

Developers





Location Class



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Location Class

Contains methods for accessing the component fields of geolocation compound fields.

Namespace

system

Usage

Each of these methods is also equivalent to a read-only property. For each getter method you can access the property using dot notation. For example, <code>myLocation.getLatitude()</code> is equivalent to <code>myLocation.latitude()</code>.

You can't use dot notation to access compound fields' subfields directly on the parent field. Instead, assign the parent field to a variable of type Location, and then access its components.

```
Location loc = myAccount.MyLocation_c;
Double lat = loc.latitude;
```

#

Important

"Location" in Salesforce can also refer to the Location standard object. When referencing the Location object in your Apex code, always use Schema.Location instead of Location to prevent confusion with the standard Location compound field. If referencing both the location object and the Location field in the same snippet, you can differentiate between the two by using System.Location for the field and Schema.Location for the object.

Example

```
// Select and access the Location field. MyLocation_c is the name of a geolocation field
Account[] records = [SELECT id, MyLocation_c FROM Account LIMIT 10];
for(Account acct : records) {
    Location loc = acct.MyLocation_c;
    Double lat = loc.latitude;
    Double lon = loc.longitude;
}

// Instantiate new Location objects and compute the distance between them in different way Location loc1 = Location.newInstance(28.635308,77.22496);
Location loc2 = Location.newInstance(37.7749295,-122.4194155);
Double dist = Location.getDistance(loc1, loc2, 'mi');
Double dist2 = loc1.getDistance(loc2, 'mi');
```

Location Methods

Location Methods



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· getDistance(firstLocation, secondLocation, unit)

Calculates the distance between the two specified locations, using an approximation of the haversine formula and the specified unit.

getLatitude()

Returns the latitude field of this location.

getLongitude()

Returns the longitude field of this location.

• newInstance(latitude, longitude)

Creates an instance of the Location class, with the specified latitude and longitude.

getDistance(toLocation, unit)

Calculates the distance between this location and the specified location, using an approximation of the haversine formula and the specified unit.

Signature

public Double getDistance(Location toLocation, String unit)

Parameters

toLocation

Type: Location

The Location to which you want to calculate the distance from the current Location.

unit

Type: String

The distance unit you want to use: \min or km.

Return Value

Type: Double

getDistance(firstLocation, secondLocation, unit)

Calculates the distance between the two specified locations, using an approximation of the haversine formula and the specified unit.

Signature

public static Double getDistance(Location firstLocation, Location secondLocation, String unit)

Parameters

firstLocation

Type: Location

The first of two locations used to calculate distance.

secondLocation

Type: Location

The second of two locations used to calculate distance.

unit

Type: String

The distance unit you want to use: \min or km.



Gerramane()

Returns the latitude field of this location.

Signature

public Double getLatitude()

Return Value

Type: Double

getLongitude()

Returns the longitude field of this location.

Signature

public Double getLongitude()

Return Value

Type: Double

newInstance(latitude, longitude)

Creates an instance of the Location class, with the specified latitude and longitude.

Signature

public static Location newInstance(Decimal latitude, Decimal longitude)

Parameters

latitude

Type: Decimal

longitude

Type: Decimal

Return Value

Type: Location

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