HERE Maps API - How to check the Date Border Crossing

This article explains how to check the Date Border Crossing using the HERE Maps API.

Introduction

The `isCDB` flag of the `BoundingBox` in HERE Maps API has been added since v2 to indicate that the bounding box is crossing the date border. A bounding box which is spanned from -180° (left) to +180° (right) is NOT crossing the date border. Default value is `false`.

The API reference link: http://developer.here.net/docs/maps_js/topics_api_pub/nokia.maps.geo.BoundingBox.html#topic-apiref__BoundingBox-isCDB

The International Date Line (IDL) Definition by Wikipedia.org

IDL is a generally north-south imaginary line on the surface of the Earth, passing through the middle of the Pacific Ocean, that designates the place where each calendar day begins. It is roughly along 180° longitude, opposite the Prime Meridian, but it is drawn with diversions to pass around some territories and island groups.Crossing the IDL traveling east results in a day or 24 hours being subtracted, so that the traveler repeats the date to the west of the line. Full description here: http://en.wikipedia.org/wiki/International_Date_Line

Example code

This example first adds two `Markers` for which the `BoundingBox` is not crossing the International Date Line. A third Marker is then added by clicking on the map which will also check to see if the `BoundingBox` to have crossed the IDL.

```
function setUpContainer(){
 this.container = new nokia.maps.map.Container();
 container.objects.addAll([
  new nokia.maps.map.StandardMarker([-18.10, 176.46]),
  new nokia.maps.map.StandardMarker([-18.10, 180.00])]
  );

 map.objects.add(container);
 map.zoomTo(container.getBoundingBox(),false,true);
}
```

```
function addOnClickEventListener(map){
 map.addListener("click", function(evt){
  evt.preventDefault();
  coordinate = map.pixelToGeo(evt.displayX, evt.displayY);
  container.objects.add(new nokia.maps.map.Marker(coordinate));
  checkDateBorder(container);});
}
```

```
function checkDateBorder(container){
 if (container.getBoundingBox().isCDB){
  $("#dateline").text("True - The Bounding box crosses the date border");
 } else {
  $("#dateline").text("False - The Bounding box is not crossing the date border");
 }
}
```

A working example can be found at:

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http://rawgithub.com/heremaps/examples/master/maps_api_for_javascript/advanced-examples/international-date-line-check.html

For more on HERE Maps API

Please check out the HERE Maps API full documentation and API reference here:

- HERE Maps API

You may also access the interactive API explorer

- API explorer

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