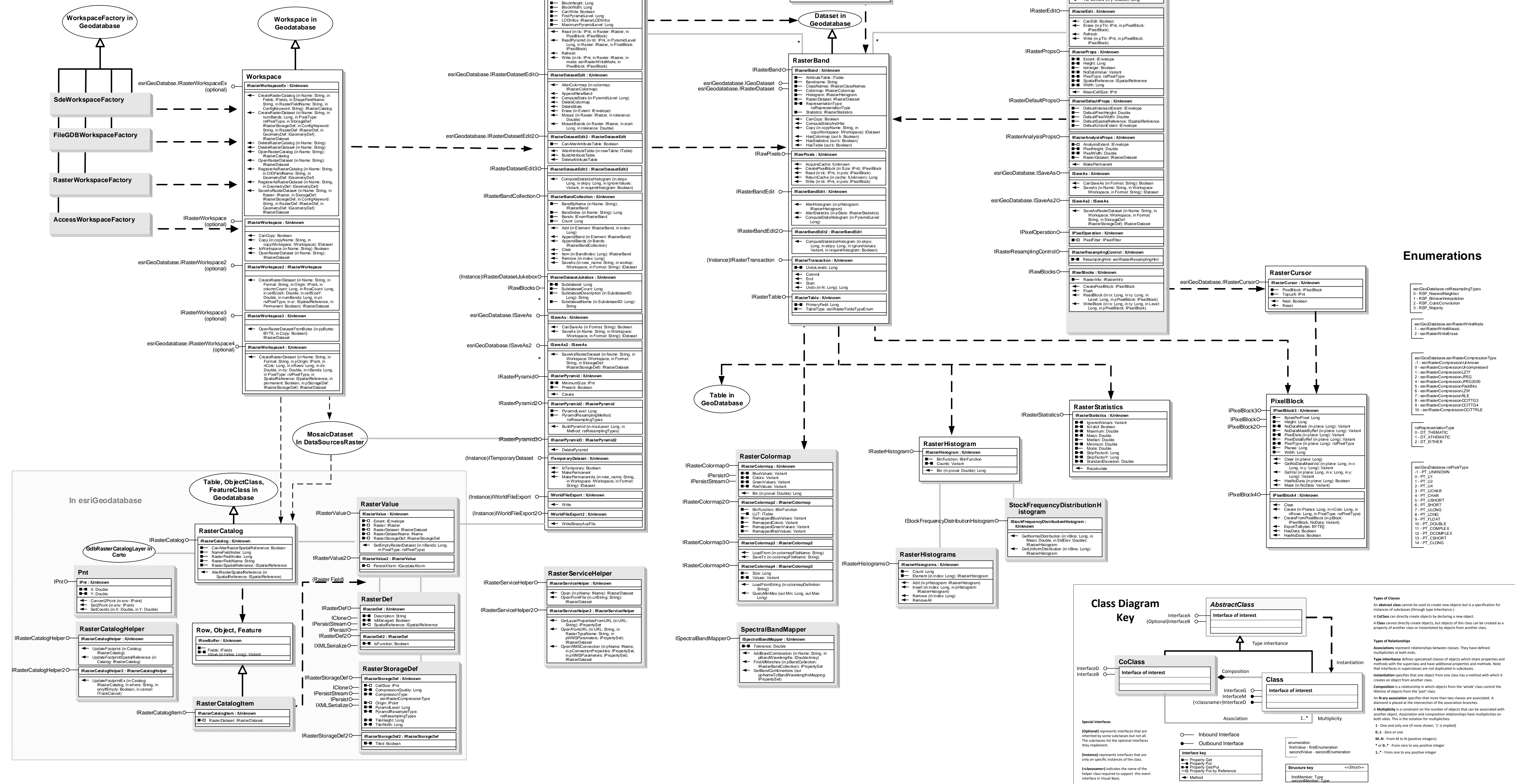


# DataSourcesRaster Object Model (Data Access)

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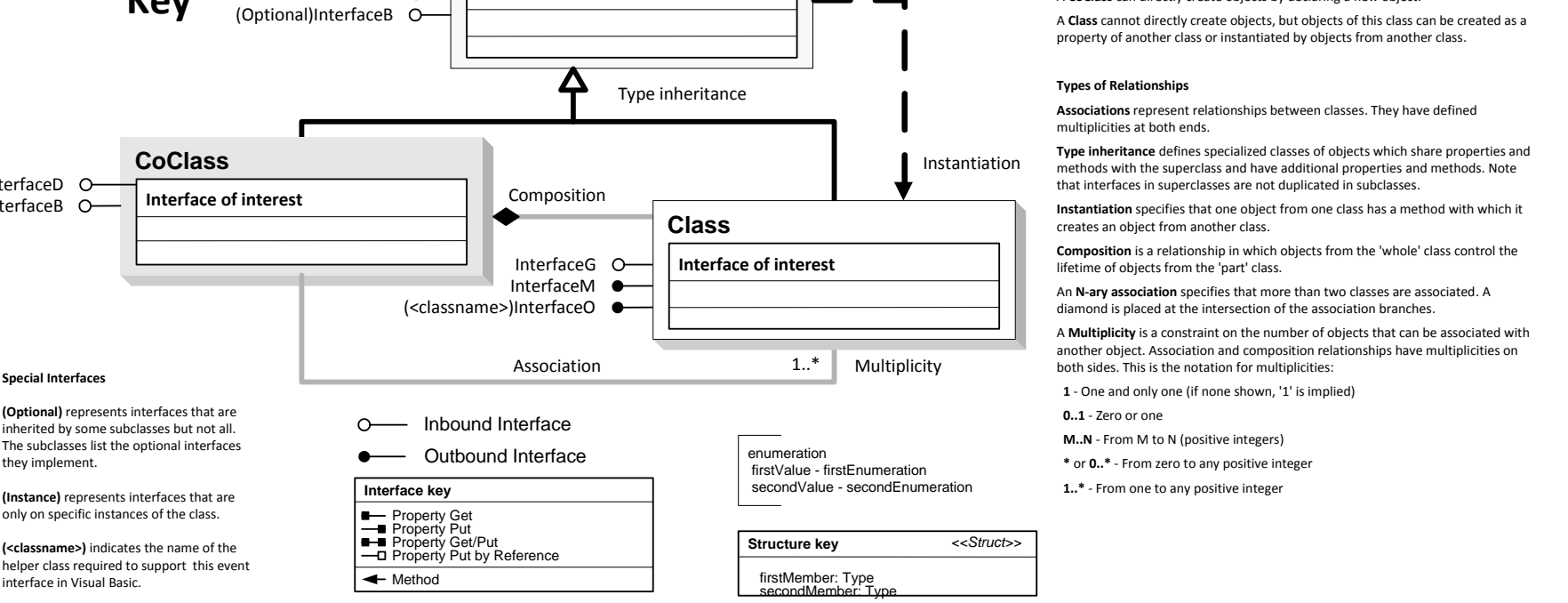
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## Enumerations

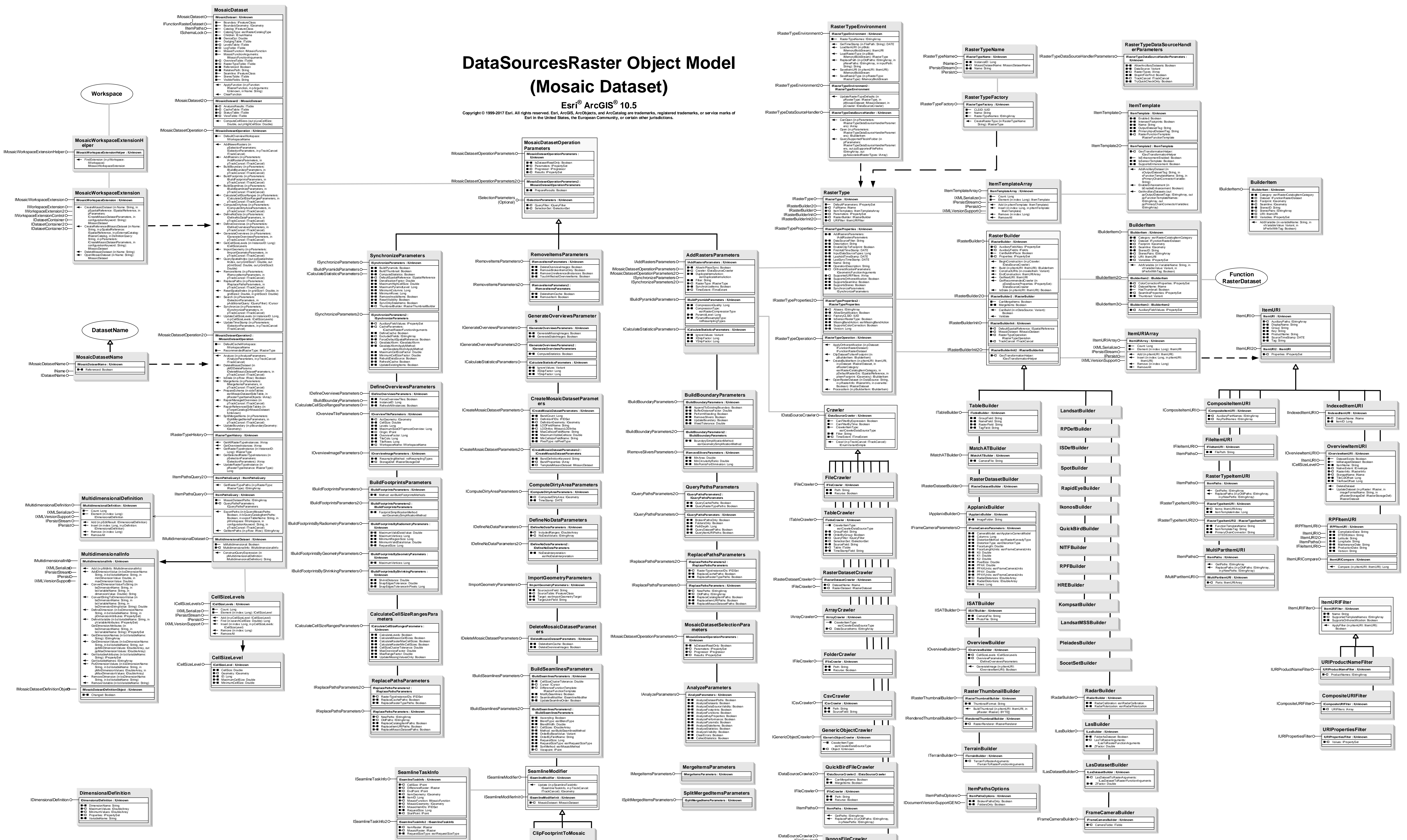
- esriGeoDatabase.IRasterResamplingTypes**
  - 0 - RSP\_NearestNeighbor
  - 1 - RSP\_BilinearInterpolation
  - 2 - RSP\_CubicConvolution
  - 3 - RSP\_Majority
- esriGeoDatabase.esriRasterWriteMode**
  - 1 - esriRasterWriteMode
  - 2 - esriRasterWriteErase
- esriGeoDatabase.esriRasterCompressionType**
  - 1 - esriRasterCompressionUnknown
  - 2 - esriRasterCompressionLZ
  - 3 - esriRasterCompressionLZW
  - 4 - esriRasterCompressionJPEG
  - 5 - esriRasterCompressionJPEG2000
  - 6 - esriRasterCompressionPnG
  - 7 - esriRasterCompressionLZV
  - 8 - esriRasterCompressionLE
  - 9 - esriRasterCompressionCITG3
  - 10 - esriRasterCompressionCITG4
- esriGeoDatabase.esriRasterType**
  - 1 - PT\_UNKNOWN
  - 2 - PT\_U1
  - 3 - PT\_U2
  - 4 - PT\_UCHAR
  - 5 - PT\_USHORT
  - 6 - PT\_SHORT
  - 7 - PT\_ULONG
  - 8 - PT\_LONG
  - 9 - PT\_FLOAT
  - 10 - PT\_DOUBLE
  - 11 - PT\_COMPLEX
  - 12 - PT\_COMPLEX2
  - 13 - PT\_CSHORT
  - 14 - PT\_CLONG
- esriGeoDatabase.esriRasterType**
  - 0 - DT\_THEMATIC
  - 1 - DT\_THEMATIC
  - 2 - DT\_OTHER

## Class Diagram Key

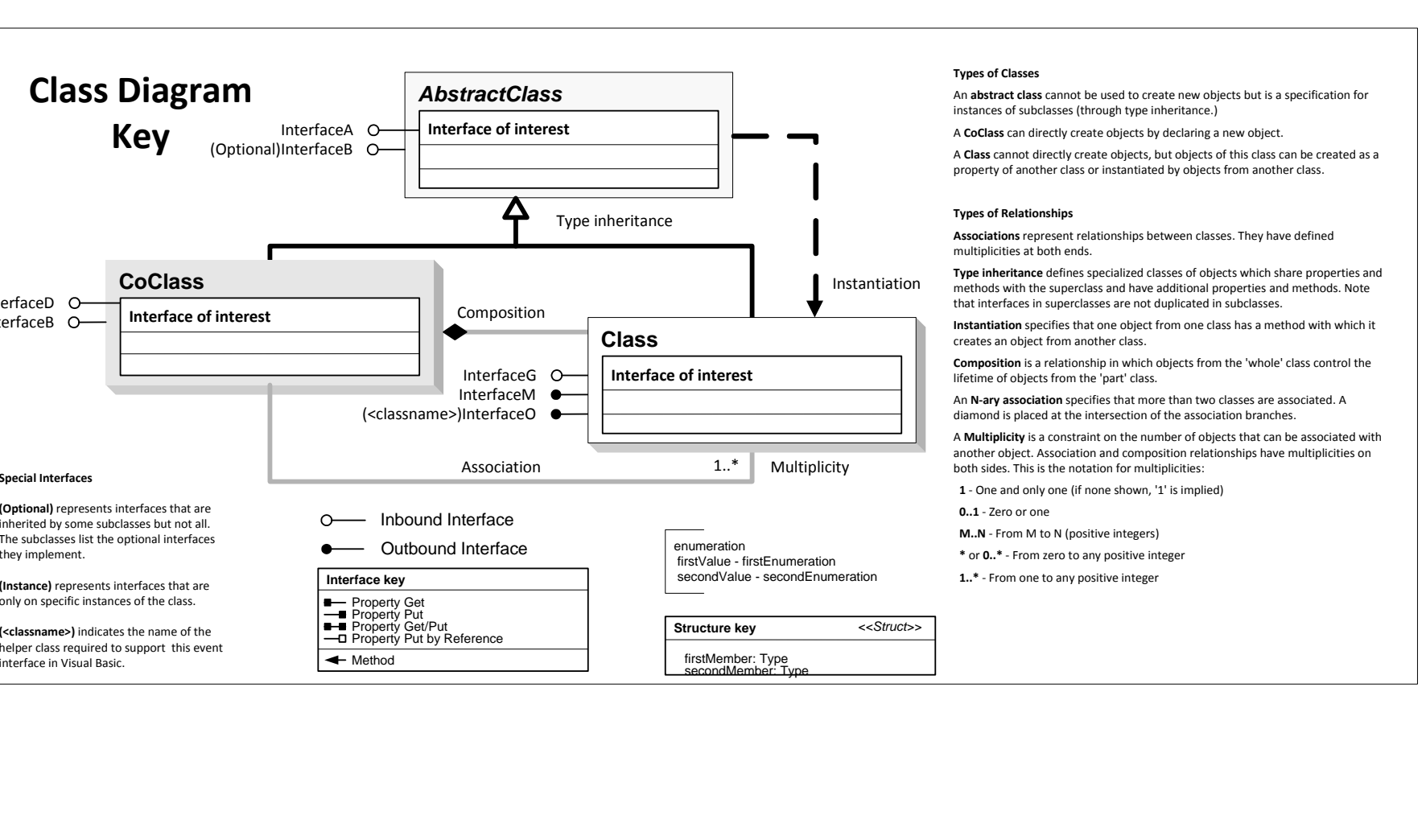
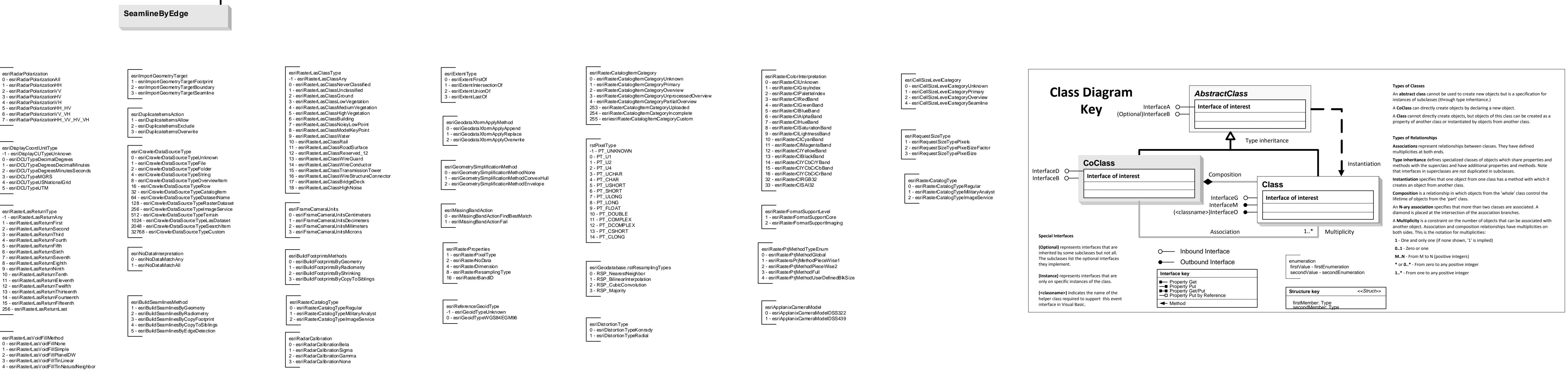


# DataSourcesRaster Object Model (Mosaic Dataset)

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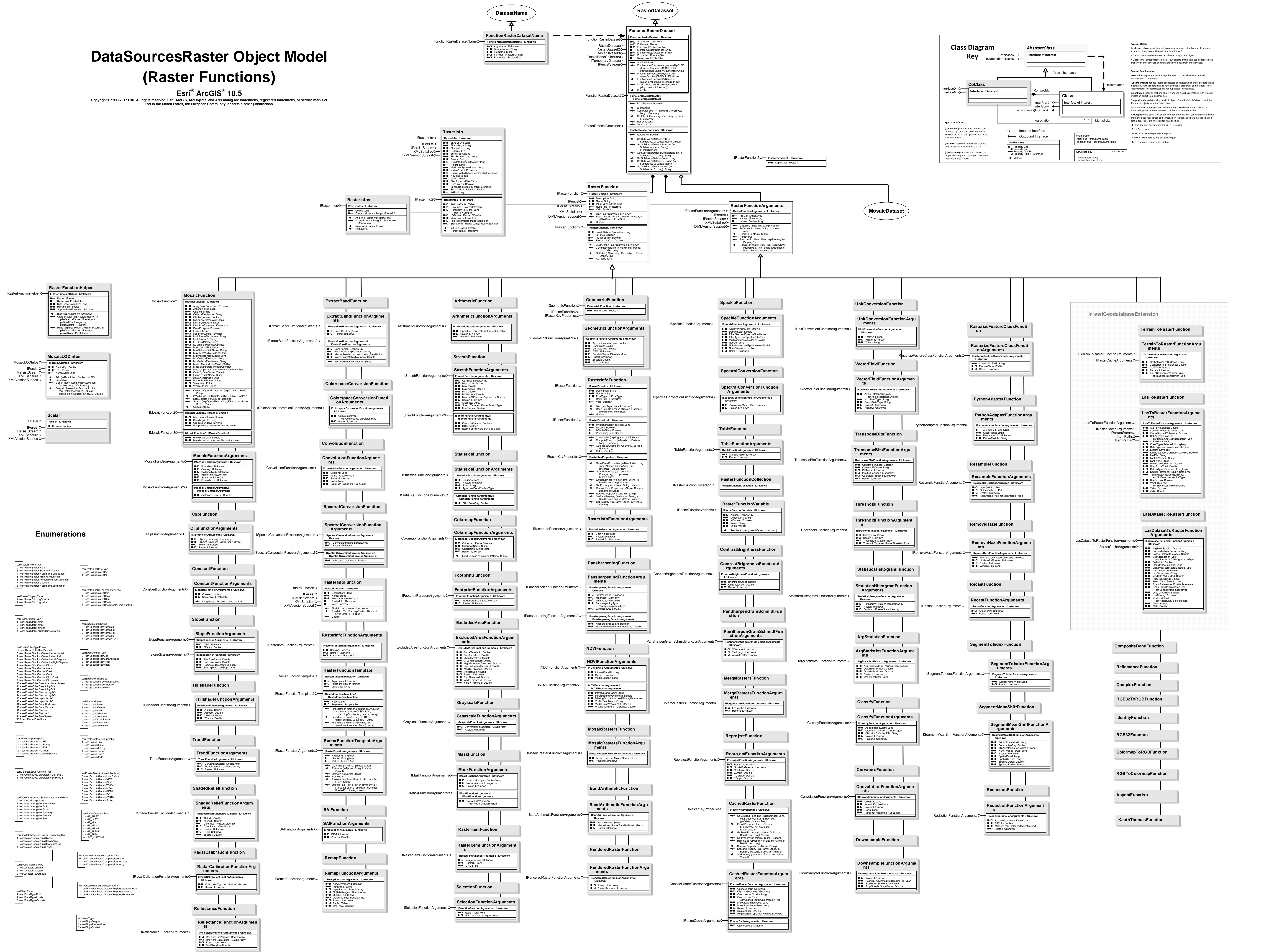


## Enumerations



# DataSourcesRaster Object Model (Raster Functions)

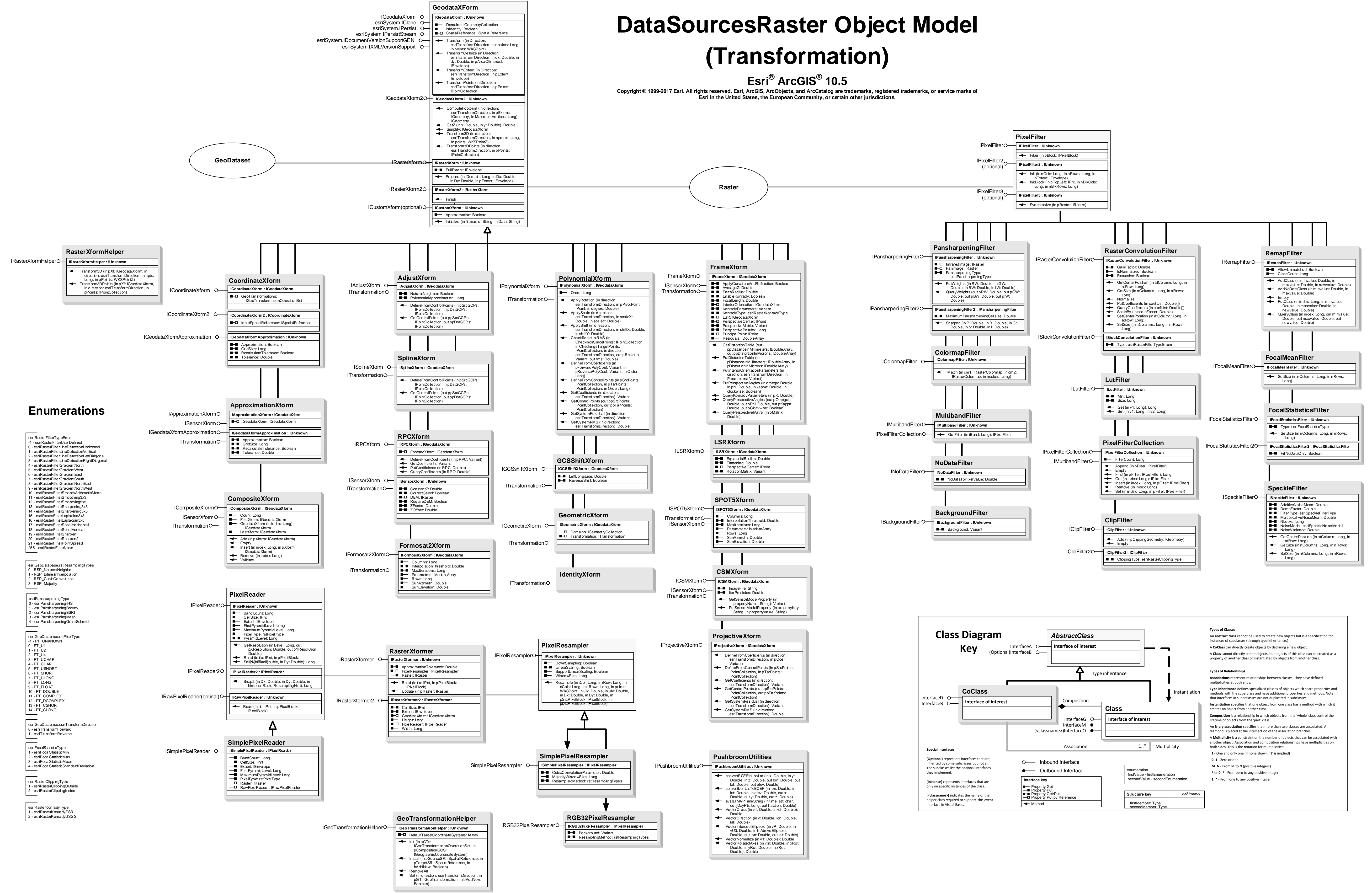
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# DataSourcesRaster Object Model (Transformation)

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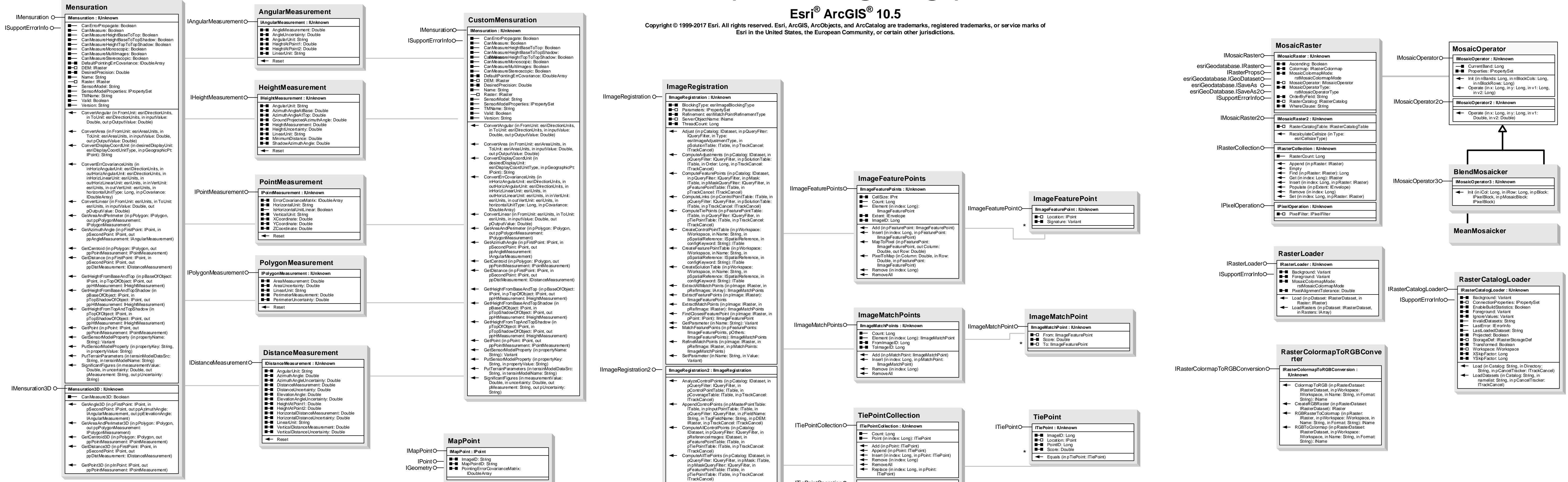
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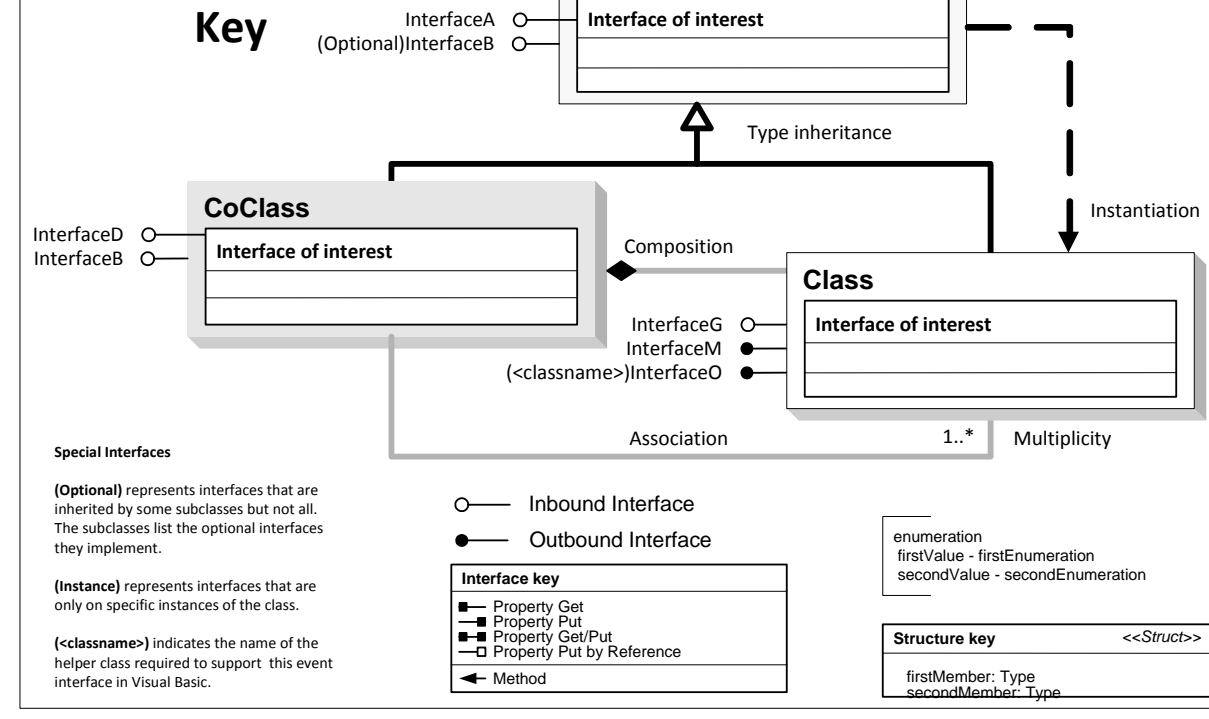
# DataSourcesRaster Object Model (Processing Image)

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## Class Diagram



**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 the 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.  
An Invariant association specifies that more than two classes are associated. A diamond is placed at the intersection of the association branches.  
A Multiplicity is a constant on the number of objects that can be associated with another object. Association or composition relationships have multiplicities on both sides. This is the notation for multiplicities:  
0..1: Zero or one  
M..N: From M to N (positive integers)  
\*: 0..\*: From zero to any positive integer  
1..\*: From one to any positive integer

**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.

**Legend**  
Inbound Interface: solid line with open arrowhead  
Outbound Interface: solid line with filled arrowhead  
Interface key: Property Get, Property Set, Property Put by Reference, Method  
Enumeration: enumeration, firstValue - firstEnumeration, secondValue - secondEnumeration  
Structure key: Structure key, firstMember\_Type, secondMember\_Type

## Enumerations

- `rsResamplingTypes`
  - 0 - RSP\_NearestNeighbor
  - 1 - RSP\_BilinearInterpolation
  - 2 - RSP\_CubicConvolution
  - 3 - RSP\_Magnify
- `esriCellSizeType`
  - 0 - esriCellSizeFixed
  - 1 - esriCellSizeMinOr
  - 2 - esriCellSizeMaxOr
  - 3 - esriCellSizeMaxC
  - 4 - esriCellSizeLastC
- `esriImageAdjustmentType`
  - 1 - esriImageAdjustmentInsert
  - 0 - esriImageAdjustmentAppend
  - 1 - esriImageAdjustmentReplace
  - 2 - esriImageAdjustmentReset
  - 3 - esriImageAdjustmentCopy
- `esriImageBlockingType`
  - 0 - esriImageBlockingNone
  - 1 - esriImageBlockingRegular
  - 2 - esriImageBlockingNone
- `rsMosaicColormapMode`
  - 0 - MM\_FIRST
  - 1 - MM\_REJECT
  - 2 - MM\_LAST
  - 3 - MM\_MATCH
- `esriTieState`
  - 0 - esriTieStateRegular
  - 1 - esriTieStateSampledOnData
  - 2 - esriTieStateSampledOnNoData
- `rsMosaicOperatorType`
  - 1 - MT\_FIRST
  - 2 - MT\_LAST
  - 3 - MT\_MIN
  - 4 - MT\_MAX
  - 5 - MT\_MEAN
  - 6 - MT\_BLEND
  - 7 - MT\_SUM
  - 8 - MT\_CUSTOM
- `esriGeoTransformTypeNum`
  - 3 - esriGeoTransformPejorative
  - 2 - esriGeoTransformPolyOrder0
  - 1 - esriGeoTransformNoSetting
  - 0 - esriGeoTransformNone
  - 1 - esriGeoTransformOrder1
  - 2 - esriGeoTransformPolyOrder2
  - 3 - esriGeoTransformPolyOrder3
  - 4 - esriGeoTransformPolyOrderUndefined

# DataSourcesRaster Object Model (Supplemental)

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