

# GPGeodeticPoint

De Wiki

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## How to call it

For using the [GPGeodeticPoint](#) class, the developer has only to create such an object with these two possibilities:

- With an altitude coordinate:

```
geodWithAlt = new GPGeodeticPoint ("With altitude:");
```

- ... or without altitude coordinate (only name/latitude/longitude):

```
geodWithoutAlt = new GPGeodeticPoint ("Without altitude:", false, true);
```

- ... or without name (only latitude/longitude/altitude):

```
geodWithoutName = new GPGeodeticPoint ("Without name:", true, false);
```

We also may initialize the widget with predefined values:

```
GeodeticPoint geodeticPoint =  
    new GeodeticPoint(FastMath.toRadians(45.),  
                      FastMath.toRadians(10.), 120.e+3);  
geodWithoutAlt = new GPGeodeticPoint("Without altitude:",  
    geodeticPoint, false);
```

*Note: we may initialize a widget with no display altitude even with a (complete) geodetic point.*

## Display

For both cases, the display will be:

<b>With altitude:</b>		
Name:	<input type="text"/>	
Latitude:	<input type="text" value="0.0"/>	<a href="#">deg</a>
Longitude:	<input type="text" value="0.0"/>	<a href="#">deg</a>
Altitude:	<input type="text" value="0.0"/>	<a href="#">km</a>
<b>Without altitude:</b>		
Name:	<input type="text"/>	
Latitude:	<input type="text" value="0.0"/>	<a href="#">deg</a>
Longitude:	<input type="text" value="0.0"/>	<a href="#">deg</a>
<b>Without name:</b>		
Latitude:	<input type="text" value="0.0"/>	<a href="#">deg</a>
Longitude:	<input type="text" value="0.0"/>	<a href="#">deg</a>
Altitude:	<input type="text" value="0.0"/>	<a href="#">km</a>

## How to use it

To get a [[PATRIUS \(CommonsMath\)](#)] [Vector3D](#) object, we will just have to call for the [getPatriusObject\(\)](#) method as below:

```
GeodeticPoint point = geodWithAlt.getPatriusObject();
```

*Note: even if the widget is initialized without altitude, this one will be stored in the GeodeticPoint (with a zero value).*

## How it is stored

Here is the [XML](#) format:

```
<GeodeticPoint name="With_altitude:">
  <Real name="latitude" unit="deg">4.5E1</Real>
  <Real name="longitude" unit="deg">1.0E1</Real>
  <Real name="altitude" unit="km">1.2E2</Real>
</GeodeticPoint>
<GeodeticPoint name="Without_altitude:">
  <Real name="latitude" unit="deg">1.1E1</Real>
  <Real name="longitude" unit="deg">2.2E1</Real>
  <Real name="altitude" unit="km">0.0E0</Real>
</GeodeticPoint>
```

*Note: same remark as above when the widget is initialized without altitude.*

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