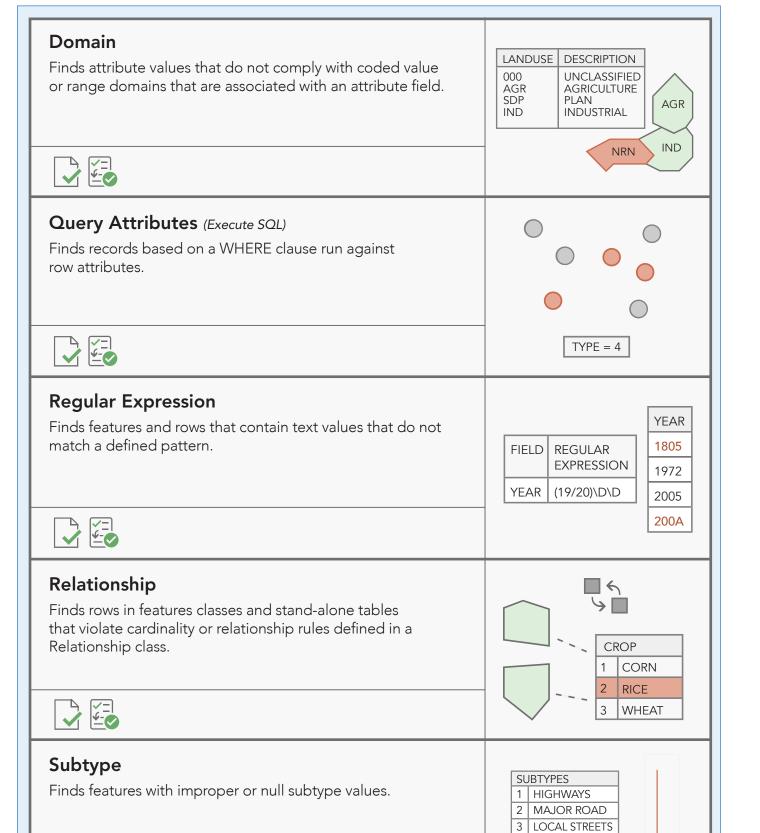
Data Reviewer for ArcGIS[®] Pro Checks

FEATURE INTEGRITY CHECKS

ATTRIBUTE CHECKS



Check Geometry (Invalid Geometry) OBJECTID SHAPE Finds features whose geometry is empty, nothing, or not 1 POLYLINE simple, as well as features with empty envelopes. 2 POLYLINE NULL 3 Cutbacks Finds segments where the angle between segments in a polygon or polyline is below a specified minimum value. ANGLE <25° Duplicate Vertex Finds vertices from the same feature that are collocated or within a specified tolerance of one another. \mathbf{O} **Evaluate Extent** Finds 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.

POLYLINE CHECKS

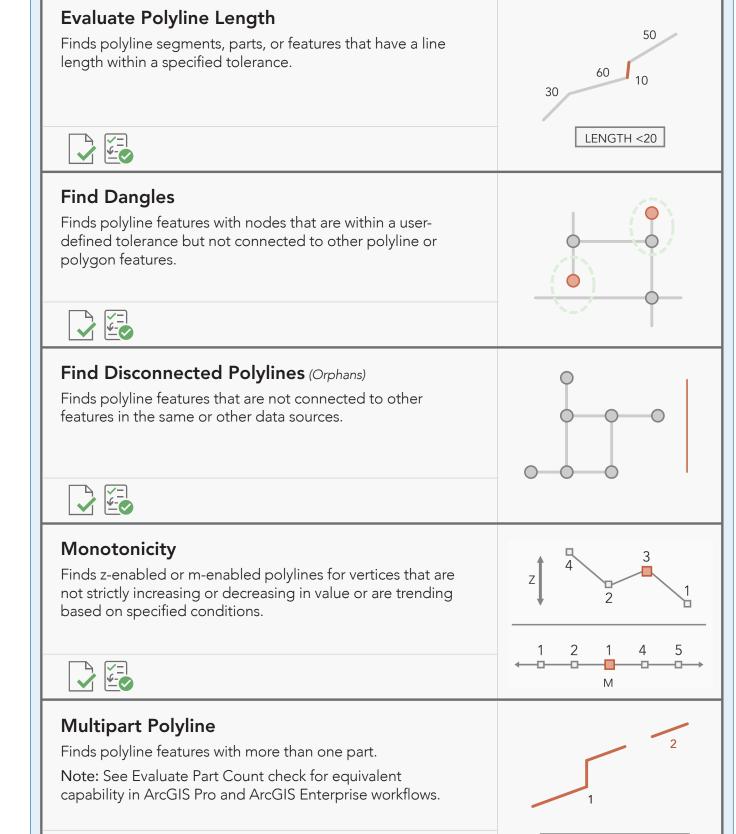
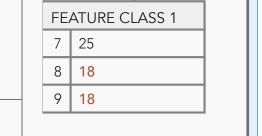


Table to Table Attribute

Finds features or rows that contain attribute values that meet a relationship you define and compares them to values in another feature class or stand-alone table.

Unique Field Value (Unique ID)

Finds rows in feature classes and stand-alone tables that contain nonunique values in a field or a list of fields that are editable.



4 ALLEY

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FEATURE CLASS

OID SCALE

1 10,000

2 20,000 3 10,000

4 30,000

SUBTYPE=0

SCALE

20,000

30,000

EVENTS CHECKS

Event on Event Finds linear referenced events that overlay other e on a user-defined relationship.	events based	$\begin{array}{c} 0 & \begin{array}{c} E1 \\ 0 & \begin{array}{c} 0 \\ \end{array} \end{array} \end{array} \begin{array}{c} 0 & \begin{array}{c} 100 \\ 0 \\ \end{array} \end{array} \begin{array}{c} 0 \\ \end{array} \end{array} \begin{array}{c} 0 \\ \end{array} \begin{array}{c} 0 \\ \end{array} \end{array} \begin{array}{c} R \\ 100 \\ 0 \\ \end{array} \begin{array}{c} 0 \\ \end{array} \begin{array}{c} 0 \\ \end{array} \begin{array}{c} 0 \\ \end{array} \end{array} \begin{array}{c} 0 \\ \end{array} \begin{array}{c} 0 \\ \end{array} \begin{array}{c} 0 \\ \end{array} \begin{array}{c} 0 \\ \end{array} \end{array} \begin{array}{c} 0 \\ \end{array} \end{array} \begin{array}{c} 0 \\ \end{array} \begin{array}{c} 0 \end{array} \begin{array}{c} 0 \\ \end{array} \end{array} \begin{array}{c} 0 \\ \end{array} \begin{array}{c} 0 \\ \end{array} \end{array} \begin{array}{c} 0 \end{array} \begin{array}{c} 0 \\ \end{array} \end{array} $ \end{array}
	R=Route E=Event	E3 is null and E1 is not null and E2 is not null
Find Orphan Events (Invalid Events) Finds linear referenced events that have no associ a route feature.	ation to	R1 R3 E1-R1 E2-R2 E3-R3 E4-R1 E5-R2 E6-R3
	R=Route E=Event	
Find Event Gaps (Invalid Events) Finds linear referenced events with gaps between the same category, in the same route or across mu		R1 0 $E1$ 0 $E2$ 0 16 30 $R1$ $R2$ $R3$ 0 20 20 40 40 60
	R=Route E=Event	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
Find Event Overlaps (Invalid Events) Finds linear referenced events that have overlaps events of the same category, in the same route, or multiple routes.		$\begin{array}{c} R1 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 19 \\ 23 \\ 30 \\ \hline \\ 19 \\ 23 \\ 30 \\ \hline \\ R1 \\ 0 \\ E1 \\ \hline \\ 20 \\ 20 \\ 20 \\ 40 \\ 40 \\ 60 \\ \hline \\ E3 \\ \hline \end{array}$
	R-Routo E-Event	E2 25 26 60 E4 60 E4 65

	PARTS>3
Evaluate Vertex Count Finds polyline or polygon features that have a vertex count within a specified tolerance.	$\begin{array}{c} 1 \\ 1 \\ 2 \\ 1 \\ 2 \\ 4 \\ 5 \\ 1 \\ 3 \end{array}$
	NUMBER OF VERTICES>2 AND<5

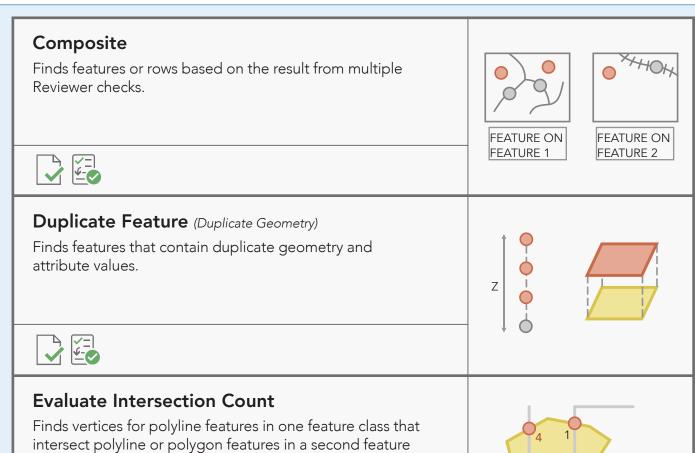
Nonlinear Segment

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.

SPATIAL RELATIONSHIP CHECKS



class a specified number of times.

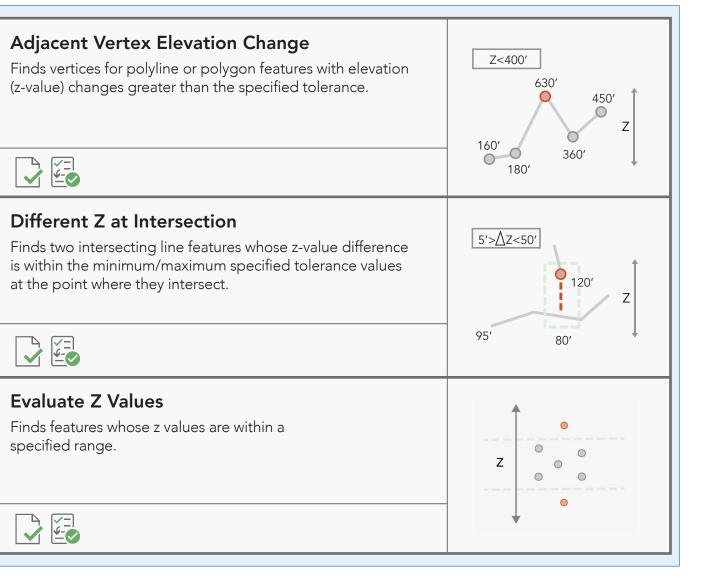
	PARTS>1
Polyline or Path Closes on Self Finds paths or lines in polyline features that close themselves.	p2 p1 p4 p3
Unnecessary Nodes Finds features that share a node and have identical attributes in editable fields.	P
	_

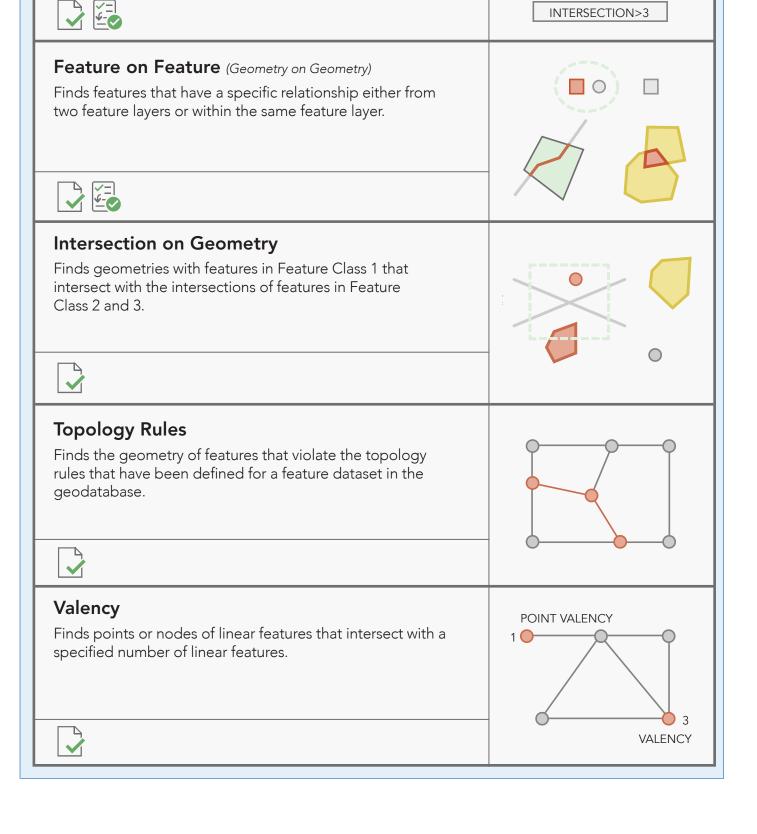
POLYGON CHECKS

Evaluate Polygon Perimeter and Area Finds polygon, part, ring, or segment features whose area or perimeter is within a specified range.	AREA: 4 AREA: 5 AREA: 7 AREA: 9 >3 AND >8
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 ArcGIS Enterprise workflows. Image: Description of the set of t	
Polygon Overlap/Gap is Sliver Find overlaps or gaps between polygons features that are below a specified thinness ratio. Note: See Polygon Overlap is Sliver and Polygon Gap is Sliver checks for equivalent capability in ArcGIS Pro and ArcGIS Enterprise workflows.	

R=Route E=Event	E2 ²⁵ 26 0 35 44 65
Invalid Event Measures (Invalid Events)	R1 R1
Finds linear referenced events that contain invalid measure values in the same route or across multiple routes.	E1 E2 E3 E4 E5 E1 E2 E3 E4 E5
	R1 R2 R2
R=Route E=Event	E1 E2 E3 E4 E5 E1 E2 E3 E4 E5

Z VALUE CHECKS







Unclosed Polygon (Polygon Ring Closed) Finds unclosed rings in polygon features.

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

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

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 evaluate the quality of features and rows stored in a geodatabase. Rules are created using tools in ArcGIS Pro and support both constraint attribute rule and validation attribute rule workflows. Rules are stored in a geodatabase that can be shared by exporting as a CSV or XML workspace document file.

esri.com/datareviewer

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