SpatialAnalyst Object Model

ESRI® ArcGIS® 9.2

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Class Diagram Key

InterfaceA
(Optional)InterfaceB

AbstractClass
Interface of interface

Type inheritance

Instantiation

InterfaceD
InterfaceB

CoClass
Interface of interface

Composition

InterfaceG
InterfaceM
(<classname>)InterfaceO

Class
Interface of interface

Association

1..* Multiplicity

Special Interfaces

(Optional) represents interfaces that are inherited by some subclasses but not all. The subclasses list the optional interfaces they implement.

(Instance) represents interfaces that are only on specific instances of the class.

(<classname>) indicates the name of the helper class required to support this event interface in visual Basic.

Inbound Interface
Outbound Interface

Interface key
Property Get
Property Let/Put
Property Get/Put
Property Put by Reference
Method

enumeration
firstValue - firstEnumeration
secondValue - secondEnumeration

Structure key <<Struct>>
firstMember: Type
secondMember: Type

Types of Classes

An abstract class cannot be used to create new objects but is a specification for instances of subclasses (through type inheritance.)

A CoClass can directly create objects by declaring a new object.

A Class cannot directly create objects, but objects of this class can be created as a property of another class or instantiated by objects from another class.

Types of Relationships

Associations represent relationships between classes. They have defined multiplicities at both ends.

Type inheritance defines specialized classes of objects which share properties and methods with the superclass and have additional properties and methods. Note that interfaces in superclasses are not duplicated in subclasses.

Instantiation specifies that one object from one class has a method with which it creates an object from another class.

Composition is a relationship in which objects from the 'whole' class control the lifetime of objects from the 'part' class.

An N-ary association specifies that more than two classes are associated. A diamond is placed at the intersection of the association branches.

A Multiplicity is a constraint on the number of objects that can be associated with another object. Association and composition relationships have multiplicities on both sides. This is the notation for multiplicities:

1 - One and only one (if none shown, '1' is implied)
0..1 - Zero or one
M..N - From M to N (positive integers)
* or 0..* - From zero to any positive integer
1..* - From one to any positive integer

RasterAnalysis in GeoAnalyst

RasterConditionalOp
IConditionalOp
IRasterAnalysisEnvironment
ConditionalOp
Con (in conditionalRaster: IGeoDataset, in trueRaster: IGeoDataset, in falseRaster: IGeoDataset)
Pick (in valueRaster: IGeoDataset, in collectionOfRasters: IGeoDataset)
SetNull (in conditionalRaster: IGeoDataset, in falseRaster: IGeoDataset)

RasterDensityOp
IDensityOp
IRasterAnalysisEnvironment
DensityOp
KernelDensity (in sourceFeatures: IGeoDataset, in radiusDistance: Variant, in cellSize: Variant, in areaUnits: String)
LineDensity (in lineFeatures: IGeoDataset, in radiusDistance: Variant, in cellSize: Variant, in areaUnits: String)
PointDensity (in pointFeatures: IGeoDataset, in nbrRound: IRasterNeighborRound, in scaleFactor: Variant): IGeoDataset

RasterExtractionOp
IExtractionOp
IRasterAnalysisEnvironment
ExtractionOp
Attribute (in Raster: IRasterDescriptor): IGeoDataset
Circle (in CircularArc): in selectInside: Boolean): IGeoDataset
Polygon (in Polygon, in selectInside: Boolean): IGeoDataset
Raster (in geoDataset: IGeoDataset, in maskRaster: IGeoDataset): IGeoDataset
Rectangle (in geoDataset: IGeoDataset, in rectangleEnvelope: IEnvelope, in selectInside: Boolean): IGeoDataset
Sample (in locationDataset: IGeoDataset, in collectionOfRasters: IGeoDataset, in resampleType: esriGeoAnalysisResampleEnum): ITable
IExtractionOp2
ExtractionOp2
Attribute (in Raster: IRasterDescriptor): IGeoDataset
Circle (in geoDataset: IGeoDataset, in Circle: ICircularArc, in selectInside: Boolean): IGeoDataset
ExtractValuesToPoints (in pointDataset: IGeoDataset, in raster: IGeoDataset, in interpolateValues: Boolean, in allAttributes: Boolean): IGeoDataset
Points (in geoDataset: IGeoDataset, in Points: IPointCollection, in selectInside: Boolean): IGeoDataset
Polygon (in geoDataset: IGeoDataset, in Polygon: IPolygon, in selectInside: Boolean): IGeoDataset
Raster (in geoDataset: IGeoDataset, in maskRaster: IGeoDataset): IGeoDataset
Rectangle (in geoDataset: IGeoDataset, in rectangleEnvelope: IEnvelope, in selectInside: Boolean): IGeoDataset
Sample (in locationDataset: IGeoDataset, in collectionOfRasters: IGeoDataset, in resampleType: esriGeoAnalysisResampleEnum): ITable

RasterGeneralizeOp
IGeneralizeOp
IRasterAnalysisEnvironment
GeneralizeOp
Aggregate (in Raster: IGeoDataset, in cellFactor: Variant, in aggregationType: esriGeoAnalysisStatisticsEnum, in expandExtent: Boolean, in ignoreNoData: Boolean): IGeoDataset
BoundaryClean (in Raster: IGeoDataset, in sortType: esriGeoAnalysisSortEnum, in runTwice: Boolean): IGeoDataset
Expand (in Raster: IGeoDataset, in numCells: Long, in zoneList: Variant): IGeoDataset
MajorityFilter (in Raster: IGeoDataset, in numNeighbors: esriGeoAnalysisNeighborEnum, in haltMajority: Boolean): IGeoDataset
Nibble (in Raster: IGeoDataset, in nibbleMaskData: IGeoDataset, in useNoData: Boolean): IGeoDataset
RegionGroup (in Raster: IGeoDataset, in useDiagonalNeighbors: Boolean, in withinZones: Boolean, in createLinkField: Boolean, in linkFieldValue: Variant): IGeoDataset
Resample (in Raster: IGeoDataset, in cellSize: Variant, in resampleType: esriGeoAnalysisResampleEnum): IGeoDataset
Thin (in Raster: IGeoDataset, in numberCells: Long, in zoneList: Variant): IGeoDataset

RasterStringRemapOp
IGeneralizeOp
IRasterAnalysisEnvironment
StringRemapOp
MinOutputValue: Long
MaxOutputValue: Long
RecordCount: Long
Remap: IRemap
Clear
DeleteRecord (in recordIndex: Long)
InsertRecord (in recordIndex: Long)
LoadFromTable (in remapTable: ITable)
QueryNoDataTo (out isMapped: Boolean, out toOutValue: Long)
QueryRecord (in recordIndex: Long, out isInValue: String, out toOutValue: String)
SaveToTable (in remapTable: ITable)
SaveToTable (in tableName: String)
SetMap (out isInValue: Boolean, out toOutValue: Long)
SetMapRange (in minInValue: Double, in maxInValue: Double, in outputValue: Long)
SetMapValue (in inValue: Double, in outputValue: Long)
SetNoDataTo (in value: Long)
QueryNumberOfRecords (in minValue: Double, out minValue: Double, out maxValue: Double, out outValue: Long, out mapped:TrilNoData)
QueryNumberValue (in inValue: Double, out outValue: Long, out isMapped: Boolean)

RasterGeneralizeOp
IGeneralizeOp
IRasterAnalysisEnvironment
GeneralizeOp
Aggregate (in Raster: IGeoDataset, in cellFactor: Variant, in aggregationType: esriGeoAnalysisStatisticsEnum, in expandExtent: Boolean, in ignoreNoData: Boolean): IGeoDataset
BoundaryClean (in Raster: IGeoDataset, in sortType: esriGeoAnalysisSortEnum, in runTwice: Boolean): IGeoDataset
Expand (in Raster: IGeoDataset, in numCells: Long, in zoneList: Variant): IGeoDataset
MajorityFilter (in Raster: IGeoDataset, in numNeighbors: esriGeoAnalysisNeighborEnum, in haltMajority: Boolean): IGeoDataset
Nibble (in Raster: IGeoDataset, in nibbleMaskData: IGeoDataset, in useNoData: Boolean): IGeoDataset
RegionGroup (in Raster: IGeoDataset, in useDiagonalNeighbors: Boolean, in withinZones: Boolean, in createLinkField: Boolean, in linkFieldValue: Variant): IGeoDataset
Resample (in Raster: IGeoDataset, in cellSize: Variant, in resampleType: esriGeoAnalysisResampleEnum): IGeoDataset
Thin (in Raster: IGeoDataset, in numberCells: Long, in zoneList: Variant): IGeoDataset

RasterStringRemapOp
IGeneralizeOp
IRasterAnalysisEnvironment
StringRemapOp
MinOutputValue: Long
MaxOutputValue: Long
RecordCount: Long
Remap: IRemap
Clear
DeleteRecord (in recordIndex: Long)
InsertRecord (in recordIndex: Long)
LoadFromTable (in remapTable: ITable)
QueryNoDataTo (out isMapped: Boolean, out toOutValue: Long)
QueryRecord (in recordIndex: Long, out isInValue: String, out toOutValue: String)
SaveToTable (in remapTable: ITable)
SaveToTable (in tableName: String)
SetMap (out isInValue: Boolean, out toOutValue: Long)
SetMapRange (in minInValue: Double, in maxInValue: Double, in outputValue: Long)
SetMapValue (in inValue: Double, in outputValue: Long)
SetNoDataTo (in value: Long)
QueryNumberOfRecords (in minValue: Double, out minValue: Double, out maxValue: Double, out outValue: Long, out mapped:TrilNoData)
QueryNumberValue (in inValue: Double, out outValue: Long, out isMapped: Boolean)

RasterDistanceOp
IDistanceOp
IRasterAnalysisEnvironment
DistanceOp
Corridor (in distance1: IGeoDataset, in distance2: IGeoDataset): IGeoDataset
CostAllocation (in sourceData: IGeoDataset, in costRaster: IGeoDataset, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
CostBackLink (in sourceData: IGeoDataset, in costRaster: IGeoDataset, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
CostDistance (in sourceData: IGeoDataset, in costRaster: IGeoDataset, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
CostDistanceFull (in sourceData: IGeoDataset, in costRaster: IGeoDataset, in backlink: Boolean, in allocation: Boolean, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
CostPath (in fromData: IGeoDataset, in distance: IGeoDataset, in backlink: Boolean, in pathType: esriGeoAnalysisPathEnum): IGeoDataset
CostPathPolyline (in sourcePoints: IPointCollection, in distance: IGeoDataset, in backlink: Boolean): IGeoDataset
EucAllocation (in sourceData: IGeoDataset, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
EucBackLink (in sourceData: IGeoDataset, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
EucDirection (in sourceData: IGeoDataset, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
EucDistance (in sourceData: IGeoDataset, in distance: IGeoDataset, in direction: IGeoDataset, in valueRaster: Variant): IGeoDataset
PathAllocation (in sourceData: IGeoDataset, in costRaster: Variant, in surfaceRaster: Variant, in horizFactor: Variant, in vertFactor: Variant, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
PathBackLink (in sourceData: IGeoDataset, in costRaster: Variant, in surfaceRaster: Variant, in horizFactor: Variant, in vertFactor: Variant, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
PathDistance (in sourceData: IGeoDataset, in costRaster: Variant, in surfaceRaster: Variant, in horizFactor: Variant, in vertFactor: Variant, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
PathDistanceFull (in sourceData: IGeoDataset, in distance: Boolean, in backlink: Boolean, in allocation: Boolean, in costRaster: Variant, in surfaceRaster: Variant, in horizFactor: Variant, in vertFactor: Variant, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset

DistanceOp2
Corridor (in distance1: IGeoDataset, in distance2: IGeoDataset): IGeoDataset
CostAllocation (in sourceData: IGeoDataset, in costRaster: IGeoDataset, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
CostBackLink (in sourceData: IGeoDataset, in costRaster: IGeoDataset, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
CostDistance (in sourceData: IGeoDataset, in costRaster: IGeoDataset, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
CostDistanceFull (in sourceData: IGeoDataset, in costRaster: IGeoDataset, in backlink: Boolean, in allocation: Boolean, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
CostPath (in fromData: IGeoDataset, in distance: IGeoDataset, in backlink: Boolean, in pathType: esriGeoAnalysisPathEnum): IGeoDataset
CostPathPolyline (in sourcePoints: IPointCollection, in distance: IGeoDataset, in backlink: Boolean): IGeoDataset
EucAllocation (in sourceData: IGeoDataset, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
EucBackLink (in sourceData: IGeoDataset, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
EucDirection (in sourceData: IGeoDataset, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
EucDistance (in sourceData: IGeoDataset, in distance: IGeoDataset, in direction: IGeoDataset, in valueRaster: Variant): IGeoDataset
PathAllocation (in sourceData: IGeoDataset, in costRaster: Variant, in surfaceRaster: Variant, in horizFactor: Variant, in vertFactor: Variant, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
PathBackLink (in sourceData: IGeoDataset, in costRaster: Variant, in surfaceRaster: Variant, in horizFactor: Variant, in vertFactor: Variant, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
PathDistance (in sourceData: IGeoDataset, in costRaster: Variant, in surfaceRaster: Variant, in horizFactor: Variant, in vertFactor: Variant, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset
PathDistanceFull (in sourceData: IGeoDataset, in distance: Boolean, in backlink: Boolean, in allocation: Boolean, in costRaster: Variant, in surfaceRaster: Variant, in horizFactor: Variant, in vertFactor: Variant, in maxDistance: Variant, in valueRaster: Variant): IGeoDataset

RasterGroundwaterOp
IGroundwaterOp
IRasterAnalysisEnvironment
GroundwaterOp
DarcyVelocity (in headRaster: IGeoDataset, in porosityRaster: IGeoDataset, in thicknessRaster: IGeoDataset, in transmissivityRaster: IGeoDataset, in createDirection: Boolean, in createMagnitude: Boolean)
DarcyVelocity (in headRaster: IGeoDataset, in porosityRaster: IGeoDataset, in thicknessRaster: IGeoDataset, in transmissivityRaster: IGeoDataset): IGeoDataset
ParticleTrack (in directionRaster: IGeoDataset, in magnitudeRaster: IGeoDataset, in seedFeatures: IGeoDataset, in trackFile: String, in stepLength: Variant, in trackingTime: Variant): IGeoDataset
ParticleTrack (in headRaster: IGeoDataset, in porosityRaster: IGeoDataset, in thicknessRaster: IGeoDataset, in Kass: Variant, in longitudinalDispersivity: Variant, in transverseDispersivity: Variant, in retardationFactor: Variant, in decayCoefficient: Variant): IGeoDataset

RasterHydrologyOp
IHydrologyOp
IRasterAnalysisEnvironment
HydrologyOp
Basin (in directionRaster: IGeoDataset): IGeoDataset
Fill (in surfaceRaster: IGeoDataset, in zLimit: Variant): IGeoDataset
FlowAccumulation (in directionRaster: IGeoDataset, in weightRaster: Variant): IGeoDataset
FlowDirection (in surfaceRaster: IGeoDataset, in createDrop: Boolean, in forceFlow: Boolean): IGeoDataset
FlowLength (in directionRaster: IGeoDataset, in downstream: Boolean, in weightRaster: Variant): IGeoDataset
Sink (in directionRaster: IGeoDataset): IGeoDataset
SnapPourPoint (in sourceDataset: IGeoDataset, in snapDistance: IGeoDataset, in snapDistance: Double): IGeoDataset
Stream (in streamRaster: IGeoDataset, in directionRaster: IGeoDataset, in orderType: esriGeoAnalysisStreamOrderEnum): IGeoDataset
StreamLink (in streamRaster: IGeoDataset, in directionRaster: IGeoDataset, in performWeeding: Boolean): IGeoDataset
Watershed (in directionRaster: IGeoDataset, in sourceDataset: IGeoDataset): IGeoDataset

HydrologyOp2
Basin (in directionRaster: IGeoDataset): IGeoDataset
Fill (in surfaceRaster: IGeoDataset, in zLimit: Variant): IGeoDataset
FlowAccumulation (in directionRaster: IGeoDataset, in weightRaster: Variant): IGeoDataset
FlowDirection (in surfaceRaster: IGeoDataset, in createDrop: Boolean, in forceFlow: Boolean): IGeoDataset
FlowLength (in directionRaster: IGeoDataset, in downstream: Boolean, in weightRaster: Variant): IGeoDataset
Sink (in directionRaster: IGeoDataset): IGeoDataset
SnapPourPoint (in sourceDataset: IGeoDataset, in snapDistance: IGeoDataset, in snapDistance: Double): IGeoDataset
Stream (in streamRaster: IGeoDataset, in directionRaster: IGeoDataset, in orderType: esriGeoAnalysisStreamOrderEnum): IGeoDataset
StreamLink (in streamRaster: IGeoDataset, in directionRaster: IGeoDataset, in performWeeding: Boolean): IGeoDataset
Watershed (in directionRaster: IGeoDataset, in sourceDataset: IGeoDataset): IGeoDataset

RasterLocalOp
ILocalOp
IRasterAnalysisEnvironment
LocalOp
Combine (in LocalData: IGeoDataset): IGeoDataset
EqualTo (in ValueData: IGeoDataset, in LocalData: IGeoDataset): IGeoDataset
GreaterThan (in ValueData: IGeoDataset, in LocalData: IGeoDataset): IGeoDataset
HighestPosition (in LocalData: IGeoDataset): IGeoDataset
LocalStatistics (in LocalData: IGeoDataset, in LocalStatisticsAnalysisStatisticsEnum): IGeoDataset
LowestPosition (in LocalData: IGeoDataset): IGeoDataset
Popularity (in ValueData: IGeoDataset, in LocalData: IGeoDataset): IGeoDataset
Rank (in ValueData: IGeoDataset, in LocalData: IGeoDataset): IGeoDataset

RasterMapAlgebraOp
IMapAlgebraOp
IRasterAnalysisEnvironment
MapAlgebraOp
BindRaster (in geoDataset: IGeoDataset, in symbol: String)
SaveBinding (in expression: String)
UnbindRaster (in symbolName: String)

RasterMultivariateOp
IMultivariateOp
IRasterAnalysisEnvironment
MultivariateOp
BandCollectionStats (in rasterBands: IGeoDataset, in computeMatrices: Boolean)
ClassProbability (in rasterBands: IGeoDataset, in signatureFile: String, in aPriorWeighting: esriGeoAnalysisAPrioriEnum, in aPrioriFile: Variant, in outputScalingFactor: Variant): IGeoDataset
CreateSignatures (in rasterBands: IGeoDataset, in sampleDataset: IGeoDataset, in signatureFile: String, in computeCovariance: Boolean)
Dendrogram (in signatureFile: String, in dendrogramFile: String, in computeWithVariance: Boolean, in numClasses: Long)
EditSignatures (in rasterBands: IGeoDataset, in signatureFile: String, in editCode: Long, in newSignatureFile: String, in sampleInterval: Variant)
ExtractByMask (in inRaster: IGeoDataset, in signatureFile: String, in numberOfClasses: Long, in numberIterations: Variant, in minimumClassSize: Variant, in sampleInterval: Variant)
IsoCluster (in rasterBands: IGeoDataset, in signatureFile: String, in createConfidenceOutput: Boolean, in maxNumClasses: Long, in esriGeoAnalysisAPrioriEnum, in aPrioriFile: Variant, in rejectFraction: Variant): IGeoDataset
PrincipalComponents (in rasterBands: IGeoDataset, in dataFile: String, in numberComponents: Variant): IGeoDataset

RasterNeighborhoodOp
INeighborhoodOp
IRasterAnalysisEnvironment
NeighborhoodOp
BlockStatistics (in geoDataset: IGeoDataset, in nbrRound: IRasterNeighborRound, in esriGeoAnalysisStatisticsEnum, in ignoreNoData: Boolean): IGeoDataset
Filter (in geoDataset: IGeoDataset, in esriGeoAnalysisFilterEnum, in ignoreNoData: Boolean): IGeoDataset
FocalFlow (in geoDataset: IGeoDataset, in nbrRound: IRasterNeighborRound): IGeoDataset
FocalStatistics (in geoDataset: IGeoDataset, in nbrRound: IRasterNeighborRound, in esriGeoAnalysisStatisticsEnum, in ignoreNoData: Boolean): IGeoDataset
InterpolateGrid (in surfaceRaster: IGeoDataset, in nbrRound: IRasterNeighborRound, in ignoreNoData: Boolean): IGeoDataset
PointStatistics (in pointDataset: IGeoDataset, in cellSize: Double, in nbrRound: IRasterNeighborRound, in esriGeoAnalysisStatisticsEnum, in radius: Double): IGeoDataset
RasterNeighborhood (in geoDataset: IGeoDataset, in nbrRound: IRasterNeighborRound): IGeoDataset

RasterZonalOp
IZonalOp
IRasterAnalysisEnvironment
ZonalOp
TabulateArea (in zoneDataset: IGeoDataset, in classDataset: ITable
ZonalFill (in zoneDataset: IGeoDataset, in esriGeoAnalysisZonalEnum): IGeoDataset
ZonalGeometry (in zoneDataset: IGeoDataset, in esriGeoAnalysisZonalGeometryEnum): IGeoDataset
ZonalGeometryAsTable (in geoDataset: IGeoDataset): ITable
ZonalSeasons (in zoneDataset: IGeoDataset, in esriGeoAnalysisZonalSeasonsEnum): IGeoDataset
ZonalStatistics (in zoneDataset: IGeoDataset, in esriGeoAnalysisZonalEnum): IGeoDataset
ZonalStatisticsAsTable (in zone IGeoDataset, in value: IGeoDataset, in ignoreNoData: Boolean): ITable

RasterMathOps
IMathOp
IRasterAnalysisEnvironment
MathOp
Abs (in geoDataset: IGeoDataset): IGeoDataset
ACos (in geoDataset: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
ACosH (in geoDataset: IGeoDataset): IGeoDataset
ASin (in geoDataset: IGeoDataset): IGeoDataset
ASinH (in geoDataset: IGeoDataset): IGeoDataset
ATan (in geoDataset: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
ATanH (in geoDataset: IGeoDataset): IGeoDataset
Cos (in geoDataset: IGeoDataset): IGeoDataset
CosH (in geoDataset: IGeoDataset): IGeoDataset
Exp (in geoDataset: IGeoDataset): IGeoDataset
Exp10 (in geoDataset: IGeoDataset): IGeoDataset
Exp2 (in geoDataset: IGeoDataset): IGeoDataset
Float (in geoDataset: IGeoDataset): IGeoDataset
Int (in geoDataset: IGeoDataset): IGeoDataset
Ln (in geoDataset: IGeoDataset): IGeoDataset
Log10 (in geoDataset: IGeoDataset): IGeoDataset
Log2 (in geoDataset: IGeoDataset): IGeoDataset
Minus (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
Plus (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
Power (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
PowerByConstVal (in geoDataset: IGeoDataset): IGeoDataset
RoundDown (in geoDataset: IGeoDataset): IGeoDataset
RoundUp (in geoDataset: IGeoDataset): IGeoDataset
Sin (in geoDataset: IGeoDataset): IGeoDataset
SinH (in geoDataset: IGeoDataset): IGeoDataset
Square (in geoDataset: IGeoDataset): IGeoDataset
SquareRoot (in geoDataset: IGeoDataset): IGeoDataset
Times (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset

ITrigOp
ITrigOp
ACos (in geoDataset: IGeoDataset): IGeoDataset
ACosH (in geoDataset: IGeoDataset): IGeoDataset
ASin (in geoDataset: IGeoDataset): IGeoDataset
ASinH (in geoDataset: IGeoDataset): IGeoDataset
ATan2 (in geoDataset: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
ATanH (in geoDataset: IGeoDataset): IGeoDataset
Cos (in geoDataset: IGeoDataset): IGeoDataset
CosH (in geoDataset: IGeoDataset): IGeoDataset
Sin (in geoDataset: IGeoDataset): IGeoDataset
SinH (in geoDataset: IGeoDataset): IGeoDataset
Tan (in geoDataset: IGeoDataset): IGeoDataset
TanH (in geoDataset: IGeoDataset): IGeoDataset

ILogicalOp
ILogicalOp
BooleanAnd (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
BooleanNot (in geoDataset: IGeoDataset): IGeoDataset
BooleanOr (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
BooleanXOr (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
CombinationOr (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
CombinationXOr (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
EqualTo (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
GreaterThan (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
GreaterThanEqual (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
IsNull (in geoDataset: IGeoDataset): IGeoDataset
LessThan (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
LessThanEqual (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
NotEqual (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
Test (in geoDataset: IRasterDescriptor): IGeoDataset

IBitwiseOp
IBitwiseOp
And (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
LeftShift (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
Not (in geoDataset: IGeoDataset): IGeoDataset
Or (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
RightShift (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
XOr (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset

ILogicalOperatorOp
ILogicalOperatorOp
LogicalOperatorOp
Diff (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
IsList (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset
Over (in geoDataset1: IGeoDataset, in geoDataset2: IGeoDataset): IGeoDataset

PathDistanceVerticalFactor
IPathDistanceVerticalFactor
PathDistanceVerticalFactor
Description: String
Type: esriPathDistanceVerticalEnum
SetBinary (in zeroFactor: Variant, in cutAngle: Variant, in highCutAngle: Variant)
SetCos (in lowCutAngle: Variant, in highCutAngle: Variant, in Power: Variant)
SetCosH (in lowCutAngle: Variant, in highCutAngle: Variant, in Power: Variant)
SetInverseLinear (in zeroFactor: Variant, in lowCutAngle: Variant, in highCutAngle: Variant)
SetLinear (in zeroFactor: Variant, in lowCutAngle: Variant, in highCutAngle: Variant)
SetSec (in lowCutAngle: Variant, in highCutAngle: Variant, in Power: Variant)
SetSecCos (in lowCutAngle: Variant, in highCutAngle: Variant, in secPower: Variant, in cosPower: Variant)
SetSecH (in lowCutAngle: Variant, in highCutAngle: Variant, in Power: Variant)
SetSecHCos (in lowCutAngle: Variant, in highCutAngle: Variant, in secPower: Variant, in cosPower: Variant)
SetSigmoid (in zeroFactor: Variant, in lowCutAngle: Variant, in highCutAngle: Variant)
SetSin (in lowCutAngle: Variant, in highCutAngle: Variant, in Power: Variant)
SetSinH (in lowCutAngle: Variant, in highCutAngle: Variant, in Power: Variant)
SetTable (in tableName: String)

PathDistanceHorizontalFactor
IPathDistanceHorizontalFactor
PathDistanceHorizontalFactor
Description: String
Type: esriPathDistanceHorizontalEnum
SetBinary (in zeroFactor: Variant, in cutAngle: Variant)
SetCos (in lowCutAngle: Variant, in highCutAngle: Variant, in Power: Variant)
SetCosH (in lowCutAngle: Variant, in highCutAngle: Variant, in Power: Variant)
SetInverseLinear (in zeroFactor: Variant, in lowCutAngle: Variant, in highCutAngle: Variant)
SetLinear (in zeroFactor: Variant, in lowCutAngle: Variant, in highCutAngle: Variant)
SetSec (in lowCutAngle: Variant, in highCutAngle: Variant, in Power: Variant)
SetSecH (in lowCutAngle: Variant, in highCutAngle: Variant, in Power: Variant)
SetSigmoid (in zeroFactor: Variant, in lowCutAngle: Variant, in highCutAngle: Variant)
SetSin (in lowCutAngle: Variant, in highCutAngle: Variant, in Power: Variant)
SetSinH (in lowCutAngle: Variant, in highCutAngle: Variant, in Power: Variant)
SetTable (in tableName: String)

GPValue in GeoDatabase

GPEvaluationScale
IGPEvaluationScale
IClone
IGPValue
IPersist
IPersistStream
IXMLSerialize
GPEvaluationScale : IUnknown
Increment: Long
IncrementValue: Double
EvalMethod: Double
GetScale (in min: Long, in max: Long, in increment: Long): Variant
Name (in out ob: Variant): Boolean

GPSACellSize
ISACellSize
IClone
IGPValue
IPersist
IPersistStream
IXMLSerialize
GPSACellSize : IUnknown
GetCellSize (out envType: esriRasterEnvSettingEnum, in CellSizeProvider: Variant)

GPSAHorizontalFactor
IGPSAHorizontalFactor
IClone
IGPValue
IPersist
IPersistStream
IXMLSerialize
GPSAHorizontalFactor : IUnknown
Type: esriPathDistanceHorizontalEnum
SetBinary (in zeroFactor: Variant, in cutAngle: Variant)
SetDefault
SetCos (in zeroFactor: Variant, in cutAngle: Variant, in Power: Variant)
SetInverseLinear (in zeroFactor: Variant, in cutAngle: Variant, in slope: Variant)
SetLinear (in zeroFactor: Variant, in cutAngle: Variant, in slope: Variant)
SetTable (in tableName: String)

GPSAMapAlgebraExp
IGPSAMapAlgebraExp
IClone
IGPValue
IPersist
IPersistStream
IXMLSerialize
GPSAMapAlgebraExp : IUnknown
SetExpression: String
SetExpression (in expString: String)

GPSANeighborhood
IGPSANeighborhood
IGPValue
IClone
IXMLSerialize
IPersistStream
GPSANeighborhood : IUnknown
Type: esriRasterNeighborhoodEnum
TypeOfUnits: esriGeoAnalysisUnitsEnum
SetAnnulus (in innerRadius: Double, in outerRadius: Double, in unitsType: esriGeoAnalysisUnitsEnum)
SetCircle (in radius: Double, in unitsType: esriGeoAnalysisUnitsEnum)
SetDefault
SetHeightFlatFilter
SetImage (in height: Long, in width: Long, in entryVariants: Variant)
SetLowPassFilter
SetRectangle (in width: Double, in height: Double, in unitsType: esriGeoAnalysisUnitsEnum)
SetWedge (in radius: Double, in startAngle: Double, in endAngle: Double, in unitsType: esriGeoAnalysisUnitsEnum)
SetWeight (in height: Long, in width: Long, in entryVariants: Variant)
SetWeightFile (in fileName: String)

GPSANeighborhood2
IGPSANeighborhood2
IClone
IGPValue
IPersist
IPersistStream
IXMLSerialize
GPSANeighborhood2 : IUnknown
Type: esriRasterNeighborhoodEnum
TypeOfUnits: esriGeoAnalysisUnitsEnum
SetAnnulus (in innerRadius: Double, in outerRadius: Double, in unitsType: esriGeoAnalysisUnitsEnum)
SetCircle (in radius: Double, in unitsType: esriGeoAnalysisUnitsEnum)
SetDefault
SetHeightFlatFilter
SetImage (in height: Long, in width: Long, in entryVariants: Variant)
SetImageFile (in fileName: String)
SetLowPassFilter
SetRectangle (in width: Double, in height: Double, in unitsType: esriGeoAnalysisUnitsEnum)
SetWedge (in radius: Double, in startAngle: Double, in endAngle: Double, in unitsType: esriGeoAnalysisUnitsEnum)
SetWeight (in height: Long, in width: Long, in entryVariants: Variant)
SetWeightFile (in fileName: String)

GPSANumberRemap
IGPSARemap
IClone
IGPValue
IPersist
IPersistStream
IXMLSerialize
GPSARemap : IUnknown
MinOutputValue: Long
MaxOutputValue: Long
RecordCount: Long
Remap: IRemap
Clear
DeleteRecord (in recordIndex: Long)
InsertRecord (in recordIndex: Long)
LoadFromTable (in remapTable: ITable)
QueryNoDataTo (out isMapped: Boolean, out toOutValue: Long)
QueryRecord (in recordIndex: Long, out isInValue: String, out toOutValue: String)
SaveToTable (in remapTable: ITable)
SaveToTable (in tableName: String)
SetMap (out isInValue: Boolean, out toOutValue: Long)
SetMapRange (in minInValue: Double, in maxInValue: Double, in outputValue: Long)
SetMapValue (in inValue: Double, in outputValue: Long)
SetNoDataTo (in value: Long)
QueryNumberOfRecords (in minValue: Double, out minValue: Double, out maxValue: Double, out outValue: Long, out mapped:TrilNoData)
QueryNumberValue (in inValue: Double, out outValue: Long, out isMapped: Boolean)

GPSANumberRemap
IGPSARemap
IClone
IGPValue
IPersist
IPersistStream
IXMLSerialize
GPSARemap : IUnknown
MinOutputValue: Long
MaxOutputValue: Long
RecordCount: Long
Remap: IRemap
Clear
DeleteRecord (in recordIndex: Long)
InsertRecord (in recordIndex: Long)
LoadFromTable (in remapTable: ITable)
QueryNoDataTo (out isMapped: Boolean, out toOutValue: Long)
QueryRecord (in recordIndex: Long, out isInValue: String, out toOutValue: String)
SaveToTable (in remapTable: ITable)
SaveToTable (in tableName: String)
SetMap (out isInValue: Boolean, out toOutValue: Long)
SetMapRange (in minInValue: Double, in maxInValue: Double, in outputValue: Long)
SetMapValue (in inValue: Double, in outputValue: Long)
SetNoDataTo (in value: Long)
QueryNumberOfRecords (in minValue: Double, out minValue: Double, out maxValue: Double, out outValue: Long, out mapped:TrilNoData)
QueryNumberValue (in inValue: Double, out outValue: Long, out isMapped: Boolean)

GPSAStringRemap
IGPSARemap
IClone
IGPValue
IPersist
IPersistStream
IXMLSerialize
GPSARemap : IUnknown
MinOutputValue: Long
MaxOutputValue: Long
RecordCount: Long
Remap: IRemap
Clear
DeleteRecord (in recordIndex: Long)
InsertRecord (in recordIndex: Long)
LoadFromTable (in remapTable: ITable)
QueryNoDataTo (out isMapped: Boolean, out toOutValue: Long)
QueryRecord (in recordIndex: Long, out isInValue: String, out toOutValue: String)
SaveToTable (in remapTable: ITable)
SaveToTable (in tableName: String)
SetMap (out isInValue: Boolean, out toOutValue: Long)
SetMapRange (in minInValue: Double, in maxInValue: Double, in outputValue: Long)
SetMapValue (in inValue: Double, in outputValue: Long)
SetNoDataTo (in value: Long)
QueryNumberOfRecords (in minValue: Double, out minValue: Double, out maxValue: Double, out outValue: Long, out mapped:TrilNoData)
QueryNumberValue (in inValue: Double, out outValue: Long, out isMapped: Boolean)

GPSATimeConfiguration
IGPSATimeConfiguration
IGPValue
IClone
IXMLSerialize
IPersistStream
IGPSATimeConfiguration : IUnknown
Type: esriState