

# GEOLOCATION WATCHPOSITION API

[http://www.tutorialspoint.com/html5/geolocation\\_watchposition.htm](http://www.tutorialspoint.com/html5/geolocation_watchposition.htm)

Copyright © tutorialspoint.com

## Description

The watchPosition method retrieves periodic updates about the current geographic location of the device. The location is expressed as a set of geographic coordinates together with information about heading and speed.

The location information is returned in a Position object. Each update returns a new Position object.

## Syntax

Here is the syntax of this method –

```
watchPosition(showLocation, ErrorHandler, options);
```

## Parameters

Here is the detail of parameters –

- **showLocation** – This specifies the callback method that retrieves the location information. This method is called asynchronously with an object corresponding to the **Position** object which stores the returned location information.
- **ErrorHandler** – This optional parameter specifies the callback method that is invoked when an error occurs in processing the asynchronous call. This method is called with the **PositionError** object that stores the returned error information.
- **options** – This optional parameter specifies a set of options for retrieving the location information. You can specify *a* Accuracy of the returned location information *b* Timeout for retrieving the location information and *c* Use of cached location information .

## Return value

The watchPosition method returns a unique transaction ID *number* associated with the asynchronous call. Use this ID to cancel the watchPosition call and to stop receiving location updates.

## Example

```
<!DOCTYPE HTML>
<head>
  <html>

  <script type="text/javascript">
    var watchID;
    var geoLoc;

    function showLocation(position) {
      var latitude = position.coords.latitude;
      var longitude = position.coords.longitude;
      alert("Latitude : " + latitude + " Longitude: " + longitude);
    }

    function errorHandler(err) {
      if(err.code == 1) {
        alert("Error: Access is denied!");
      }

      else if( err.code == 2) {
        alert("Error: Position is unavailable!");
      }
    }
  </script>
</html>
</head>
</html>
```

```
    }  
  
    function getLocationUpdate(){  
        if(navigator.geolocation){  
            // timeout at 60000 milliseconds (60 seconds)  
            var options = {timeout:60000};  
            geoLoc = navigator.geolocation;  
            watchID = geoLoc.watchPosition(showLocation, errorHandler, options);  
        }  
  
        else{  
            alert("Sorry, browser does not support geolocation!");  
        }  
    }  
    </script>  
  
</head>  
<body>  
  
    <form>  
        <input type="button" onclick="getLocationUpdate();" value="Watch Update"/>  
    </form>  
  
</body>  
</html>
```

This will produce following result –

