YPolyline, YGeoPoint, YCoordPoint, YCustomOverlay, YImage, YAnnotation, YSize, YUtility, YLog 2007-6-19 v1.0

Simple Use Case: YPolyline

Markup:

```
<div id="ymap"></div>
```

Script:

```
var map = new
   YMap(document.getElementById("ymap"));
var geoPointArray = [];
geoPointArray.push(new
   YGeoPoint(37.431960114344,-
   122.318194923401));
geoPointArray.push(new
   YGeoPoint(37.831960114344,-
   122.318194923401));
var polyline = new YPolyline(geoPointArray);
map.addOverlay(polyline);
```

Constructor: YPolyline

```
YPolyline(points, color?, width?, alpha?)
```

Parameters:

(1) **points:** array of YGeoPoint objects describing line segments
(2) **color:** Optional line segment color
(3) **width:** Optional width in pixels
(4) **alpha:** Optional tranparency level of the line segment

Simple Use Case: YCustomOverlay

Markup:

```
<div id="ymap"></div>
```

Script:

```
var map = new
   YMap(document.getElementById("ymap"));
map.addOverlay(new
   YCustomOverlay(map.getCenterLatLon(),
   "<b>custom overlay!</b>");
```

Constructor: YCustomOverlay

```
YCustomOverlay(YGeoPoint|YCoordPoint,
   HTMLobject);
```

Parameters:

(1) **YGeoPoint|YCoordPoint:** Position of type YGeoPoint or YCoordPoint
(2) **HTMLobject:** Customized HTML object for overlay

Constructor: YCoordPoint

```
YCoordPoint(x,y)
```

Parameters:

(1) **x:** pixel position from the top,left corner on the x-axis
(2) **y:** pixel position from the top,left corner on the y-axis

YCoordPoint Properties and Methods

x	pixel position from the top,left corner on the x-axis
y	pixel position from the top,left corner on the y-axis
distance(point)	Return distance between coordinate points
translate (xcoord,ycoord)	Tranlate from default origin (top,left) to another origin. *xcoord=left,right. ycoord=top,bottom*
equal(point)	Check two coordinate points to test equality

Constructor: YGeoPoint

```
YGeoPoint(lat,lon);
```

Parameters:

(1) **lat:** a float representing the geographic latitude
(2) **lon:** a float representing the geographic longitude

YGeoPoint Properties and Methods

Lat	Latitude Property
Lon	Longitude Property
distance(point)	Return distance between YGeoPoint's
middle(point)	Return the middle point between two YGeoPoint's
equal(point)	Check if two YGeoPoints are equal

Simple Use Case: YImage

```
var myPoint = new YGeoPoint(37.431960114344,-
122.318194923401));
var myImage = new YImage();
myImage.srcImg =
'http://us.i1.yimg.com/us.yimg.com/i/us/map/gr/mt_ic_
c.gif';
myImage.sizeImg = new YSize(20,20);
myImage.offsetSmartWindow = new YCoordPoint(0,0);
var marker = new YMarker (myPoint, myImage);
map.addOverlay(marker);
```

Constructor: YImage Properties

srcImg	Image URL location
sizeImg	YSize object describing size of the image
offsetSmartWindow	Position of smartWindow relative to top,left
offset	Position of image relative to top,left
Width	The integer pixel width of the map
Height	The integer pixel height of the map

Constructor: YMapDistance

```
YMapDistance(distance, units?)
```

Parameters:

(1) **distance:** The distance length
(2) **units:** Distance Units (default "miles" but can be "kilometers")

Constructor: YAnnotation

```
YAnnotation(title,
   description,
   link?)
```

Parameters:

(1) **title:** title of the Map
(2) **description:** Description of the map
(3) **link:** URL where Map is hosted

Constructor: YSize

```
YSize(width, height)
```

Parameters:

(1) **width:** The integer pixel width of the map
(2) **height:** The integer pixel height of the map

YLog Methods

print(MESSAGE)
prints a message to the logger

initPos(YCoordPoint)
sets the initial position of the logger

initSize(YSize)
sets the initial size of the logger

YUtility Methods

containerResize (parentId, childId)

createNode(type, id)
Encapsulates document.createNode with an internally used property.

appendNode (parent, child)
Encapsulates document.appendChild with internally used property