Syntax general non-terminal, rascal will interleave with layout

Lexical Not interleaved with layout

Layout Character-classes describing things to be ignored

Start Defines the starting symbol

Keyword Keywords for the grammar, are just lexical basically. Help with

disambiguation.

Disambiguation:

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□ assoc | left | right | non-assoc

☐ Follow or Precede

□ >> | !>> | << | !<</p>

☐ Symbol follow/precede constraint

☐ Constraint is any char-class, literal or keyword

Priority

□ ||>|<

 \Box A > B means that B cannot be nested under the left or right most position of A

□ Reserve

□ \

☐ Symbol \ constraint

☐ Will not match if parsed element matches the constraint

General form of a grammar item:

[start] syntaxDef nonterm priority [assoc] [label :] rule

Symbol:

All grammar-related types are symbols: syntax, lexical definitions etc.

Questions:

- How to parse character classes?
 - (probably supported in YAML like things)
- How to determine where we are in a grammar?
 - Is this important in the highlighting?
- When to change context and how?
 - o Do we have a highlighting context per (non-)terminal?
 - o Do we have a highlighting context per regular state?
- What intermediate representation? Is it necessary?
 - Are the disambiguation constructs useful in the newly constructed grammar?
 - Keywords yes
- How to map this to syntax?
 - What kind of "general" highlighting will I make?"
 - Does it contains function(calls), variables, numbers, what?
 - o Do we only need the nonterminals in the regexes?
 - What extra info do we need from the grammar submitter?
 - Do we want to assign tags to (parts of) the grammar?
- Keyword "bracket"?

Additional sources:

- http://tutor.rascal-mpl.org/Rascal/Patterns/Patterns.html
- http://tutor.rascal-mpl.org/Rascal/Declarations/SyntaxDefinition/SyntaxDefinition.html#/Rascal/Concepts/SyntaxDefinitionAndParsing/SyntaxDefinitionAndParsing.html
- http://tutor.rascal-mpl.org/Rascal/Concepts/RewriteRules/RewriteRules.html
- http://tutor.rascal-mpl.org/Rascal/Declarations/SyntaxDefinition.html#/Rascal/Declarations/SyntaxDefinition/SyntaxDefinition.html
- http://tutor.rascal-mpl.org/Rascal/Declarations/SyntaxDefinition/Disambiguation/Disambiguation/Disambiguation.html
- https://manual.macromates.com/en/language grammars#naming conventions
- https://www.sublimetext.com/docs/3/scope naming.html#variable
- https://www.sublimetext.com/docs/3/syntax.html
- http://docs.sublimetext.info/en/latest/reference/syntaxdefs.html