Data Frame Block:
- Constant Block (one and only one)
- Lexicon Block (optional, at most one)
- Keyword Block (optional, at most one)

Constant Block:
- ConstantElement Block (list, greater than or equals one)

ConstantElement Block:
- Extract Pattern (one and only one)
- Context Pattern (optional, at most one)
- Except Pattern (optional, at most one)
- Filter Pattern (optional, at most one)
- Substitute Pattern (optional, at most one)

Lexicon Block:
- Lexicon Pattern (list, greater than or equals one)

Keyword Block:
- Keyword Pattern (list, greater than or equals one)

Pattern:
- Regular expression (the regex in this pattern, it can be a list)
- Case tag (case sensitive or insensitive)
- Pattern type: extract-type, context-type, except-type, filter-type, substitute-type, keyword-type, lexicon-type

If the parent of current data frame is a specialization of another data frame, it may inherit the lexicon library defined in the previous data frame. Now it will not inherit the extraction rules and the keywords.