An example of a DL Maproom Widget with Google Maps UI

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. . .

<link rel="stylesheet" type="text/css" href="/uicore/ol/ol.css" />
<link rel="stylesheet" type="text/css" href="/uicore/uicore.css" />
<link rel="stylesheet" type="text/css" href="/localconfig/ui.css" />

. . .

<script type="text/javascript" src="/uicore/ol/ol.js"></script>
<script type="text/javascript" src="/uicore/uicore.js"></script>
<script type="text/javascript" src="/localconfig/ui.js"></script>

. . .

<form id="pageform" . . .>
  . . .
  <input class="dlimg . . ." name="bbox" type="hidden"/>
  <input class="dlimgts . . ." name="region" type="hidden"/>
  <input class="pickarea1" name="resolution" type="hidden" data-default=".5"/>
  <input class="dlimg . . ." name="gmap" type="hidden"/>
  <input class="dlimgts . . ." name="gmapRect" type="hidden"/>
  . . .
</form>
. . .

<fieldset id="content" class="dlimage withMap">
 <link rel="iridl:hasFigure"
   href="/SOURCES/.UCSB/.CHIRPS/.v2p0/.monthly/.global/.precipitation/X/Y/fig-+colors+-fig//T/last/plotvalue/"/>
 <div style="height:700px; width: 100%; margin:6px;"/>
   <div id="map1" class="dlimgGMap" style="height:80%; width: 98.5%;">
 </div>


 <script>
 createGMapDLImage({

   id: 'map1',

   debug: false,

   mapOptions: { // https://openlayers.org/en/latest/apidoc/module-ol_Map-Map.html (except layers, target,
    view)
     moveTolerance: 1,
     . . .
   },

   viewOptions: { // https://openlayers.org/en/latest/apidoc/module-ol_View-View.html
     center: [ -71.373535, 18.61168 ], // [X,Y] in view projection units
     zoom: 3,
     projection: 'EPSG:4326',
     rotation: Math.PI / 4.0,
     . . .
   },

   layers: [
       { type: 'ol',
         name: 'OSM',
         opacity: 1.0,
         showOpacityControl: false,
         layer: new ol.layer.Tile({ source: new ol.source.OSM({wrapX: true}) }),
       }
       { type: 'iridl',
         name: 'CHIRPS',
         opacity: 0.2,
         url: '/SOURCES/.UCSB/.CHIRPS/.v2p0/.monthly/.global/.precipitation/X/Y/fig-+colors+-fig//T/last/plotvalue',
       } ,
       { type: 'ol',
         name: 'Vector',
         opacity: 1.0,
         showOpacityControl: true,
         layer: new ol.layer.Vector({ source: new ol.source.Vector({ url: 'https://iridl.ldeo.columbia.edu/
       dlcharts/render/88acd6f3edbfa119d4bbb5e8f2fa9bcf73ed8c7b', format: new ol.format.GeoJSON() }), style:
       function (feature, resolution) { return [squareStyle]; } }),
       }
       . . .
   ],
```

```
      mapClick: {
         type: 'marker', // none | click | marker | rectangle
         showFeature: true,
         moveOnClick: false,
         setBounds: true,  // sets bbox and gmap when bounds change
         marker: {
            draggable: false,
            position: [-71.0, 18.0], // [lon,lat] in EPSG:4326
         },
         rectangle: {
            bounds: [-73.0, 17.0, -69.0, 20.0], // [minX, minY, maxX, maxY] in EPSG:4326
            editable: false,
            draggable: false,
         }
      },
      featureClick: {
         type: 'click', // none | click | infoWindow
         makeInfoWindow: function (feature, layer) {
            return {};
         },
      }
});

</script>

<img style="height:0px; width: 100%;" border="0" class="dlimg"
 src="/SOURCES/.UCSB/.CHIRPS/.v2p0/.monthly/.global/.precipitation/X/Y/fig-+colors+-fig//T/last/plotvalue+.gif"/>
<br/><br/>

<img class="dlauximg"
   src="/SOURCES/.UCSB/.CHIRPS/.v2p0/.monthly/.global/.precipitation/X/Y/fig-+colors+-fig//T/last/plotvalue+.auxfig/+.gif"/>
<br/>

<img class="dlauximg"
   src="/SOURCES/.IRI/.MD/.IFRC/.CPC/.Merged_Analysis/.monthly/.v1201/.prcp_est/X/Y/fig-+colors+black+-fig//T/(Apr)/plotvalue+.auxfig/+.gif"/>

</fieldset>
```

DL Maproom Widget API

Option	Type	Default	Description
id	string	-	Unique id of Google Maps widget and corresponding GM div
debug	boolean	false	Debug mode turn on draws debug grid and debug output to the console
mapOptions	mapOptions	{}	Map options https://openlayers.org/en/latest/apidoc/module-ol_Map-Map.html (except layers, target, view)
viewOptions	viewOptions	{}	View options https://openlayers.org/en/latest/apidoc/module-ol_View-View.html
center	[X,Y]	[0,0]	View center in EPSG:4326
zoom	number	3	Zoom level
projection	string	EPSG:4326	Projection. Current version supports EPSG:4326 and EPSG:3857
rotation	number	0.0	Rotation angle in degrees
layers	[layerOptions]	-	Defines layers, the last layer has the highest z-order
type	"iridl" | "ol"	-	iridl' — only DL image are supported in this version
name	string	-	The name of the layer, this name is displayed on the map
opacity	number	-	Initial opacity of the layer
showOpacityControl	boolean	true	Show the opacity control for this layer
url	string	-	**If type = "iridl":** Ingrid url that will be appended with psdef and plotrange statements and "+.png", X and Y grids are expected, make sure that this url doesn't result in animated frames
layer	ol.layer.Layer	-	**If type = "ol":** http://openlayers.org/en/latest/apidoc/module-ol_layer_Layer-Layer.html
mapClick	mapClickOptions	-	Defines widget interactive features
type	"none" | "click" | "marker" | "rectangle"	"none"	Type of user interaction: **none** — no additional interactive features will be created **click** — mouse click on the map propagates to the maproom via variable 'region' **marker** — a marker is placed on the map, when the user moves the marker, the position is propagated to the maproom via variable 'region' **rectangle** — a rectangle is placed on the map, when the user moves or resizes the rectangle, the bounding box of the rectangle is propagated to the maproom via variable 'gmapRect'
showFeature	boolean	true	Show the interactive marker or rectangle on start

Option	Type	Default	Description
moveOnClick	boolean	true	Move the interactive marker or rectangl;e to the mouse click point
setBounds	boolean	false	Set variable 'bbox' and gmap (and maybe 'region') when the bounds of the map change (map move and zoom)
marker	markerOptions	-	The interactive marker options
position	[X,Y]	[0,0]	Position in EPSG:4326
draggable	boolean	true	Marker can be dragged
rectangle	rectangleOptions	-	The interactive rectangle options
bounds	[minX, minY, maxX, maxY]	[0,0,1,1]	Extent in EPSG:4326
draggable	boolean	true	Rectangle can be dragged
editable	boolean	true	Rectangle can be resized. Currently not supported.
featureClick	"none" | "click" | "infoWindow"	none	Defines what happens when a user clicks on a feature: **none** — nothing happens **click** — mouse click on the feature propagates to the maproom via variable 'region' **infoWindow** — the infoWindow is opened
type	"none" | "click" | "infoWindow"	click	Defines what happens when a user clicks on a feature: **none** — nothing happens **click** — mouse click on the feature propagates to the maproom via variable 'region' **infoWindow** — the infoWindow is opened
makeInfoWindow	function (feature, layer) -> HTML	-	This callback will be called for a feature when infoWindow will need to be opened.