

GMapCreator and MapTube

Web-Based Mapping for Sharing and Visualising Geographic Information

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GMapCreator

The GMapCreator is an application that makes working Google Maps websites from thematic data in shapefiles. It is designed as a presentation tool for large datasets.

[Making a Map with GMapCreator](#)

MapTube is a website for sharing maps and combining data more easily. Simply place the map tiles and settings file onto a web server and upload the map to MapTube.

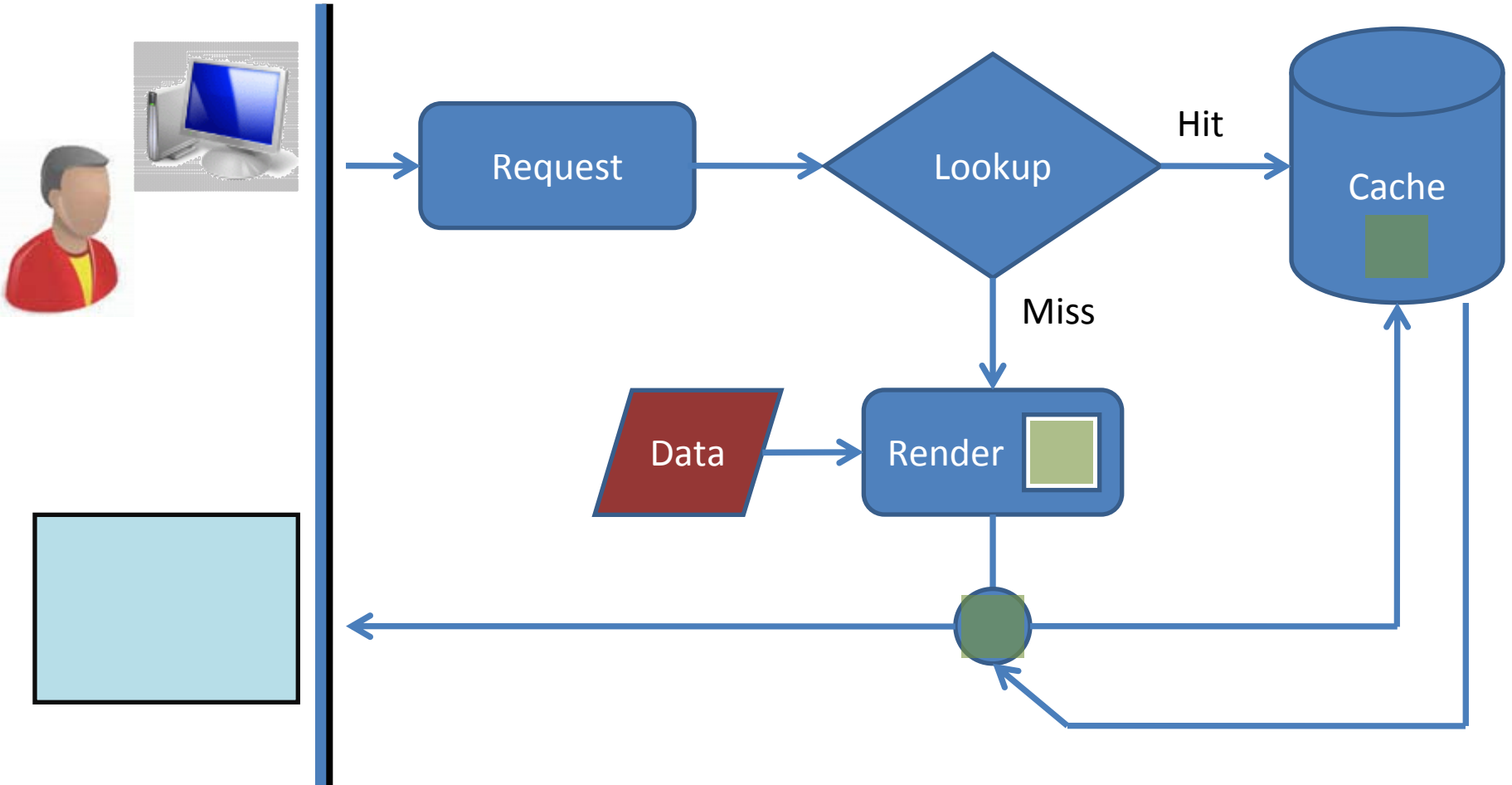
[Uploading to MapTube](#)

It also works with KML files which you can create using Google's MyMaps.

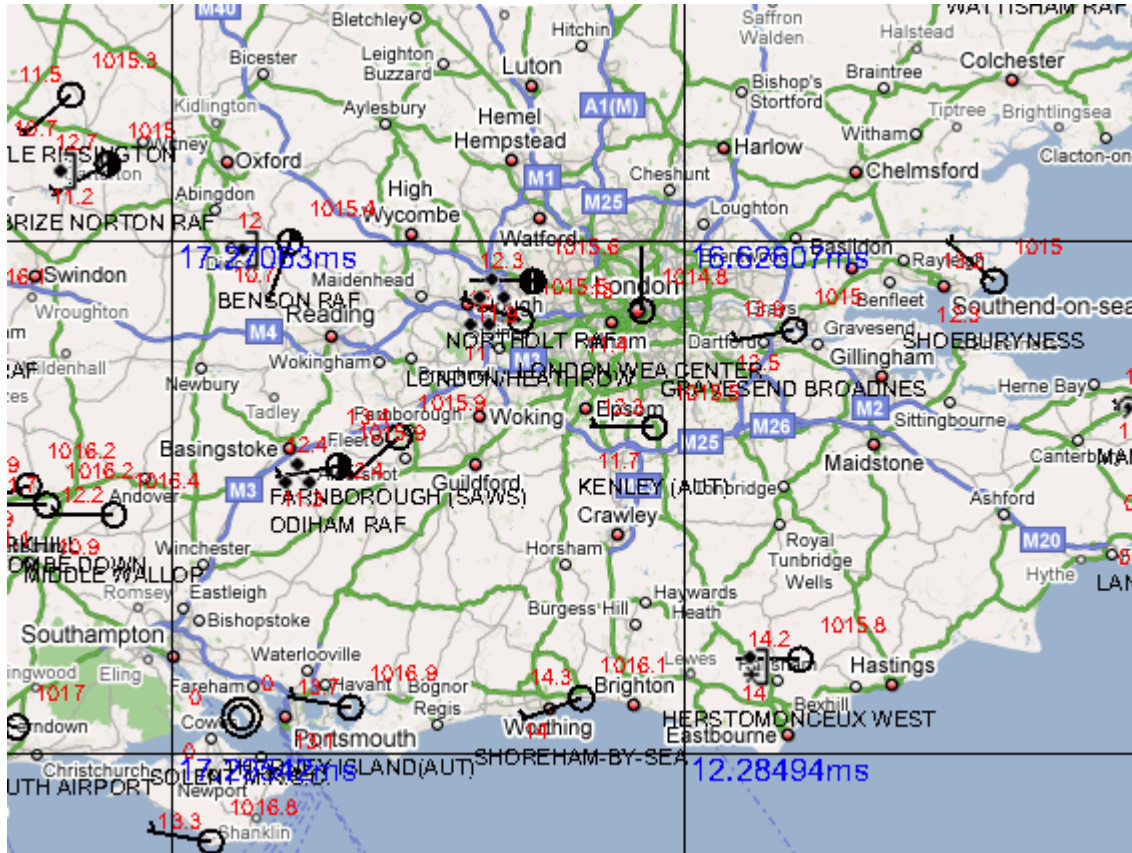
MapTube Demo



Request, Render, Cache



On the Fly Rendering and Caching

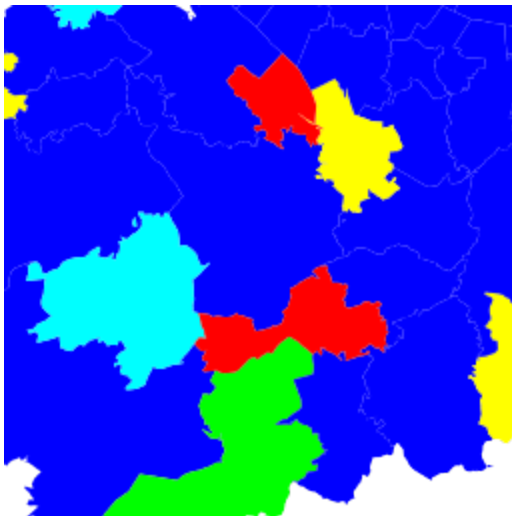


It's Sunday, it's overcast and it's raining heavily in London. At least I'm not in Eastbourne though, as they had sleet recently.

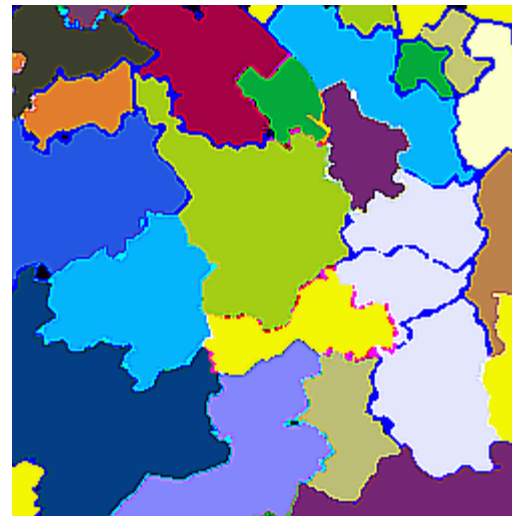
12Z October 26th 2008

Web GIS and Interactivity

Manchester Congestion Charge



Display Tile



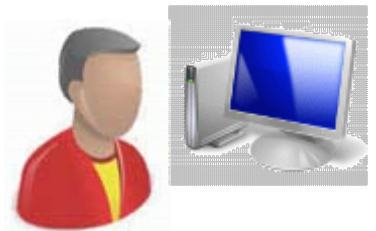
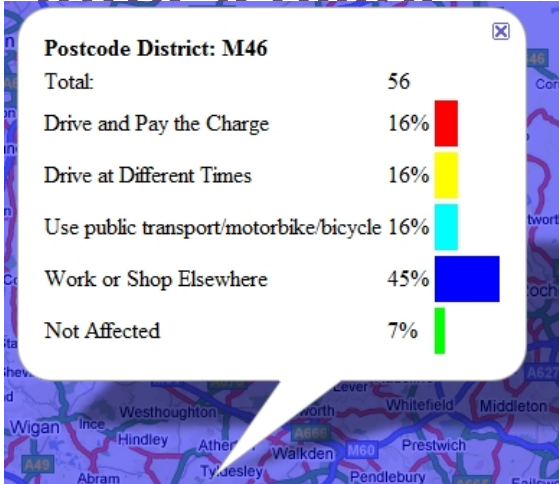
Feature Tile
(links every pixel to
a unique feature ID
code)

Attribute Data

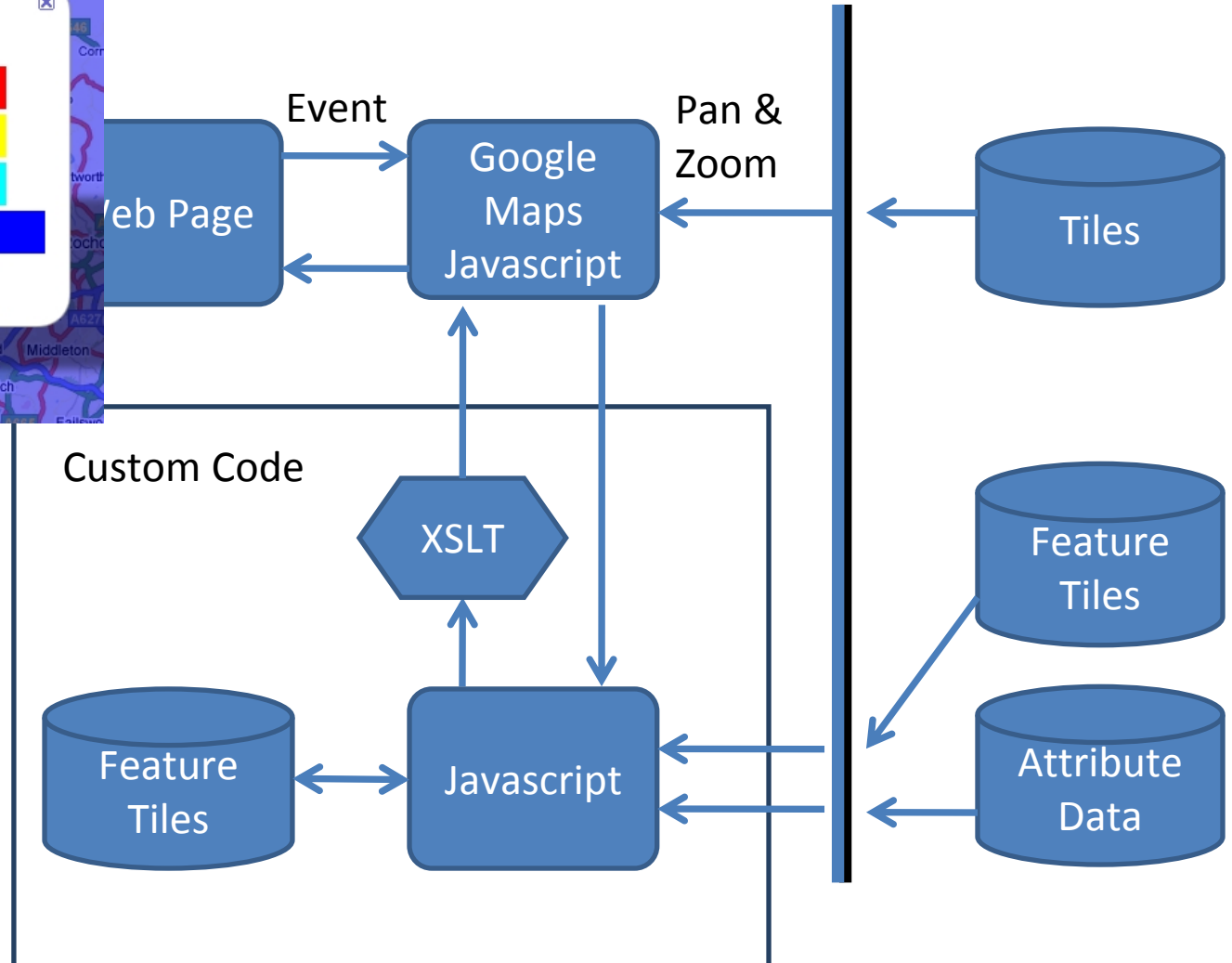
Fid	1510
District	M41
MaxClass	3
Total	349
PCTDrivePay	20.63
PCTDiffTimes	18.62
PCTPublicTrans	11.75
PCTElsewhere	44.13
PCTNotAffected	4.87

Feature XML File
(one for every feature)

Interactivity



Examples:
OAC
Congestion



OpenLayers and GMapCreator

<http://openlayers.org/>

HTML Template

Data Formats:

GML, KML,

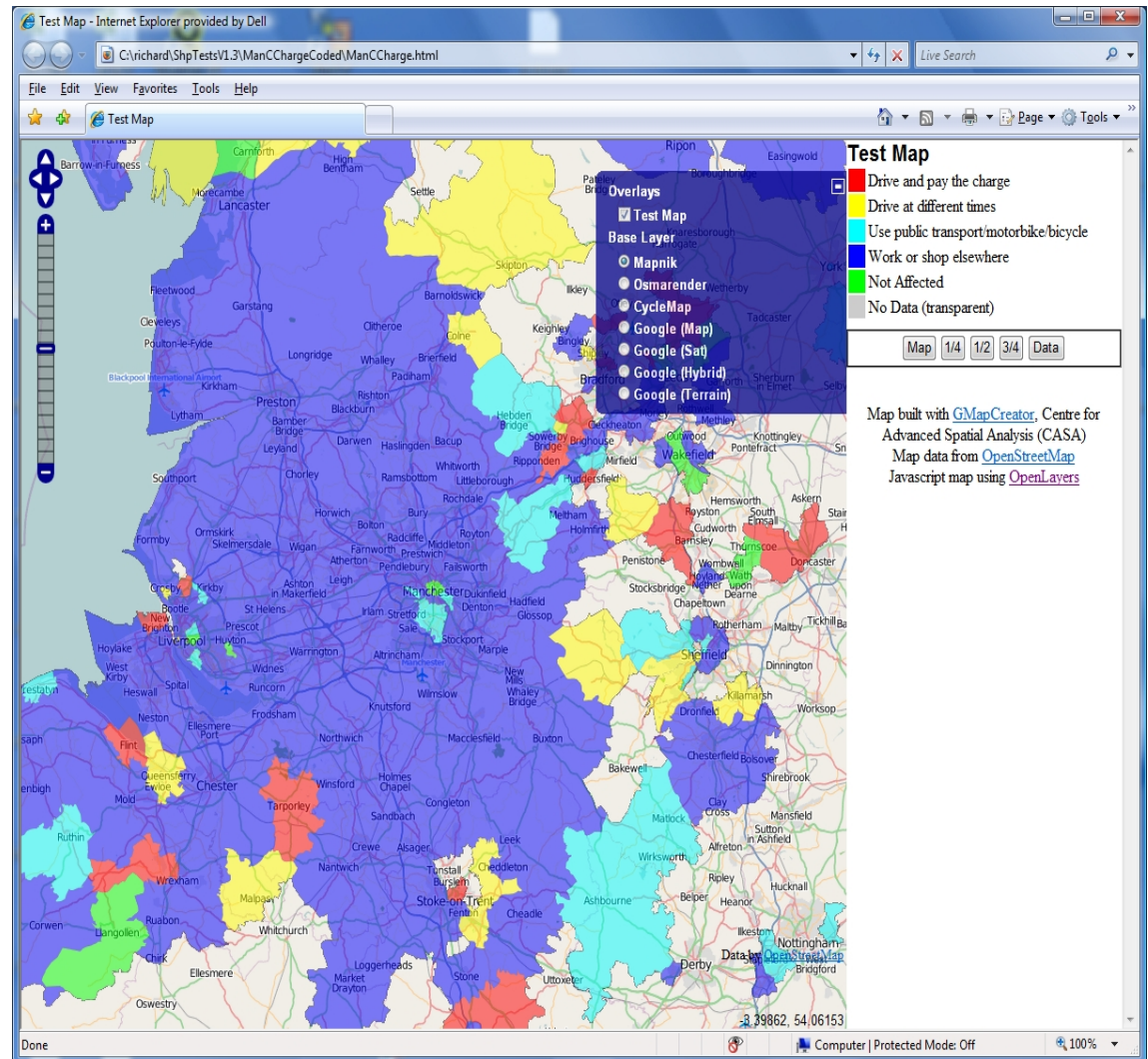
WMS, WFS,

WorldWind,

Yahoo, Virtual

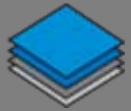
Earth, Google,

OpenStreetMap



Map built with [GMapCreator](#), Centre for
Advanced Spatial Analysis (CASA)
Map data from [OpenStreetMap](#)
Javascript map using [OpenLayers](#)

OpenLayers and MapTube



OpenLayers



How easy is it to stick the two together?

Current Technology and the Future



- Java
 - GMapCreator, Geotools, OGC



- Flash
 - Google Maps API for Flash

- Native browser plugin
 - Virtual Earth and Google Earth



- Google Apps
- Google Native Client