

package geco.parser v2.6

### geco.parser.GecoParser

- + void start()
- + Environment getEnvironment()
- + ArrayList<String> getErrorList ()

### geco.parser.Environment

- + List<String> getErrorList ()
- + List<String> getWarningList ()
- + List<Instruction> getInstructionList ()
- + int getNInstruction ()

package geco.model v2.6

**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 USEDDB\_INSTRUCTION
- + static final int TRAJECTORY\_MATCHING\_INSTRUCTION
- + int getId()
- + int getSequence()
- + String getInstructionName()
- + String toString ()
- + **abstract** String toMultilineString ()

**geco.model.GetCollection** *extends Instruction*

- + DbCollection collection

**geco.model.SetIntermediateAs** *extends Instruction*

- + DbCollection collection

**geco.model.SaveAs** *extends Instruction*

- + DbCollection collection

**geco.model.IntersectCollections** *extends Instruction*

- + DbCollection collection1
- + DbCollection collection2

**geco.model.SpatialJoin** *extends Instruction*

- + final static int GEOMETRY\_UNDEFINED
- + final static int GEOMETRY\_ALL
- + final static int GEOMETRY\_RIGHT
- + final static int GEOMETRY\_LEFT
- + final static int GEOMETRY\_INTERSECTION
- + DbCollection collection1
- + DbCollection collection2
- + SpatialJoinCondition on
- + int geometry
- + CaseClause caseClause
- + boolean hasCondition ()
- + boolean hasCaseClause ()

**geco.model.SubtractCollections** *extends Instruction*

- + DbCollection collection1
- + DbCollection collection2

**geco.model.UseDb** *extends Instruction*

- + final static int DEFAULT
- + final static int SERVER
- + final static int SERVER\_CONNECTED
- + List<DbName> dbList
- + String server
- + String connectionString
- + int type
- + boolean isDefault ()
- + boolean hasServer ()
- + boolean hasConnectionString ()

**geco.model.MergeCollections** *extends Instruction*

- + List <DbCollection> collectionList
- + String all
- + boolean mergeAll ()

**geco.model.Filter** *extends Instruction*

- + CaseClause caseClause

**geco.model.Group** *extends Instruction*

- + final static int UNDEFINED
- + final static int KEEP\_OTHERS
- + final static int DROP\_OTHERS
- + List<Partition> partitions
- + int others

**geco.model.Expand** *extends Instruction*

- + final static int KEEP\_OTHERS
- + final static int DROP\_OTHERS
- + List<Unpack> unpacks
- + int others

**geco.model.JoinCollections** *extends Instruction*

- + DbCollection collection1
- + DbCollection collection2
- + CaseClause caseClause
- + boolean hasCaseClause ()

**geco.model.TrajectoryMatching** *extends Instruction*

- + final static int UNDEFINED
- + final static int KEEP\_OTHERS
- + final static int DROP\_OTHERS
- + DbCollection collection1
- + DbCollection collection2
- + List<TrajectoryPartition> partitions
- + int others

**geco.model.util.Condition**

- + *static final int* UNDEFINED
- + *static final int* NOT\_CONDITION
- + *static final int* AND\_CONDITION
- + *static final int* OR\_CONDITION
- + *static final int* PREDICATE\_CONDITION
- + Predicate predicate
- + int type
- + toMultilineString (int level)

**geco.model.util.ConditionOr** *extends Condition*

- + List<Condition> conditions

**geco.model.util.ConditionAnd** *extends Condition*

- + List<Condition> conditions

**geco.model.util.ConditionNot** *extends Condition*

- + Condition condition

**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 String* EQ
- + *static final String* NEQ
- + *static final String* LT
- + *static final String* GT
- + *static final String* LE
- + *static final String* GE
- + WithPredicate withPredicate
- + WithoutPredicate withoutPredicate
- + Expression expression1
- + Expression expression2
- + String comparator
- + int type
- + toMultilineString (int level)

**geco.model.util.Expression**

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

**geco.model.util.ExpressionTerm**

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

**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* 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)

**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
- + toMultilineString (int level)

**geco.model.util.WhereCase**

- + Condition condition
- + GenerateAction generateAction
- + boolean hasGenerateAction ()
- + String toMultilineString (int level)

**geco.model.util.DbName**

- + String db
- + String alias

**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
- + ObjectStructure objectStructure
- + GeometricOption geometricOption
- + int getGenerateActionType ()
- + boolean hasObjectStructure ()
- + boolean hasGeometricOption ()
- + boolean isComplete ()
- + String toMultilineString (int level)

**geco.model.util.ObjectStructure**

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

**geco.model.util.Partition**

- + Condition whereCondition
- + List<Field> by
- + Field into
- + List<SortField> sortedBy
- + boolean dropGroupingFields
- + GenerateAction generate
- + boolean hasGenerateClause ()
- + boolean isSortedBy ()
- + String toMultilineString (int level)

**geco.model.util.Unpack**

- + Condition where
- + Field array
- + String to
- + GenerateAction generate
- + boolean hasGenerateClause ()
- + 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.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 ---- deprecated
- + int getOutputFieldSpecType ()

**geco.model.util.SpatialJoinCondition**

- + static final int UNDEFINED
- + static final int DISTANCE
- + static final int AREA
- + static final int ORIENTATION
- + 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
- + toMultilineString (int level)

**geco.model.util.TrajectoryPartition**

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

**geco.model.util.DbCollection**

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

**geco.model.util.Field**

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

**geco.model.util.SortField**

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

**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
- + String type
- + boolean isApex ()
- + boolean isFloat ()
- + boolean isInt ()
- + boolean isQuoted ()
- + boolean isBoolean ()