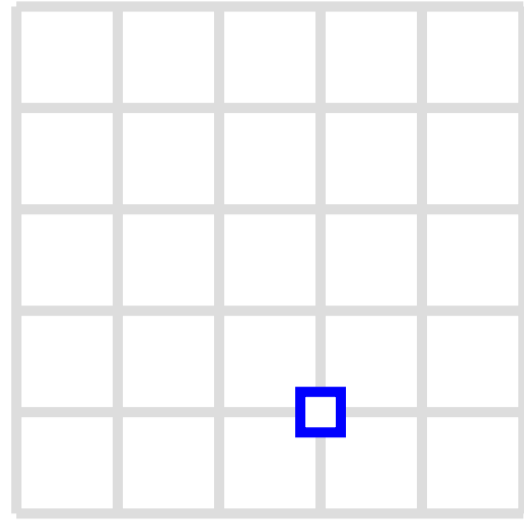


# The GeoJSON Format

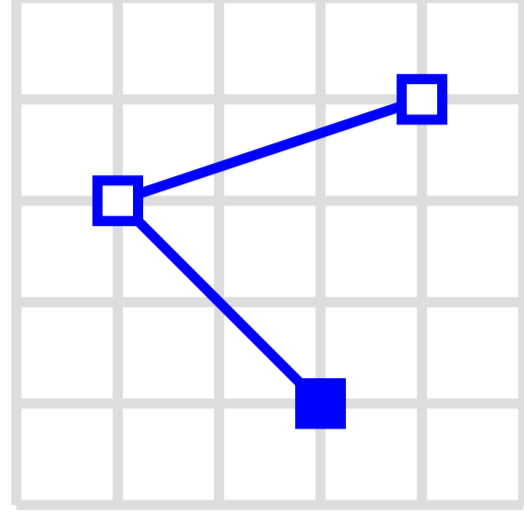
## Geometry objects

### Point



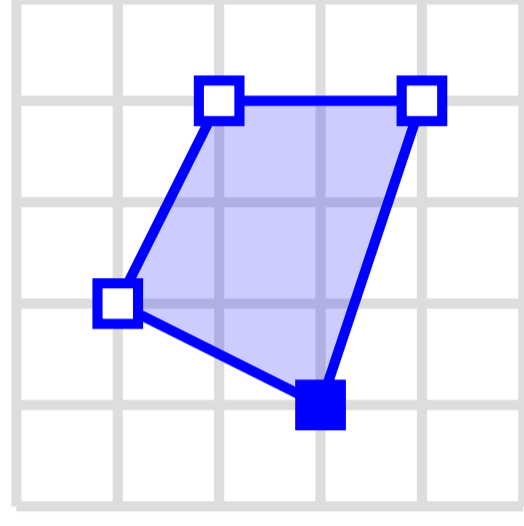
```
{
  "type": "Point",
  "coordinates": [30, 10]
}
```

### LineString



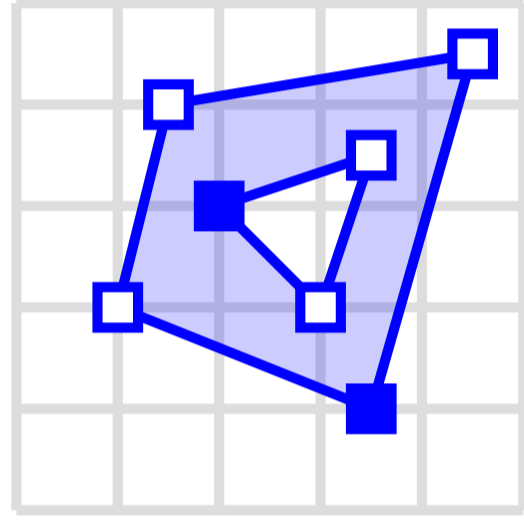
```
{
  "type": "LineString",
  "coordinates": [
    [30, 10], [10, 30], [40, 40]
  ]
}
```

### Polygon



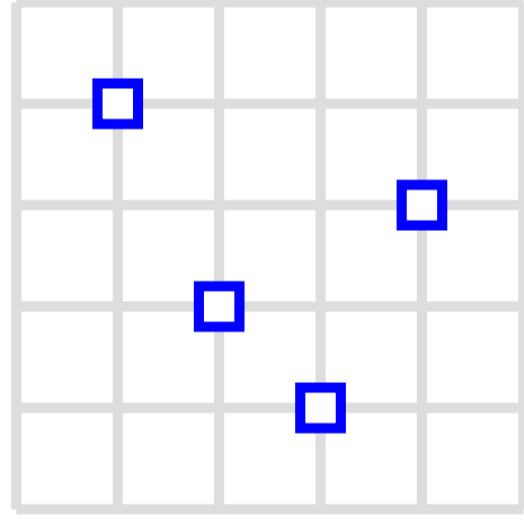
```
{
  "type": "Polygon",
  "coordinates": [
    [[30, 10], [40, 40], [20, 40], [10, 20],
    [30, 10]]
  ]
}
```

### Polygon



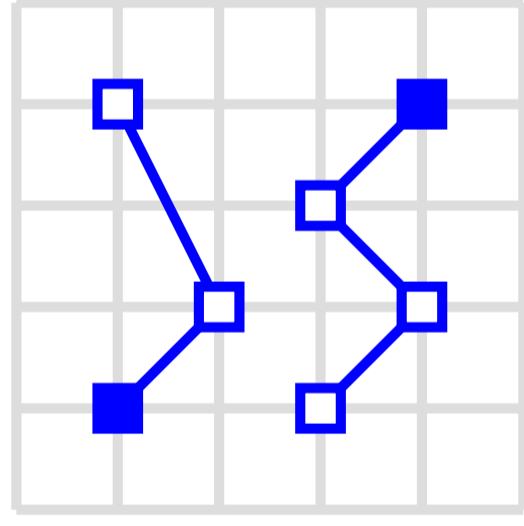
```
{
  "type": "Polygon",
  "coordinates": [
    [[35, 10], [45, 45], [15, 40], [10, 20],
    [35, 10]], [[20, 30], [35, 35], [30, 20],
    [20, 30]]
  ]
}
```

### MultiPoint



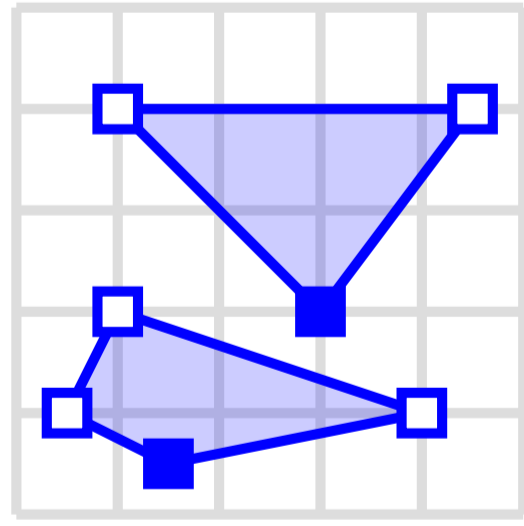
```
{
  "type": "MultiPoint",
  "coordinates": [
    [10, 40], [40, 30], [20, 20], [30, 10]
  ]
}
```

### MultiLineString



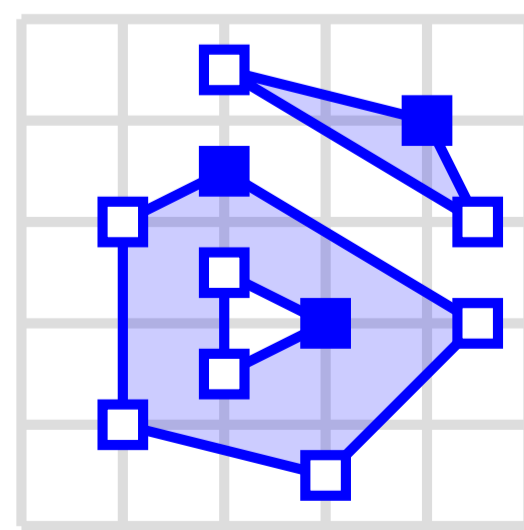
```
{
  "type": "MultiLineString",
  "coordinates": [
    [[10, 10], [20, 20], [10, 40]], [[40, 40],
    [30, 30], [40, 20], [30, 10]]
  ]
}
```

### MultiPolygon



```
{
  "type": "MultiPolygon",
  "coordinates": [
    [
      [[30, 20], [45, 40], [10, 40], [30, 20]]
    ],
    [
      [[15, 5], [40, 10], [10, 20], [5, 10],
      [15, 5]]
    ]
  ]
}
```

### MultiPolygon



```
{
  "type": "MultiPolygon",
  "coordinates": [
    [
      [[40, 40], [20, 45], [45, 30], [40, 40]]
    ],
    [
      [[20, 35], [10, 30], [10, 10], [30, 5],
      [45, 20], [20, 35]], [[30, 20], [20, 15],
      [20, 25], [30, 20]]
    ]
  ]
}
```

**GeoJSON** is a plain text format for representing geographic data structures using the *JavaScript Object Notation* (JSON). Geometry objects are used to represent the seven most common *simple feature* types. Feature objects are Geometry objects along with their non-spatial attributes. FeatureCollection objects are collections of Feature objects.

### GeometryCollection



```
{
  "type": "GeometryCollection",
  "geometries": [
    {
      "type": "Point",
      "coordinates": [10, 30]
    },
    {
      "type": "MultiLineString",
      "coordinates": [
        [[10, 10], [20, 20]], [[40, 40],
        [30, 30], [40, 20]]
      ]
    }
  ]
}
```

## Feature objects

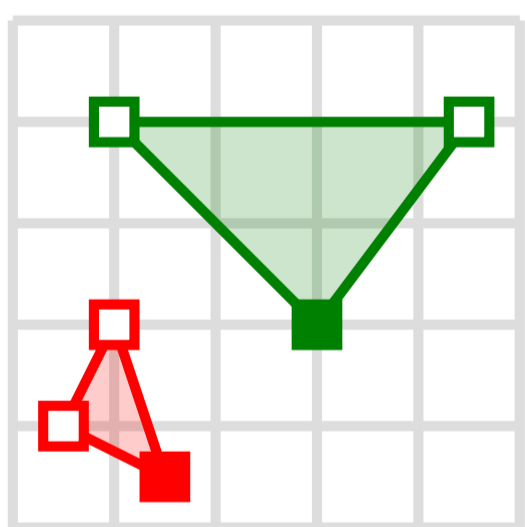
### Feature



```
{
  "type": "Feature",
  "geometry": {
    "type": "Polygon",
    "coordinates": [
      [[15, 5], [10, 20], [5, 10], [15, 5]]
    ]
  },
  "properties": {
    "color": "red",
    "area": 763727.2
  }
}
```

## FeatureCollection objects

### FeatureCollection



```
{
  "type": "FeatureCollection",
  "features": [
    {
      "type": "Feature",
      "geometry": {
        "type": "Polygon",
        "coordinates": [
          [[30, 20], [45, 40], [10, 40],
          [30, 20]]
        ]
      },
      "properties": {
        "color": "green",
        "area": 3565747.2
      }
    },
    {
      "type": "Feature",
      "geometry": {
        "type": "Polygon",
        "coordinates": [
          [[15, 5], [10, 20], [5, 10], [15, 5]]
        ]
      },
      "properties": {
        "color": "red",
        "area": 763727.2
      }
    }
  ]
}
```