

Geo Location

Introduction

- ❖ The Geo Location API allows the users to share their location with web sites they trust.
- ❖ HTML 5.0 allows us to write JavaScript code that finds out the latitude and the longitude and send it over to the server side.

The navigator.geolocation Property

- ❖ The `geolocation` new property on the global navigator object provides us with the capability to get the location information.

The `getCurrentPosition` Function

- ❖ Calling the `getCurrentPosition` function on the `navigator.geolocation` property we can pass over a callback function.
- ❖ The callback function will be called in case the Geo Location API is supported and the user approves it to use his geo location data.

...

```
navigator.geolocation.getCurrentPosition(myfunc, myerrorfunc);
```

...

The Location Callback Function

usually latitude, longitude and accuracy
are the only ones that get support

```
...  
function myfunc(position)  
{  
    var latitude = position.coords.latitude;  
    var longitude = position.coords.longitude;  
    var altitude = position.coords.altitude;  
    var accuracy = position.coords.accuracy; //meters  
  
    var altitudeAccuracy = position.coords.altitudeAccuracy; //meters  
    var heading = position.coords.heading; //degrees clockwise from north  
    var speed = position.coords.speed; //speed in meters/seconds  
}  
...
```

The Error Callback Function

```
...  
function myerrorfunc(errorobject)  
{  
    var message = errorobject.message;  
    var code = errorobject.code;  
    ...  
}  
...
```

The possible error code values are:

```
PERMISSION_DENIED  
POSITION_UNAVAILABLE  
TIMEOUT  
UNKNOWN_ERROR
```

Geo Location Code Sample

```
<html>
  <head>
    <title>Just Simple Title</title>
    <script language="javascript">
      function myfunc(ob)
      {
        alert("latitude="+ob.coords.latitude+" longitude="+ob.coords.longitude);
      }
      function errfunc(ob)
      {
        alert(ob.message);
      }
      if(window.navigator.geolocation)
      {
        window.navigator.geolocation.getCurrentPosition(myfunc,errfunc);
      }
      else
      {
        alert("geolocation is not supported");
      }
    </script>
  </head>
  <body>
  </body>
</html>
```

the support for this api doesn't exist on every browser and those that do support this api still don't support it 100%.

Geo Location Code Sample

