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Geometry Recipes

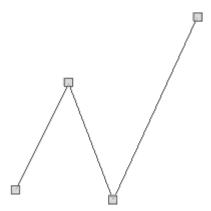
Creating Geometries

Create a Point with an XY

```
Point point = new Point(-123,46)
```

Create a LineString from Coordinates

```
LineString lineString = new LineString(
        [3.1982421875, 43.1640625],
        [6.7138671875, 49.755859375],
        [9.7021484375, 42.5927734375],
        [15.3271484375, 53.798828125]
)
```



Create a Polygon from a List of Coordinates

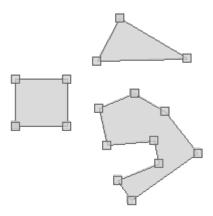


Create a MultiPoint with a List of Points

```
MultiPoint multiPoint = new MultiPoint([
    new Point(-122.3876953125, 47.5820839916191),
    new Point(-122.464599609375, 47.25686404408872),
    new Point(-122.48382568359374, 47.431803338643334)
])
```



```
MultiPolygon multiPolygon = new MultiPolygon(
    new Polygon ([[
            [-122.2723388671875, 47.818687628247105],
            [-122.37945556640624, 47.66168780332917],
            [-121.95373535156249, 47.67093619422418],
            [-122.2723388671875, 47.818687628247105]
    ]]),
    new Polygon ([[
            [-122.76672363281249, 47.42437092240516],
            [-122.76672363281249, 47.59505101193038],
            [-122.52227783203125, 47.59505101193038],
            [-122.52227783203125, 47.42437092240516],
            [-122.76672363281249, 47.42437092240516]
    ]]),
    new Polygon ([[
            [-122.20367431640624, 47.543163654317304],
            [-122.3712158203125, 47.489368981370724],
            [-122.33276367187499, 47.35371061951363],
            [-122.11029052734374, 47.3704545156932],
            [-122.08831787109375, 47.286681888764214],
            [-122.28332519531249, 47.2270293988673],
            [-122.2174072265625, 47.154237057576594],
            [-121.904296875,
                                  47.32579231609051],
            [-122.06085205078125, 47.47823216312885],
            [-122.20367431640624, 47.543163654317304]
    ]])
)
```



Create a CircularString with a List of Points

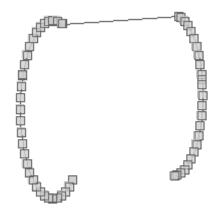


Create a CircularRing with a List of Points

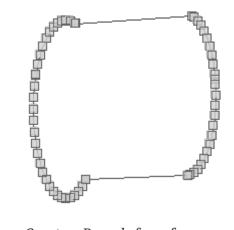


Create a CompoundCurve with a List of CircularStrings and LineStrings

```
CompoundCurve compoundCurve = new CompoundCurve([
    new CircularString([
            [27.0703125, 23.885837699862005],
            [5.9765625, 40.17887331434696],
            [22.5, 47.98992166741417],
    ]),
    new LineString([
            [22.5, 47.98992166741417],
            [71.71875, 49.15296965617039],
    ]),
    new CircularString([
            [71.71875, 49.15296965617039],
            [81.5625, 39.36827914916011],
            [69.9609375, 24.5271348225978]
    ])
])
```

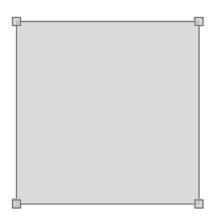


```
CompoundRing = new CompoundRing([
       new CircularString([
               [27.0703125, 23.885837699862005],
               [5.9765625, 40.17887331434696],
               [22.5, 47.98992166741417],
       ]),
       new LineString([
               [22.5, 47.98992166741417],
               [71.71875, 49.15296965617039],
       ]),
       new CircularString([
               [71.71875, 49.15296965617039],
               [81.5625, 39.36827914916011],
               [69.9609375, 24.5271348225978]
       ]),
       new LineString([
               [69.9609375, 24.5271348225978],
               [27.0703125, 23.885837699862005],
       ])
])
```



Create a Bounds from four coordinates (minx, miny, maxx, maxy) and a projection.

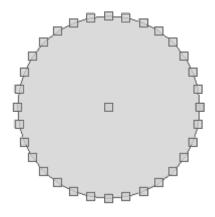
```
Bounds bounds = new Bounds(-127.265, 43.068, -113.554, 50.289, "EPSG:4326") drawGeometries("geometry_create_bounds", [bounds.geometry])
```



Procesing Geometries

Buffer a Point

```
Point point = new Point(-123,46)
Geometry bufferedPoint = point.buffer(2)
```



Get Bounds from a Geometry

```
Point point = new Point(-123,46)
Polygon polygon = point.buffer(2)
Bounds bounds = polygon.bounds
```

