Google Maps API

UK geospatial mash-up
2006-10-20

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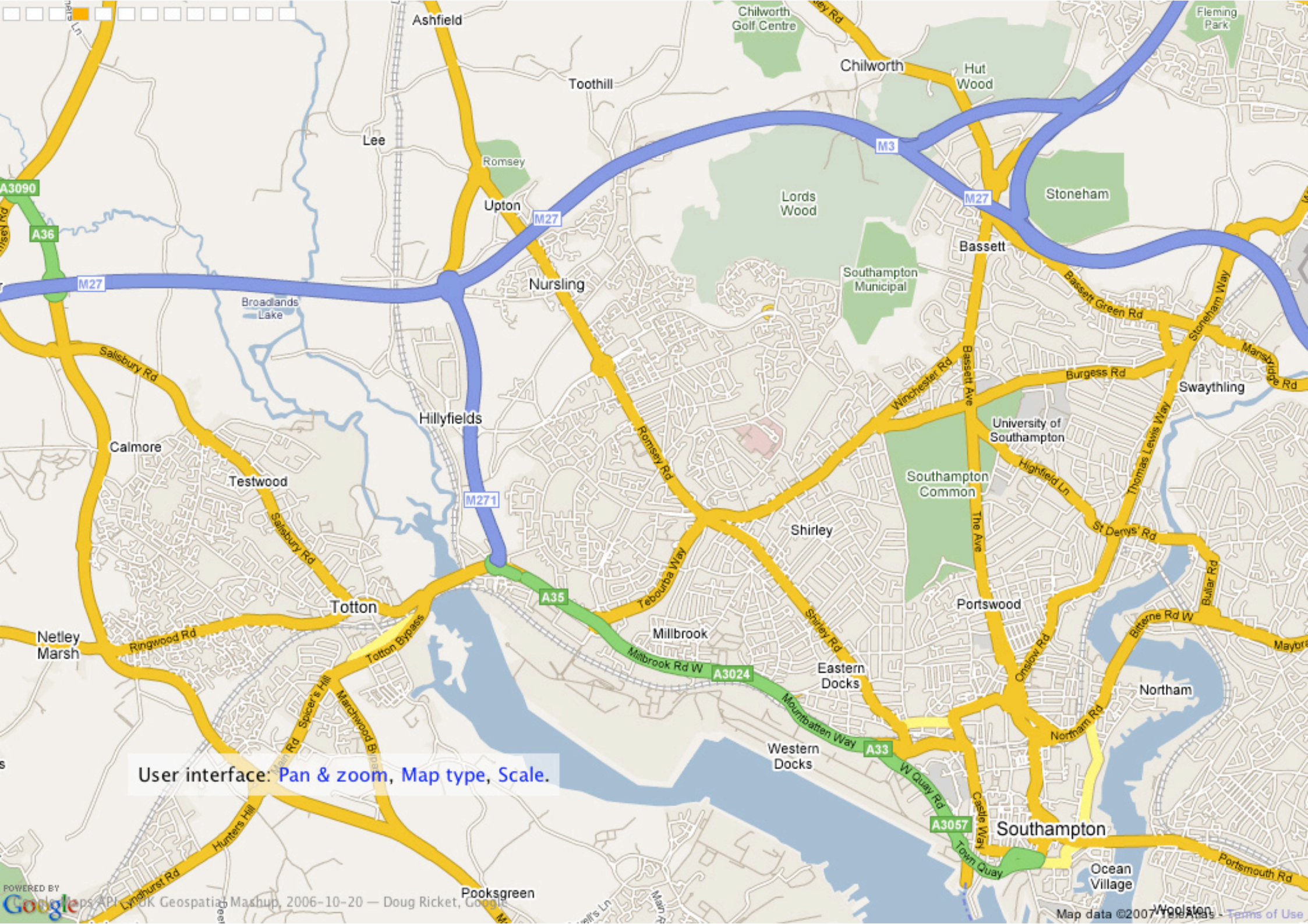**Slides originally by Steffen Meschkat**

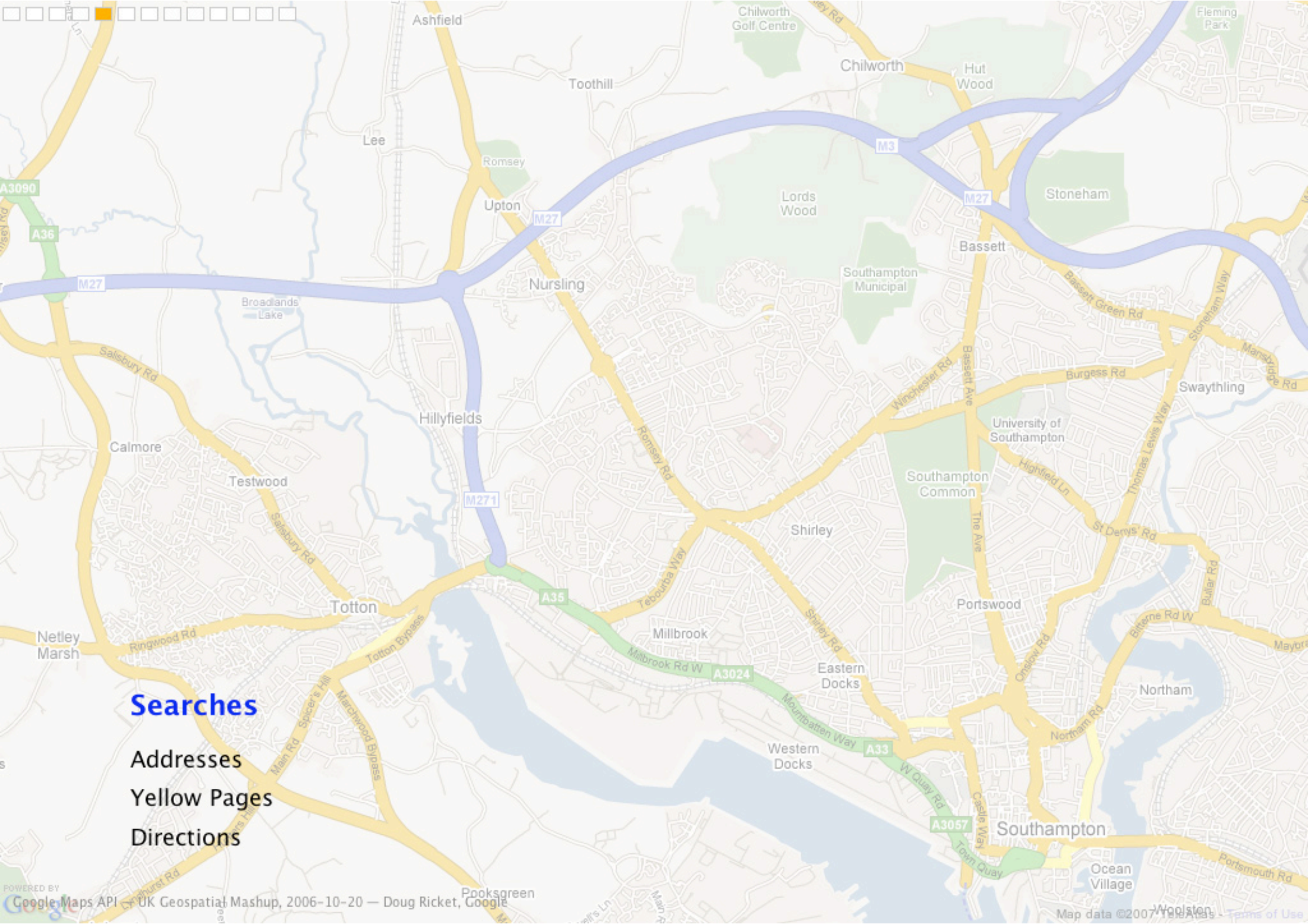# 1. Introduction

Google Maps: 1.5 Year Old

Me: 1 year old

This Workshop: Overview, Examples, Exercises

2. Google Maps

Coverage: USA, Canada, UK, Japan, Everywhere

Types: Street Maps, Satellite/Aerial Imagery, Both

User interface: Zoom, Pan, Map type, Scale, Overview

Content: Markers, Lines, Infowindows

Ashfield

Chilworth Golf Centre

Chilworth

Hut Wood

Fleming Park

Toothill

M3

Lee

Romsey

Stoneham

A3090

Upton

M27

M27

Lords Wood

Bassett

A36

Nursling

Southampton Municipal

Bassett Green Rd

Stoneham Way

Mansbridge Rd

Broadlands Lake

M27

Winchester Rd

Bassett Ave

Burgess Rd

Swaythling

Hillyfields

Romsey Rd

University of Southampton

Highfield Ln

Thomas Lewis Way

Calmore

St Denys' Rd

Butler Rd

Testwood

Southampton Common

Bitterne Rd W

Salisbury Rd

M271

Shirley

Portswood

Onslow Rd

Netley Marsh

Salisbury Rd

Tebourba Way

Shirley Rd

A35

Northam

Ringwood Rd

Totton

Millbrook

Eastern Docks

Millbrook Rd W

A3024

Mountbatten Way

Nortam Rd

Totton Bypass

Spicer's Hill

Marchwood Bypass

Western Docks

A33

W Quay Rd

Ocean Village

Lyndhurst Rd

Hunters Hill

Castle Way

Town Quay

Southampton

A3057

Pooksgreen

Portsmouth Rd

Woolston

User interface: Pan & zoom, Map type, Scale.

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Searches

Addresses

Yellow Pages

Directions

3. API Examples

My Weathermap vs. WeatherBonk.com

HousingMaps.com

NPR.org/stations

Maps.WebFoot.com
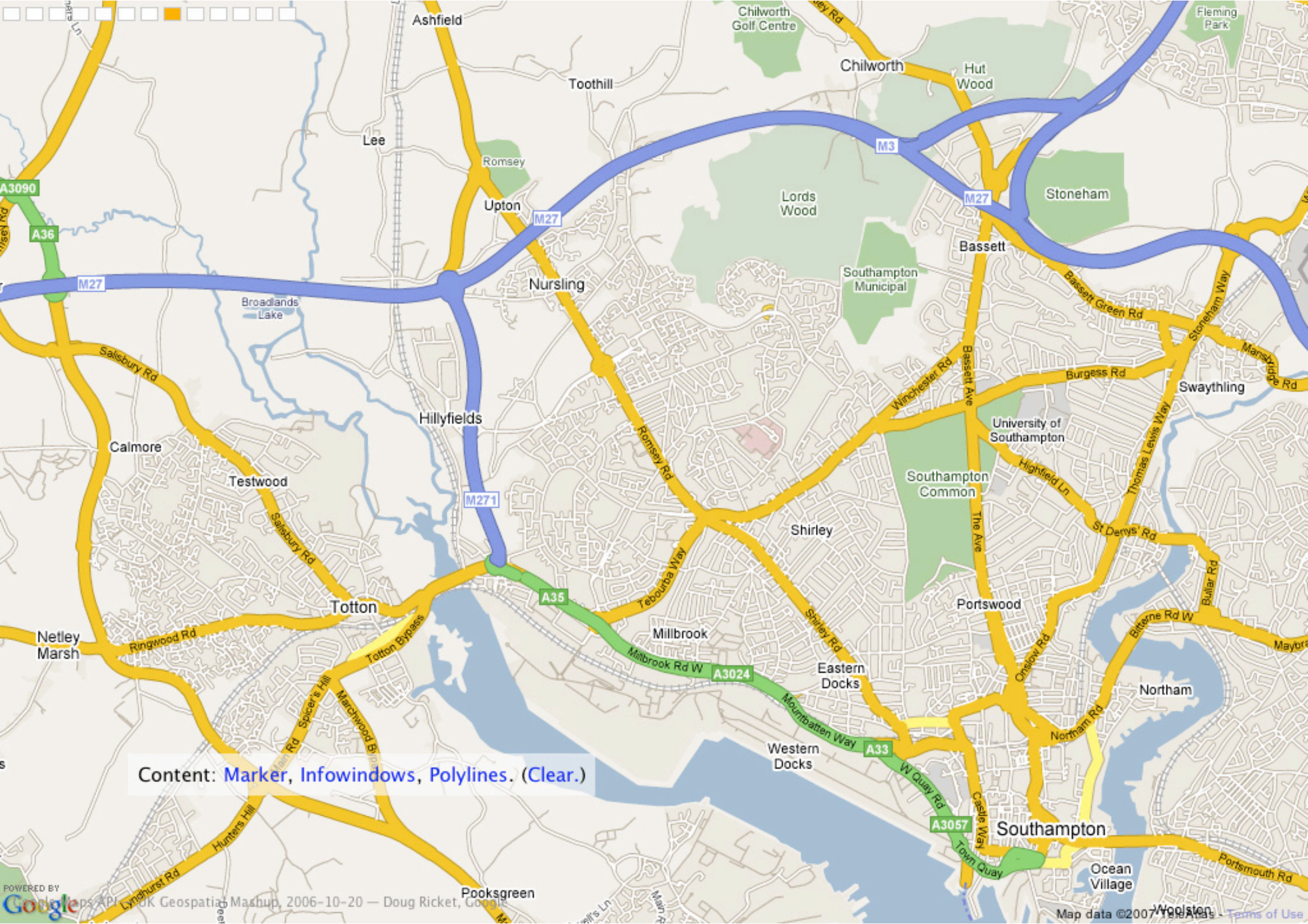
onNYturf.com/subwaymap.php

London Tube

Yelp.com

4. API Features

Markers

Polylines

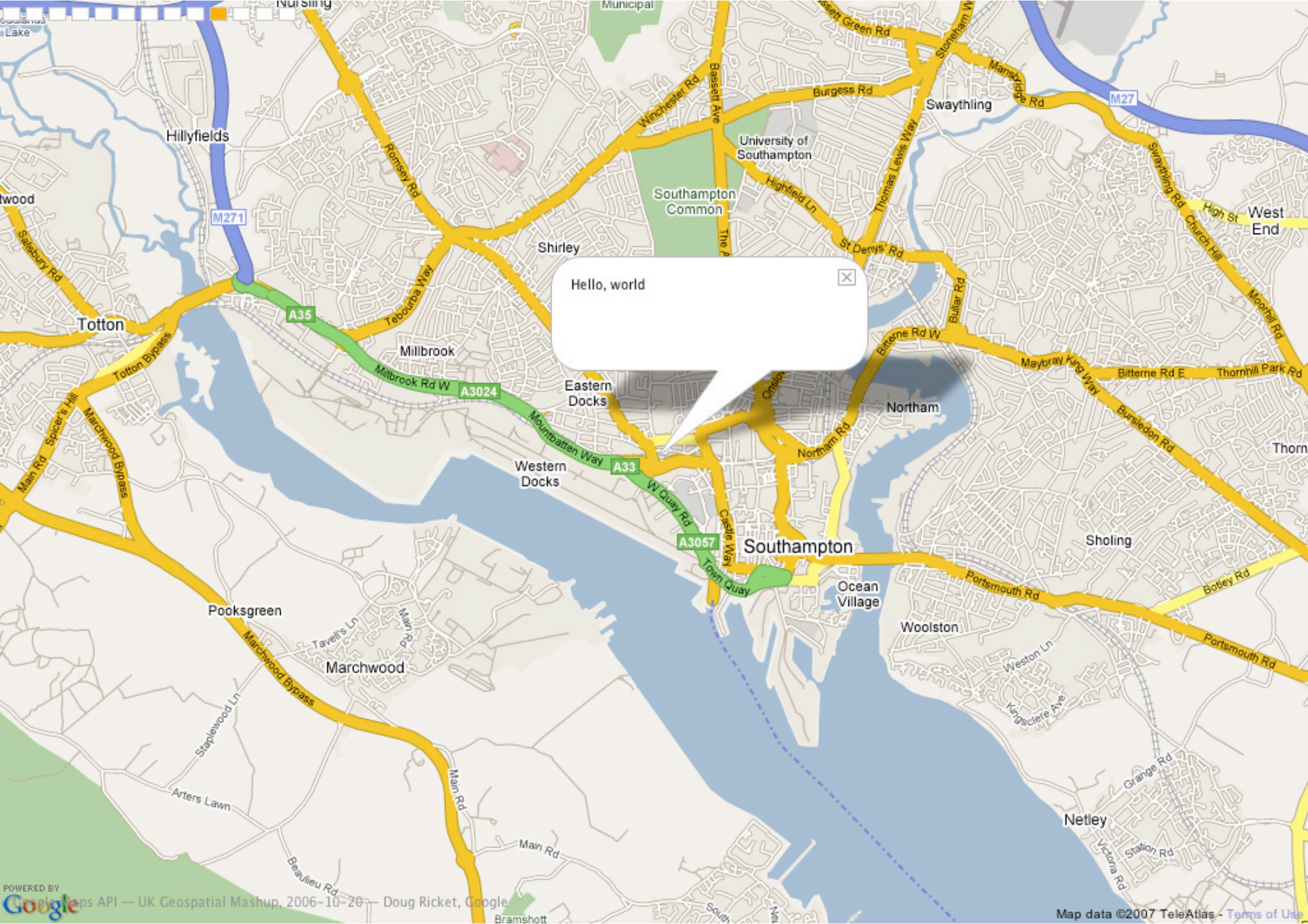Infowindows

Custom Overlays and Map Types

Content: Marker, Infowindows, Polylines. (Clear.)

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Code

```html
<script src="http://maps.google.com/?file=api&v=2&key=..."></script>
<div id="map" style="width:100%;height:100%"></div>
<script>
function load() {
  if (GBrowserIsCompatible()) {
    var map = new GMap2(document.getElementById("map"));
    map.setCenter(new GLatLng(50.907, -1.415), 10);
    map.openInfoWindow(map.getCenter(),
                       document.createTextNode("Hello, world"));
  }
}
</script>
```

Hello, world

5. Q&A

Hello, world

http://www.google.com/apis/maps/

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6. Editable Examples

Hello, world

http://doug.ricket.com/ukgm/examples

- Click any code to edit
- [Run] button to see the results

7. Classroom Exercises

Stanford Map

http://www.stanford.edu/hpcgi/map/index.pl

0. Getting started [?]

- Make a new map

- Open to 37.42, -122.16

- Set Satellite mode

- Add small zoom control and map type control

1. Make a new tile layer

2. Show the satellite tiles behind the stanford tiles

3. Geocoding

   a) Use GLog.write() to display what user enters in a search box

   b) Print where a user clicks

   c) Center on locations that users type, by name (wilbur hall, green library, stern hall)

   d) Add a marker to locations after centering