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## **ERL Specification**

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A Specification for the Exteca Rule Logic

### **Version History**

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## **Introduction**

This document provides a full specification of the Exteca Rule Logic.

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## BNF Specification

### Terminology

This specification uses the following notation

- S ::= D Symbol S defined by definition D
- [E]\* repeat expression E zero or more times
- [E]+ repeat expression E one or more times
- [E]? optional (0 or 1)
- [A|B] either A or B
- bold** signifies a non-terminal symbol
- normal signifies a terminal string

### ERL

#### RuleLogic

RuleExpression ::= **[Weight:]?RuleStatement**

Weight ::= *A number between 0 and 100*

RuleStatement ::= **[Phrase | RuleElement]**

RuleElement ::= **[and(RuleExpressionList) |  
or(RuleExpressionList) |  
sequence(RuleExpressionList) |  
probability(RuleExpressionList) |  
MarkupName(RuleExpressionList)]**

RuleExpressionList ::= **RuleExpression [Comma RuleExpression]\***

Phrase ::= **'Token [Space Token]\*'**

Token ::= **[Word | #MorphName(Word)]**

MarkupName ::= *A string without spaces*

Word ::= *A string without spaces*

MorphName ::= *A string without spaces*

Space ::= *A space character*

Comma ::= *A comma character*