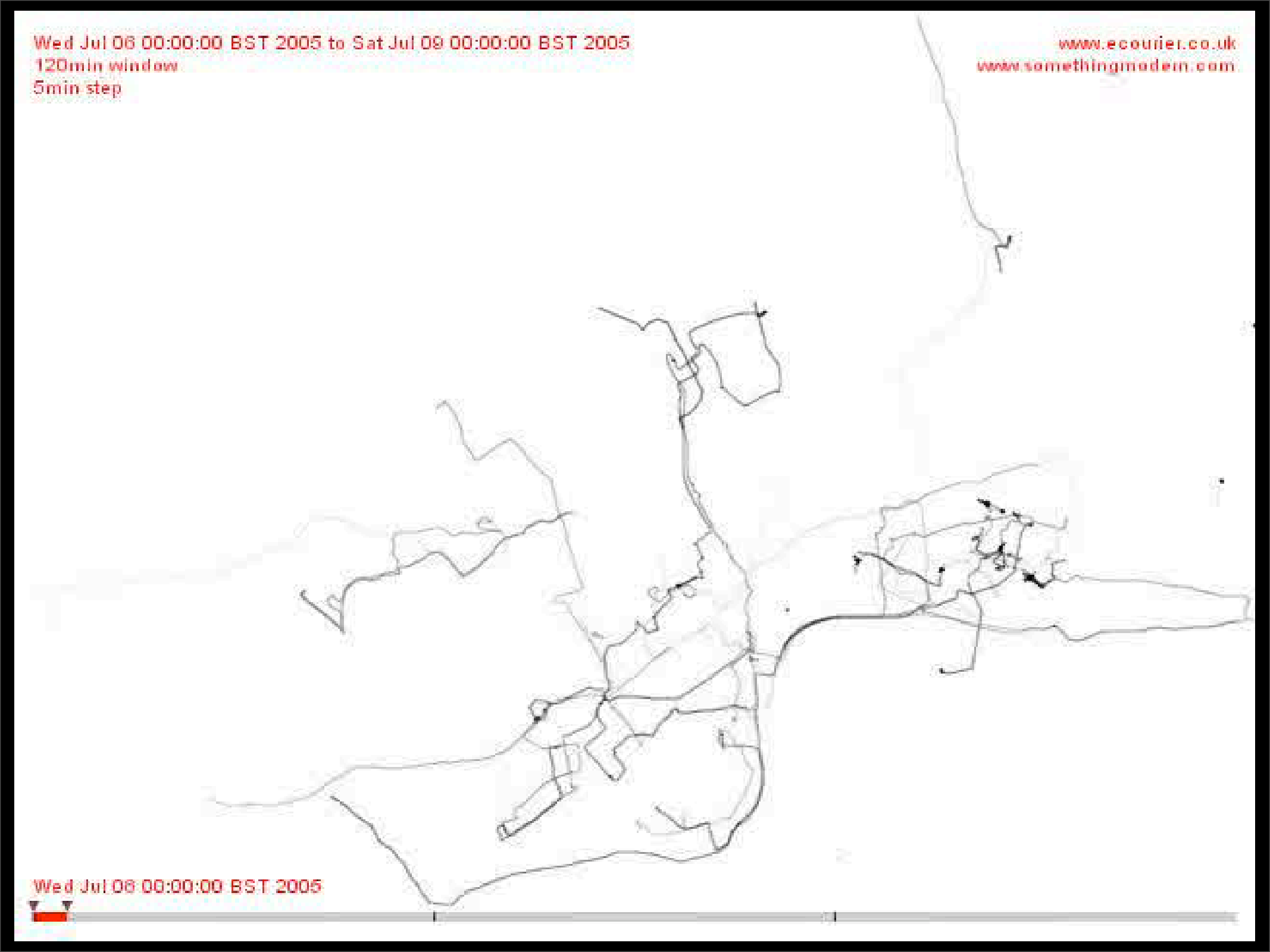
OpenStreetMap

#20

Steve Coast
steve@asklater.com

Why OSM?

- Data not Free/Open
- Data not current
- Wiki is obvious the next step


Wed Jul 06 00:00:00 BST 2005 to Sat Jul 09 00:00:00 BST 2005
120min window
5min step
www.ecourier.co.uk
www.somethingmodern.com
Wed Jul 06 00:00:00 BST 2005

Using OSM

OpenStreetMap
The Free Wiki World Map

Help & Wiki
News blog
Shop

User

display name:
SteveC save

Make a Donation

SOME RIGHTS RESERVED

Your GPS Traces

see traces from all users

Editing the trace mc-steve-4.gpx

filename: mc-steve-4.gpx
uploaded: 2006-05-13 16:24:51
description: sat afternoon from someone
tags: mapchester manchester uk
Save

Your GPS Traces

see traces from all users

upload GPX file: Choose File no file selected
description:
tags:
public? ☑
Upload | help

Showing page 0 (1 - 20 of 33) | next page

	Public?	Delete?
mc-steve-12.gpx ... (2,099 points) ... on 14-May more / map *ava taking two trams in manchester* by SteveC in: mapchester manchester uk	☑	☐
mc-steve-11.gpx ... (2,783 points) ... on 14-May more / map *conor & anne walking mapchester sunday* by SteveC in: mapchester manchester uk	☑	☐
mc-steve-10.gpx ... (2,307 points) ... on 14-May more / map *chris & ben sunday mapschester* by SteveC in: mapchester manchester uk	☑	☐
mc-steve-9.gpx ... (3,435 points) ... on 14-May more / map *mapchester chris and lesley sunday afternoon* by SteveC in: mapchester manchester uk	☑	☐
mc-steve-8.gpx ... (3,196 points) ... on 14-May more / map *drew & karen saturday eve sunday morn* by SteveC in: mapchester manchester uk	☑	☐
mc-steve-7.gpx ... (5,175 points) ... on 14-May more / map *chris sunday morning*	☑	☐

tags

mapchester
manchester
uk
IoW
isleofwight
isle_of_wight
workshop1
Isleofwight
lewisham
wandsworth
bloomsbury
london
M25
M1
M40
horsham
guildford
A248
A25
A2003
A281
test
littlehaven

Help & Wiki
News blog
Shop

OpenStreetMap

http://www.openstreetmap.org/edit.html?lat=52.113888&lon=-1.049867&zoom=14

Google

del.icio.us/SteveC | popup post to del.icio.us | homepage | java api | Sub with Bloglines | Bloglines | My Feeds | PLAN wiki | Steve's Wiki

KT13 Weybridge - Open... | OpenGeoData | OpenStreetMap

OpenStreetMap

The Free Wiki World Map

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News blog
Shop

User

display name:

SteveC save

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View | Edit | GPS traces

Welcome steve@asklater.com Logout

Need help editing?

Some Quotes

Quote 1

“It’s absolutely possible for a bunch of smart guys with the technology we have today to capture street networks, and potentially the major roads of the UK and minor roads”

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Quote 1

“It’s absolutely possible for a bunch of smart guys with the technology we have today to capture street networks, and potentially the major roads of the UK and minor roads”

Ed Parsons - CTO Ordnance Survey

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Quote 2

“If you don’t make [lower-resolution mapping data] publicly available, there will be people with their cars and GPS devices, driving around with their laptops .. They will be cataloguing every lane, and enjoying it, driving 4×4s behind your farm at the dead of night. There will, if necessary, be a grass-roots remapping.”

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Quote 2

“If you don’t make [lower-resolution mapping data] publicly available, there will be people with their cars and GPS devices, driving around with their laptops .. They will be cataloguing every lane, and enjoying it, driving 4×4s behind your farm at the dead of night. There will, if necessary, be a grass-roots remapping.”

Tim Berners-Lee

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Quote 3

“You could have a community capability where you took the GPS data of people driving around and started to see, oh, there’s a new road that we don’t have, a new route .. And so that data eventually should just come from the community with the right software infrastructure.”

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Quote 3

“You could have a community capability where you took the GPS data of people driving around and started to see, oh, there’s a new road that we don’t have, a new route .. And so that data eventually should just come from the community with the right software infrastructure.”

Bill Gates

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Using OSM Data

API, REST, XML, planet.osm

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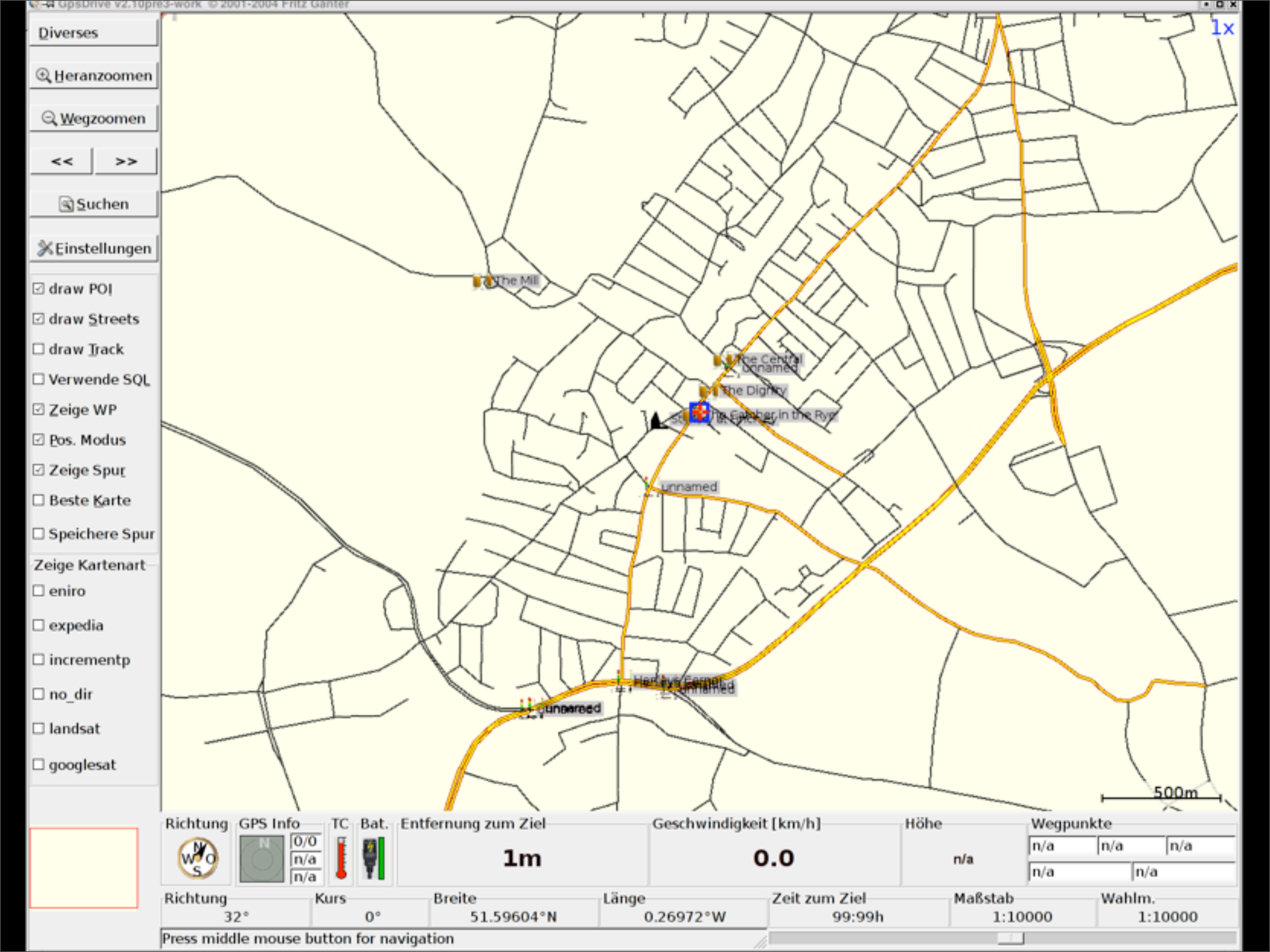
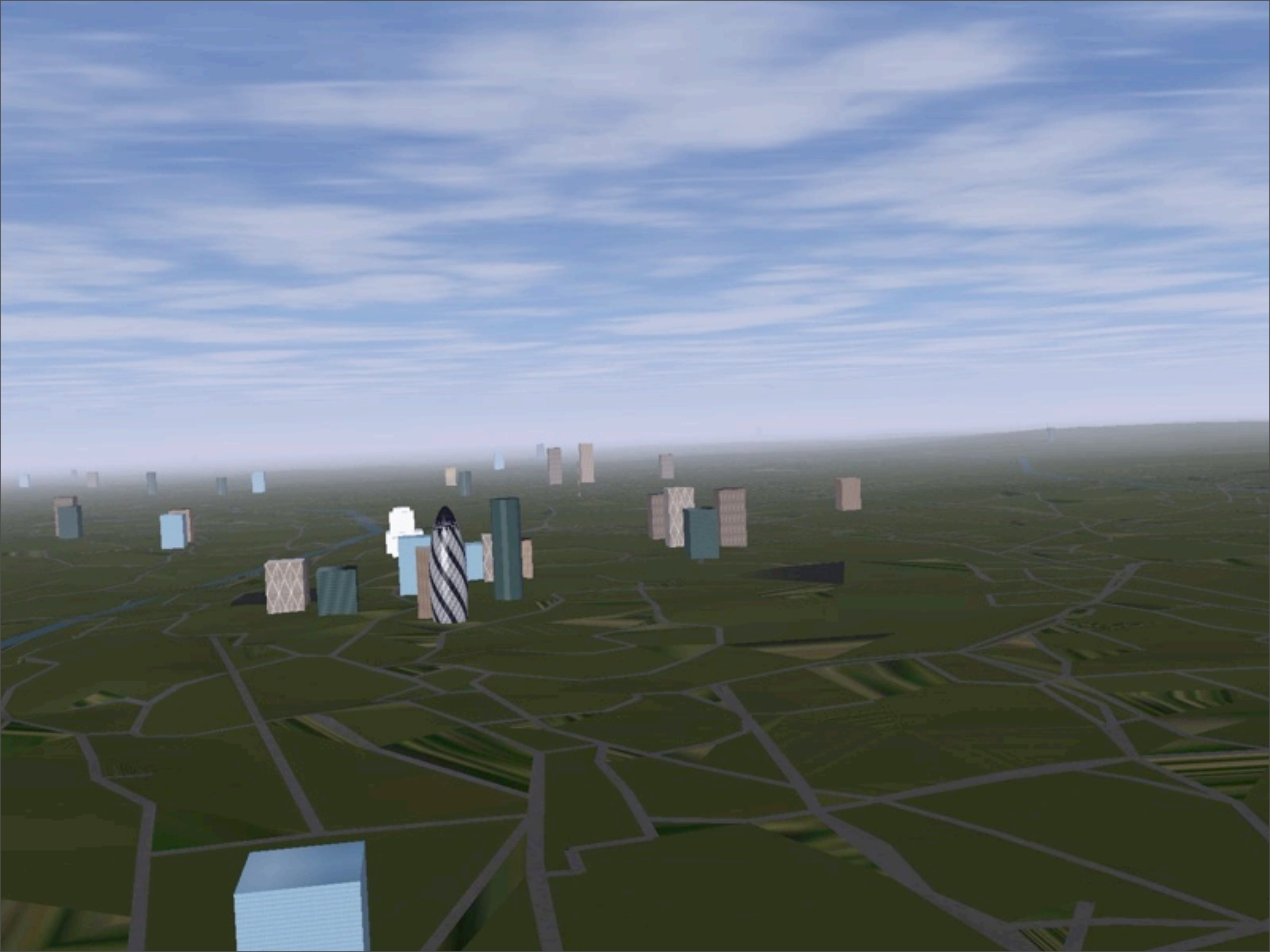
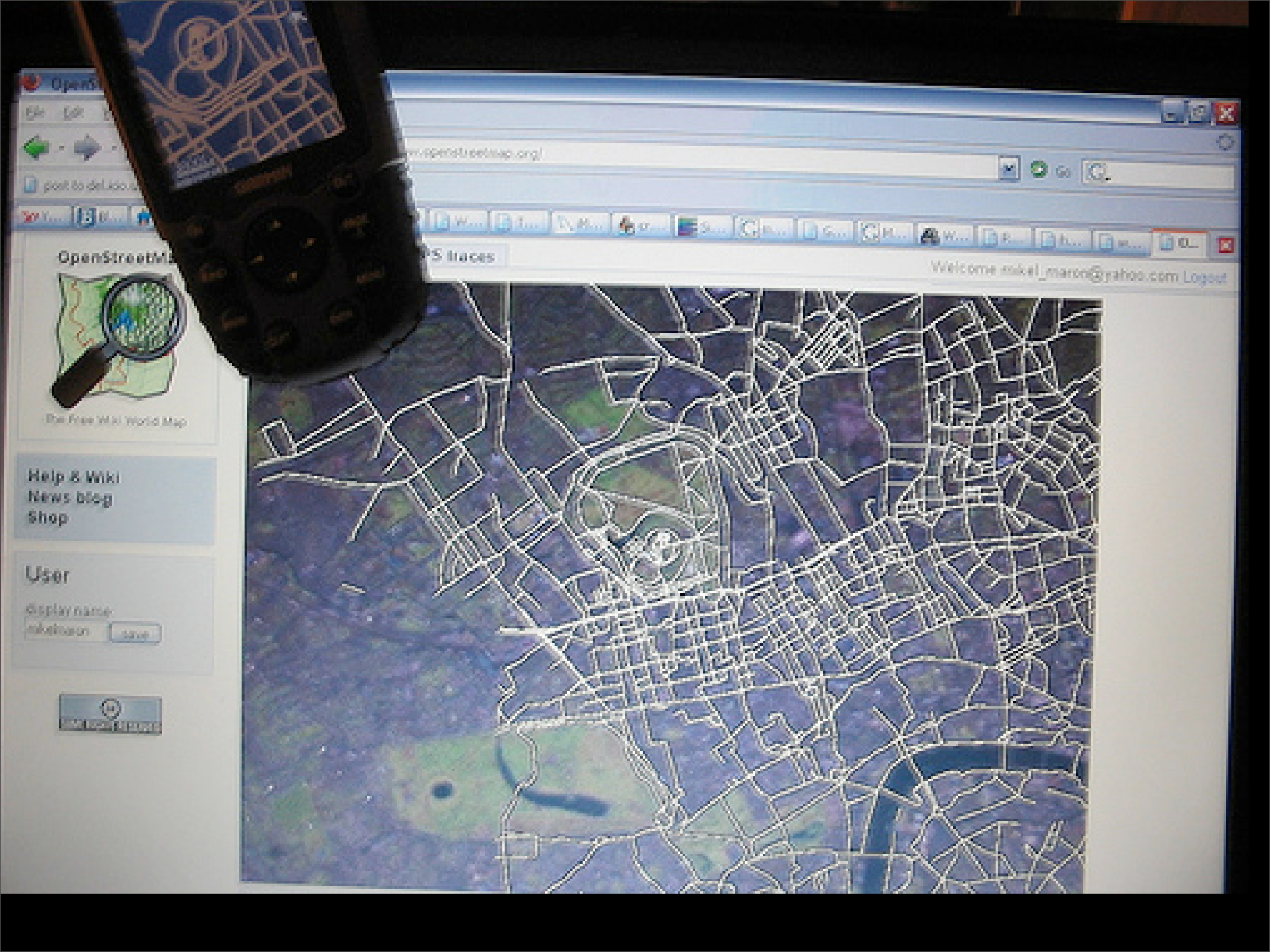
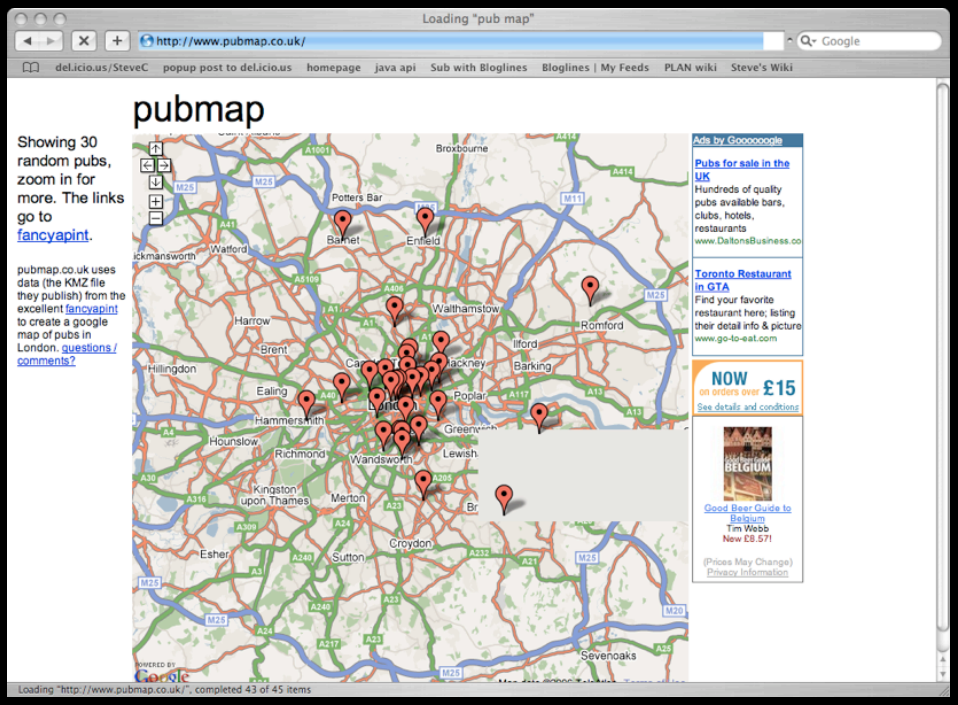
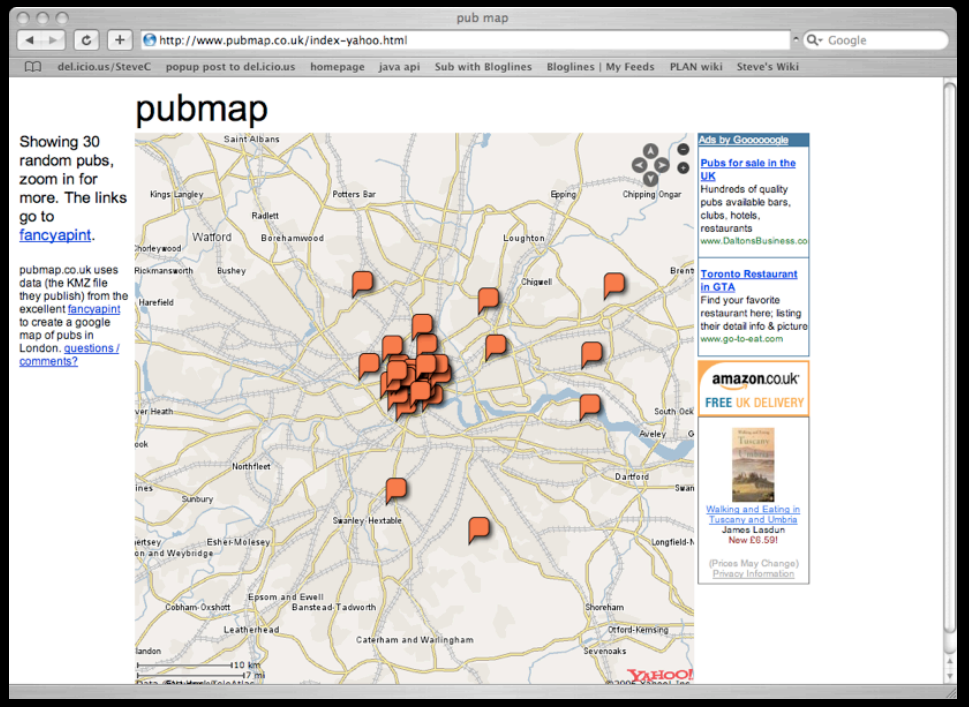

GpsDrive v2.10pre3-work © 2001-2004 Fritz Ganter
Diverses
Heranzoomen
Wegzoomen
<<
>>
Suchen
Einstellungen
draw POI
draw Streets
draw Track
Verwende SQL
Zeige WP
Pos. Modus
Zeige Spur
Beste Karte
Speichere Spur
Zeige Kartenart
eniro
expedia
incrementp
no_dir
landsat
googlesat
1x
The Mill
The Central
unnamed
The Dignity
The Catcher in the Rye
unnamed
unnamed
500m
Richtung
GPS Info
TC
Bat.
Entfernung zum Ziel
1m
Geschwindigkeit [km/h]
0.0
Höhe
n/a
Wegpunkte
n/a
n/a
n/a
n/a
n/a
Richtung
32°
Kurs
0°
Breite
51.59604°N
Länge
0.26972°W
Zeit zum Ziel
99:99h
Maßstab
1:10000
Wahlm.
1:10000
Press middle mouse button for navigation




Help & Wiki
News blog
Shop
User

- Abstraction API for G-Y-M maps
- OSM planned





Coase's Penguin

(Yochai Benkler)

Commons-based Peer Production:

- Non-monetary motivation
- Discrete multi-size pieces
- Low-cost integration

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Coase's Penguin

(Yochai Benkler)

Commons-based Peer Production:

- Fun
- Takes 5 minutes
- Easy

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Data as ‘Property’

Data as ‘Property’

(Infringment is not theft)

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Closed	Open
Copyright	GPL
Patent	X
Trademark	X
Database Right	???

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Closed	Open
Copyright	GPL
Patent	X
Trademark	X
DB Right	???

Not Clear This Applies to Open Data

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Closed	Open
Copyright	GPL
Patent	X
Trademark	X
DB Right	???

This definitely does!

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Closed	Open
Copyright	GPL
Patent	X
Trademark	X
DB Right	???

Uh-Oh!

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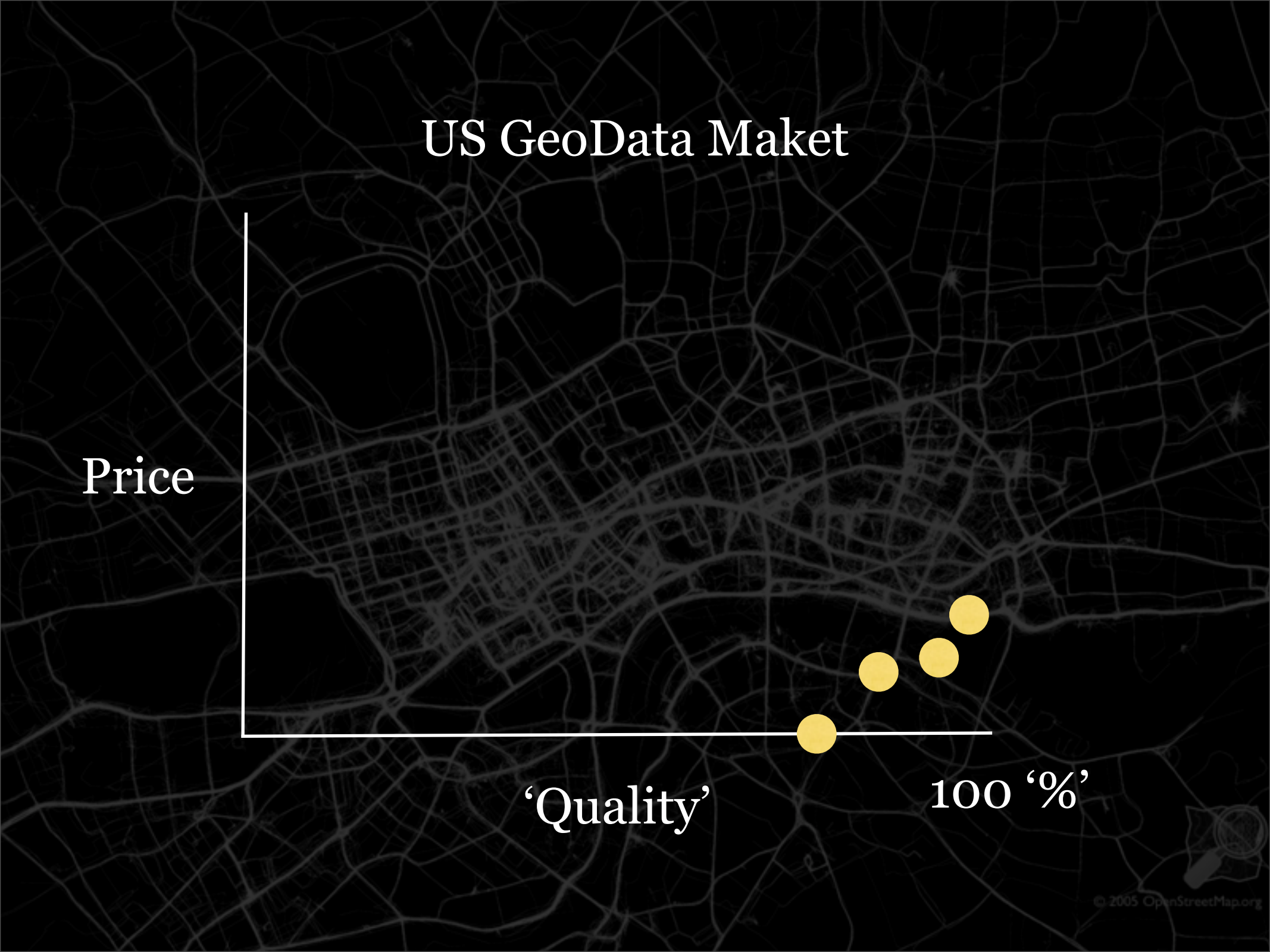
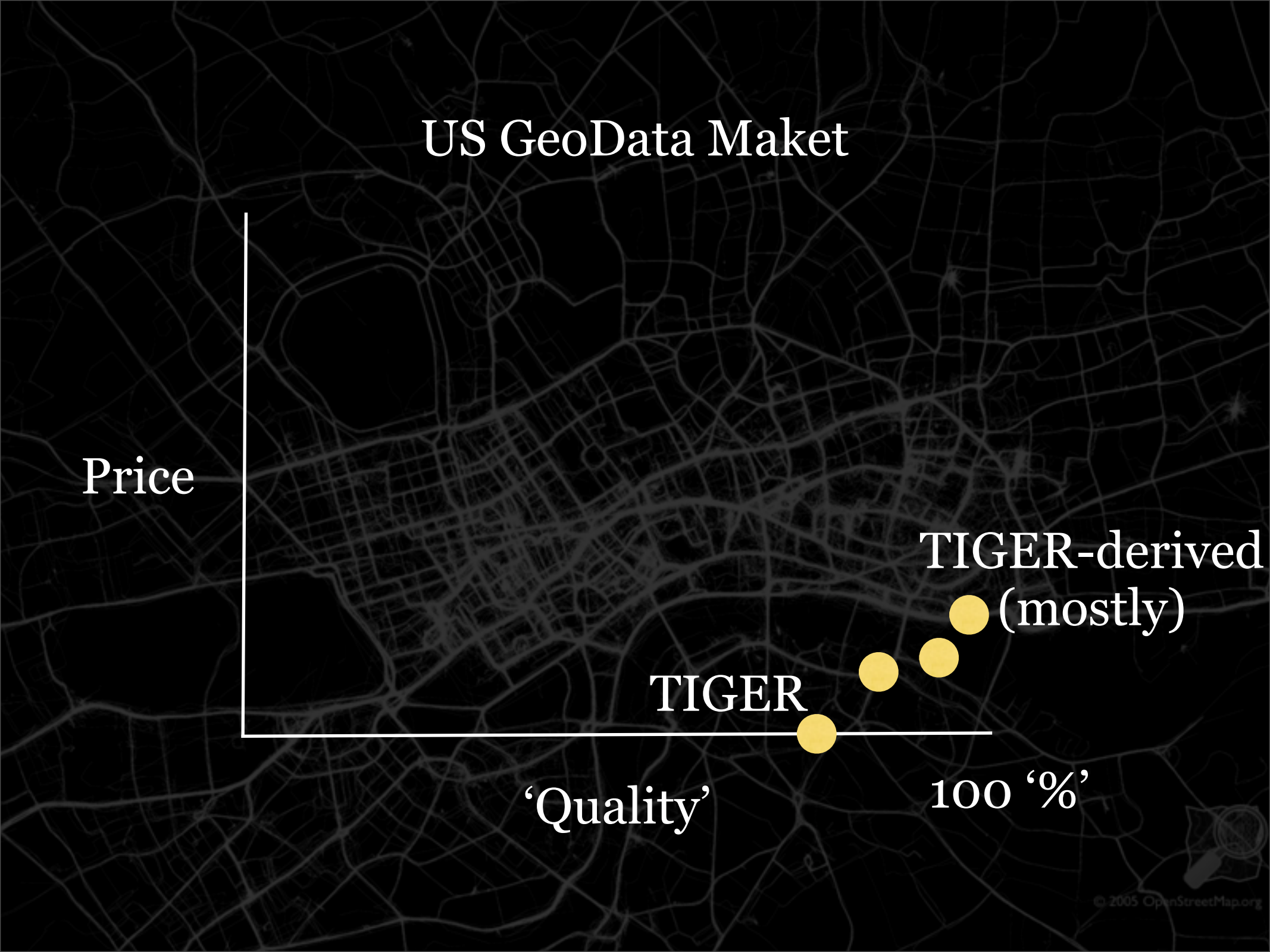
Data:
UK-US comparison

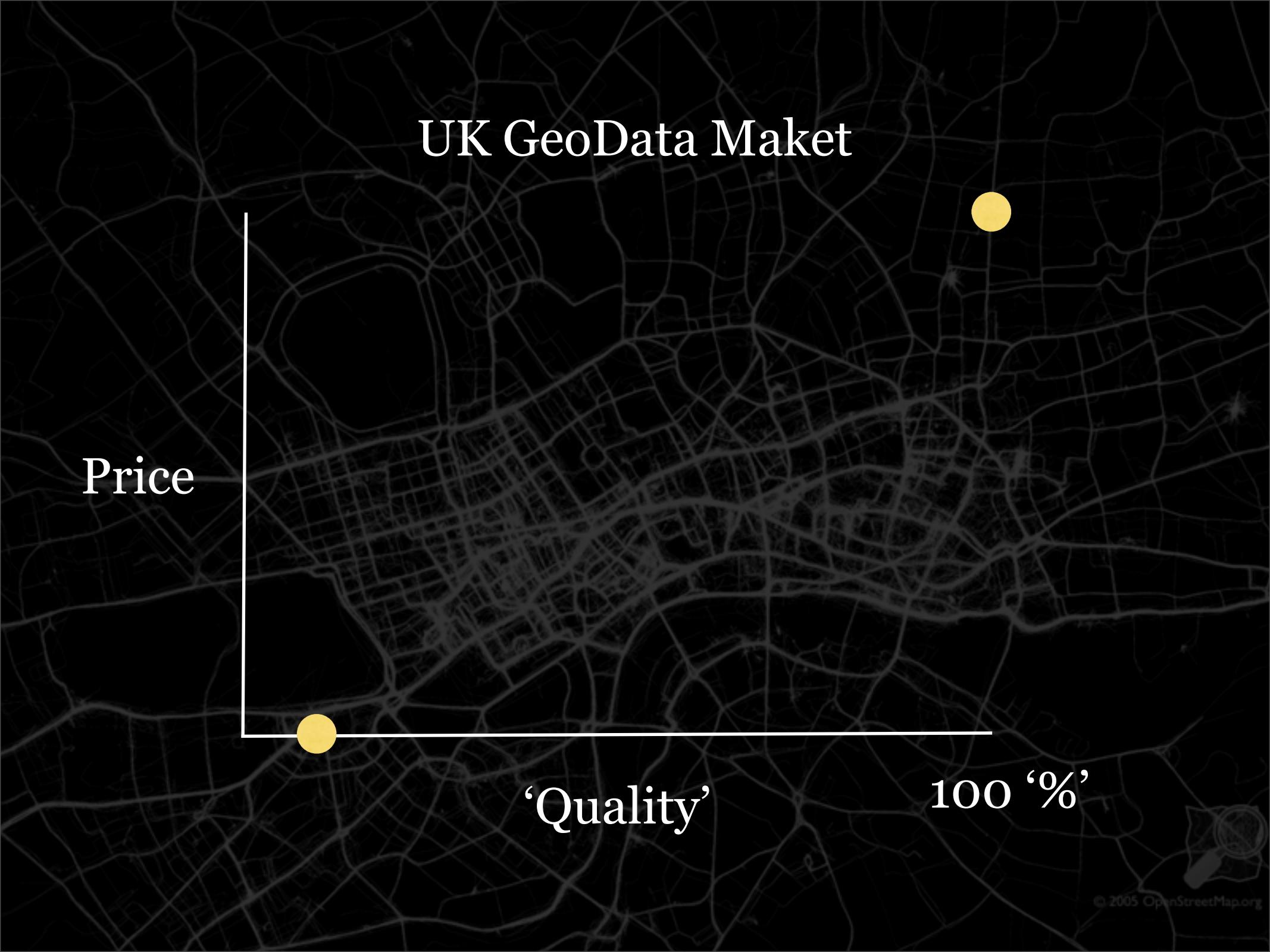
US GeoData Maket

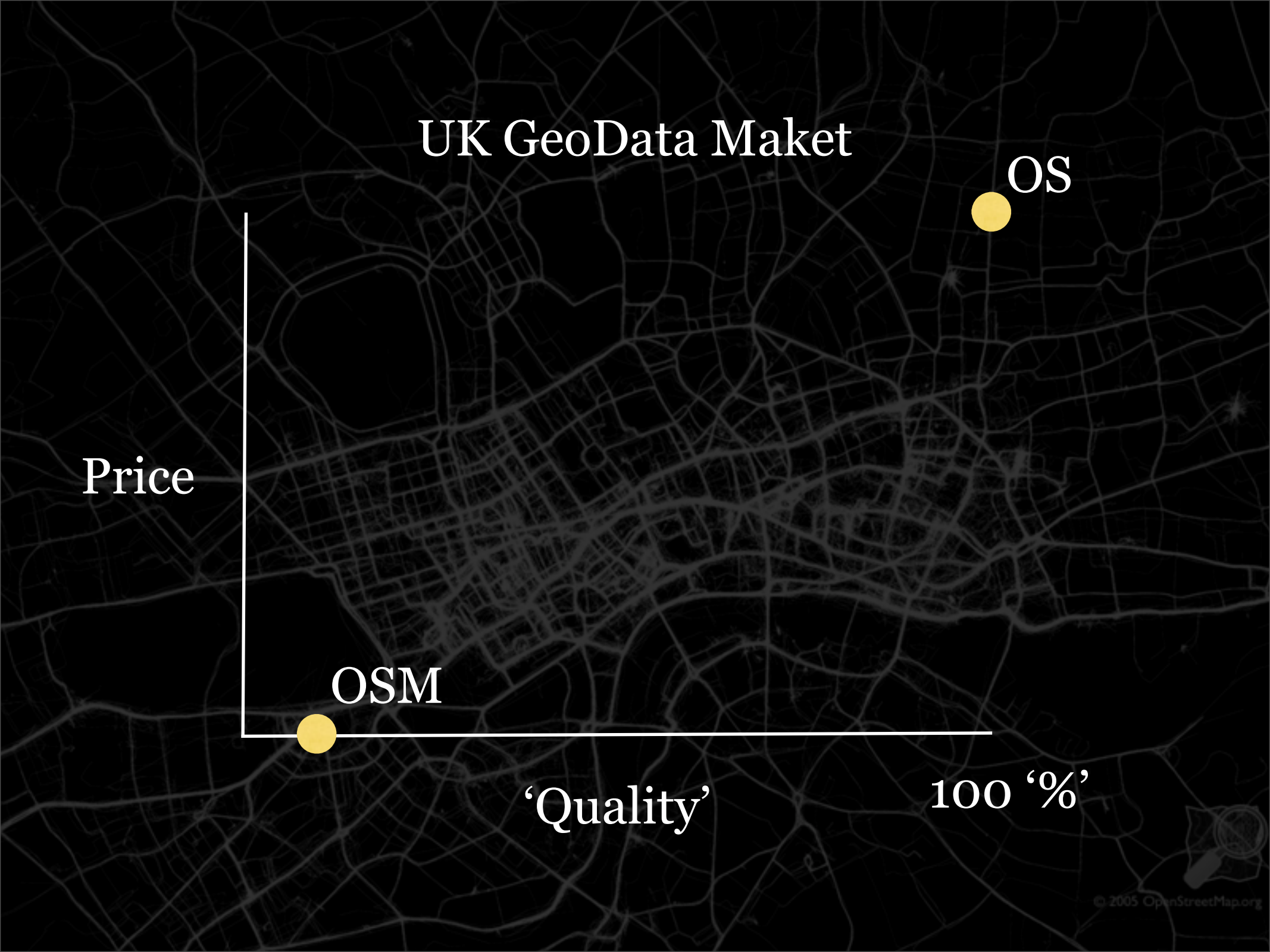


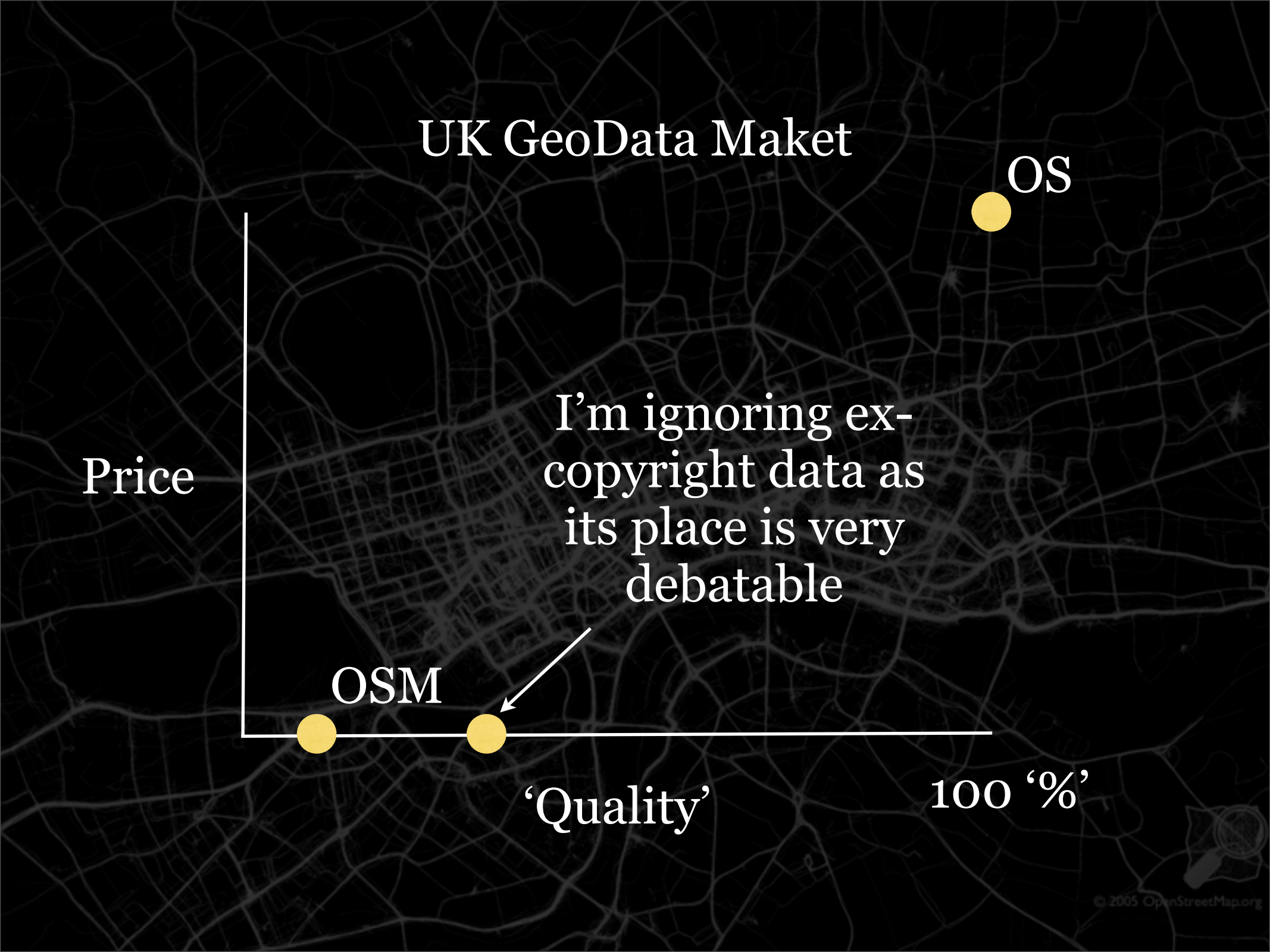
US GeoData Maket



UK GeoData Maket




UK GeoData Maket
OS
Price
OSM
‘Quality’
100 ‘%’
© 2005 OpenStreetMap.org


UK GeoData Maket
OS
Price
I’m ignoring ex-copyright data as its place is very debatable
OSM
‘Quality’
100 ‘%’
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UK GeoData Maket
OS
Price
OSM
‘Quality’
100 ‘%’
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UK GeoData Maket
OS
Price
OSM
‘Quality’
100 ‘%’
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UK GeoData Maket
OS
Price
OSM
‘Quality’
100 ‘%’
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We’ve seen this before
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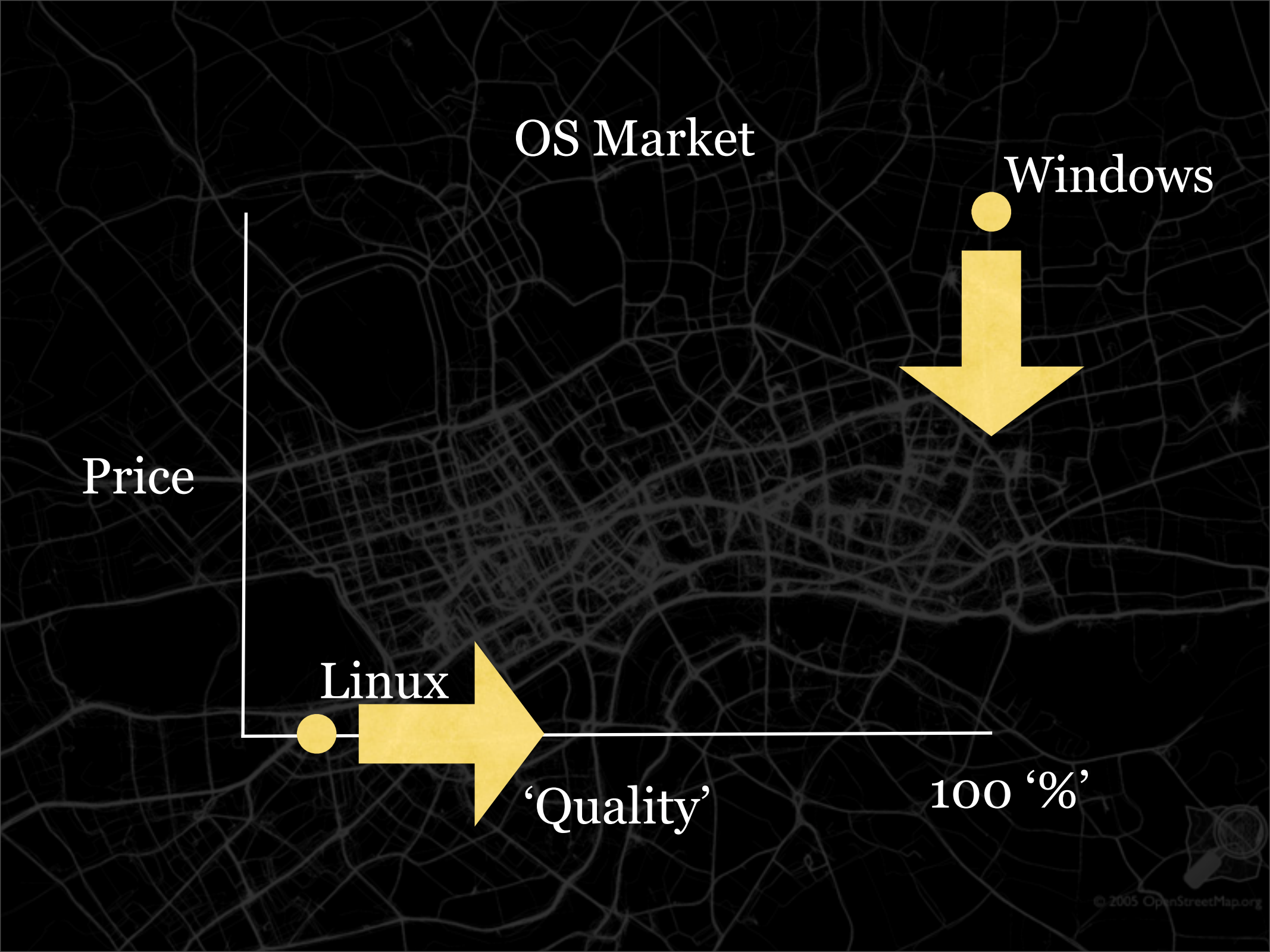
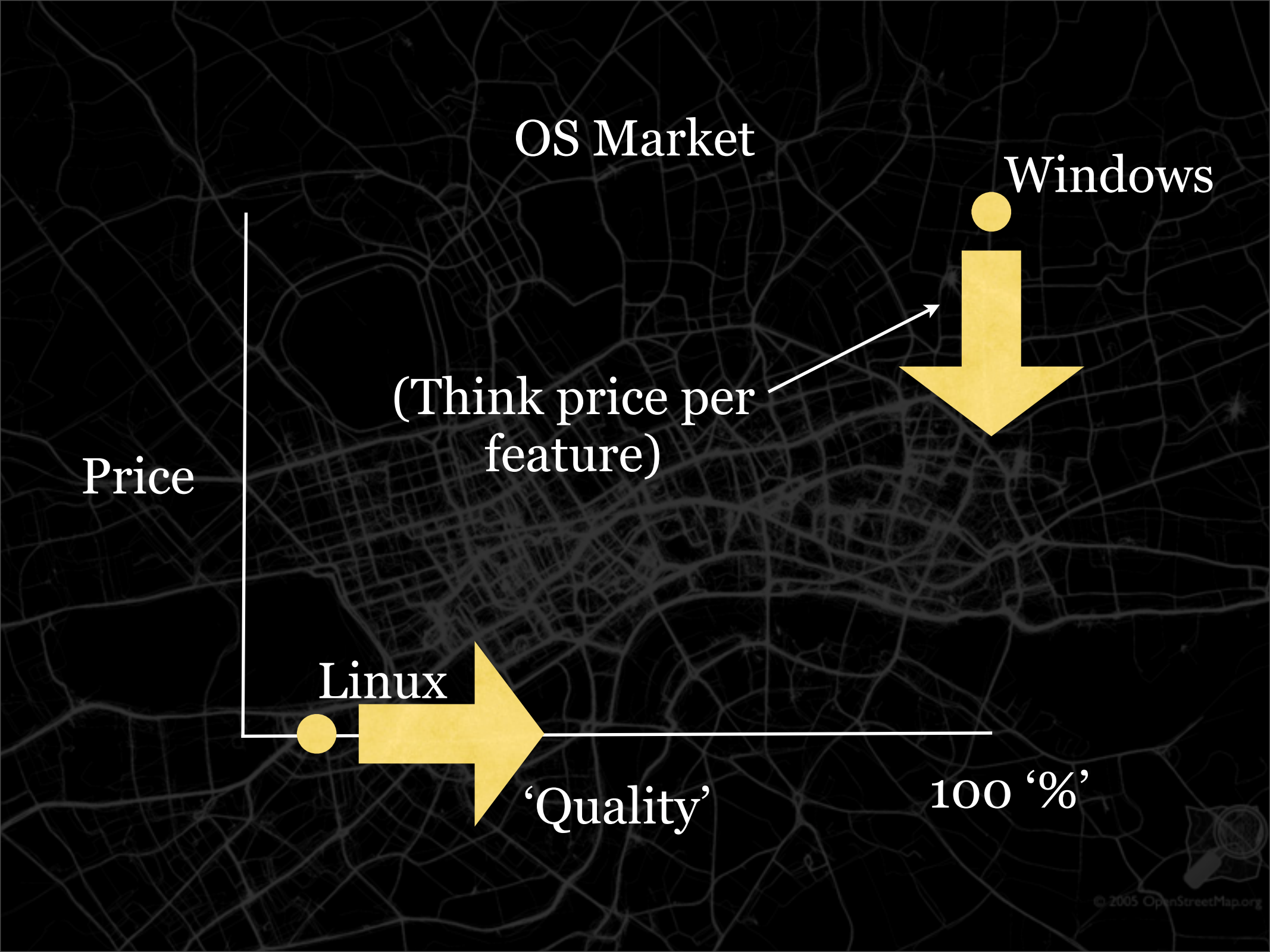
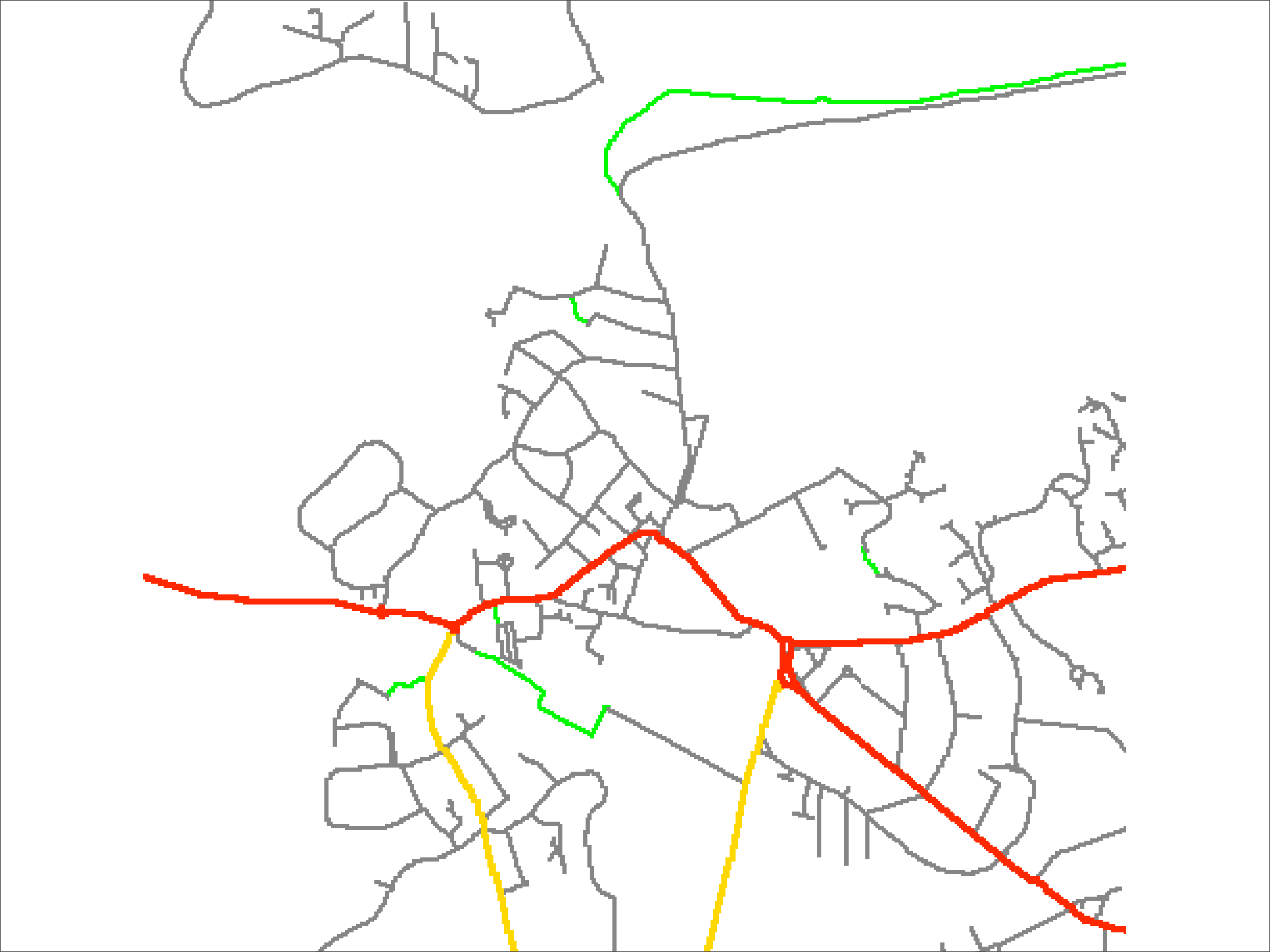
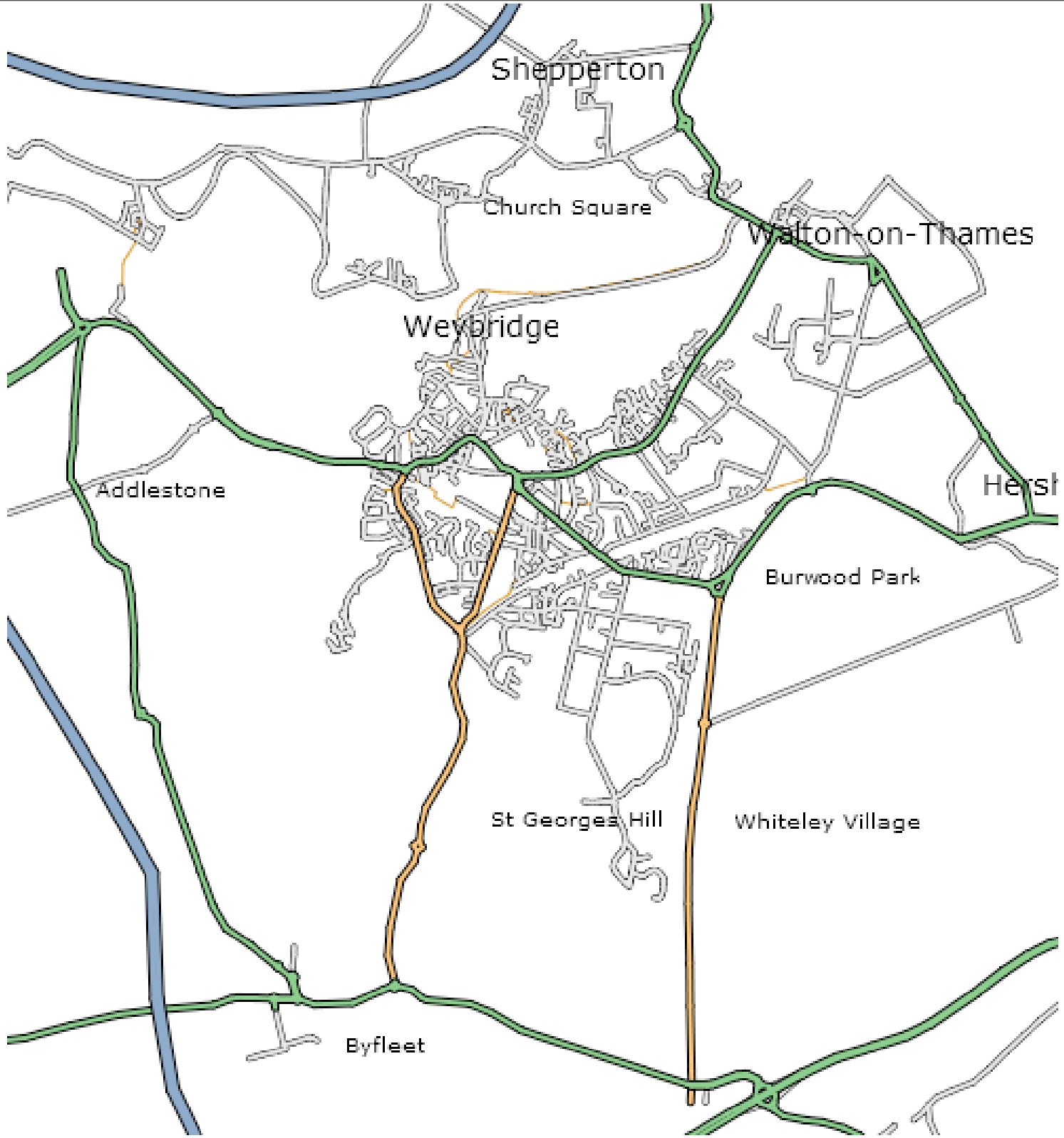

OS Market
Windows
Price
Linux
‘Quality’
100 ‘%’
© 2005 OpenStreetMap.org

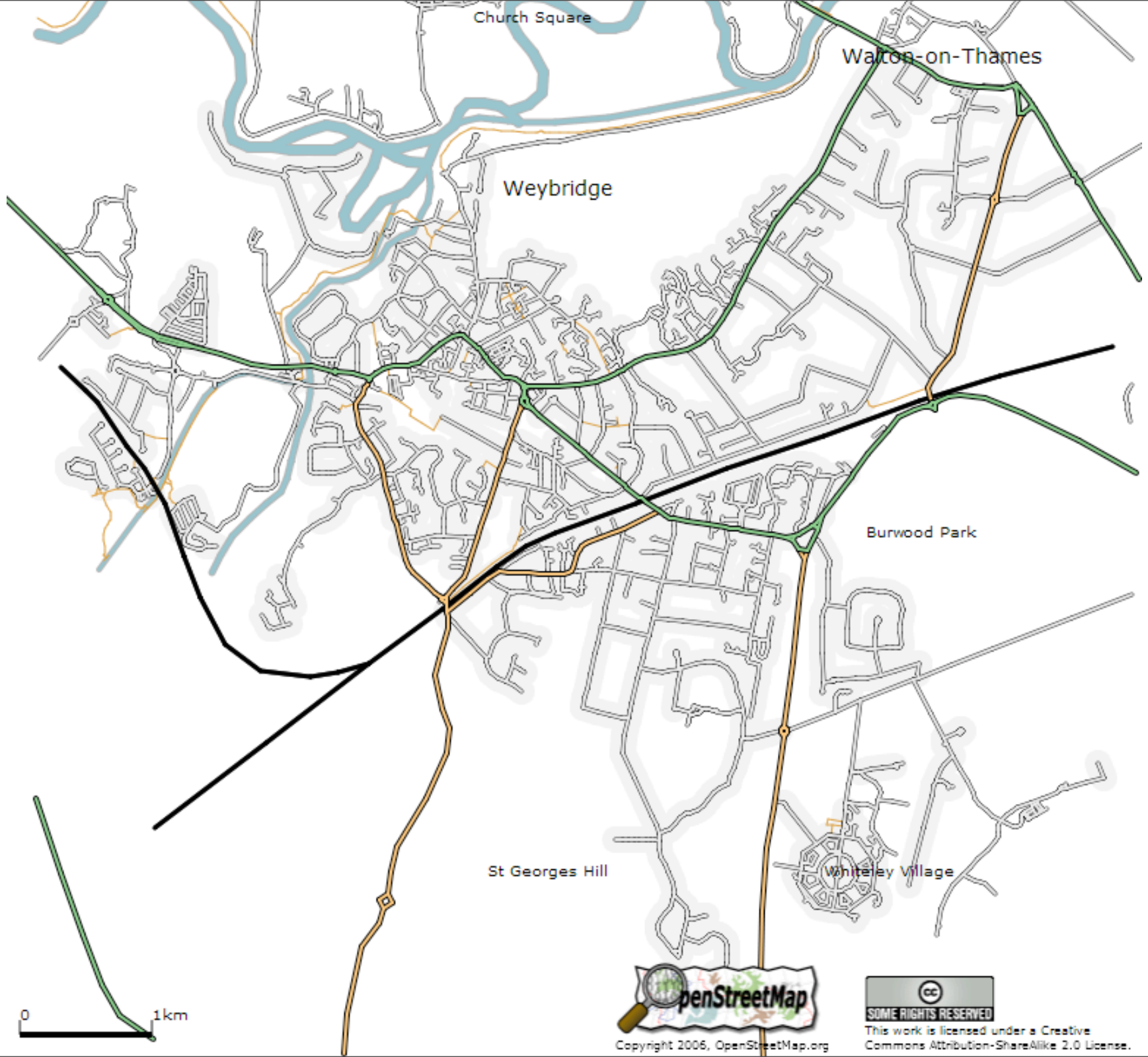

OS Market
Windows
(Think price per feature)
Price
Linux
‘Quality’
100 ‘%’
© 2005 OpenStreetMap.org

Pretty Maps



Shepperton
Chertsey
Church Square
Walton-on-Thames
Weybridge
Addlestone
Hersham
Burwood Park
St Georges Hill
Whiteley Village
Byfleet


Shepperton
Church Square
Walton-on-Thames
Weybridge
Addlestone
Burwood Park
St Georges Hill
Whiteley Village
Byfleet



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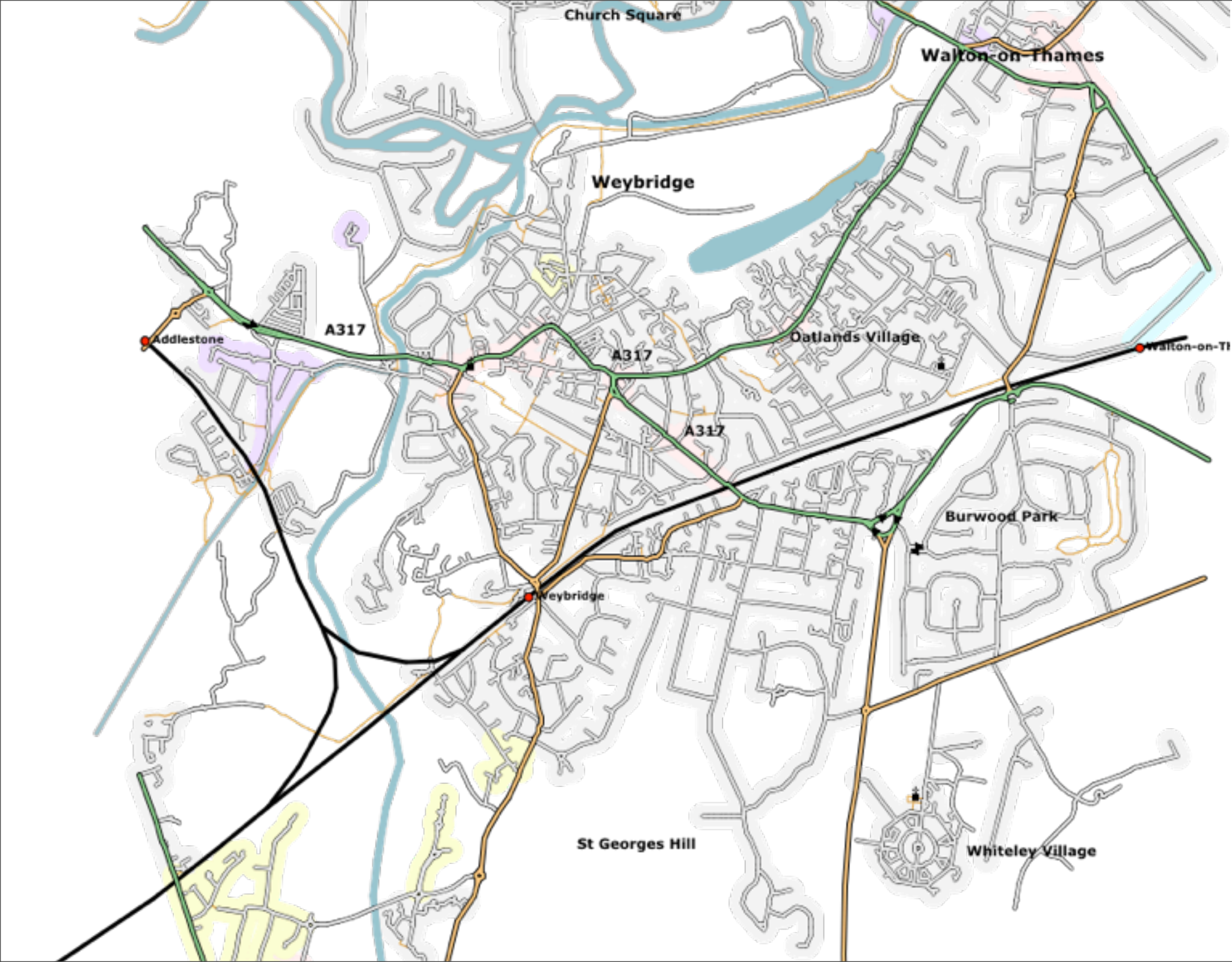
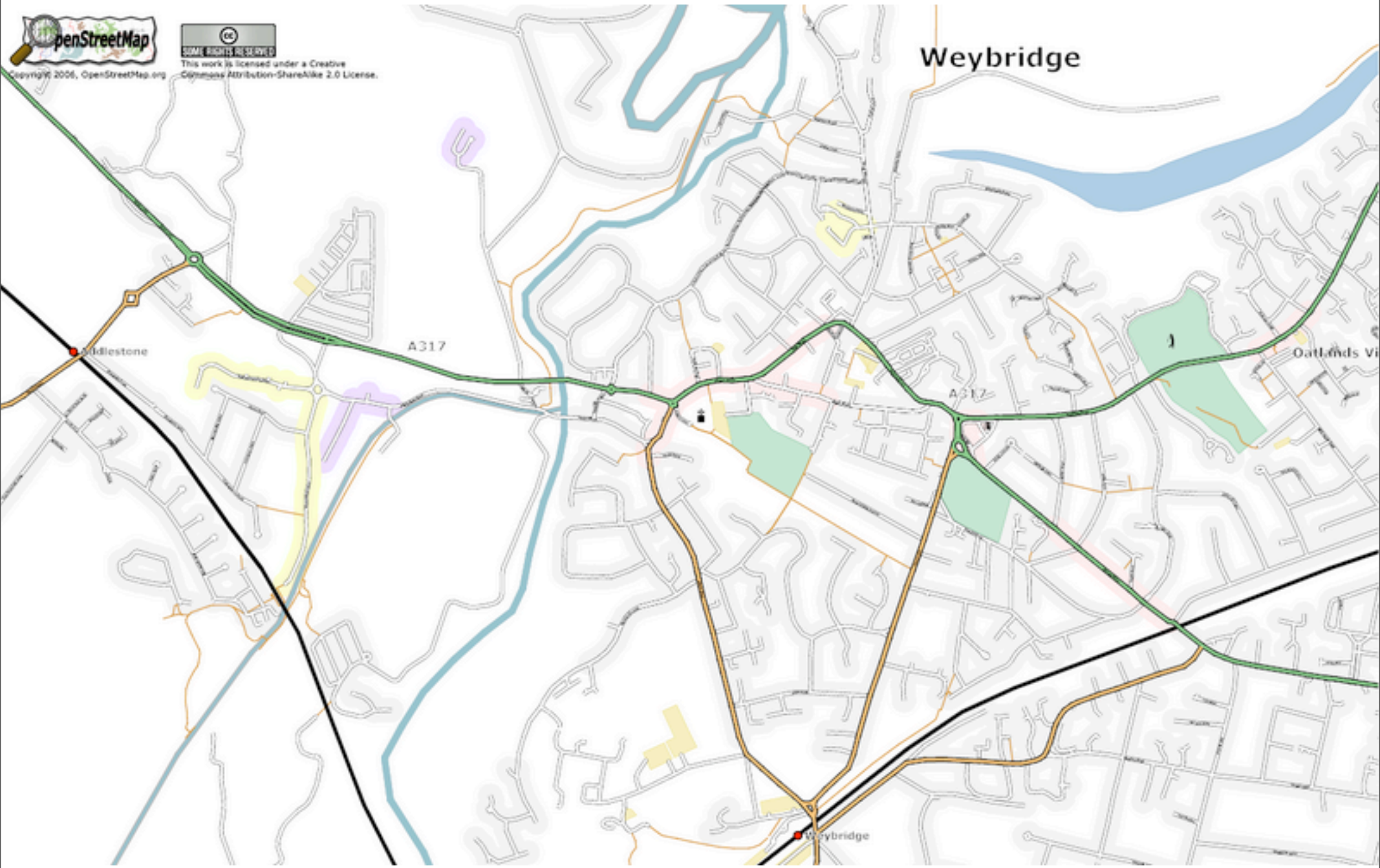

Church Square
Walton-on-Thames
Weybridge
A317
Addlestone
A317
Oatlands Village
A317
Burwood Park
Weybridge
St Georges Hill
Whiteley Village



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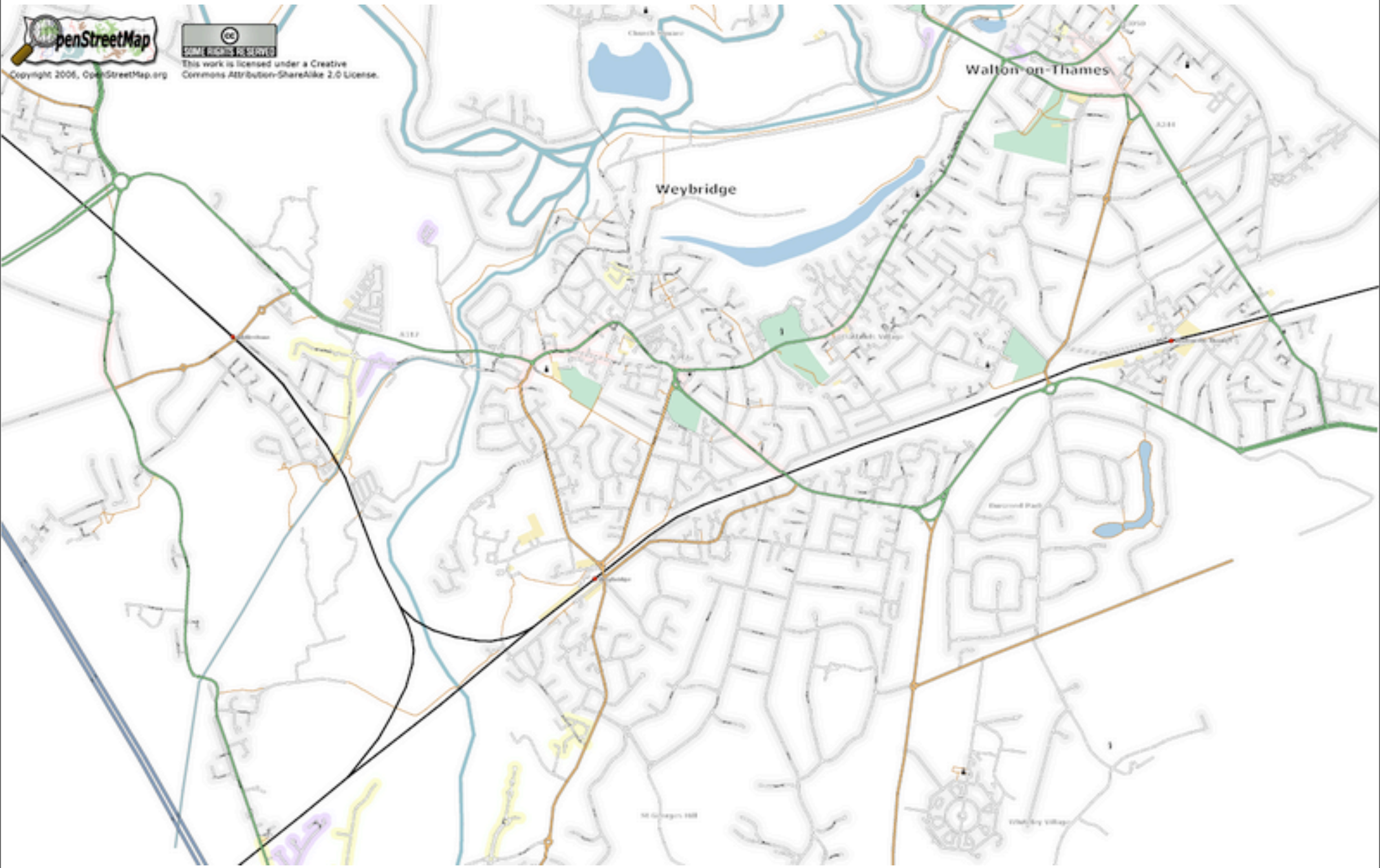

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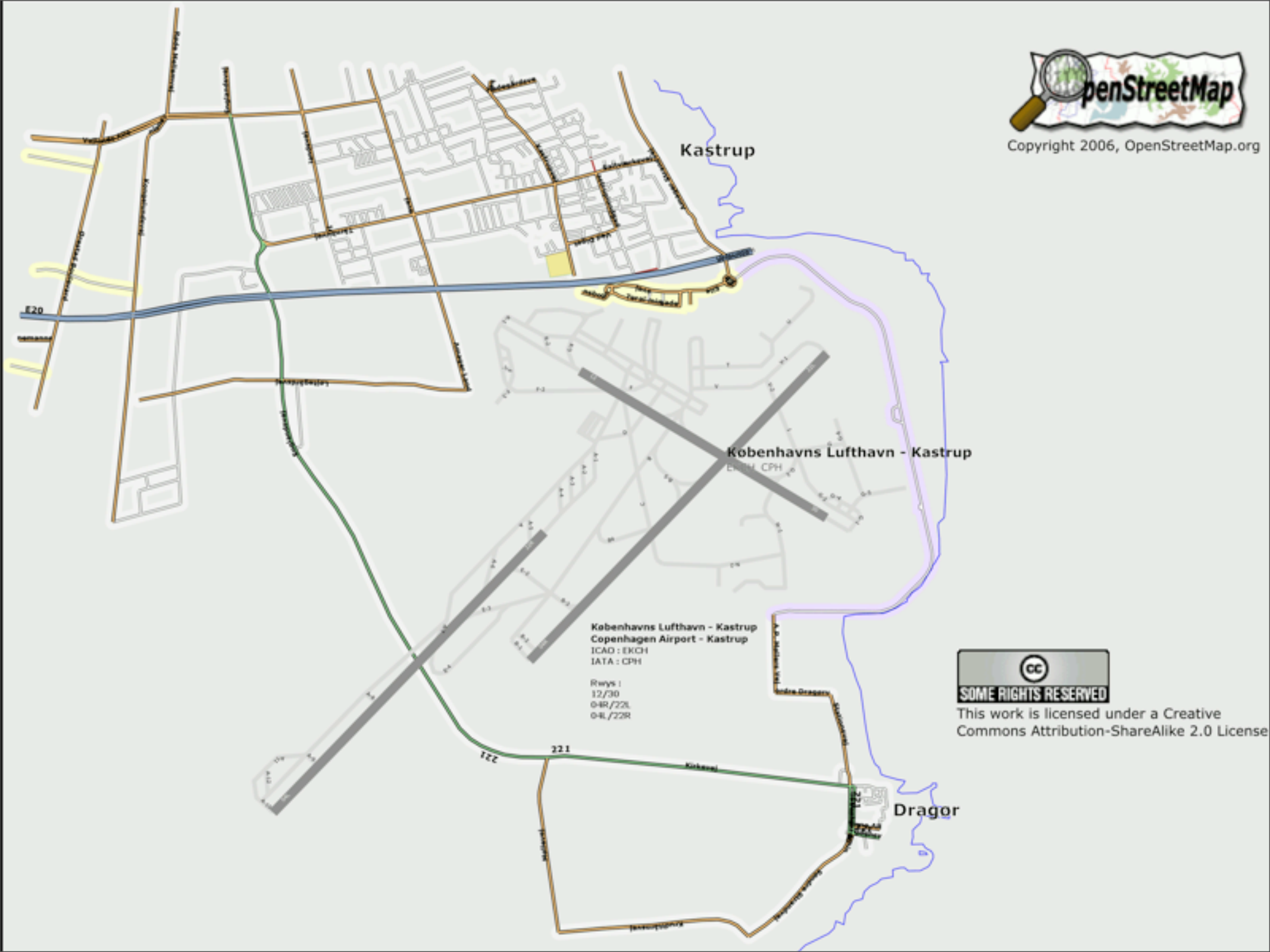

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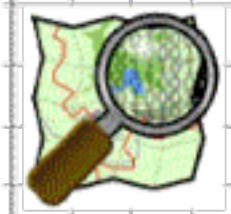
Progress

Bubble wrap, padlocks, boxes, tape...
LOWEST PRICE

OpenStreetMap Database Statistics

Users and User gpx Uploads (track points)



Track Points

OSM Registered Users

Track Points (Million)

Users

By (Date)

0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 32 34 36

0 400 800 1200 1600 2000 2400 2800 3200 3600 4000 4400 4800 5200 5600 6000 6400 6800 7200

08/08/05 22/08/05 05/09/05 19/09/05 03/10/05 17/10/05 31/10/05 14/11/05 28/11/05 12/12/05 26/12/05 09/01/06 23/01/06 06/02/06 20/02/06 06/03/06 20/03/06 03/04/06 17/04/06 01/05/06 15/05/06 29/05/06 12/06/06 26/06/06 10/07/06 24/07/06 07/08/06 21/08/06 04/09/06 18/09/06 02/10/06

2005-04-01

TIGER/LINE

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OpenStreetMap

http://www.openstreetmap.org/index.html?lat=37.80544451722479&lon=-122.497558&zoom=11

Google

del.icio.us/SteveC | popup post to del.icio.us | homepage | java api | Sub with Bloglines | Bloglines | My Feeds | PLAN wiki | Steve's Wiki

OpenGeoData | Stats - OpenStreetMap | OpenStreetMap | OpenStreetMap stats

OpenStreetMap

The Free Wiki World Map

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News blog
Shop

User

display name:

SteveC save

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View | *Edit* | GPS traces

Welcome steve@asklater.com Logou

Search

Workshops

Or, Map as Party

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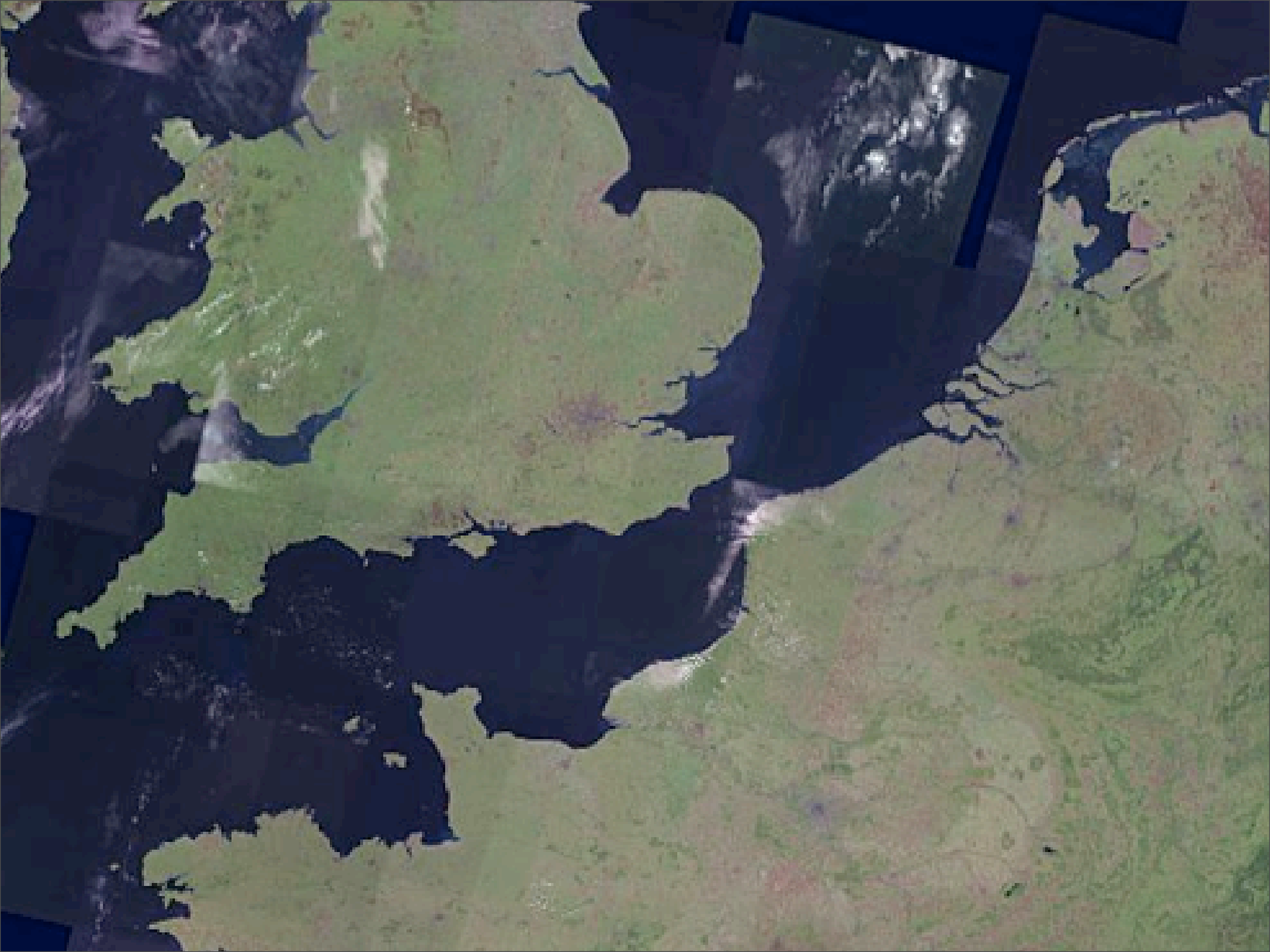
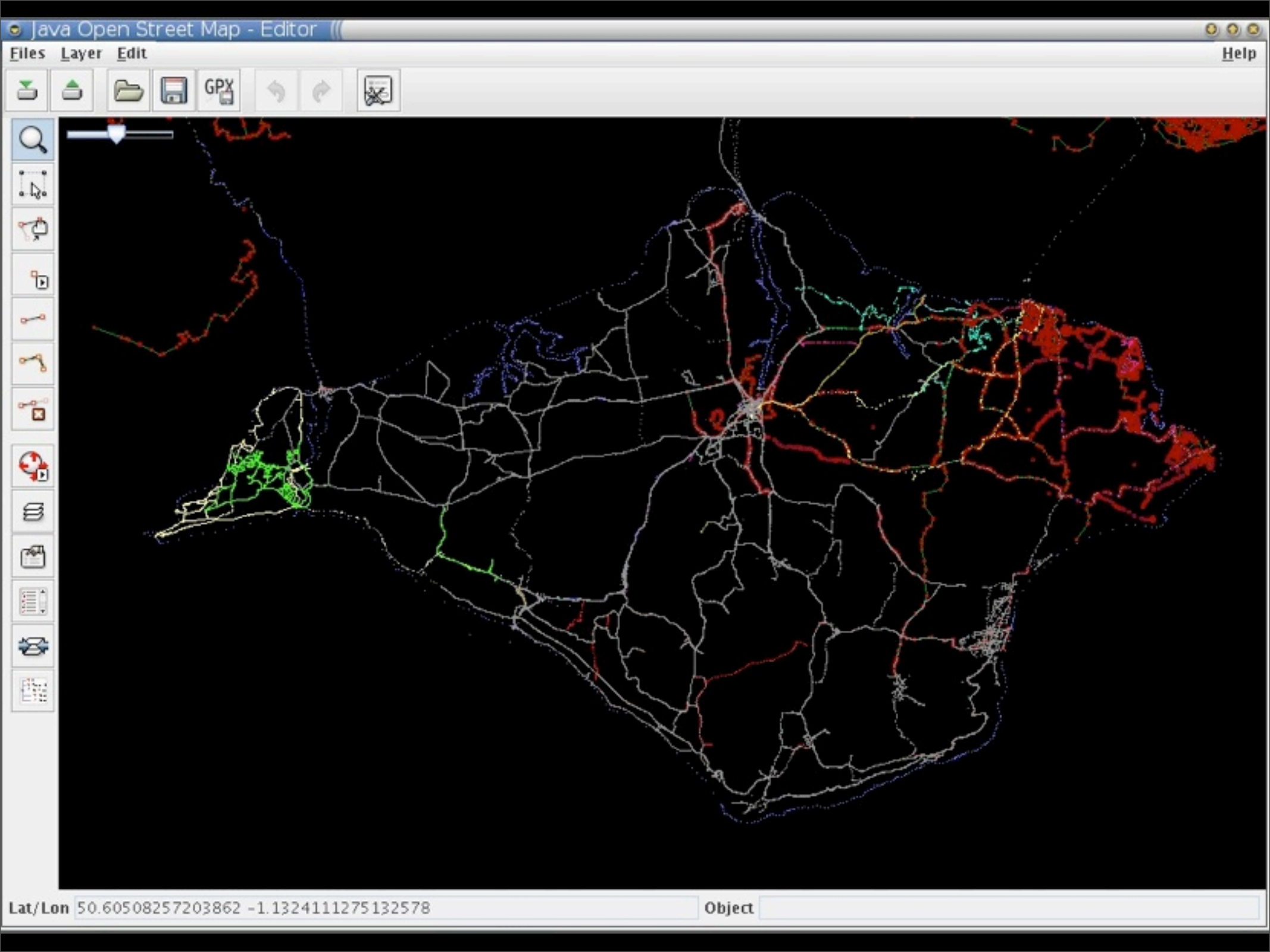
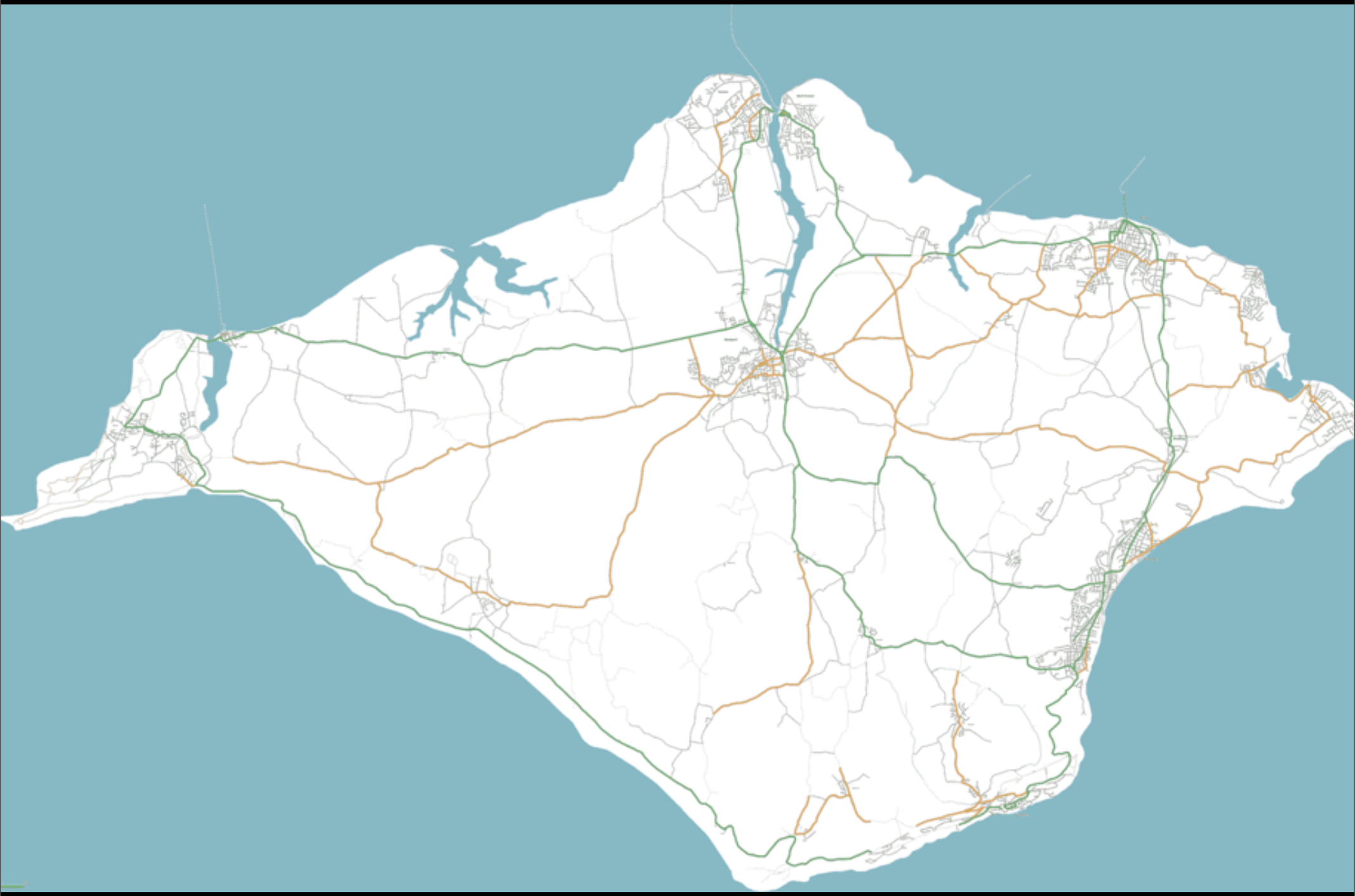
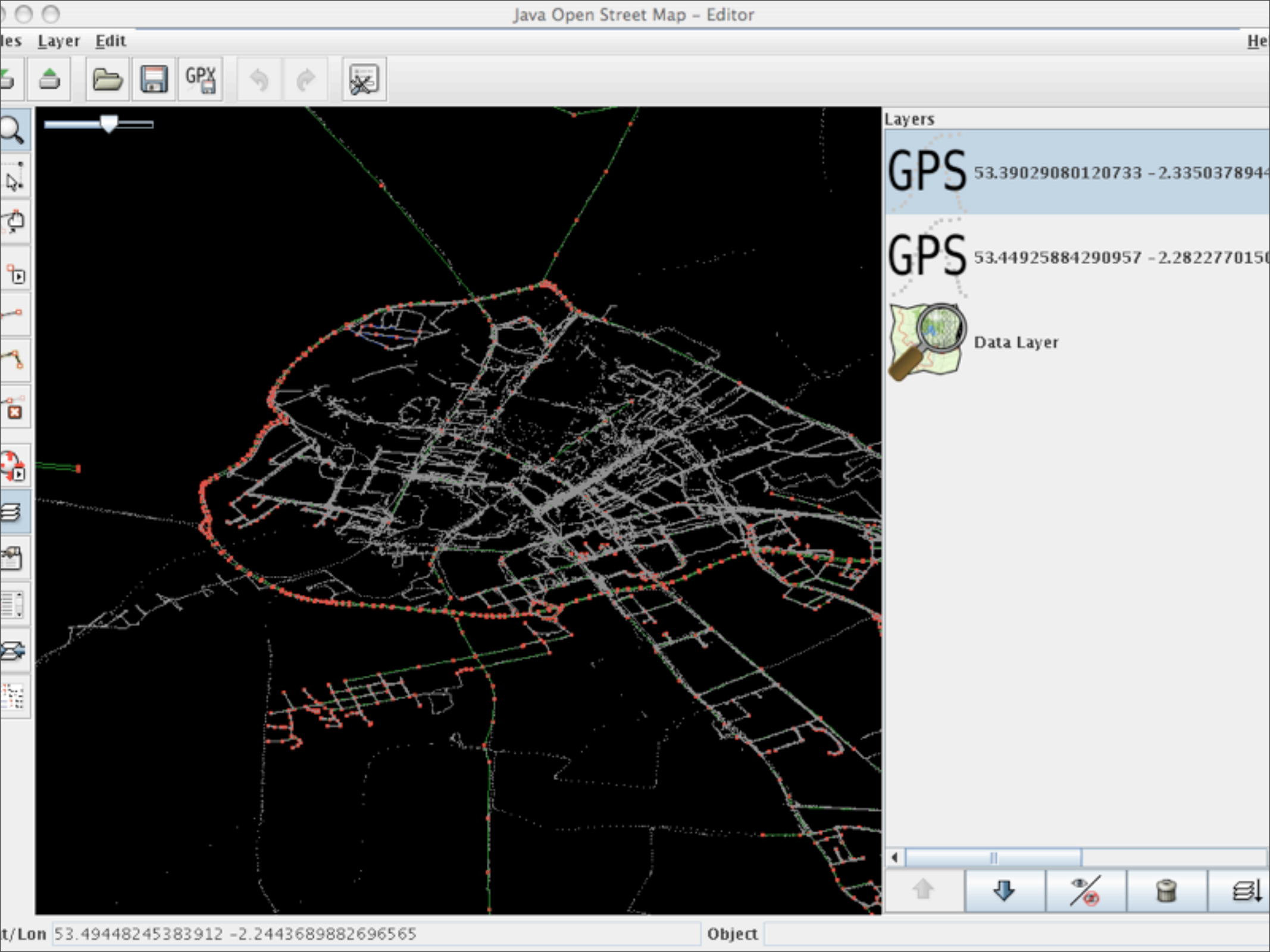


THE SOLENT
SPITHEAD
CALSHOT
COWES
NEWPORT
SANDOWN
SHANKLIN
VENTNOR


Java Open Street Map - Editor
Files
Layer
Edit
Help
GPX
Lat/Lon
50.60508257203862 -1.1324111275132578
Object




Java Open Street Map – Editor
les Layer Edit
He
GPX
Layers
GPS
53.39029080120733 -2.335037894
GPS
53.44925884290957 -2.282277015
Data Layer
t/Lon
53.49448245383912 -2.2443689882696565
Object

Fallout
© 2005 OpenStreetMap.org

SQ.
CANYNGE
LYE
CL.

A-Z

Norman Dennison, director of Geographers' A-Z Map Company, confirms that Lye Close is a lie, which will now be removed. "The idea is to put something on the map to protect copyright," he says. "We try to put it in an area or a part of a road which would not be misleading to the ordinary person in the street. They have been put in out-of-the-way places."

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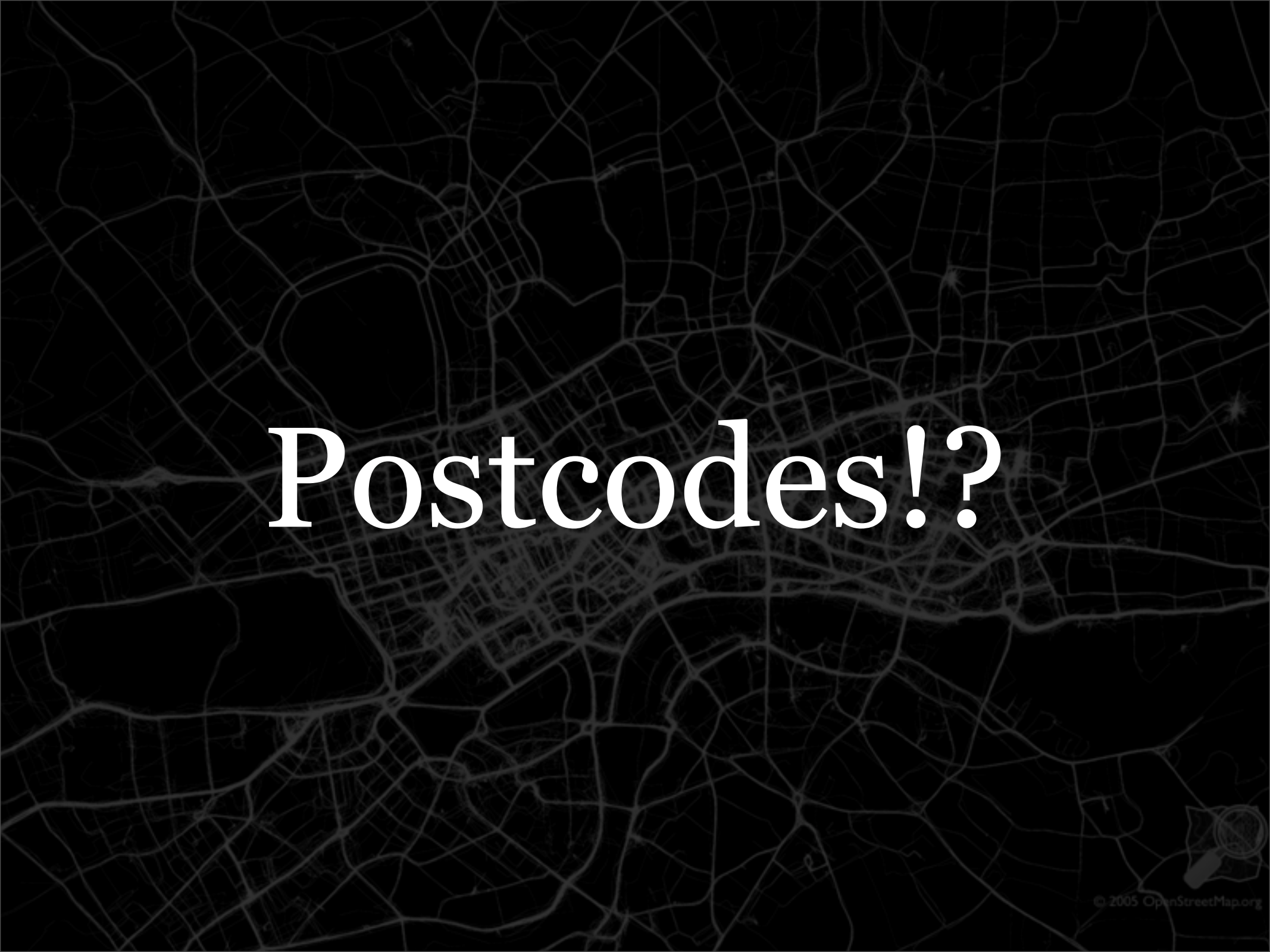
Postcodes!?



57.178650
57.179970 -2.148
57.154300 -2.104150 AB25
57.390770 -1.965510 AB41 8JU
57.365080 -2.071200 AB41 9JB
57.390010 -2.596490 AB52 6UY
51.730907 -0.317316 AL1 1DS
51.733203 -0.346262 AL1 2QL
51.721616 -0.293305 AL2 1GR
51.710522 -0.331070 AL2 2LA
51.714127 -0.333903 AL2 2LE
51.724834 -0.340726 AL2 2PA
51.746314 -0.258973 AL4 0SE
51.770150 -0.296870 AL4 9AH
51.770430 -0.321020 AL4 9NH
51.815879 -0.337272 AL5 5RU
51.821930 -0.214148 AL6 9HT
52.434691 -1.901901 B14 7TG
52.551040 -1.817927 B72 1JU
52.404420 -1.827760 B90 2AA
52.300354 -1.969556 B97 4NF
51.378340 -2.367850 BA2 3BH
53.847590 -1.767370 BD17 5QA
50.682699 -2.123162 BH20 4PF
50.679071 -2.231780 BH20 6EP
-1.977160 BH21 1HJ
BN1 3DA
8DH
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Thanks for listening

Steve Coast

asklater.com/steve/

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