

Exercise 2. Coordinate formats

Write a JavaScript function with the following prototype:

```
function coordinates(longitude, latitude, format="geo") {  
    var coordinateString = "";  
  
    // Your code here  
  
    return coordinateString  
}
```

where format can take three values "geo", "dms" or "utm".

Test the function in Fiddle with the following coordinates:

$\lambda = -79.73064250$

$\Phi = 9.08267694$

The function returns a formatted string (variable coordinateString) which depends on the value of the parameter as follows:

- "geo": "-79.73064250 9.08267694"
- "dms": "79°43'50.313"W 09°04'57.637"N"
- "utm": "17 639499.182 1004236.701"
- Otherwise, returns an empty string.

TIPS:

1. The Unicode values for the degrees, minutes and seconds symbols are U+00B0, U+0027 and U+0022 respectively.
2. These Unicode characters are used in JavaScript as follows:

```
var degrees = 79;  
var minutes = 43;  
var seconds = 50.313;  
  
var hemisphere = "W";  
  
var longitude = degrees + "\u{00B0}" + minutes + "\u{0027}" + seconds +  
    "\u{0022}" + hemisphere;  
  
alert(longitude);
```