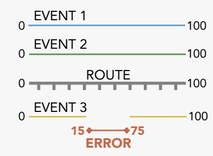
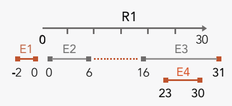
Data Reviewer for ArcGIS® Pro Checks

EVENT CHECKS

Event on Event
Finds linear referenced events that overlay other events based on a user-defined relationship.

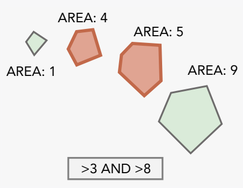


Invalid Events
Finds linear referenced events that do not have an associated route (orphaned events) or contain invalid measure values. The check also identifies gaps or overlaps between events within the same route or across multiple routes.



POLYGON CHECKS

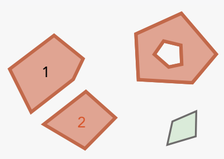
Evaluate Polygon Perimeter and Area
Searches for polygon, part, ring, or segment features whose area or perimeter is within a specified range



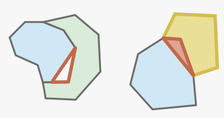
Invalid Hole Feature
Finds features that intersect polygon feature holes

Multipart Polygon
Finds polygon features with more than one part and polygon features with holes

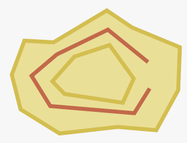
Note: *See* ***Evaluate Part Count*** *check for equivalent capability in ArcGIS Pro and Enterprise workflows*



Polygon Overlap/Gap Is Sliver
Returns overlap/gap geometries between polygon features from two feature classes that have a thinness ratio beneath a user-specified threshold; optionally requires that the overlap/gap polygons be beneath a maximum area threshold

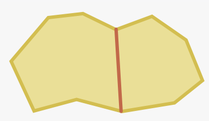


Polygon/Ring Closed
Searches for unclosed rings in polygons based on the x-value, y-value, and z-value



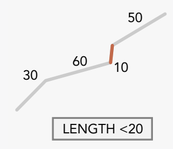
Polygon Sliver
Finds polygons below a specified thinness ratio (T) and optionally whose area is within a specified threshold

Unnecessary Polygon Boundaries
Returns border geometries for polygons that share a common boundary and identical attribution

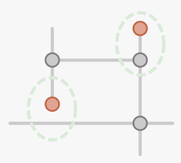


POLYLINE CHECKS

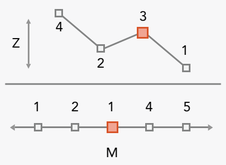
Evaluate Polyline Length
Finds polyline segments, parts, or features that have a line length within a specified tolerance



Find Dangles
Finds polyline features with nodes that are within a user-defined tolerance but not connected to other polyline or polygon features

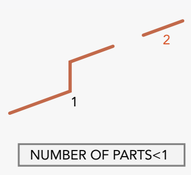


Monotonicity
Searches z-enabled or m-enabled polylines for vertices that are not strictly increasing or decreasing in value or are trending based on specified conditions

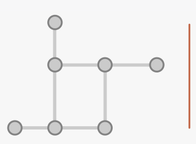


Multipart Line
Searches for polyline features with more than one part

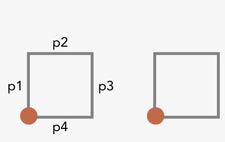
Note: *See* ***Evaluate Part Count*** *check for equivalent capability in ArcGIS Pro and Enterprise workflows*



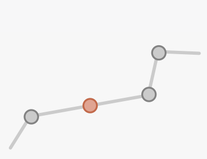
Orphan
Finds single polyline features that are not connected in the database topology



Polyline or Path Closes on Self
Finds paths or lines in polyline features that close themselves

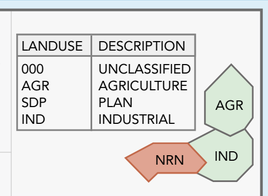


Unnecessary Nodes
Finds features that share a node and have identical attributes in editable fields

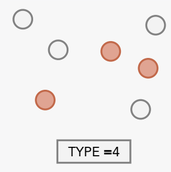


ATTRIBUTE CHECKS

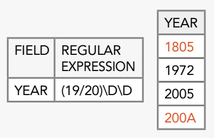
Domain
Finds attribute values that do not comply with coded value or range domains that are associated with an attribute field



Query Attributes *(Execute SQL)*
Finds records based on a WHERE clause run against row attributes



Regular Expression
Finds features with attribute values that violate the regular expression



Subtype
Finds features with improper or null subtype values

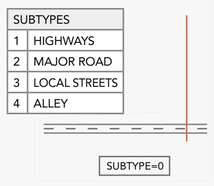
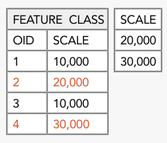
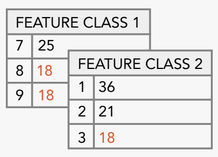


Table to Table Attribute
Returns rows whose attributes match those of a feature class or table and/or comply with a user-defined WHERE clause comparing the attributes between feature classes and/or tables

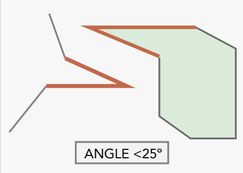


Unique ID
Checks the values of a set of fields across a set of tables and feature classes for uniqueness within a given workspace

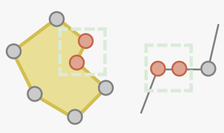


FEATURE INTEGRITY CHECKS

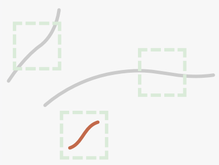
Cutbacks
Finds segments where the angle between segments in a polygon or polyline is below a specified minimum value



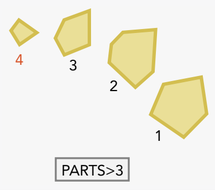
Duplicate Vertex
Finds vertices from the same feature that are collocated or within a specified tolerance of one another



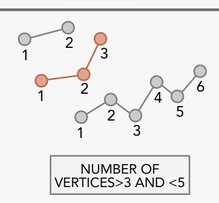
Evaluate Extent
Returns features where the extent properties (x and y) are within specified parameters



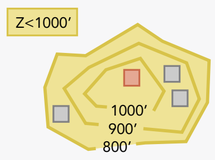
Evaluate Part Count
Finds features with a part count that is within a specified value



Evaluate Vertex Count
Finds polyline or polygon features that have a vertex count within a specified tolerance



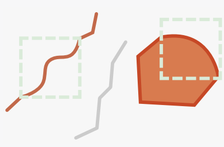
Evaluate Z Values
Searches for features whose z-values are within a specified range



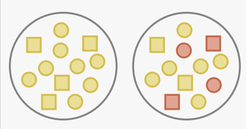
Invalid Geometry
Finds features whose geometry is empty, nothing, or not simple, as well as features with empty envelopes

OBJECTID	SHAPE	FCSUBTYPE
1	POLYLINE	AQ040-BRIDGE LINE
2	POLYLINE	AQ040-BRIDGE LINE
3	NULL	AQ040-BRIDGE LINE

Nonlinear Segment
Finds polyline or polygon features that contain nonlinear segments such as arcs and curves

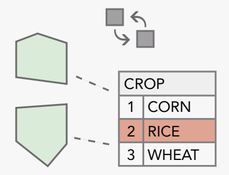


Sampling
Generates a statistical sampling of features or records from one or more layers or tables

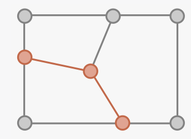


GEODATABASE CHECKS

Relationships
Searches for records that are orphans or have improper cardinality in a relationship class

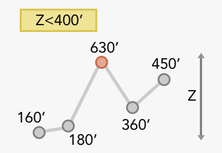


Topology Rules
Returns the geometry of features that violate the topology rules that have been defined for a feature dataset in the geodatabase

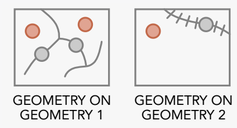


SPATIAL RELATIONSHIP CHECKS

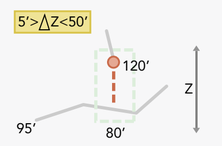
Adjacent Vertex Elevation
Finds vertices for polyline or polygon features with elevation (z-value) changes greater than the specified tolerance



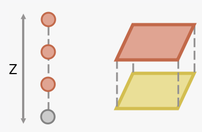
Composite
Searches for features that satisfy combined Geometry on Geometry and/or Table to Table Attribute checks by feeding the results of one check into the next check



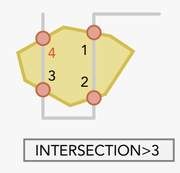
Different Z or Intersection
Finds two intersecting line features whose z-value difference is within the minimum/maximum specified tolerance values at the point where they intersect



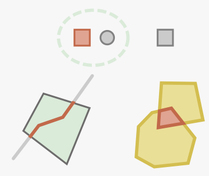
Duplicate Feature
Finds features of the same geometry type that are collocated and optionally share attributes



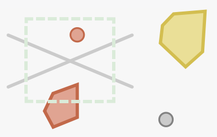
Evaluate Intersection Count
Finds vertices for polyline features in one feature class that intersect polyline or polygon features in a second feature class a specified number of times



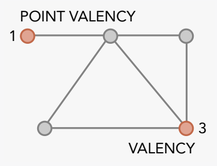
Feature on Feature *(Geometry on Geometry)*
Finds features that have a specific relationship, either from two feature layers or within the same feature layer



Intersection on Geometry
Returns geometries for features in Feature Class 1 that intersect with the intersections from features from Feature Class 2 and 3



Valency
Searches for points or nodes of linear features that intersect with a specified number of linear features



LEGEND

REVIEWER BATCH JOBS
Reviewer batch jobs contain configured Data Reviewer checks that validate features stored in geodatabase feature classes, stand-alone tables, and shapefiles. Batch jobs are created using tools in ArcMap and are persisted as an .rbj file that can be shared using project templates and packages in ArcGIS Pro.

REVIEWER RULES IN A GEODATABASE
Reviewer geodatabase rules are configured Data Reviewer checks that validate geodatabase feature classes and stand-alone tables. Rules are created using tools in ArcGIS Pro and are stored in a geodatabase that can be shared by exporting to comma-separated values files (.csv) or XML workspace document files (.xml).

REVIEWER RULES IN A MAP
Reviewer map rules are configured Data Reviewer checks that validate feature layers referenced in a map. Rules are created using tools in ArcGIS Pro and are stored in a map that can be shared using project templates and packages, map files and packages, and layer files and packages in ArcGIS Pro.

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