

Calculate distance between two points

by PABLO • JUNE 13, 2011

So whilst working with Google Maps lately, I found this super-useful snippet that calculates the distance between two points, using longitude and latitude.

Code:

```
function distance($lat1, $lon1, $lat2, $lon2, $unit) {

    $theta = $lon1 - $lon2;

    $dist = sin(deg2rad($lat1)) * sin(deg2rad($lat2)) + cos(deg2rad($lat1)) *
    cos(deg2rad($lat2)) * cos(deg2rad($theta));

    $dist = acos($dist);

    $dist = rad2deg($dist);

    $miles = $dist * 60 * 1.1515;

    $unit = strtoupper($unit);

    if ($unit == "K") {

        return ($miles * 1.609344);

    } else if ($unit == "N") {

        return ($miles * 0.8684);

    } else {

        return $miles;
    }
}
```

Usage:

```
echo distance(32.9697, -96.80322, 29.46786, -98.53506, "k")." kilometers";
```

Credit: PHPSnippets.info

Original URL:

<http://freelance-php.blogspot.com/2011/06/calculate-distance-between-two-points.html>