package geco.parser v3.1

geco.parser.GecoParser

- + static final String version
- + static final String release
- + void start()
- + Environment getEnvironment()
- + ArrayList<String> getErrorList ()

geco.parser.Environment

- + public String getVersion ()
- + public String getRelease ()
- + List<Instruction> getInstructionList ()
- + int getNInstruction ()
- + List<Instruction> getInstructionListIgnoringErrors ()
- + List<String> getErrorList ()
- + boolean hasErrors()
- + boolean hasNoError()
- + List<String> getWarningList ()

package geco.model v3.1

abstract geco.model.Instruction

- + static final int UNDEFINED
- + static final int GET INSTRUCTION
- + static final int SET_INTERMEDIATE_INSTRUCTION
- + static final int SAVE INSTRUCTION
- + static final int SPATIAL JOIN INSTRUCTION
- + static final int JOIN INSTRUCTION
- + static final int FILTER INSTRUCTION
- + static final int GROUP INSTRUCTION
- + static final int EXPAND INSTRUCTION
- + static final int MERGE INSTRUCTION
- + static final int INTERSECT_INSTRUCTION
- + static final int SUBTRACT INSTRUCTION
- + static final int USEDB INSTRUCTION
- + static final int TRAJECTORY MATCHING INSTRUCTION
- + static final int FUZZY OPERATOR INSTRUCTION
- + static final int JAVASCRIPT FUNCTION INSTRUCTION
- + int getId()
- + int getSeguence()
- + String getInstructionName()
- + String toString ()
- + abstract String toMultilineString ()

geco.model. Expand extends Instruction

- static int KEEP OTHERS
- static int DROP OTHERS
- List<Unpack> unpacks
- int others
- String toMultilineString ()

geco.model. Filter extends Instruction

- CaseClause caseClause
- String toMultilineString ()

geco.model. GetCollection extends Instruction

- **DbCollection collection**
- String toMultilineString ()

geco.model. Group extends Instruction

- static int UNDEFINED
- static int KEEP OTHERS
- static int DROP OTHERS
- List<Partition> partitions
- int others
- String toMultilineString ()

geco.model. FuzzyOperator extends Instruction

- String fuzzyOperator
- List<Parameter> parameters
- Condition preCondition
- Expression evaluate
- FuzzyRange range
- List<FuzzyPoint> polyline String toMultilineString ()

geco.model. Instruction

- static final int UNDEFINED
- static final int GET INSTRUCTION
- static final int SET INTERMEDIATE INSTRUCTION
- static final int SAVE INSTRUCTION
- static final int SPATIAL JOIN INSTRUCTION
- static final int JOIN INSTRUCTION
- static final int FILTER INSTRUCTION
- static final int GROUP INSTRUCTION
- static final int EXPAND INSTRUCTION
- static final int MERGE INSTRUCTION
- static final int INTERSECT INSTRUCTION static final int SUBTRACT INSTRUCTION
- static final int USEDB INSTRUCTION
- static final int TRAJECTORY MATCHING INSTRUCTION
- static final int FUZZY OPERATOR INSTRUCTION
- static final int JAVASCRIPT FUNCTION INSTRUCTION
- String getInstructionName()
- int getId()
- int getSeguence()
- String toMultilineString ()

geco.model. IntersectCollections extends Instruction

- DbCollection collection2
 - String toMultilineString ()

DbCollection collection1

- geco.model. MergeCollections extends Instruction
- List < DbCollection > collectionList
- boolean all
- boolean mergeAll ()
- String toMultilineString ()

geco.model. SaveAs extends Instruction

- **DbCollection collection**
- String toMultilineString ()

geco.model. JavascriptFunction extends Instruction

- static int NO BEGIN
- static int NO END
- static int WRONG PAR
- static int GOOD END
- static int BAD END
- String functionName
- List<Parameter> parameters
- Condition preCondition
- String body
- int addJavascriptChunck (String t)
- String to Multiline String ()

geco.model. JoinCollections extends Instruction

- DbCollection collection1
- DbCollection collection2
- CaseClause caseClause
- KeepDropFuzzySets keepDropFuzzySets
- AddNewFuzzySets addNewFuzzySets
- AddFields addFields
- boolean hasCaseClause ()
- boolean hasKeepDropFuzzySets ()
- boolean hasAddNewFuzzySets ()
- boolean hasAddFields ()
- String toMultilineString ()

geco.model. SetIntermediateAs extends Instruction

- **DbCollection collection**
- String toMultilineString ()

geco.model. SubtractCollections extends Instruction

- DbCollection collection1
- DbCollection collection2
- String toMultilineString ()

geco.model. TrajectoryMatching extends Instruction

- static int UNDEFINED
- static int KEEP OTHERS
- static int DROP OTHERS
- DbCollection collection1
- DbCollection collection2
- List<TrajectoryPartition> partitions
- int others
- String toMultilineString ()

geco.model. SpatialJoin extends Instruction

- static int GEOMETRY UNDEFINED
- static int GEOMETRY ALL
- static int GEOMETRY RIGHT
- static int GEOMETRY LEFT
- static int GEOMETRY INTERSECTION
- DbCollection collection1
- DbCollection collection2
- NonFuzzyFunction on
- int geometry
- CaseClause caseClause
- KeepDropFuzzySets keepDropFuzzySets
- AddNewFuzzySets addNewFuzzySets
- AddFields addFields
- boolean hasCondition ()
- boolean hasCaseClause ()
- boolean hasKeepDropFuzzySets ()
- boolean hasAddNewFuzzySets ()
- boolean hasAddFields () String toMultilineString ()

geco.model. UseDb extends Instruction

- static int UNDEFINED
- static int SERVER
- static int SERVER CONNECTED
- List<DbName> dbList
- String server
- String connectionString
- int type
- boolean isDefault ()
- boolean hasServer ()
- boolean hasConnectionString () String toMultilineString ()

static int DEFAULT

geco.model.util. Condition

- + static int UNDEFINED
- + static int SIMPLE CONDITION
- static int NOT_CONDITION
- + static int AND_CONDITION
- static int OR_CONDITION
- static int PREDICATE_CONDITION
- + Predicate predicate
- int type
- + String toMultilineString (int level)

geco.model.util. ConditionAnd extends Condition

- + List< Condition> conditions
- + String toMultilineString (int level)

geco.model.util. ConditionNot extends Condition

- + Condition condition
 - String toMultilineString (int level)

geco.model.util. ConditionOr extends Condition

- + List<Condition> conditions
- + String toMultilineString (int level)

geco.model.util. Value

- + static final int INT
- + static final int FLOAT
- + static final int APEX
- + static final int QUOTED
- + static final int BOOLEAN
- + String value
- + int type
- + boolean isInt ()
- + boolean isFloat ()
- + boolean isQuoted ()
- + boolean isApex ()
- + boolean isBoolean ()

geco.model.util. Field

- + List<String> fields
- + Value value
- + Token positionToken
- + boolean sameTo (Field fn)
- + boolean equals (Field fn)
- + boolean contains (Field fn)
- boolean isContained (Field fn)
- + boolean hasValue ()
- + int size ()

geco.model.util. Predicate

- + static final int UNDEFINED
- + static final int WITH PREDICATE
- static final int WITHOUT_PREDICATE
- + static final int EXPRESSION_PREDICATE
- + static final int COMPARISON_PREDICATE
- + static final int COMPARE_PREDICATE
- + static final int IFFAILS_PREDICATE
- + static final int OVERLAP_PREDICATE
- + static final int INSIDE_PREDICATE
- + static final int HOWMEET PREDICATE
- + static final int DIRECTION_PREDICATE
- + static final int AREA PREDICATE
- $+ \quad \textit{static final int PERIMETER_PREDICATE}$
- + static final int WITHIN_PREDICATE+ static final int KNOWN_PREDICATE
- + static final int UNKNOWN_PREDICATE
- + static final int IFF_OPERATOR_PREDICATE
- + static final int SIMPLE
- + static final int COMPLEX
- + static final int ARRAY
- + static final int STRING
- static final int NUMBER
- + static final int INTEGER
- + static final int FLOAT
- static final int GEOMETRY
- + static final String EQ
- + static final String NEQ
- static final String LT
 static final String GT
- + static final String G
- + static final String LE+ static final String GE
- WithPredicate withPredicate
- List<Field> withPredicateList
- + int withPredicateSelector
- + String withPredicateSelectorStr
- WithoutPredicate withoutPredicate
- + List<Field> withoutPredicateList
- Expression expression1
- + Expression expression2
- + String comparator
- + IfFails ifFails
- + String predicateName
- + String predicateParameter1
- + String predicateParameter2
- + List<String> fuzzySets
- List<String> withinFuzzySets
- + List<String> knownFuzzySets
- + List<String> unknownFuzzySets
- + ExpressionFactor iffOperator
- + int type
- + String toMultilineString (int level)

geco.model.util. Expression

- + List<ExpressionTerm> terms
- + List<String> operators

geco.model.util. ExpressionTerm

- + List<ExpressionFactor> factors
- List<String> operators

geco.model.util. ExpressionFactor

- + static final int UNDEFINED
- + static final int VALUE
- + static final int SUBCONDITION
- + static final int FUNCTION
- static final int ID
- static final int FIELDNAME
- + int type
- + String id
- + Condition condition
- Field field
- + Value value
- + String function
- List<Expression> functionParams

geco.model.util. WithPredicate

- + static final int UNDEFINED
- + static final int SIMPLE
- + static final int SIMPLE + static final int COMPLEX
- + static final int ARRAY
- + static final int STRING
- + static final int NUMBER
- + static final int INTEGER
- + static final int FLOAT
- + static final int GEOMETRY+ List<Field> fieldRefs
- + int getTypeSelector ()
- + String toMultilineString (int level)

geco.model.util. WithoutPredicate

- + List<Field> fieldRefs
- + String toMultilineString (int level)

2nd part

geco.model.util. CaseClause

- + static final int UNDEFINED
- + static final int KEEP TYPE
- + static final int DROP TYPE
- + static final String KEEP
- + static final String DROP
- + List<WhereCase> whereList
- + String others
- + int othersType
- + String toMultilineString (int level)

geco.model.util. DbCollection

- + String db
- + String collection
- + String alias
- + String getDbCollectionString ()
- + boolean equals (DbCollection dc)
- + boolean hasDbName ()
- + boolean hasAlias ()

geco.model.util. Parameter

- + String var
- + String type

geco.model.util. DbName

- + String db
- + String alias

geco.model.util. WhereCase

- + Condition condition
- + GenerateAction generateAction
- + List<FuzzyCheck> fuzzyChecks
- + List<AlphaCut> alphaCuts
- + KeepingDroppingFuzzySets keepDropFuzzySets
- + boolean hasGenerateAction ()
- + boolean hasFuzzyCheck ()
- + boolean hasAlphaCut ()
- + boolean hasKeepDropFuzzySets()
- + String toMultilineString (int level)

geco.model.util. GenerateAction

- + static final int UNDEFINED
- + static final int GA COMPLETE
- + static final int GENERATE ACTION COMPLETE
- + static final int ONLY OBJECT STRUCTURE
- + static final int ONLY GEOMETRIC OPTION
- + static final int COUNT OPTION
- + ObjectStructure objectStructure
- + GeometricOption geometricOption
- + Field countOption
- + int getGenerateActionType ()
- + boolean hasObjectStructure ()
- boolean hasGeometricOption ()
- + boolean hasCount ()
- + boolean isComplete ()
- + String toMultilineString (int level)

geco.model.util. GeometricOption

- + static final int UNDEFINED
- + static final int KEEPING
- + static final int DROPPING
- + static final int POINT
- + static final int AGGREGATE
- + static final int FIELD REF
- + static final int TO POLYLINE
- + Field latitude
- + Field longitude
- + Field fieldRef
- + Field aggregate
- + int getType ()
- + String toMultilineString(int level)

geco.model.util. Unpack

- + Condition where
- + Field array
- + String to
- GenerateAction generate
- + boolean hasGenerateClause ()
- + String toMultilineString (int level)

geco.model.util. NonFuzzyFunction

- + static final int UNDEFINED
- + static final int DISTANCE
- + static final int AREA
- + static final int ORIENTATION
- + static final int INCLUDED
- + static final int INCLUDED LEFT
- + static final int INCLUDED RIGHT
- + static final int MEET
- + static final int INTERSECT
- + int type
- + String unit
- + String comparator
- + float area
- + float distance
- + String from
- + String orientation
- + float delta
- + String side
- + boolean fullDetails
- + String toMultilineString (int level)

geco.model.util. PartitionMatching

- + Field matching
- + Field wrt
- + String unit
- + double value
- + Condition whereCondition
- + Field into
- + Field pathToInput
- double similarity
- + boolean hasWhereCondition ()
- + boolean hasPathToInput ()
- + boolean hasSimilarity ()
- String toMultilineString(int level)

geco.model.util. ObjectStructure

- + List<OutputFieldSpec> outputList
- String to Multiline String (int level)

geco.model.util. OutputFieldSpec

- + static final int UNDEFINED
- + static final int FIELD REF
- + static final int VALUE FIELD REF
- + static final int VALUE CONSTANT
- + static final int VALUE OBJECT STRUCTURE
- + Field fieldRef
- + ObjectStructure valueObjectStructure
- + Field valueField
- Value value
- + String id
- + int getOutputFieldSpecType ()

geco.model.util. Partition

- + Condition whereCondition
- + List<Field> bv
- + Field into
- + List<SortField> sortedBv
- + GenerateAction generate
- + boolean dropGroupingFields
- SortField addSortingField(Field fr)
- boolean hasGenerateClause ()
- boolean hasDropGroupingFields ()
- boolean isSortedBy ()
- String toMultilineString (int level)

geco.model.util. SortField

- + static int UNDEFINED
- + static int ASCENDING
- static int DESCENDING
- + Field field
- + int versus
- + String versusStr

geco.model.util. TrajectoryPartition

- + Condition selectionCondition
- + List<PartitionMatching> matchings
- String toMultilineString(int level)

package geco.fuzzy v3.1

geco.model.fuzzy. AddFields

- + List<NonFuzzyFunction> fieldList
- + List<Field> asList

geco.model.fuzzy. AddNewFuzzySets

- + List<FuzzySetReference> fuzzySetReferenceList
- + String toMultilineString (int level)

geco.model.fuzzy. AlphaCut

- + String alphacut
- + String on

geco.model.fuzzy. FuzzyCheck

- + String fuzzySet
- + Condition using
- String toMultilineString(int level)

geco.model.fuzzy. FuzzyPoint

- + String x
- + String y
- + double getXvalue ()
- + double getYvalue ()

geco.model.fuzzy. FuzzyRange

- + String x1
- + String x2
- + double getX1value ()
- + double getX2value ()

$geco.model.fuzzy.\ FuzzySetReference$

- + static final int UNDEFINED
- static final int FUZZYSET
- + static final int LEFT FUZZYSET
- + static final int RIGHT FUZZYSET
- + static final int HOWMEET
- static final int INSIDE
- + static final int OVERLAP
- static final int ALL PARAMETER
- + static final int LEFT PARAMETER
- + static final int RIGHT_PARAMETER
- + int type
- + int parameterType
- String fuzzySet
- String leftRight
- String function
- String parameter
- String as
- boolean hasAlias ()
- boolean hasAs ()

geco.model.fuzzy. IfFails

- String ifFailsValue
- Condition ifFailsCondition

geco.model.fuzzy. KeepDropFuzzySets

- + static final int UNDEFINED
- + static final int DROPPING
- static final int KEEPING
- static final int KEEP ALL
- + static final int KEEP LEFT
- + static final int KEEP RIGHT
- int keepDropType
- int keepType
- + boolean isKeeping ()
- boolean isDropping ()
- String toMultilineString (int level)

geco.model.fuzzy. KeepingDroppingFuzzySets

- static final int UNDEFINED
- + static final int DROPPING
- + static final int KEEPING
- static final int DROPPING ALL
- + static final int KEEPING ALL
- + List<String> fuzzySets
- int type
- String typeString