xea, xeb, xec, xed, xee, xef, xf0, xf1, xf2, xf3, xf4, xf5, xf6, xf7, xf8, xf9, xfa, xfb, xfc, xfd, xfe, xff, option-t, option-p, option-err, esc-seq, eol, basic-char, raw-char, comment, ws, angled-string, c-literal, c-string, xc-str, unquoted-string, file-inclusion, identifier, int-no, # raw-characters, # lr1-constant-symbols, # error-symbols, # ***, # AD, # AB, # parallel-la-boundary, # arbitrator-code, # parallel-parser, # parallel-thread-function, # parallel-control-monitor, # fsm, # fsm-id, # fsm-filename, # fsm-namespace, # fsm-class, # fsm-version, # fsm-date, # fsm-debug, # fsm-comments, # terminals, # T-enumeration, # file-name, # name-space, # sym-class, # rules, # lhs, # user-declaration, # user-prefix-declaration, # user-suffix-declaration, # constructor, # destructor, # op, # failed, # user-implementation, # user-imp-tbl, # user-imp-sym, # constant-defs, # terminals-refs, # terminals-sufx, # lrk-sufx, - >, # NULL, ::, block, syntax-code, fsm-class-phrase, fsm-phrase, parallel-parser-phrase, T-enum-phrase, terminal-def, table-entry, sym-tbl-report-card, terminals-phrase, error-symbols-phrase, lr1-k-phrase, rc-phrase, rule-lhs-phrase, parallel-monitor-phrase, rule-def, rules-phrase, subrule-def, subrules-phrase, T-in-stbl, refered-T, rule-in-stbl, refered-rule, transitive, grammar-name, thread-name, monolithic, no-of-T, list-of-native-first-set-terminals, end-list-of-native-first-set-terminals, list-of-transitive-threads, end-list-of-transitive-threads, emitfile, preamble, end-preamble, T-alphabet, end-T-alphabet, file-of-T-alphabet, T-attributes, tth-in-stbl, thread-attributes, th-in-stbl, kw-in-stbl, la-express-source, eosubrule, called thread eosubrule, null call thread eosubrule, cweb-comment, grammar-phrase, cweb-marker, lint, list-of-used-threads, end-list-of-used-threads, nested files exceeded, no end-of-code, no cmd-lne-data, no filename, bad filename, bad filename to output grammar header, bad filename to output cpp, bad filename to output sym, bad filename to output tbl, bad filename to output enumeration header, bad filename for Errors vocabulary header, bad filename for Errors vocabulary implementation, bad cmd-opt, bad int-no, bad int-no range, no int present, bad eos, bad esc, comment-overrun, bad char, bad univ-seq, improper closing of rules construct, no identifier present, no directive present, duplicate directive, no syntax-code present, no open-parenthesis, no close-parenthesis, no fsm-id-present, no fsm-id-string present, no fsm-filename present, no fsm-filename id present, no comma present, no key-value present in definition, no fsm-namespace present, no fsm-namespace id present, no fsm-class present, no fsm-version present, no fsm-version string present, no fsm-date present, no fsm-date string present, no fsm-debug present, no fsm-debug string present, no fsm-comments present, no fsm-comments string present, invalid fsm-debug value, no parallel-thread-function, no parallel-control-monitor, no parallel thread function, no parallel-la-boundary, no parallel-la-boundary-expr, no ***, no parallel-code, no parallel-code-syntax-code, not an arbitration-code keyword, no open-brace, no close-brace, no constant-defs-directive present, no file-name present, no file-name-id present, no name-space present, no name-space-id present, no constant-defs-code present, no constant-defs keyword present, no terminal-def-code present, no symbol definition present, duplicate-entry in alphabet, already defined AB tag, already defined AD tag, improper directive, no sym-class present, no

sym-class id present, zero len symbol, stbl full, stbl char-pool full, dup-entry in sym-
 table, subscript out-of-range, stbl scope-stk overflow, stbl scope-stk underflow, stbl
 context-buf-overflow, report-card-ptr-0, bad pos of t def, dup ? sufx directive, bad pos
 of terminals-refs, terminals-refs duplicate, no rule name present, no sub rule present, un-
 defined terminal in subrule, unknown symbol type in stbl, subrule overrun, stbl has entry
 but not a rule, no file-of-T-alphabet, emitfile kw not present, preamble kw not present,
 no preamble source code, no end-preamble present, command line chaffe, T-alphabet kw not
 present, T-alphabet file not present, no end-T-alphabet present, no T in T-alphabet list,
 rotten chr in T-alphabet, no transitive present, no grammar-name present, no name-space,
 no file-name kw present, no thread-name present, no monolithic present, no no-of-T present,
 no list-of-native-terminals, no list-of-transit..., no Ts in T-alphabet, linker's transi-
 tive value not n or y, linker's monolithic value not n or y, no grammar-name value, no name-
 space value, no thread-name value, no file-name value, no-of-T value not present, no # in
 list-of-native-term..., no end-list-of-native..., no end-list-of-trans..., # T in list
 not eq, # threads in list not eq, thread xrefed, but not defed, T in list not defined in T-
 alphabet, transitive list thread not defined by fsc files, thread defined by another fsc
 file, thread in stbl but subscript badly set, token found in stbl but not a kw, no # in list-
 of-trans..., re-compile grammar: bad T-alphabet, fsc file does not exist, file-name file
 does not exist, T-alphabet file does not exist, emitfile file does not exist, emitfile file
 not present, fsc file not present, file of T-alphabet not present, O2 epsilon badly gened: 0
 items in fsc lists, O2 epsilon: T present, but no T list, rule not found in stbl, T not found
 in stbl, bad directive, bad term in la expr, removal of term against empty set in la expr,
 bad operator la expr: not a + or -, not a lhs kw, no parallel-la-bndary expr, duplicate fsm
 phrase, duplicate parallel-parse phrase, duplicate T_enum phrase, duplicate error phrase,
 duplicate raw character phrase, duplicate lrk phrase, duplicate terminal phrase, duplicate
 rule phrase, T not returned from a thread, not a namespace id in thread expr, not a thread
 name id in expr, bad thread expr, not :: in thread expr, bad term in subrule expr, ? ended
 subrule expr, not an eosr in subrule expr, invalid logical name, invalid logical value, du-
 plicate logical name, missing terminals-refs kw, missing terminals-sufx kw, not a termi-
 nal definition, missing lrk-sufx kw, rule does not gen T strings - sick grammar, misplaced
 or missing fsm phrase, misplaced or missing T enumeration phrase, misplaced or missing lrk
 phrase, misplaced or missing rc phrase, misplaced or missing errors phrase, misplaced or
 missing terminals phrase, misplaced or missing rules phrase, rule used but undefined, rule
 already defined, la expression calculates an empty set, no closing brace ending rules defs,
 use of T outside Rules's construct, not a kw to start the top/down parse construct, use of
 Non-terminal (rule) outside Rules's construct, misplaced or misspelt Rule or T outside of
 Rules defs, not a Rule in chained dispatcher expr, Empty file no grammar constructs present,
 term not a lhs or parallel-control-monitor kw.

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TS_la7_idx.w

Date: September 16, 2014 at 15:03

File: TS_la7_idx.w

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6:	9	1
7:	10	1
8:	11	1
9:	12	1
A:	13	1
B:	14	2
C:	15	2
D:	16	2
E:	17	2
F:	18	2
G:	19	2
H:	20	2
I:	21	2
J:	22	2
K:	23	2
L:	24	2
M:	25	2
N:	26	2
O:	27	3
P:	28	3
Q:	29	3
R:	30	3
RNUMBERS:	31	3
RUPPER_A_M:	32	3
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U:	39	3
V:	40	4
W:	41	4
X:	42	4
Y:	43	4
Z:	44	4
·:	45	4
a:	46	4
b:	47	4
c:	48	4
d:	49	4
e:	50	4
f:	51	4
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