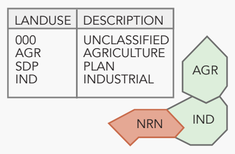
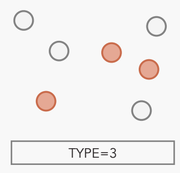
ArcGIS® Data Reviewer Checks

ATTRIBUTE CHECKS

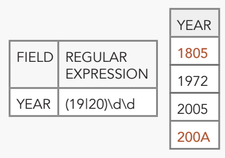
Domain
Finds attribute values that do not comply with coded value or range domains that are associated with an attribute field.



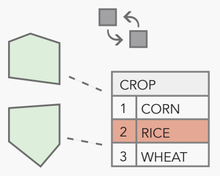
Query Attributes
Finds records based on a SQL expression run against row attributes.



Regular Expression
Finds features and rows that contain text values that do not match a defined pattern.

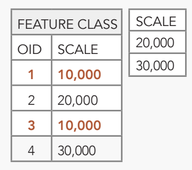


Relationship
Finds rows in feature classes and stand-alone tables that violate cardinality or relationship rules defined in a Relationship class.

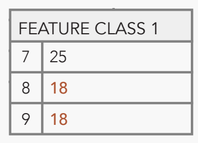


Subtype
Finds features with improper or null subtype values.

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.



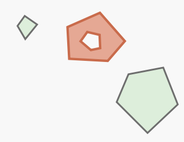
Unique Field Value
Finds rows in feature classes and stand-alone tables that contain nonunique values in a field or a list of fields that are editable.



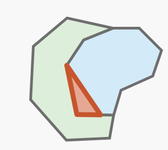
POLYGON CHECKS

Evaluate Polygon Perimeter and Area
Finds polygon features based on the area or perimeter of the entire polygon or its individual parts or segments.

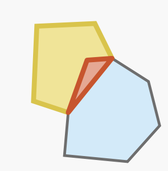
Find Polygons with Holes
Finds polygon features that have holes.



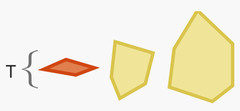
Polygon Gap is Sliver
Finds gaps between polygon features that are below a specified thinness ratio.



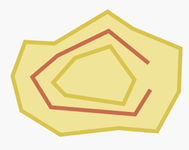
Polygon Overlap is Sliver
Find overlaps between polygon features that are below a specified thinness ratio.



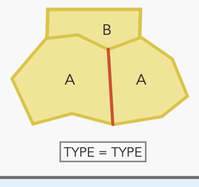
Polygon Sliver
Finds polygons below a specified thinness ratio (T) and optionally whose area is within a specified threshold.



Unclosed Polygon
Finds unclosed rings in polygon features.



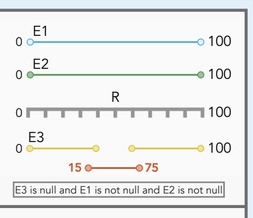
Unnecessary Polygon Boundaries
Finds border geometries for polygons that share a common boundary and identical attribution.



EVENT CHECKS

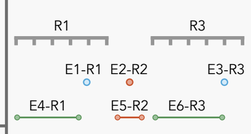
Event on Event
Finds linear referenced events that overlay other events based on a user-defined relationship.

R=Route E=Event



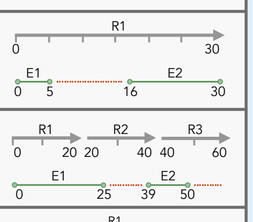
Find Orphan Events
Finds linear referenced events that have no association to a route feature.

R=Route E=Event



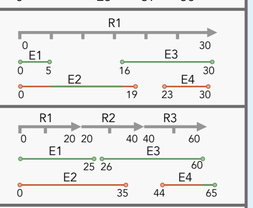
Find Event Gaps
Finds linear referenced events with gaps between events of the same category, in the same route, or across multiple routes.

R=Route E=Event



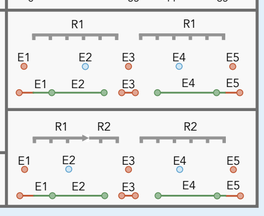
Find Event Overlaps
Finds linear referenced events that have overlaps with events of the same category, in the same route, or across multiple routes.

R=Route E=Event



Invalid Event Measures
Finds linear referenced events that contain invalid measure values in the same route or across multiple routes.

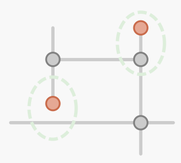
R=Route E=Event



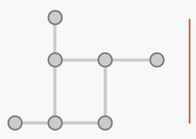
POLYLINE CHECKS

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

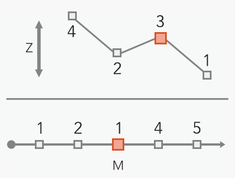
Find Dangles
Finds polyline features with nodes that are within a user-defined tolerance but not connected to other polyline or polygon features.



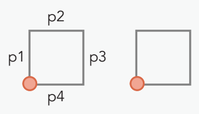
Find Disconnected Polylines
Finds polyline features that are not connected to other features in the same or other data sources.



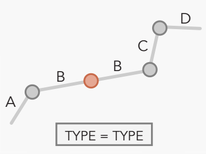
Monotonicity
Finds vertices in z-enabled or m-enabled polylines that are not strictly increasing or decreasing in value or are trending based on specified conditions.



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.



LEGEND

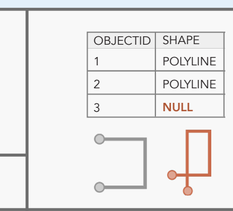
VALIDATION ATTRIBUTE RULES
Data Reviewer based validation attribute rules assess the quality of features and rows maintained within a geodatabase. Rules are created using ArcGIS Pro and stored in the same geodatabase as the features they validate. When a feature or row is validated and an error is found, the system generates an error record within the geodatabase.

CONSTRAINT ATTRIBUTE RULES
Data Reviewer based constraint attribute rules help maintain feature and row quality during editing by rejecting edits that violate established rules. These rules are created using ArcGIS Pro and stored in the same geodatabase as the features they validate. If a rule is broken, the edit is blocked and an error message is returned.

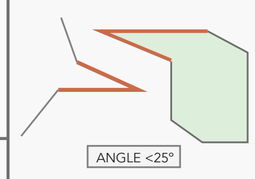
RUN DATA CHECKS
This workflow enables the assessment of feature quality through Data Reviewer checks. Rules are created interactively in ArcGIS Pro to evaluate features in a map. If a feature or row violates a rule, a layer is added to the map to show the features that do not comply.

FEATURE INTEGRITY CHECKS

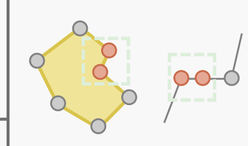
Check Geometry
Finds features whose geometry is empty, nothing, or not simple, as well as features with empty envelopes.



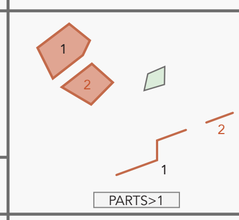
Cutbacks
Finds segments where the angle between segments in a polygon or polyline is below a specified minimum value.



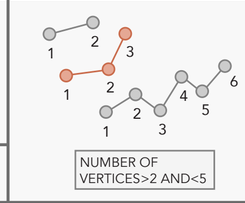
Duplicate Vertex
Finds vertices from the same feature that are collocated or within a specified tolerance of one another.



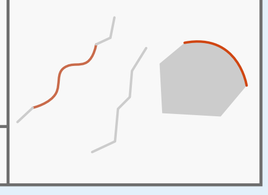
Evaluate Part Count
Finds features with a part count that is within a specified value.



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

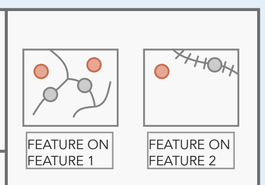


Nonlinear Segment
Finds polyline or polygon features that contain nonlinear segments such as arcs and curves.

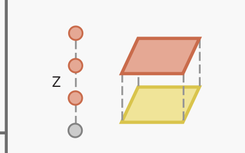


SPATIAL RELATIONSHIP CHECKS

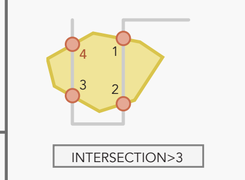
Composite
Finds features or rows based on the result from multiple Data Reviewer checks.



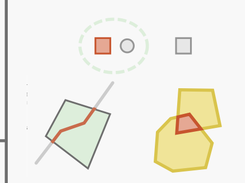
Duplicate Feature
Finds features that contain duplicate geometry and attribute values.



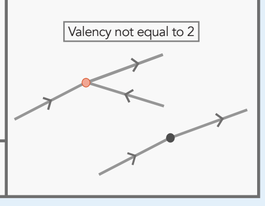
Evaluate Intersection Count
Finds vertices for polyline features in one feature class that intersect polyline or polygon features in a second feature class a specified number of times.



Feature on Feature
Finds features that have a specific relationship either from two feature layers or within the same feature layer.

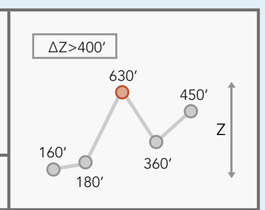


Valency
Finds points or nodes of linear features that intersect with a specified number of linear features.

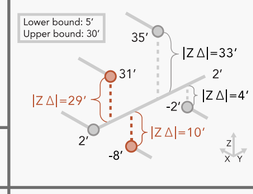


Z-VALUE CHECKS

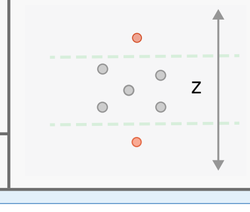
Adjacent Vertex Elevation Change
Finds vertices for polyline or polygon features with elevation (z-value) changes greater than the specified tolerance.



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



Evaluate Z Values
Finds features whose z values are within a specified range.



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