

HERE Maps API - Coroutines

This article demonstrates the use of HERE Maps API coroutine feature.

Introduction and Prerequisites

Firstly, please read the complete section of [Coroutines](#) at the HERE Maps API reference. It is explained there in detail, and here is the direct link:

http://developer.here.net/docs/maps_js/topics_api_pub/nokia.maps.util.Coroutine.html

The example below is using the same concept as in the [How to pan the map](#) example.

As the Coroutine built in serves a similar function to the JavaScript `setTimeout()` and `setInterval()`, you can also utilize them in same type of use cases. The main idea behind the coroutine implementation is to serve as a point of saving some CPU time cycles, while performing multiple tasks during the same mapping program - threading.

Because there is a lot to this subject, it is highly recommended that you read the related API chapter.

Example code

This example will loop from 1 to 500 with 10ms delay. The run is displayed on screen, and after the set time period of Coroutine operations, the map will pan to a new position and the coroutines get terminated. Remember to add in your own [Appld and Token](#).

```
function initialiseCoroutines(map){
  // Define the 1st coroutine - increase the value of i by one every 10 milliseconds,
  // until we reach a 500. Watch the screen output for the numbers.
  this.iterationCoroutine = nokia.maps.util.Coroutine.create(
    "iterator", function( scope, context ) {
      i++;

      if ( i <= 500 ) {
        $("#iterator").text("Wait until 500 to see the map move! : "+i+"/500");
        return nokia.maps.util.Coroutine.sleep(10);
      }

      // pan the map to the new position after the loop is over
      this.map.pan(0, 0, 400, 400);
    });

  // Define the 2nd coroutine display iteration in console.log every 100 miliseconds
  this.loggingCoroutine = nokia.maps.util.Coroutine.create(
    "printing", function( scope, context ) {
      $("#printerlog").text( 'logging count = ' + i);
      return nokia.maps.util.Coroutine.sleep(100);
    });
}
```

```
function runCoroutines(){
  // 1st coroutine, init the iteration.
  var coroutine1 = iterationCoroutine();

  // 2nd second coroutine, init the logging.
```

```
var coroutine2 = loggingCoroutine();

// Add an observer to the 1st coroutine for it's status
coroutine1.addObserver("status", function( context, key, value, oldValue ) {
    if ( value == nokia.maps.util.Coroutine.TERMINATED ) { // When gets terminated
        nokia.maps.util.Coroutine.kill( coroutine2 ); // kill the 2nd coroutine
        $("#showCoords").text( "coroutine1 has finished, and coroutine2 was terminated.");
    }
});
}
```

A working example can be found at:

<http://heremaps.github.io/examples/examples.html#coroutine>

For more on the 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](#)