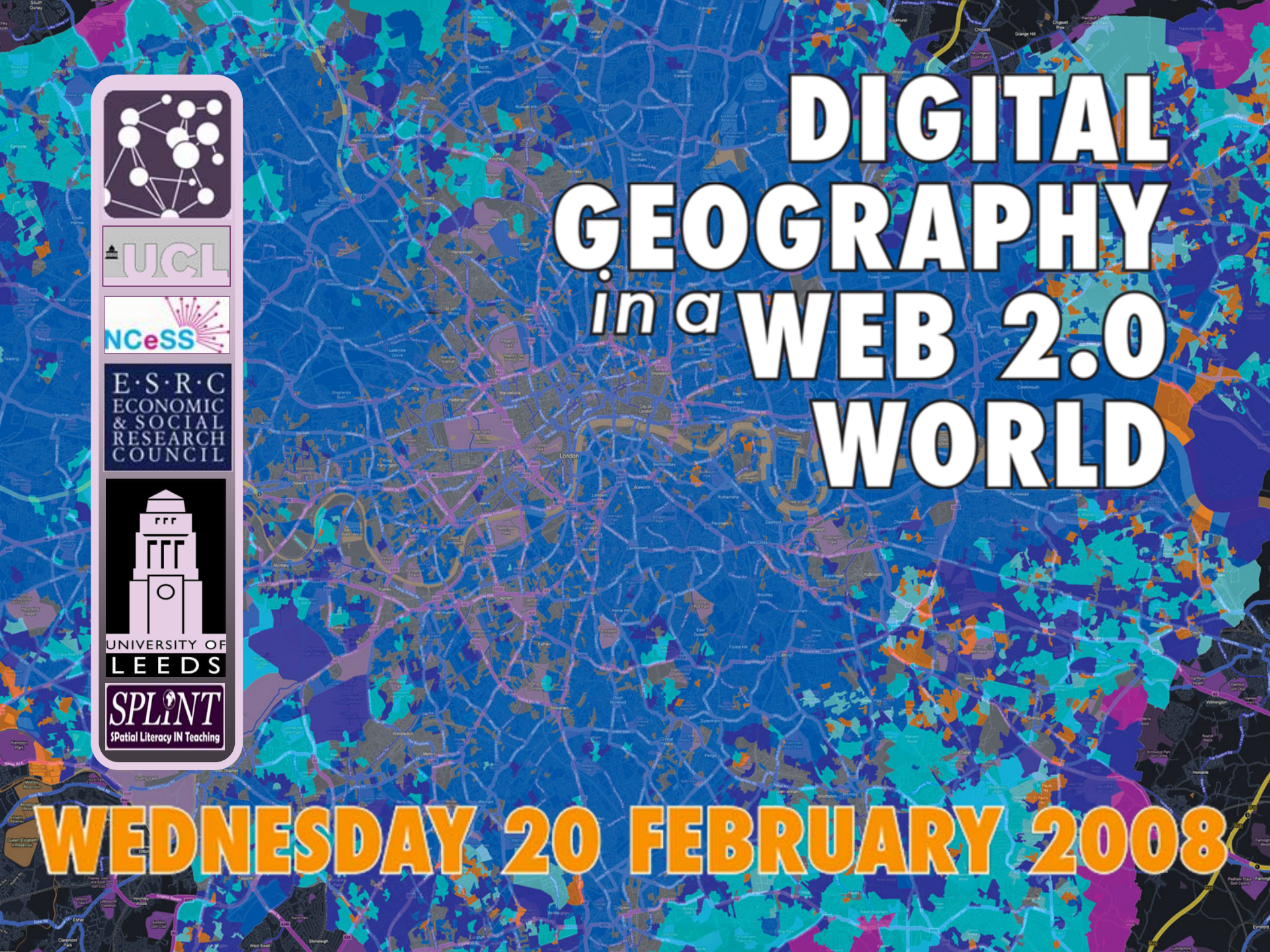
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SPatial Literacy IN Teaching
DIGITAL GEOGRAPHY in a WEB 2.0 WORLD
WEDNESDAY 20 FEBRUARY 2008

GMapCreator and MapTube

Web-based mapping services for sharing and visualizing geographic information.

Richard Milton & Andy Hudson-Smith

University College London
http://www.casa.ucl.ac.uk

Software tools developed and released

1. Image Cutter
2. Photo Overlay Creator
3. GMapCreator

Released today:

MAPTUBE
a place to put maps

To be released:

5. Google Earth Creator

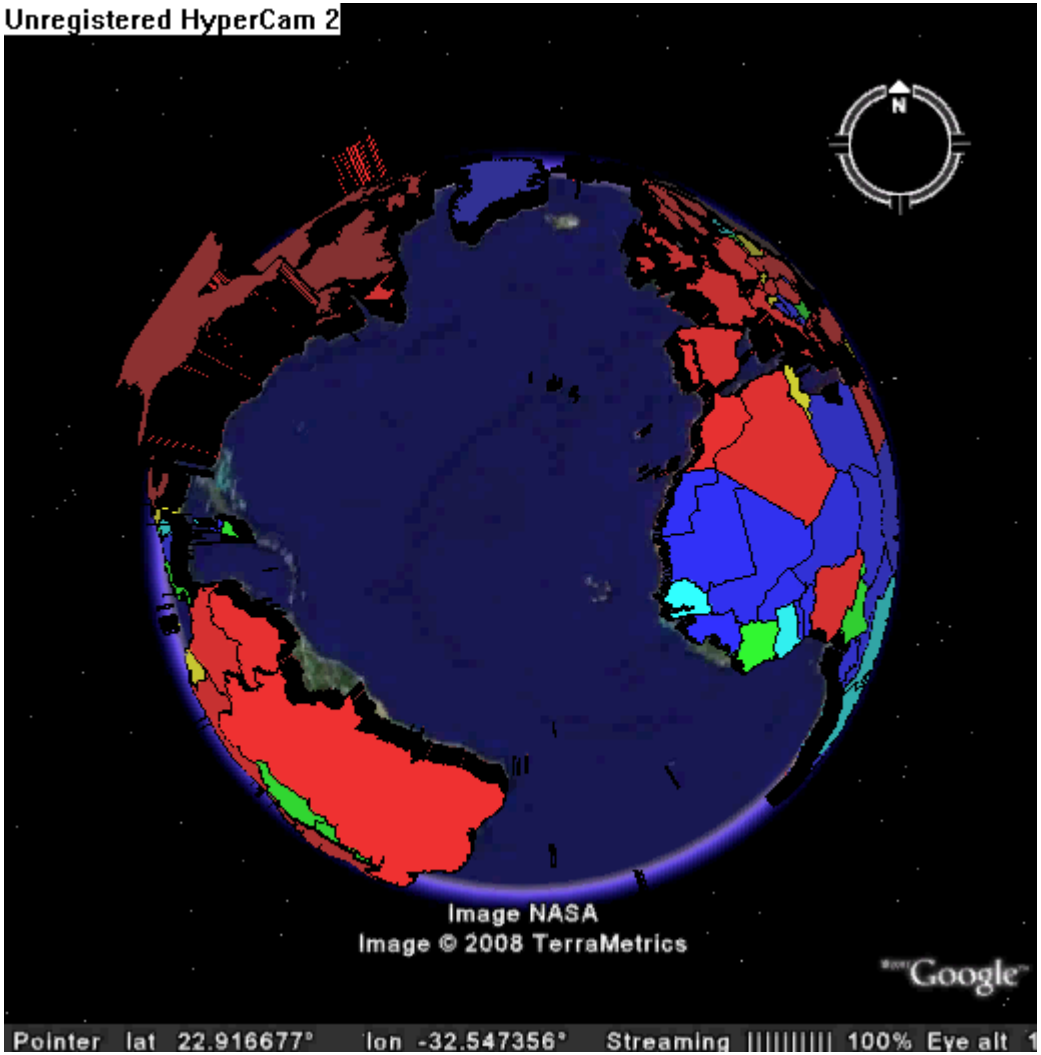
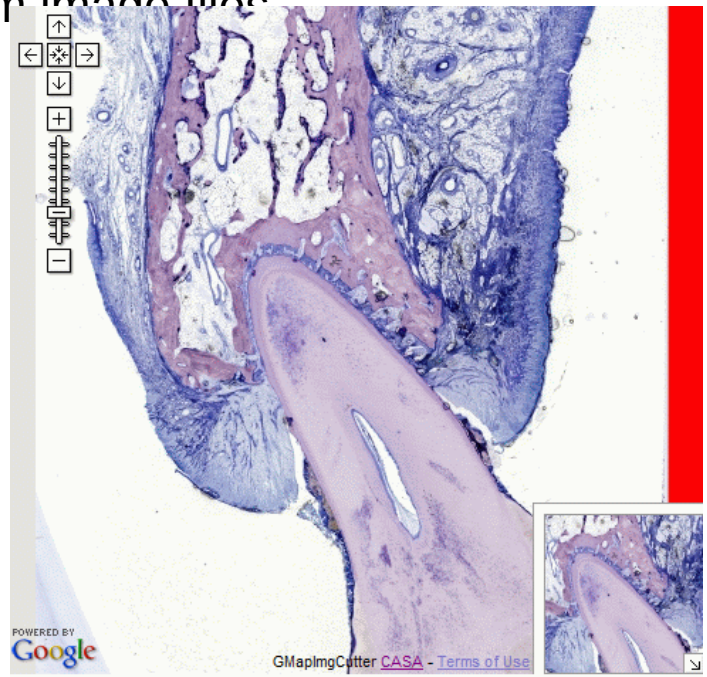


Image Cutter

Generates Google Maps web sites from image files

Union Square Building

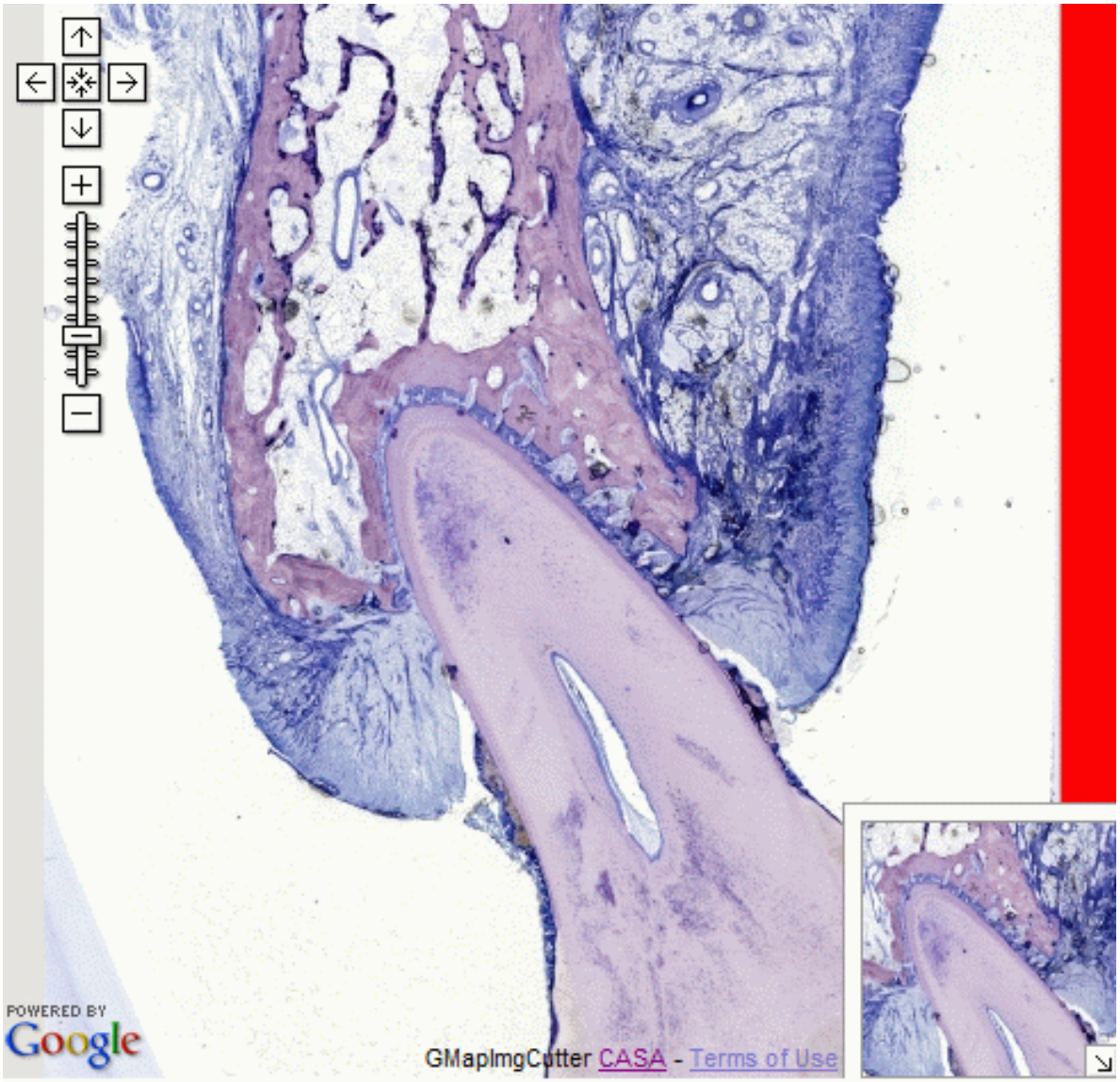


Microscope Image of a Tooth

Image Cutter

Microscop
e Image of
a Tooth

[click on the image to see a demo] →

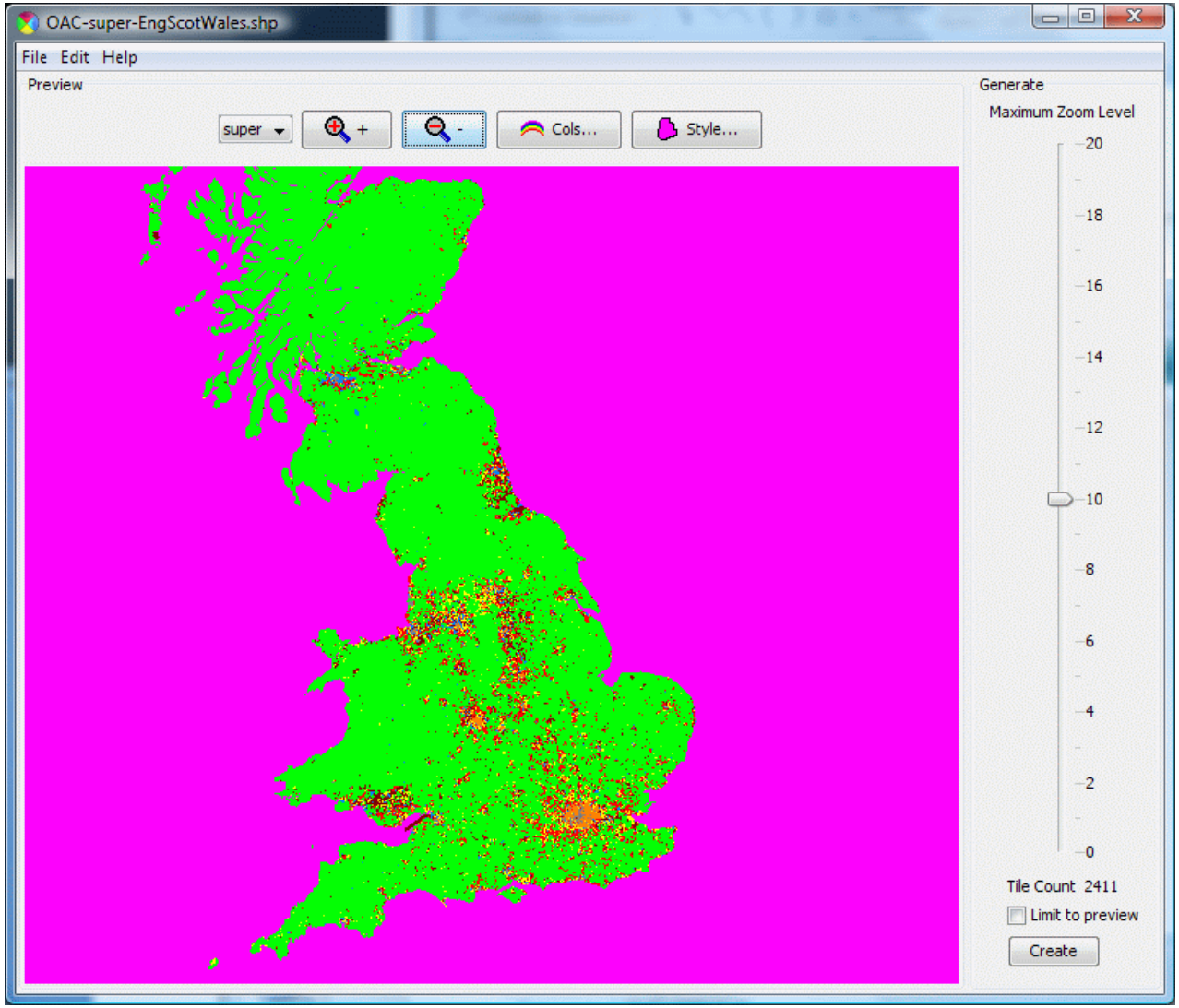


GMapCreator

The Google Map Creator creates Google Maps websites from thematic data contained in shapefiles.

DEMO

[Please click on the picture to see a demo] →



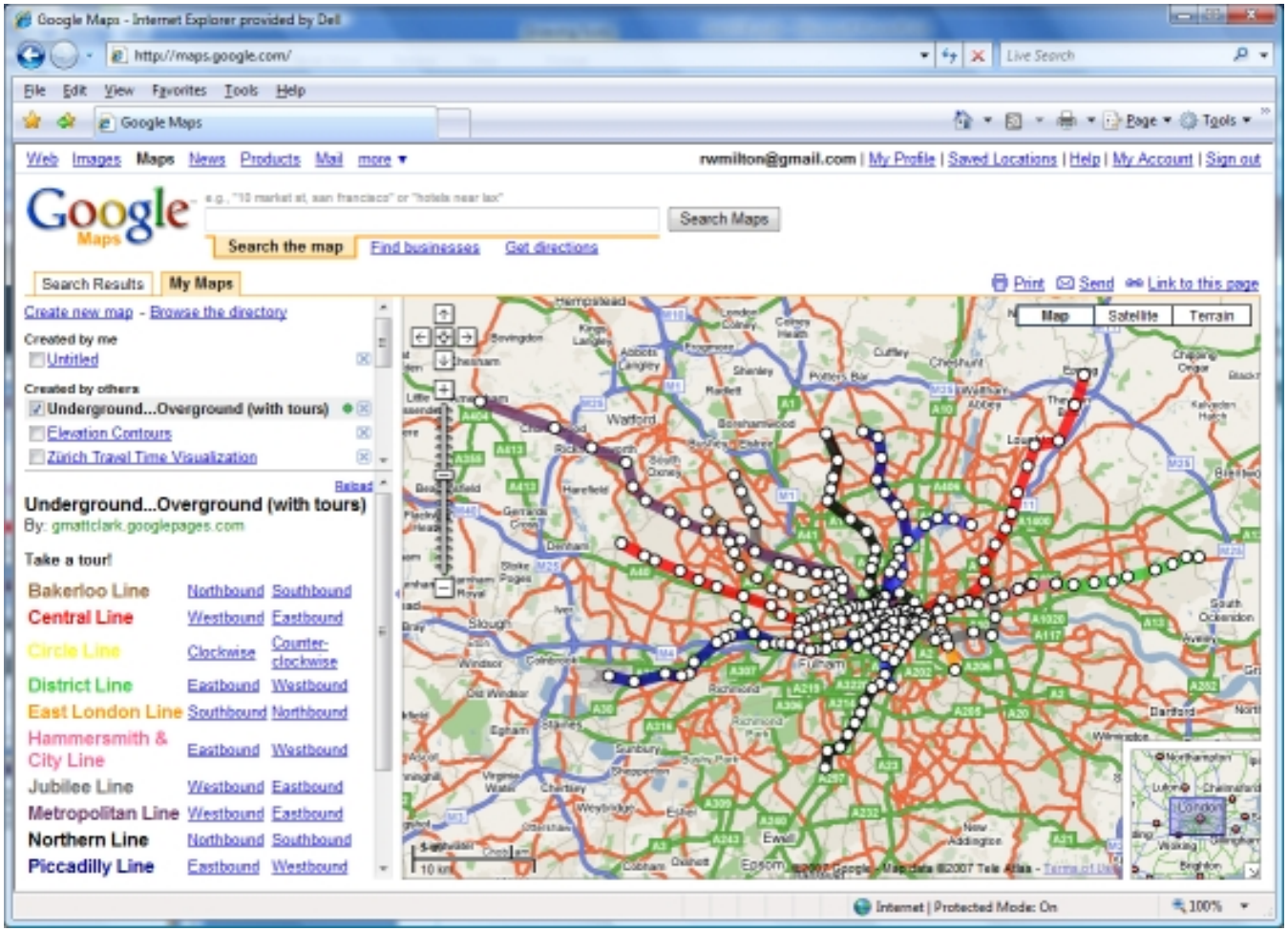
Moving from Single Maps to Shared Maps

A Google Mapplet showing the London Tube Map.

Mapplets use KML and Javascript. The data is stored on the web server and downloaded.

KML files are limited to 1MB.

The Google Earth Creator can make the KML files.



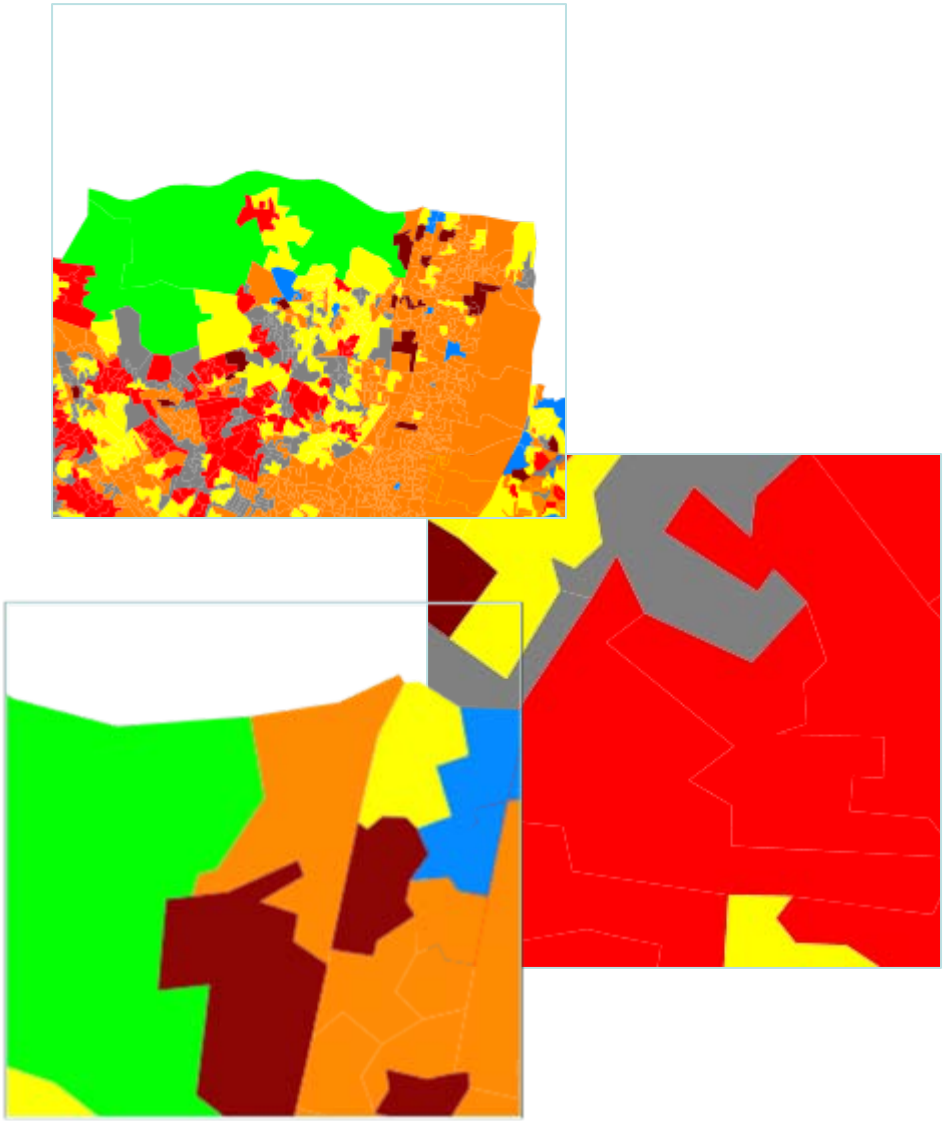
MapTube

MapTube takes a tile based approach to allow it to handle large amounts of data.

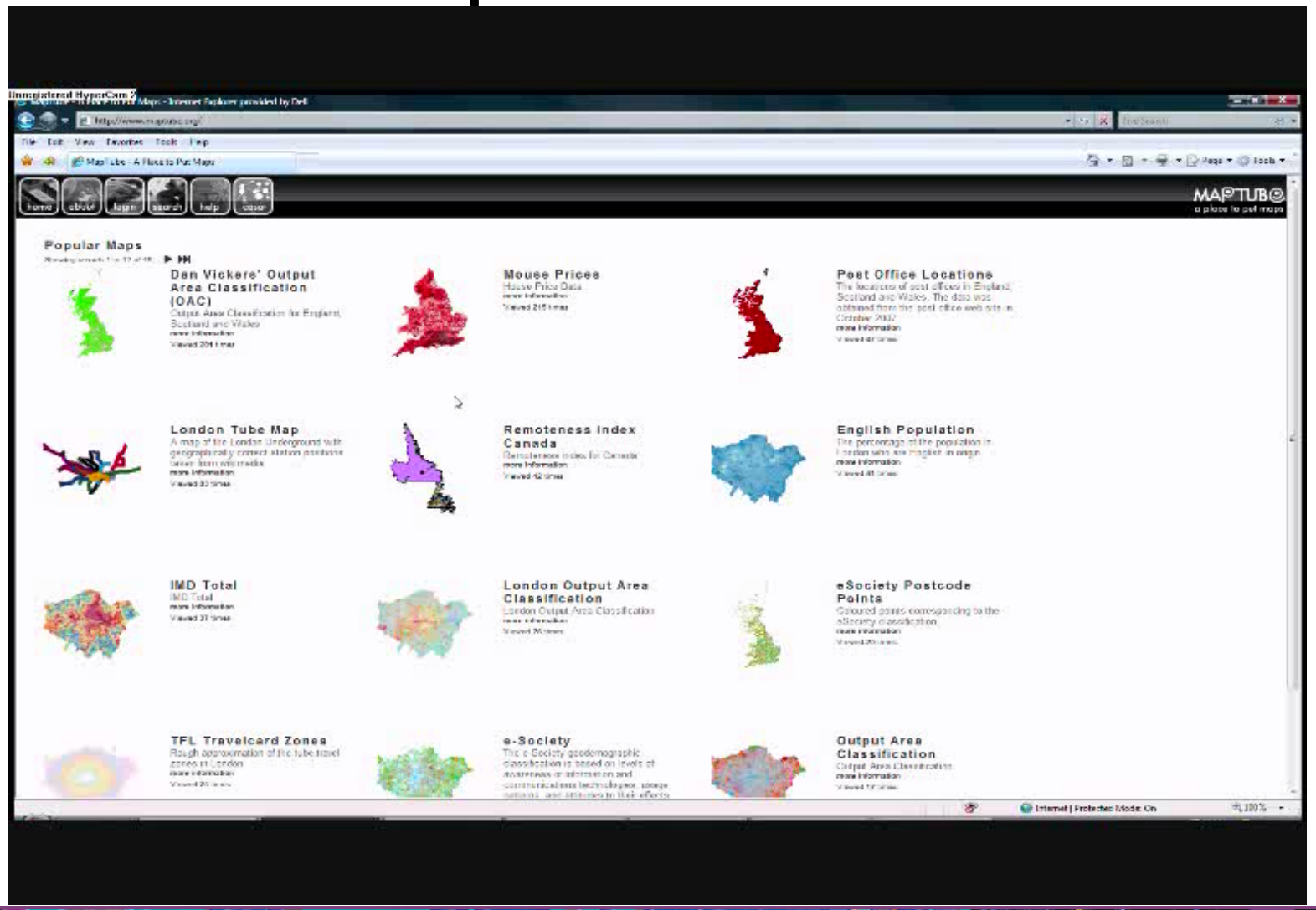
Maps are distributed across the Internet and transferred as image tiles.

A MapTube map is defined as a colour scale, geographic extent and tile URL.

http://www.maptube.org/



Maptube Demo



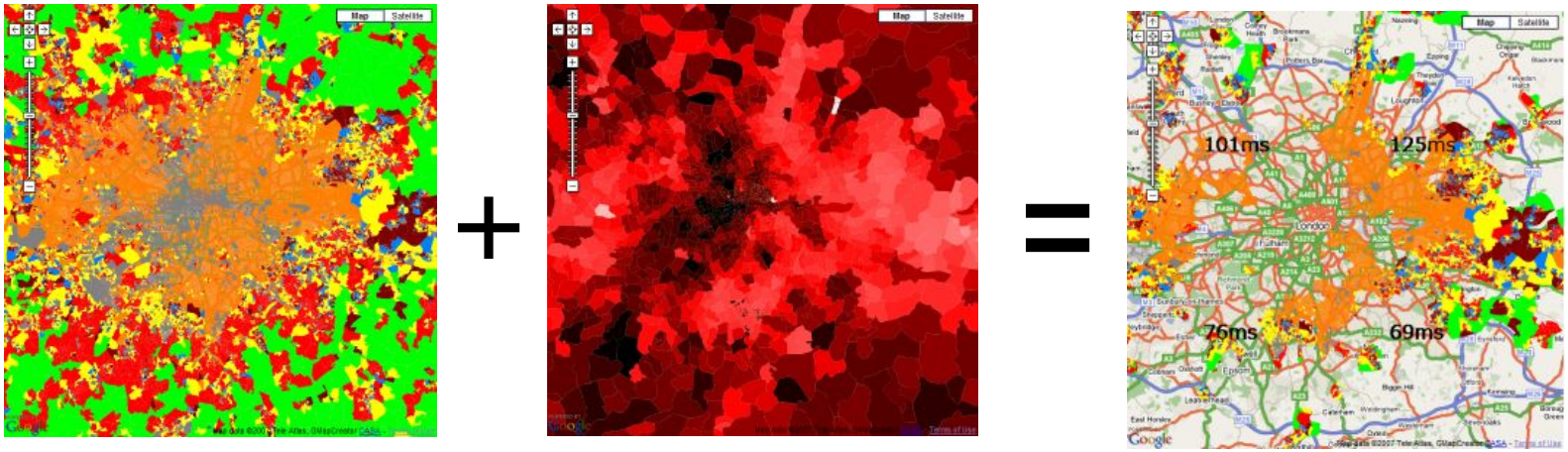
The Future

The Google Earth Creator, Mapplets and overlays on MapTube?

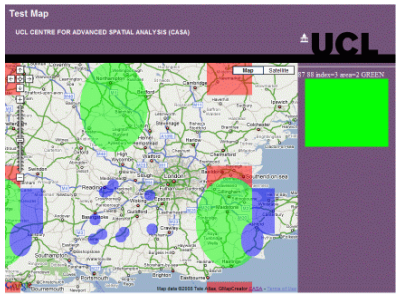
Moving Towards Web GIS...

More advanced visualisation of tile layers

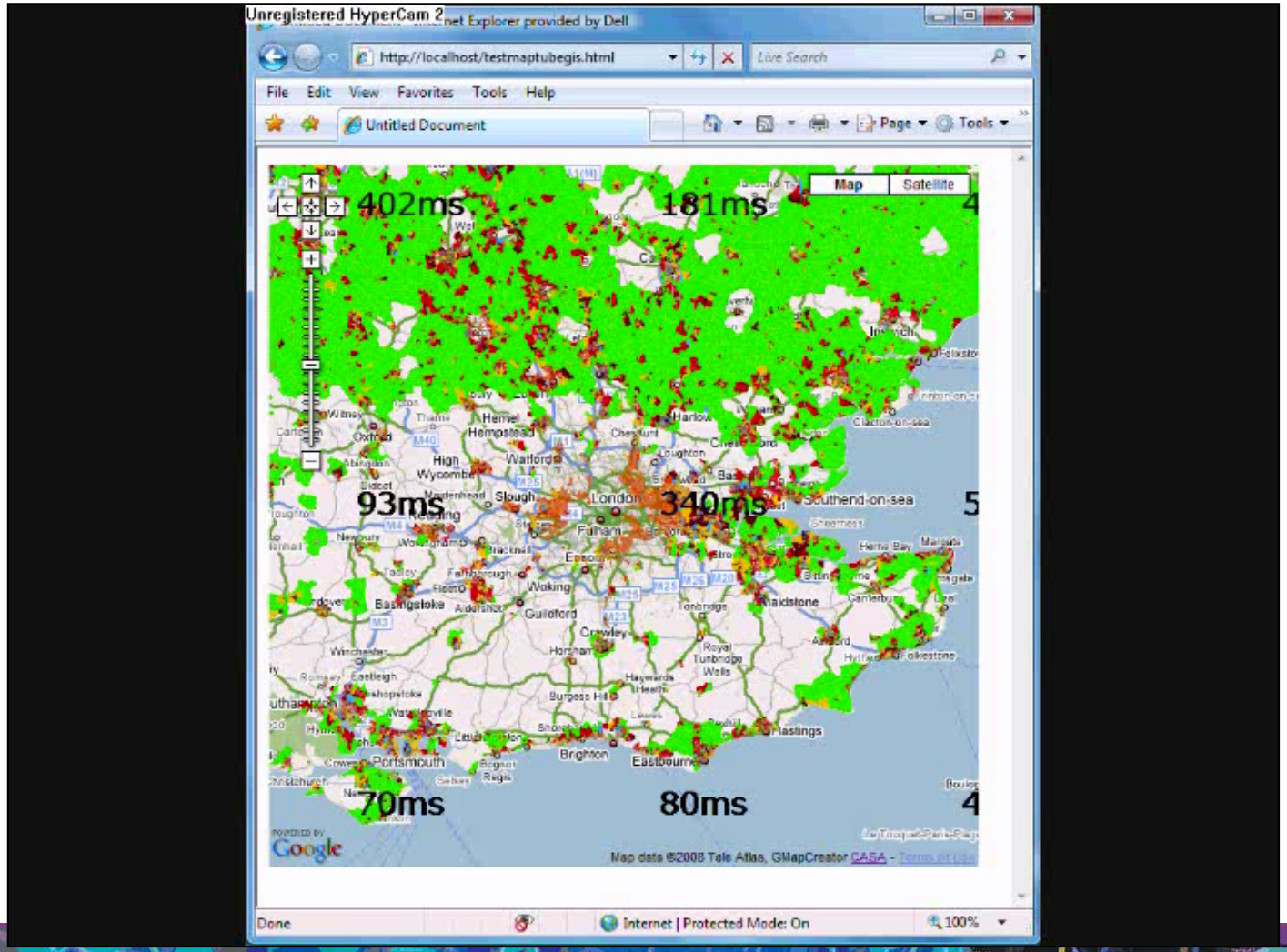
(OAC where house prices are less than 300,000 pounds).



Mouse over and interaction with the data

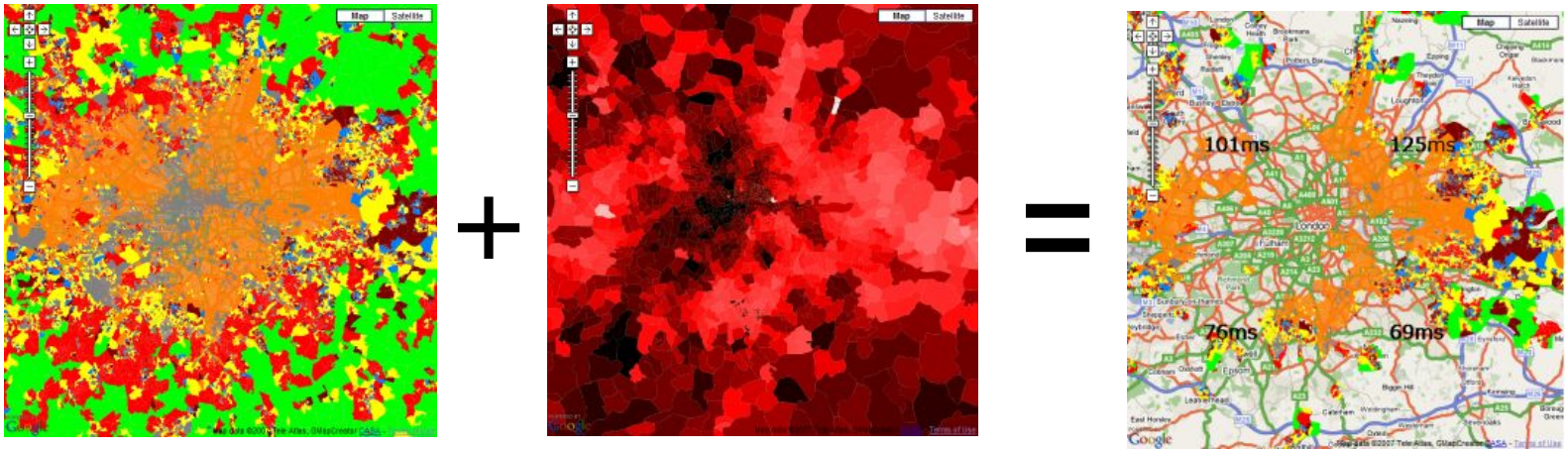


Moving Towards Web GIS... (more advanced visualisation)

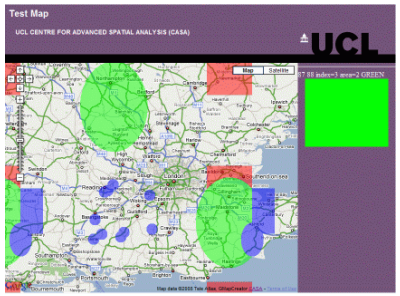


Moving Towards Web GIS...

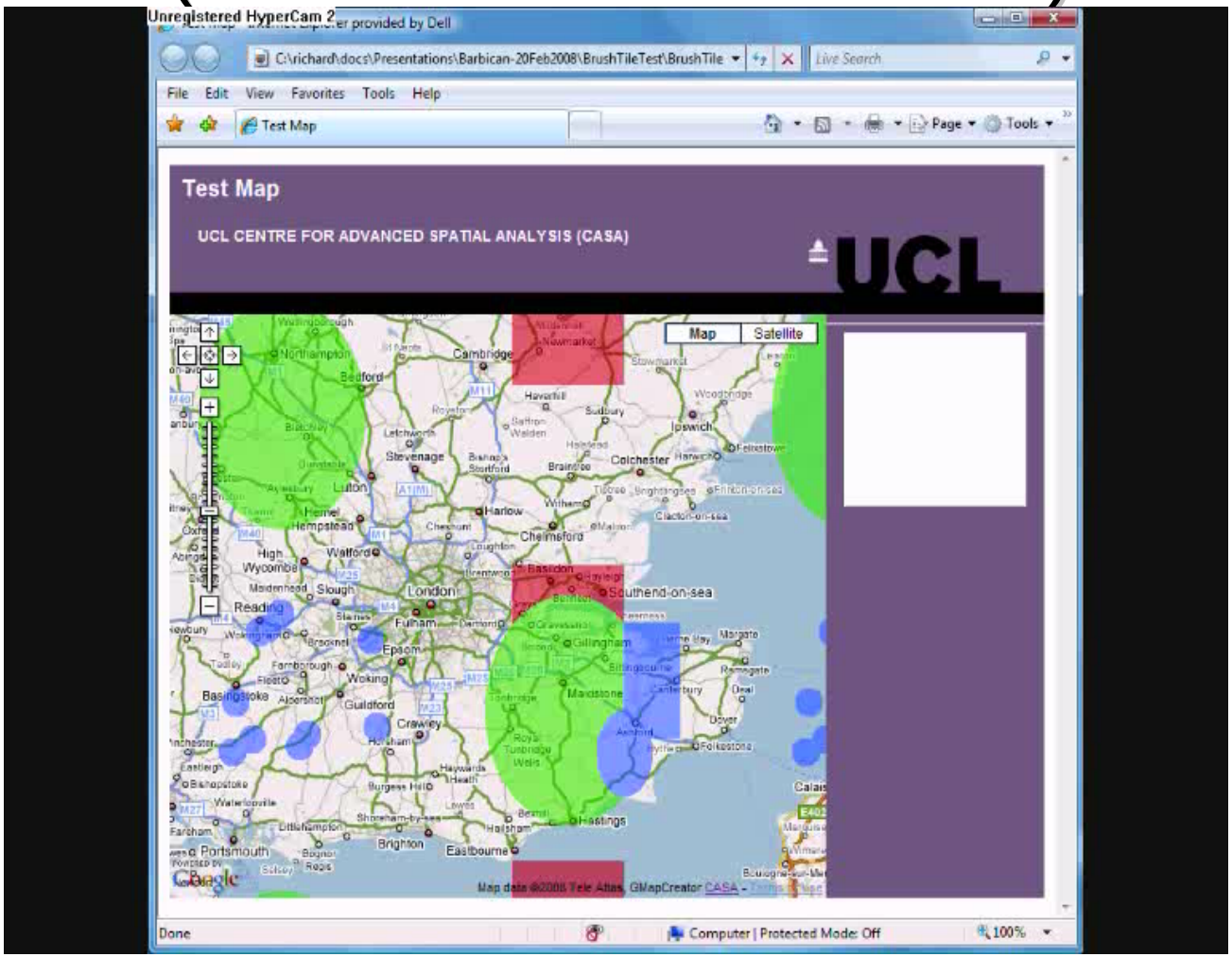
More advanced visualisation of tile layers
(OAC where house prices are less than 300,000 pounds).

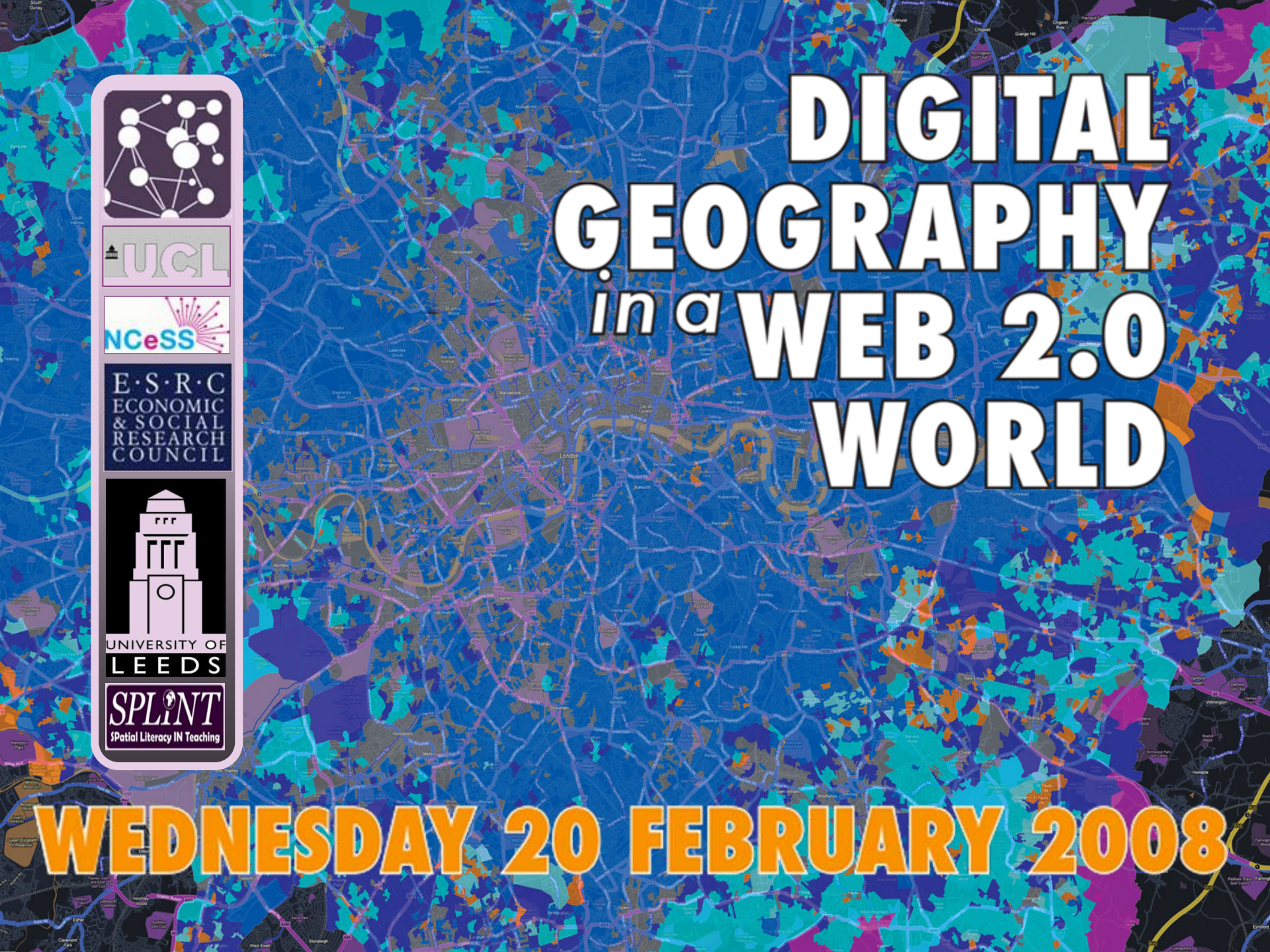


Mouse over and interaction with the data



Moving Towards Web GIS... (interaction with the data)

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