

Historic Locations with Google Maps using XML from CONTENTdm



*Henry Bankhead Los Gatos Library
CONTENTdm Western UGM
Reno, NV June 5 2009*

The Google Maps Part

- Obtain Google Maps API key with a Google Account specifying your web address.
- <http://code.google.com/apis/maps/signup.html>
- Check out tutorial at: <http://econym.org.uk/gmap/>

The HTML file calls the XML file

- Interaction of two create the map
- HTML creates map look and feel
- XML contains the data for the locations
- Easy to add data to the XML file that updates in the HTML map

Key elements in the HTML File:

- API Key
http://maps.google.com/maps?file=api&v=2&key=ABQIAAAAPDUET0Qt7p2VcSk6JNU1sBRRwPhutbWBmyj82Go_H6JIE7EvFBSKFFFHFePAwwib9UM0geoA3Pgafw
- Width and height (of map)
- Center of map = latitude and longitude coordinates
- Resolution (numerical scale)
- Path to the XML file
- HTML file link
 - http://historylosgatos.org/example_map_xml.html

Options

- Sidebar
- `GEvent.addListener`
 - Click
 - Mouseover
- Type of map--code says:
`map.setMapType(G_NORMAL_MAP);`
 - Hybrid = `G_HYBRID_MAP`
 - Satellite = `G_SATELLITE_MAP`
 - Street = `G_NORMAL_MAP`

XML File Format

```
<?xml version="1.0" encoding="utf-8"?>
```

```
<markers>
```

```
<Marker
```

Point = latitude and longitude

Label = Label or name

HTML = images, links etc.

```
/>
```

```
</markers>
```

XML file

- In XML you have to replace `<` and `>` with `<` and `>`; Also the `&` symbol with `&`;
- The html can be anything you want. Image, link text etc
- Image needs width and height.
- Repeat what is in `<marker/>` element for each location.

Example of XML Markers

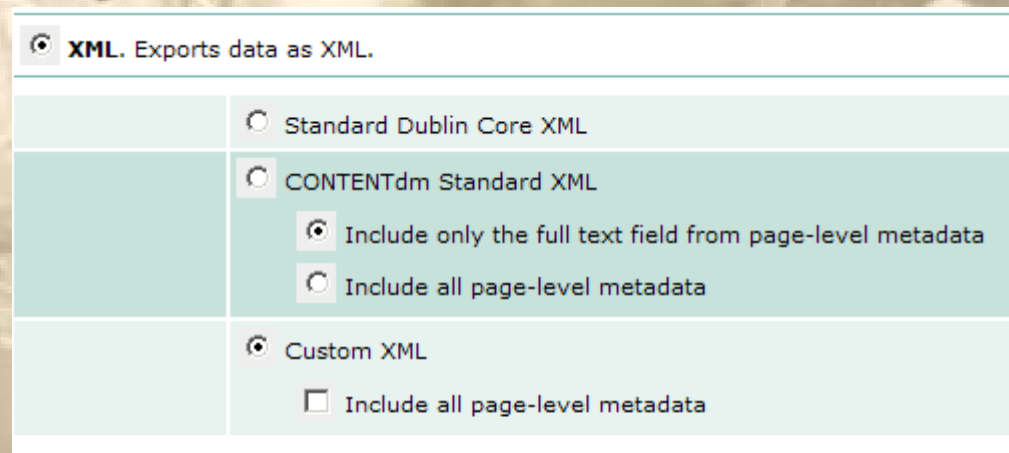
- `<marker lat="37.228542" lng="-121.981897" html='237 Almendra Ave

details page' label="237 Almendra Ave" />`
- `<marker lat="37.228436" lng="-121.982274" html='259 Almendra Ave

details page' label="259 Almendra Ave" />`

How to Create the XML file

- Export XML for collection from CONTENTdm admin
- Before you do so add “lat” and “lng” fields to collection
- Add data using Geocoder <http://geocoder.us/> or other GPS locator
- lat=37.221044 ° long = -121.979368 ° format
- Export as “custom XML” from **Collections** tab



The screenshot shows a dropdown menu for exporting data as XML. The menu is titled "XML. Exports data as XML." and contains three main options: "Standard Dublin Core XML", "CONTENTdm Standard XML", and "Custom XML". The "Custom XML" option is selected. Under "CONTENTdm Standard XML", there are two sub-options: "Include only the full text field from page-level metadata" (selected) and "Include all page-level metadata". Under "Custom XML", there is one sub-option: "Include all page-level metadata" (unchecked).

XML. Exports data as XML.	
<input type="radio"/>	Standard Dublin Core XML
<input type="radio"/>	CONTENTdm Standard XML
<input checked="" type="radio"/>	Include only the full text field from page-level metadata
<input type="radio"/>	Include all page-level metadata
<input checked="" type="radio"/>	Custom XML
<input type="checkbox"/>	Include all page-level metadata

Massage your XML

- Find/replace in XML editor or Dreamweaver to add links and thumbnails to achieve correct format.
- Make sure to < and > with < and >; Also the & symbol with &
- XML file
 - http://historylosgatos.org/history_xml_ed.xml

Add to CONTENTdm

- I used iframe and mimicked PHP layout w/ html
- There is probably a better, PHP way to do so also.
- http://historylosgatos.org/historic_homes.html

Conclusion

- This is the easy way to create a Google maps mashup with CONTENTdm.
- Anyone can do it!
- Questions?
- Henry Bankhead
Principal Librarian
Los Gatos Public Library
408-354-6800
hbankhead@losgatosca.gov