n o	query	Postgis	Turf js	Qgis
1.	Intersection	Returns a geometry representing the point-set intersection of two geometries. Ex: ST_Intersection('POINT(0 0)'::geometry, 'LINESTRING (2 0, 0 2)'::geometry) output: POINT(0 0)	Takes two polygon or multi- polygon geometries and finds their polygonal intersection. Ex: turf.intersect(poly1, poly2);	Extracts the portions of features from the input layer that overlap features in the overlay layer. 1.Using algorithm: processing.run("qgis:int ersection", {parameter_dictionary }) 2.expression: intersection(geom1,ge om)
2.	Line intersection	Returns a point geometry representing the line-set intersection geometries. Ex: ST_Intersection('LINESTRING (0 2 ,0 3)', 'LINESTRING (0 0, 0 2)') output: POINT(0 2)	<pre>var line1 = turf.lineString([[126, -11], [129, -21]]); turf.lineIntersect(line1, line2);</pre>	Creates point features where the lines from the two layers intersect. Example:processing.ru n("qgis:lineintersection s", {parameter_dictionary })
3.	Area of Polygon	Returns the area of the surface if it is a polygon or multipolygon. Ex :ST_Area(geom) For "geometry" type area is in SRID units. For "geography" area is in square meters.	Takes one or more features and returns their area in square meters. Ex:turf.area(polygon);	You can calculate the area directly from the attribute table. Create a new decimal/real field, and 1.use the \$area expression.(area will be ellipsoidal)and use 2. area(\$geometry):(area will be planimetric)
4.	Azimuth	float ST_Azimuth(geometry origin, geometry target); SELECT degrees(ST_Azimuth(ST_Point(25, 45), ST_Point(75, 100))) AS degA_B. Returns the azimuth in radians of the target point from the origin point.	Takes two points and finds the geographic bearing between them, i.e. the angle measured in degrees from the north line (0 degrees). Ex: point1 = turf.point([-75.343, 39.984]); turf.bearing(point1, point2);	Returns the north- based azimuth as the angle in radians measured clockwise from the vertical on point_a to point_b. Ex:using Expression: degrees(azimuth(mak e_point(25, 45), make_point(75, 100)))
5.	Bounding box	An aggregate function that	Takes a set of features,	Layer can be vector either points,line or

n o	query	Postgis	Turf js	Qgis
		returns a box2d bounding box that bounds a set of geometries. Ex: SELECT ST_Extent(geom) as bbox	calculates the bbox of all input features, and returns a bounding box. Ex: line = turf.lineString([[-74, 40], [-78, 42], [-82, 35]]); turf.bbox(line);	polygon. Ex: 1. layer.extent() 2.using Expression: bounds(\$geometry)
6.	Length	Returns the 2D length of the geometry if it is a LineString or MultiLineString.geometry are in units of spatial reference and geography are in meters (default spheroid) Ex: float ST_Length(geometry a_2dl inestring);	Takes a GeoJSON and measures its length in the specified units(default is kilometers)can be degrees, radians, miles, or kilometers. Ex: turf.length(line, {units: 'miles'});	Open Field Calculator from the attribute toolbar. Use Expression: \$length
7.	bboxPolygon	Creates a rectangular Polygon from the minimum and maximum values for X and Y geometry ST_MakeEnvelope(flo at xmin, float ymin, float xmax, float ymax, integer srid=unknown); Ex:ST_MakeEnvelope(10, 10, 11, 11, 4326); output: POLYGON((10 10, 10 11, 11 11, 11 10, 10 10))	Takes a bbox and returns an equivalent polygon. extent in minX, minY, maxX, maxY order. Ex: bbox = [0, 0, 10, 10]; poly= turf.bboxPolygon(bbox);	Using QuickWKT plugin . The bounding box would be treated as a polygon, and WKT would look like 'POLYGON(xmin ymin,xmax ymax)' return bounding box polygon
8.	Centroid	Computes a point which is the geometric center of mass of a geometry. Ex: ST_Centroid('MULTIPOINT (1 0, -1 2, 1 1')); output: POINT(0.333333333333333333333333333333333333	Takes one or more features and calculates the centroid using the mean of all vertices. Ex: turf.Polygon([[[-81, 41], [-88, 36], [-84, 31]]); turf.centroid(features);	1.Using expression: EX:centroid(\$geometry) 2.using algorithm

n o	query	Postgis	Turf js	Qgis
				Ex:processing.run("native:centroids", {params})
9.	Distance	For geom types returns the minimum 2D Cartesian distance between two geometries, in projected units. For geography types defaults to return the minimum geodesic distance between two geographies in meters. Ex: 1.float ST_Distance(geometry g 1, geometry g2); 2.float ST_Distance(geography geog1, geography geog2, boolean use_spheroid=true);	Calculates the distance between two point in degrees, radians, miles, or kilometers. from = turf.point([-75.343, 39.984]); to = turf.point([-75.534, 39.123]); options = {units: 'miles'}; turf.distance(from, to, options);	1.Use expression: Returns min distance (based on spatial ref) between two geometries in projected units. Distance(geom_from_wkt('POIN T(4 4)'), geom_from_wkt('POIN T(4 8)'))
10	Buffer	Computes a POLYGON or MULTIPOLYGON that represents all points whose distance from a geometry/geography is less than or equal to a given distance. geometry ST_Buffer(geometry g1, float radius_of_buffer, text buffer_style_parameters = "'); Ex: ST_Buffer(ST_GeomFromText('POINT(100 90)'), 50, 'quad_segs=8');	Calculates a buffer for input features for a given radius. Units supported are miles, kilometers, and degrees. Ex: turf.buffer(point, 500, {units: 'miles'});	1.Use Expression: buffer(\$geometry, radius) 2.use algorithm: 'native:buffer'
11	Difference	Returns a geometry representing the part of geometry A that does not intersect geometry B. This is equivalent to A – ST_Intersection(A,B). If A is completely contained in B then an empty atomic geometry of appropriate type is	Finds the difference between two polygons by clipping the second polygon from the first. Ex: turf.difference(polygon1, polygon2);	Returns a geometry that represents that part of geometry_a that does not intersect with geometry_b. 1.Use expression: difference(geometry_a, geometry_b).

n o	query	Postgis	Turf js	Qgis
		returned. ST_Difference(2.use algorithm: 'native:diffrence'
12	Dissolve	To condense all the geometries in a table to one single geometry, you can pass an array to ST_Union: Ex: SELECT ST_Union(ARRAY(SELECT geom FROM tbl))	Dissolves a FeatureCollection of polygon features, filtered by an optional property name:value. Note that mulitpolygon features within the collection are not supported. turf.featureCollection([turf.po lygon([[[0, 0], [0, 1], [1, 1], [1, 0], [0, 0]]], {combine: 'yes'}),turf.polygon([[[0, -1], [0, 0], [1, 0], [1, -1], [0,-1]]], {combine: 'yes'}]) Ex: turf.dissolve(features, {propertyName: 'combine'});	This algorithm takes a vector layer and combines their features into new features. All output geometries will be converted to multi geometries. Ex: Use algorithm: 'native:dissolve'
		Unions the input geometries, merging geometry to produce a result geometry with no overlaps. Ex: ST_Union('POINT(1 2), 'POINT(2 3)') output: MULTIPOINT(1 2 ,2 3)	Takes two multipolygon and returns a combined polygon. If the input polygons are not contiguous, this function returns a multipolygon feature. Ex: var union = turf.union(poly1, poly2);	Returns a geometry that represents the point set union of the geometries. 1.Using expression: geom_to_wkt(union(g eom_from_wkt('POINT(4 4)'), geom_from_wkt('POIN T(5 5)'))) 2.using algorithm: 'native:union'
14	Combine	Collects geometries into a geometry collection. The result is either a Multi* or a GeometryCollection. Ex: ST_Collect(ST_GeomFromText('	Combines a FeatureCollection of Point , LineString , or Polygon features into MultiPoint , MultiLineString , or MultiPolygon features.	Returns the combination of two geometries. 1.using Expression: geom_to_wkt(combine

n o	query	Postgis	Turf js	Qgis
		POINT(1 2)'), ST_GeomFromText('POINT(-2 3)')) output: MULTIPOINT((1 2),(-2 3))	turf.featureCollection([turf.po int([19.026432,47.49134]),tur f.point([19.074497, 47.509548])]); Ex: turf.combine(fc);	(geom_from_wkt('LINE STRING(3 3, 4 4, 5 5)'), geom_from_wkt('LINES TRING(3 3, 4 4, 2 1)'))) . output: MULTILINESTRING() 2. using algorithm: 'native:collect'
15	Point Along Line	Returns a point interpolated along a line. Second argument is a float8 between 0 and 1 representing fraction of total length of linestring the point has to be located. select ST_LineInterpolatePoint('LINEST RING(25 50, 100 125, 150 190)', 0.20) output: POINT(51.5974135047432 76.5974135047432)	Takes a Linestring and returns a point at a specified distance along the line. turf.lineString([[-83, 30], [-84, 36], [-78, 41]]); turf.along(line, 200, {units: 'meters'});	Returns the point interpolated by a specified distance along a linestring geometry. 1.using Expression line_interpolate_point(g eometry, distance) 2.using algorithm: "native:interpolatepoint"
16	Nearest Point	Returns the 2-dimensional point on geom1 that is closest to geom2. This is the first point of the shortest line between the geometries . Geometry ST_ClosestPoint(geometry geo m1, geometry geom2); Ex: ST_ClosestPoint('POINT (160 40)','LINESTRING (10 30, 50 50, 30 110, 70 90, 180 140, 130 190)')) output: POINT(160 40)	a FeatureCollection of Features with Point	Returns the point on geometry1 that is closest to geometry2. 1.using expression: closest_point(geometry 1,geometry2)
17	Convex hull	Computes the convex hull of a	Takes a feature or	Returns the convex hull

n o	query	Postgis	Turf js	Qgis
		geometry. The convex hull is the smallest convex geometry that encloses all geometries in the input. Ex: ST_ConvexHull(ST_Collect(geo m))	a featurecollection and returns a convex hull polygon. Ex: turf.featureCollection([turf.po int([10.195312, 43.755225]) var hull = turf.convex(points);	of a geometry. It represents the minimum convex geometry that encloses all geometries within the set. 1.using expression: convex_hull(geom) 2.using algorithm; "native:convexhull"
18	Concave hull	A concave hull of a geometry is a possibly concave geometry that encloses the vertices of the input geometry. The polygon will not contain holes unless the optional param_allow_holes arg ument is specified as true. geometry ST_ConcaveHull(geometry param_geom, float param_pctconvex, boolean param_allow_holes = false); Ex: ST_ConcaveHull(ST_Collect(geom), 0.80)	Takes a set of points and returns a concave hull Polygon or MultiPolygon. Internally, this uses turf-tin to generate geometries. turf.featureCollection([turf.po int([-63.601226, 44.642643]), turf.point([-63.591442, 44.651436]); turf.concave(points, {units: 'miles', maxEdge: 1});	Computes the concave hull of the features in an input point layer. Ex: 1.using algorithm: Computes the concave hull of the features in an input point layer.
19	Simplify	Returns a "simplified" version of the given geometry using the Douglas-Peucker algorithm. Will actually do something only with (multi)lines and (multi)polygons but you can safely call it with any kind of geometry. geometry ST_Simplify(geometry geomA, float tolerance); Ex: ST_Simplify(geom,0.1)	Takes a geojson object and returns a simplified version. Internally uses simplify-js to perform simplification using the Ramer-Douglas-Peucker algorithm. Ex: turf.polygon([[[-70.603637, -33.399918], [-70.614624, -33.395332], [-70.639343, -33.392466], [-70.659942, -33.394759]]); turf.simplify(geojson, {tolerance: 0.01, highQuality: false});	Simplifies a geometry by removing nodes using a distance based threshold. The algorithm preserves large deviations in geometries and reduces the number of vertices in nearly straight segments. 1.using Expression: simplify(geometry,toler

n o	query	Postgis	Turf js	Qgis
20	Offset line	Return an offset line at a given	Takes a line and returns a line	ance) 2.using Algorithm: "native:simplifygeomet ries Returns a geometry
		distance and side from an input line. Useful for computing parallel lines about a center line. For positive distance the offset is on the left side of the input line and retains the same direction.	at offset by the specified distance. Ex: turf.lineString([[-83, 30], [-84, 36], [-78, 41]])	formed by offsetting a linestring geometry to the side. Distances are in the Spatial Reference System of this geometry.
		For a negative distance it is on the right side and in the opposite direction. Units of distance are measured in units of the spatial reference system. geometry ST_OffsetCurve(geometry line, float signed_distance, text style_parameters=""); Ex: ST_OffsetCurve(ST_GeomFromText('LINESTRING(164 16,144 16,124 16,104 16,84 16,64 16, 44 16,24 16,20 16,18 16,17 17)'), -15, 'quad_segs=4 join=round');	turf.lineOffset(line, 2, {units: 'miles'}); where, input can be GeoJSON. units can be can be degrees, radians, miles, kilometers, inches, yards, meters. distance to offset the line (can be of negative value)	1.Using expression: offset_curve(geometry, distance[,segments=8] [,join=1] [,miter_limit=2.0]) [] marks optional components. Ex: offset_curve(\$geometr y, 10.5) l.e. line offset to the left by 10.5 units 2.using algorithm: native:offsetline
21	smooth	Returns a "smoothed" version of the given geometry using the Chaikin algorithm. For each iteration the number of vertex points will double. The function puts new vertex points at 1/4 of the line before and after each point and removes the original point.	Smooths a polygon or multipolygon. Based on Chaikin's algorithm. Warning: may create degenerate polygons. EX: turf.polygon([[[11, 0], [22, 4],	Smooths a geometry by adding extra nodes which round off corners in the geometry. 1.using expression: smooth(geometry[,iter ations=1][,offset=0.25] [,min_length=-1]

n o	query	Postgis	Turf js	Qgis
		geometry ST_ChaikinSmoothing (geometry geom, integer nIterations = 1, boolean preserveEndPoints = false); Ex: ST_ChaikinSmoothing(geom)	[31, 0], [31, 11], [21, 15], [11, 11], [11, 0]]]) turf.polygonSmooth(polygon, {iterations: 3})	[,max_angle=180]) Ex: geom_to_wkt(smooth(g eometry:=geom_from_ wkt('LineString(0 0, 5 0, 5 5)'),iterations:=1,offset :=0.2,min_length:=- 1,max_angle:=180)) output:LineString (0 0, 4 0, 5 1, 5 5) 2.using algorithm: native:smoothgeometr y
22	Polygonize	Creates a GeometryCollection containing the polygons formed by the constituent linework of a set of geometries. Input linework must be correctly noded for this function to work properly. Ex: geometry ST_Polygonize(geometry set geomfield); geometry ST_Polygonize(geometry[] geom_array);	Polygonizes ((multi)linestring) into polygons Lines in order to polygonize.	Creates a polygon layer whose features boundaries are generated from a line layer of closed features. The line layer must have closed shapes in order to be transformed into a polygon. Input layer: line 1.using algorithm: native:polygonize
23	Polygon to line	Returns a LINESTRING representing the exterior ring (shell) of a POLYGON. Returns NULL if the geometry is not a polygon. geometry ST_ExteriorRing(geo metry a_polygon); Ex: ST_ExteriorRing(Converts a Polygon to (Multi)LineString or MultiPolygon to a FeatureCollection of (Multi)LineString. Ex: turf.polygon([[[125, -30], [145, -30], [125, -20], [125, -30]]]);	Converts polygons to lines. 1.using algorithm: native:polygonstolines where layer:polygon vector

n	query	Postgis	Turf js	Qgis
0		-	•	.5 -
		ST_GeomFromEWKT('POLYGON((0 0 , 1 1 , 1 2 , 1 1 , 0 0))')	turf.polygonToLine(poly);	
24	Clean Coordinates	Returns a version of the given geometry with duplicate consecutive points removed. The function processes only (Multi)LineStrings, (Multi)Polygons and MultiPoints but it can be called with any kind of geometry. If the tolerance parameter is provided, vertices within the tolerance distance of one another are considered to be duplicates. geometry ST_RemoveRepeated Points(geometry geom, float8 tolerance); Ex: ST_RemoveRepeatedPoints('M ULTIPOINT ((1 1), (2 2), (3 3), (2 2))') output: MULTIPOINT(1 1,2 2,3 3)	Removes redundant coordinates from any GeoJSON Geometry. Ex: var multiPoint = turf.multiPoint([[0, 0], [0, 0], [2, 2]]); turf.cleanCoords(multiPoint).g eometry.coordinates;	This algorithm finds duplicated geometries and removes them. 1.using algorithm: Ex: native:deleteduplicateg eometries
25	Flip coordinates	Returns a version of the given geometry with X and Y axis flipped. Useful for fixing geometries which contain coordinates expressed as latitude/longitude (Y,X). geometry ST_FlipCoordinates(geometry geom); Ex: ST_FlipCoordinates(GeomFromE WKT('POINT(1 2)')) output:POINT(2 1)	Takes input features and flips all of their coordinates from [x, y] to [y, x]. Ex: turf.point([20.566406, 43.421008]); turf.flip(serbia);	Returns a copy of the geometry with the x and y coordinates swapped. Useful for repairing geometries which have had their latitude and longitude values reversed. Ex: 1.using expression: flip_coordinates(geometry) geom_to_wkt(flip_coordinates(make_point(1,

n o	query	Postgis	Turf js	Qgis
				2))) 2.using algorithm: native:swapxy
26	Kmean clustering	Returns K-means cluster number for each input geometry. The distance used for clustering is the distance between the centroids for 2D geometries, and distance between bounding box centers for 3D geometries. integer ST_ClusterKMeans(geo metry winset geom, integer number_of_clusters, float max_radius); Ex: SELECT ST_ClusterKMeans(geom, 3) OVER() AS cid, parcel_id, geom FROM parcels;	Takes a set of points and partition them into clusters using the k-mean. It uses the k-means algorithm. Input can be point (multi). numberOfClusters=Math.sqrt(numberOfPoints/2) Ex: turf.randomPoint(100, {bbox: [0, 30, 20, 50]}); options = {numberOfClusters: 7}; turf.clustersKmeans(points, options);	Calculates the 2D distance based k-means cluster number for each input feature. If input geometries are lines or polygons, the clustering is based on the centroid of the feature. 1.using algorithm: native:kmeansclustering
27	Dbscan clustering	Returns cluster number for each input geometry, based on a 2D implementation of the Density-based spatial clustering of applications with noise (DBSCAN) algorithm. Unlike ST_ClusterKMeans, it does not require the number of clusters to be specified, but instead uses the desired distance (eps) and density (minpoints) parameters to construct each cluster. integer ST_ClusterDBSCAN(geo metry winset geom, float8 eps, integer minpoints); Ex: select name, ST_ClusterDBSCAN(geom, eps := 50, minpoints := 2) over	Takes a set of points and partition them into clusters according to DBSCAN data clustering algorithm. Maximum Distance between any point of the cluster to generate the clusters (kilometers only). Minimum number of points to generate a single cluster, points which do not meet this requirement will be classified as an 'edge' or 'noise'. Ex: turf.randomPoint(100, {bbox: [0, 30, 20, 50]}); maxDistance = 100; turf.clustersDbscan(points, maxDistance);	Clusters point features based on a 2D implementation of Density-based spatial clustering of applications with noise (DBSCAN) algorithm. The algorithm requires two parameters, a minimum cluster size ("minPts"), and the maximum distance allowed between clustered points ("eps"). 1.using algorithm: native:dbscanclusterin g

n o	query	Postgis	Turf js	Qgis
		() AS cid FROM table		
28	Rotate	Rotates geometry rotRadians counter-clockwise about the origin point. The rotation origin can be specified either as a POINT geometry, or as x and y coordinates. If the origin is not specified, the geometry is rotated about POINT(0 0). geometry ST_Rotate(geometry geomA, float rotRadians); geometry ST_Rotate(geometry geomA, float rotRadians, float x0, float y0); geometry ST_Rotate(geometry geomA, float rotRadians, geometry pointOrigin); Ex: 1.Rotate 30 degrees counter-clockwise at x=50, y=160 ST_Rotate('LINESTRING (50 160, 50 50, 100 50)', pi()/6, 50, 160)	Rotates any geojson Feature or Geometry of a specified angle, around its centroid or a given pivot point. Angle:of rotation in decimal degrees, positive clockwise. Pivot:point around which the rotation will be performed (coordinates). Ex: turf.polygon([[[0,29],[3.5,29], [2.5,32],[0,29]]]); options = {pivot: [0, 25]}; turf.transformRotate(poly, 10, options);	Returns a rotated version of a geometry. rotate(geometry,rotation[,center]) 1.using Expression: rotate(\$geometry, 45, make_point(4, 5)) 2.using algorithm: This algorithm rotates feature geometries, by the specified angle clockwise Optionally, the rotation can occur around a preset point. If not set the rotation occurs around each feature's centroid. Ex: native:rotatefeatures
29	BBox Clip	Clips a geometry by a 2D box in a fast and tolerant but possibly invalid way. Topologically invalid input geometries do not result in exceptions being thrown. The output geometry is not guaranteed to be valid (in particular, self-intersections for a polygon may be introduced). geometry ST_ClipByBox2D(geometry geom, box2d box);	Takes a Feature and a bbox and clips the feature to the bbox using lineclip. May result in degenerate edges when clipping Polygons. feature to clip to the bbox fetaure can be line or polygon extent in minX, minY, maxX, maxY order. Ex: bbox = [0, 0, 10, 10]; poly = turf.polygon([[[2, 2], [8, 4], [12, 8], [3, 7], [2, 2]]]); turf.bboxClip(poly, bbox);	This algorithm creates a new vector layer that only contains features which fall within a specified extent. Any features which intersect the extent will be included. 1.using algorithm: native:extractbyextent

n o	query	Postgis	Turf js	Qgis
30	Geometry type	Ex: ST_ClipByBox2D(geom, ST_MakeEnvelope(0,0,10,10)); Returns the type of the geometry as a string. Eg: 'LINESTRING', 'POLYGON', 'MULTIPOINT', etc. text GeometryType(geometry geomA); Ex: SELECT GeometryType(ST_GeomFromTe	Get GeoJSON object's type, Geometry type is prioritize. Ex: point = { "type": "Feature", "properties": { }, "geometry": { "type": "Point", "coordinates": [110, 40] } } var geom = turf.getType(point)	Using QGIS expression, it can occur that you want to identify the geometry-type of a layer (point, line or polygon Multiple or single part). Ex: string_to_array(geom_t
		xt('LINESTRING(77.29 29.07,77.42 29.26,77.27 29.31,77.29 29.07)')); output:LINESTRING	carrigetry pe (point)	o_wkt(\$geometry),' ') [0]
31	Contain	('POLYGON ((300 380, 420 480, 420 260, 300 380))'),	Boolean-contains returns True if the second geometry is completely contained by the first geometry. The interiors of both geometries must intersect and, the interior and boundary of the secondary (geometry b) must not intersect the exterior of the primary (geometry a). Ex: turf.lineString([[1, 1], [1, 2], [1, 3], [1, 4]]); turf.point([1, 2]); turf.booleanContains(line, point); output:true	function contains: Tests whether a geometry contains another. Returns true if and only if no points of geom2 lie in the exterior of geom1, and at least one point of the interior of geom2 lies in the interior of geom2 lies in the interior of geom1. Ex: contains(geometry1,geometry2). contains(geom_from_wkt('POLYGON((0 0, 0 1, 1 1, 1 0, 0 0))'), geom_from_wkt('POIN T(0.5 0.5)'))
				output:true

n o	query	Postgis	Turf js	Qgis
	Equals	Return true if the given geometries are "spatially equal". Use this for a 'better' answer than '='. Note by spatially equal we mean ST_Within(A,B) = true and ST_Within(B,A) = true also mean ordering of points can be different but represent the same geometry structure. To verify the order of points is consistent, use ST_OrderingEquals (it must be noted ST_OrderingEquals is a little more stringent than simply verifying order of points are the same). Ex: boolean ST_Equals(geometry A, geometry B); ST_Equals(ST_GeomFromText('LINESTRING(0 0, 10 10)'), ST_GeomFromText('LINESTRING(0 0, 5 5, 10 10)')); output:True	Determine whether two geometries of the same type have identical X,Y coordinate values. Ex: var pt1 = turf.point([0, 0]); var pt2 = turf.point([0, 0]); turf.booleanEqual(pt1, pt2); output:true	function overlay_equals: Returns whether the current feature spatially equals to at least one feature from a target layer, or an array of expression-based results for the features in the target layer that are spatially equal to the current feature. Ex: overlay_equals(layer[,e xpression][,filter][,limit] [,cache=false]). [] marks optional components. i.e: overlay_equals('regions ', filter:= population > 10000) output: true if the current feature is spatially equal to a region with a population greater than 10000.
33	disjoint	If two geometries are disjoint, they do not intersect, and viceversa. Overlaps, Touches, Within all imply geometries are not spatially disjoint. If any of the aforementioned returns true, then the geometries are not spatially	Boolean-disjoint returns (TRUE) if the intersection of the two geometries is an empty set. Ex: point = turf.point([2, 2]); line = turf.lineString([[1, 1], [1, 2], [1, 3], [1, 4]]);	function disjoint: Tests whether geometries do not spatially intersect. Returns true if the geometries do not share any space together.

n o	query	Postgis	Turf js	Qgis
	Cross	disjoint. Disjoint implies false for spatial intersection. boolean ST_Disjoint(geometry A , geometry B); Ex: ST_Disjoint('POINT(0 0)'::geometry, 'LINESTRING (2 0, 0 2)'::geometry); output:true Compares two geometry objects and returns true if their intersection "spatially cross", that is, the geometries have some, but not all interior points in common. The intersection of the interiors of the geometries must be nonempty and must have dimension less than the maximum dimension of the two input geometries. Additionally, the intersection of the two geometries must not equal either of the source geometries. Otherwise, it returns false.	turf.booleanDisjoint(line, point); output:true Boolean-Crosses returns True if the intersection results in a geometry whose dimension is one less than the maximum dimension of the two source geometries and the intersection set is interior to both source geometries. Ex: turf.lineString([[-2, 2], [4, 2]]); turf.lineString([[1, 1], [1, 2], [1, 3], [1, 4]]); turf.booleanCrosses(line1, line2); output:true	Syntax: disjoint(geometry1,geometry2) Ex: disjoint(geom_from_wkt('POLYGON((0 0, 0 1, 1 1, 1 0, 0 0))'), geom_from_wkt('LINESTRING(3 3, 4 4, 5 5)')) output:true
		boolean ST_Crosses(geometry g1, geometry g2);		
35	overlaps	Returns TRUE if geometry A and B "spatially overlap". Two geometries overlap if they have the same dimension, each has at least one point not shared by the other (or equivalently neither covers the	Compares two geometries of the same dimension and returns true if their intersection set results in a geometry different from both but of the same dimension. It applies to Polygon/Polygon, LineString/LineString,	function overlaps: Tests whether a geometry overlaps another. Returns true if the geometries share space, are of the same

n o	query	Postgis	Turf js	Qgis
		other), and the intersection of their interiors has the same dimension. The overlaps relationship is symmetrical. boolean ST_Overlaps(geometry A, geometry B); Ex: SELECT ST_Overlaps(ST_GeomFromText ('POINT (100 100)'),ST_GeomFromText('LINES TRING (30 50, 40 160, 160 40, 180 160)')) AS overlaps output:false	Multipoint/Multipoint, MultiLineString/MultiLineStrin g and MultiPolygon/MultiPolygon. In other words, it returns true if the two geometries overlap, provided that neither completely contains the other. Ex: turf.polygon([[[0,0],[0,5], [5,5],[5,0],[0,0]]]); turf.polygon([[[1,1],[1,6], [6,6],[6,1],[1,1]]]); turf.booleanOverlap(poly1, poly2) =true	dimension, but are not completely contained by each other. overlaps(geometry1,geometry2) Ex: overlaps(geom_from_wkt('LINESTRING(3 5, 4 4, 5 5, 5 3)'), geom_from_wkt('LINESTRING(3 3, 4 4, 5 5)')) output:true