

Rescuing Maps

Using open software and techniques to publish historical maps to the geographic web

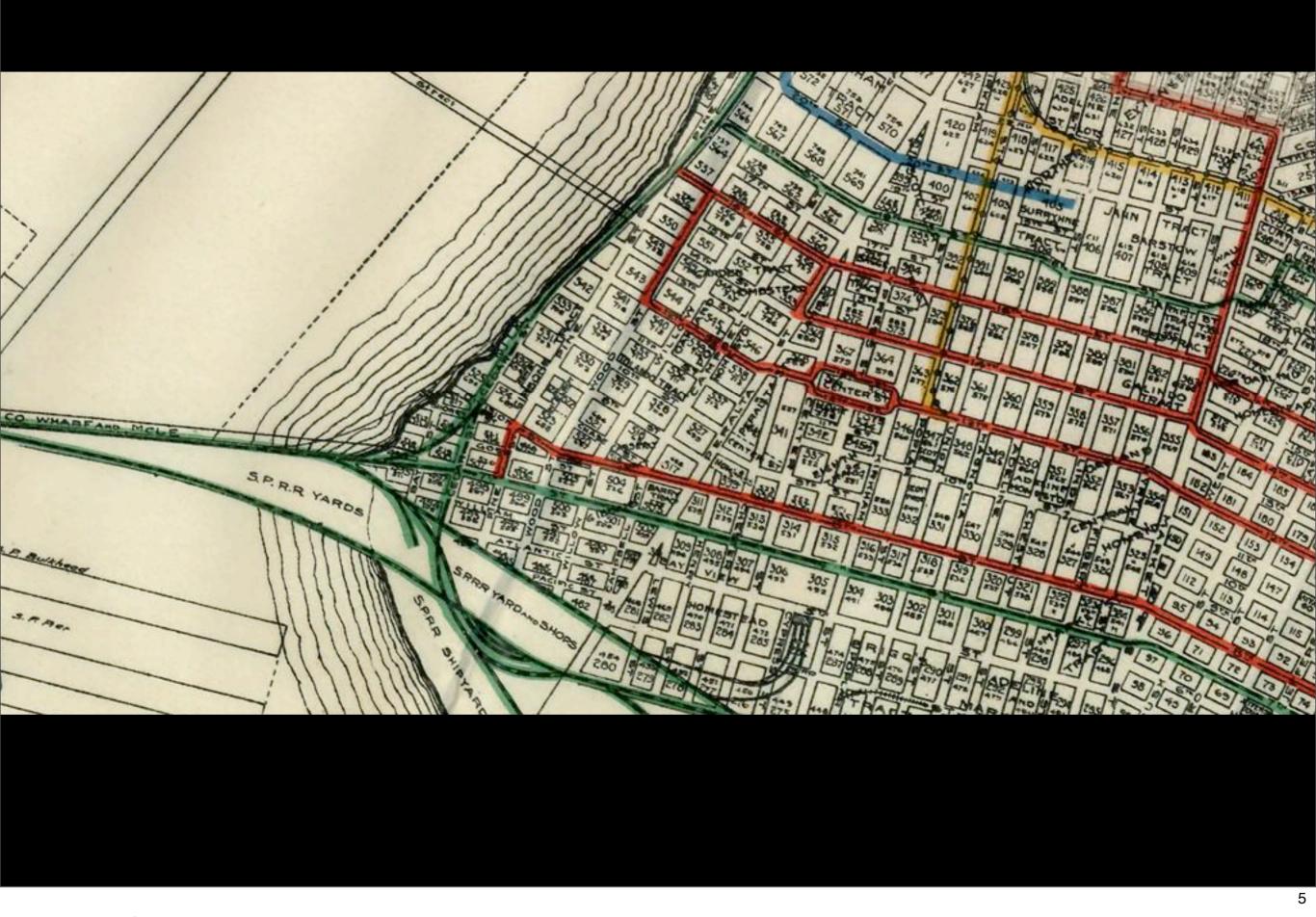
Oakland

http://teczno.com/old-oakland/



1877 Real Estate Map

This is just a few years after the founding of Oakland, and you can see how unformed the city is: regularly-spaced, freshly-surveyed blocks, extending into the bay in some places where it seemed possible to simply fill in your own coastline.



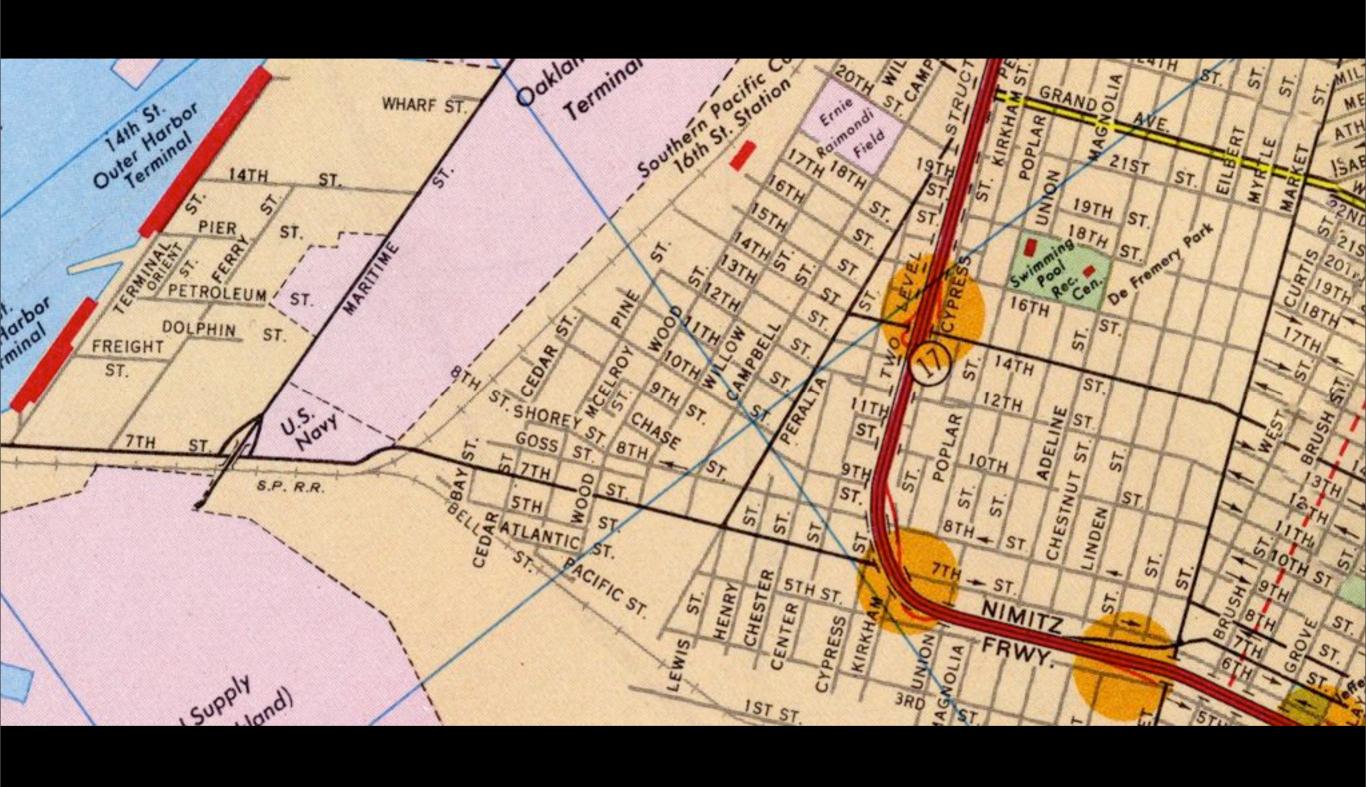
1912 Realty Union Map

Borax Smith's Realty Union was involved in both residential real estate and electric streetcars – the latter made the former possible, so it was important for this map to show the wealth of public transportation available to prospective commuters looking to move in.



1936 Shell Oil Map

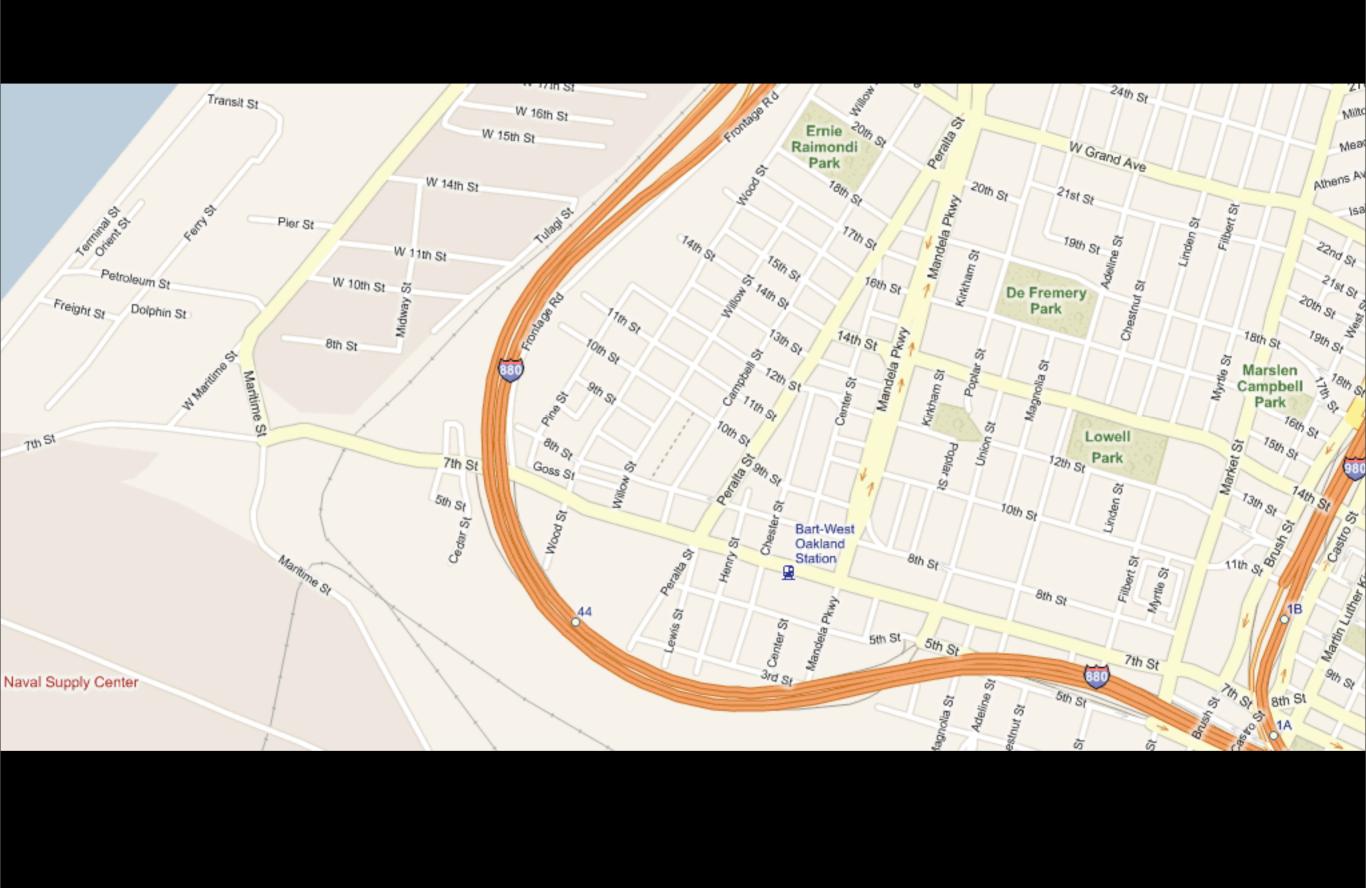
Two interesting things here: the coastline has been extended with no new corresponding residential streets, and rail service is completely omitted, even though the Key Route System was still thriving at this point.



1967 Chevron Map

The Cypress Structure is visible here as a cut through West Oakland; it was reviled by the local residents who felt that it cut their neighborhood in two.





Present day Microsoft Virtual Earth Union Pacific rail right of ways were repurposed to create a new 880 freeway that circumvents downtown.



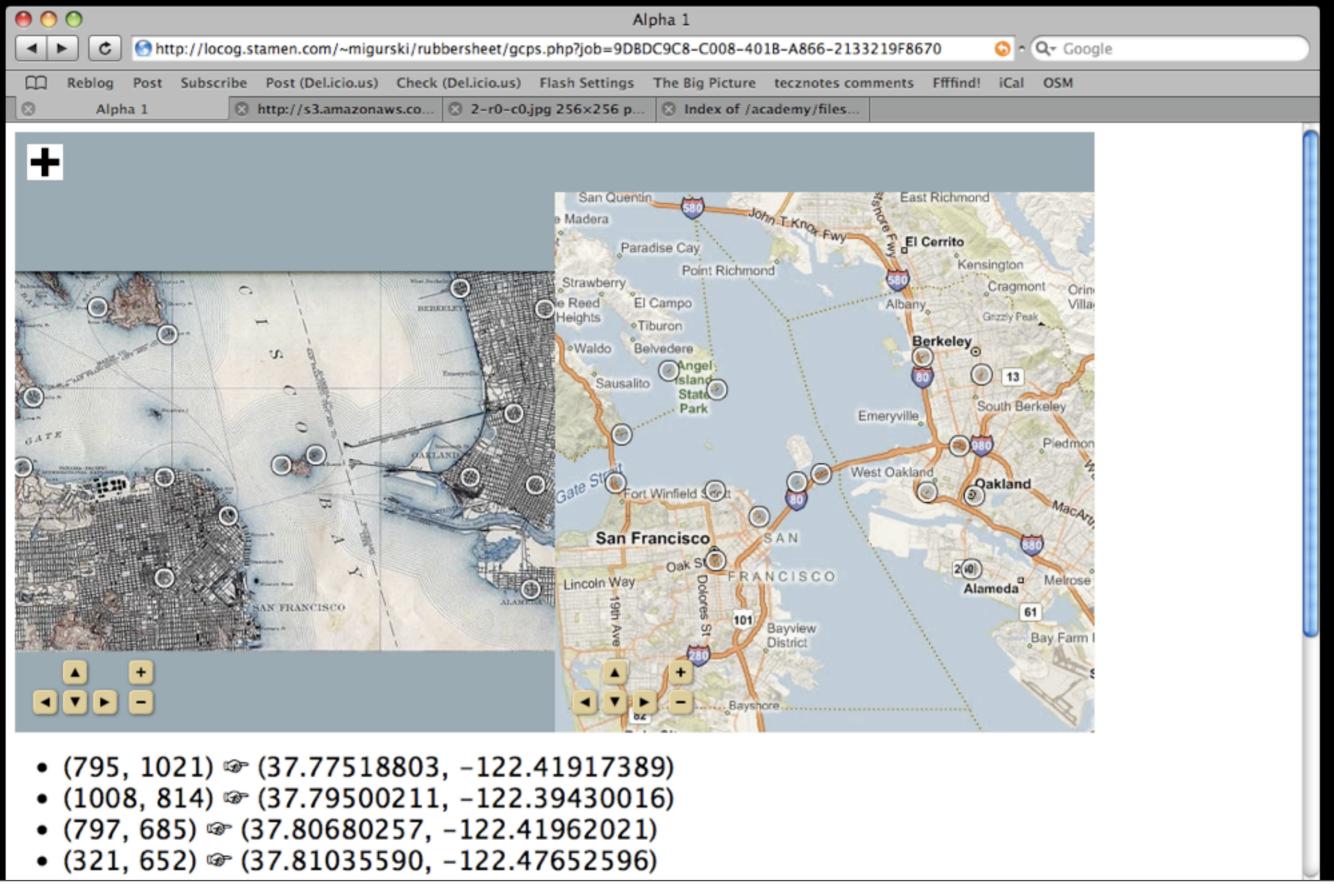
Tools, Process

Scanner, Photoshop, http://getlatlon.com, GDAL



1. I've been buying occasional road maps hoping to fill in a developing picture of the East Bay throughout the 20th century. This is a 1936 road map a lot like one that I have.

"rubber sheet"



2. GDAL lets you define ground control points: places on a given map that you know to be in a certain geographic location. This is a view of a web application I made to speed this process up, but it's possible to use Photoshop and Google Maps to laboriously complete this process.

GDAL + EPSG:900913

http://www.klokan.cz/projects/gdal2tiles/
"Then a miracle occurs..."



Georectified!

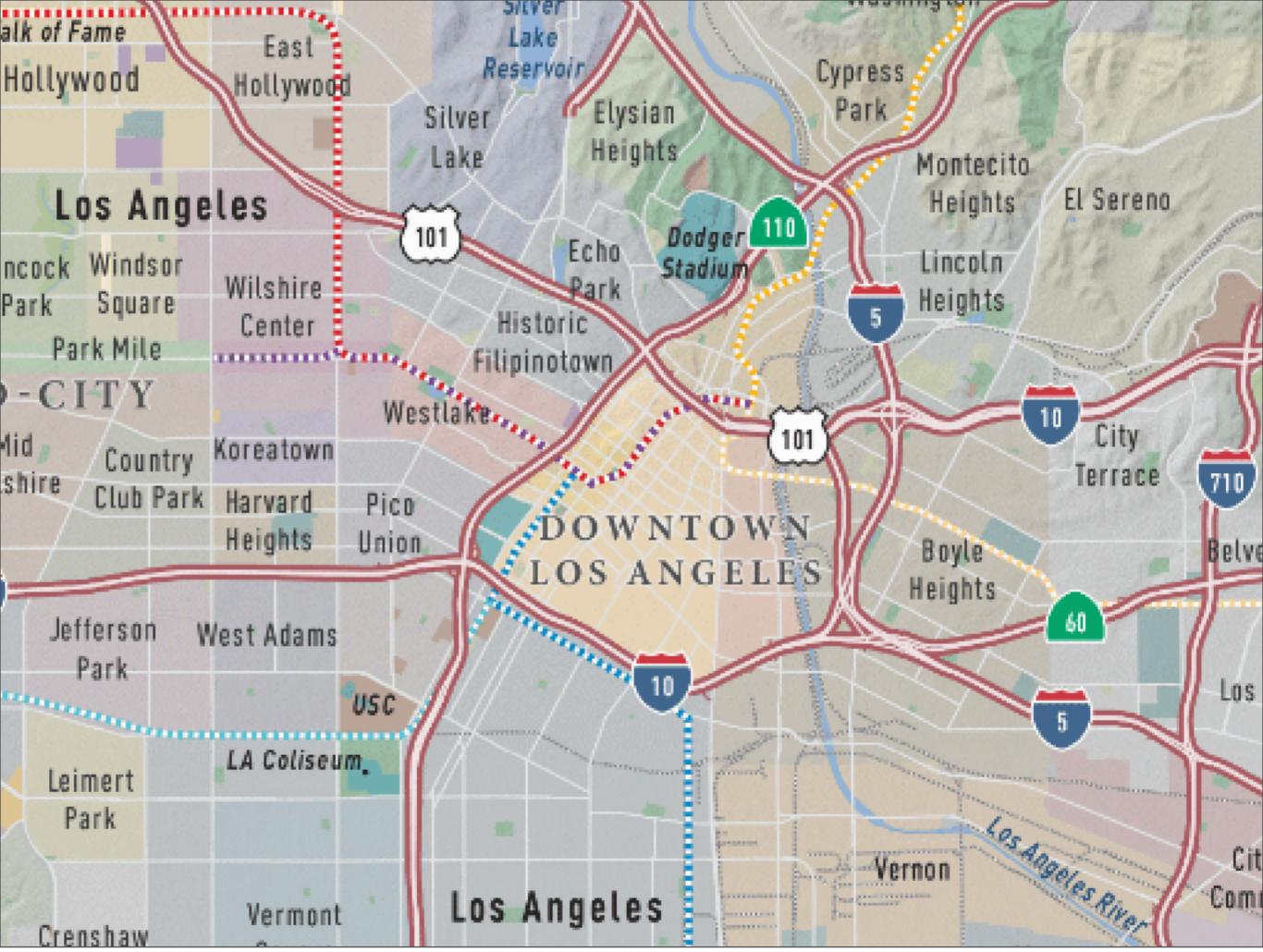
3. GDAL can "rubber sheet" the map to fit the real world's geography: here I've scanned the two sides of the 1936 map and assembled them into their geographically correct positions, and you can see how they're slightly warped.

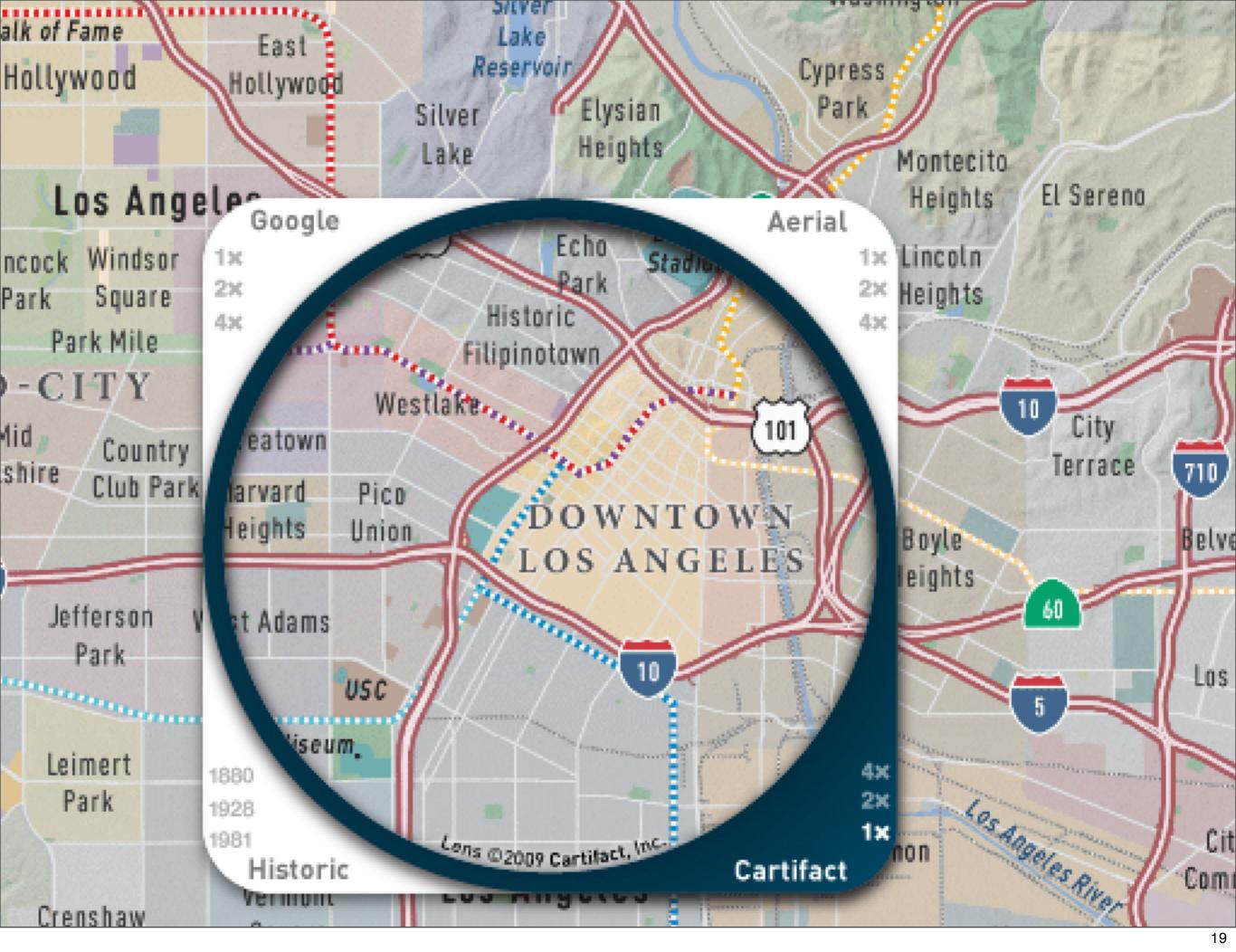
More Cities

Other historical mapping projects

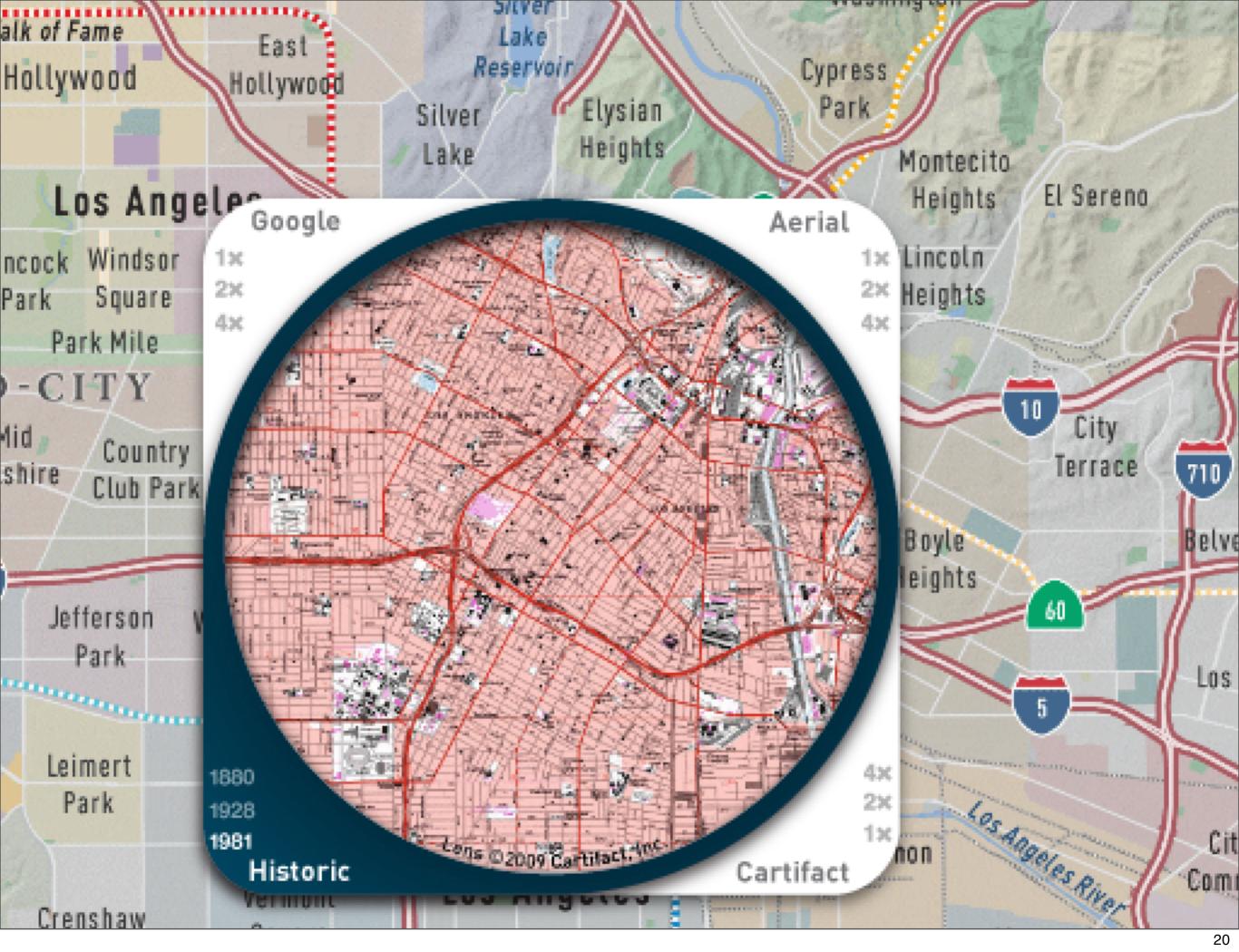
Los Angeles

http://maps.cartifact.com Cartifact, Los Angeles





The lens









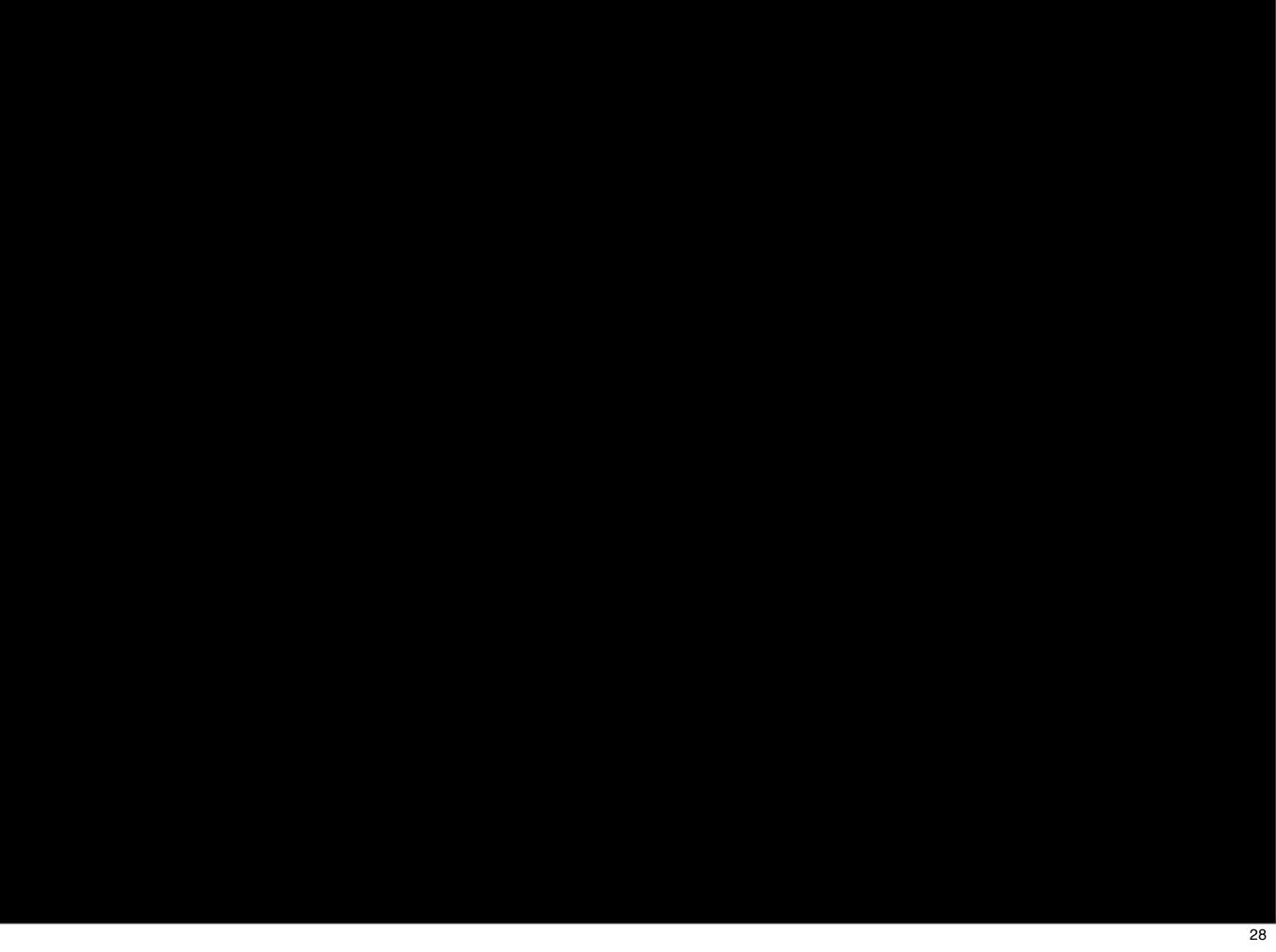






New York

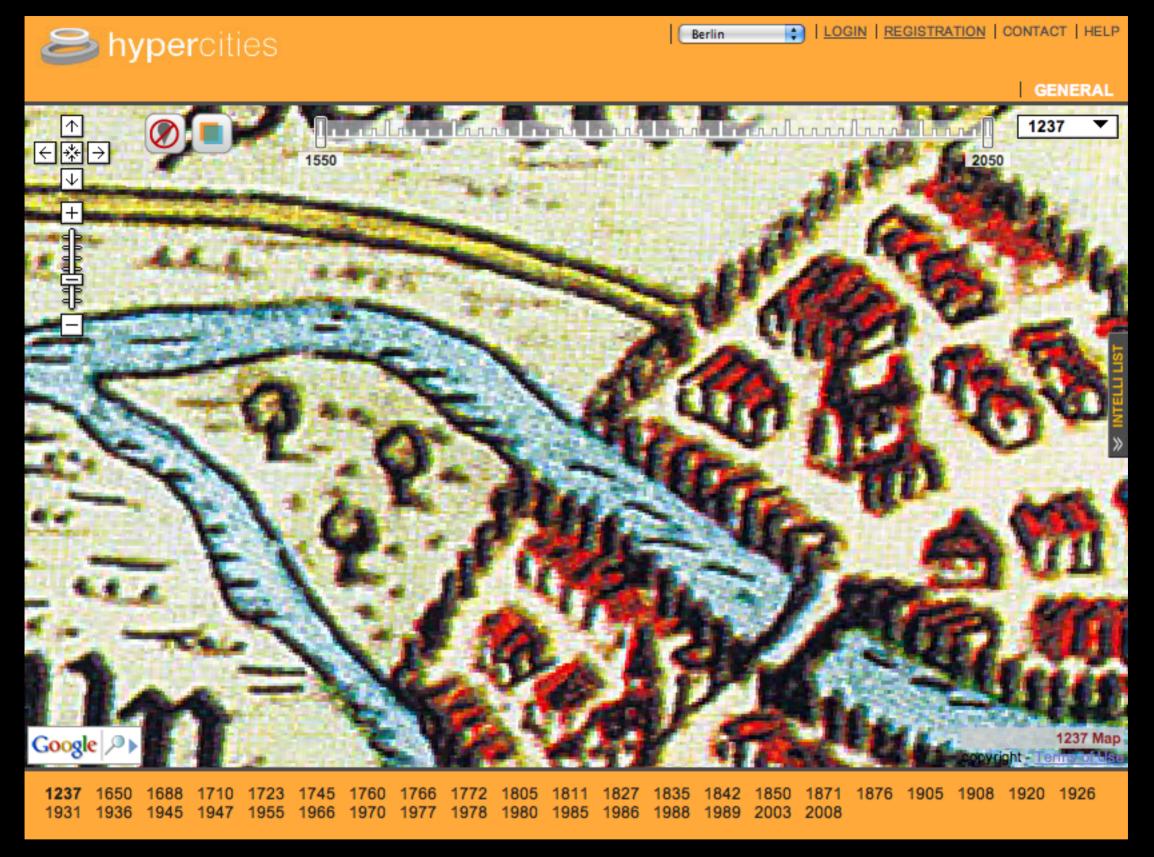
http://oldmapapp.com Martin Ceperley, NYU

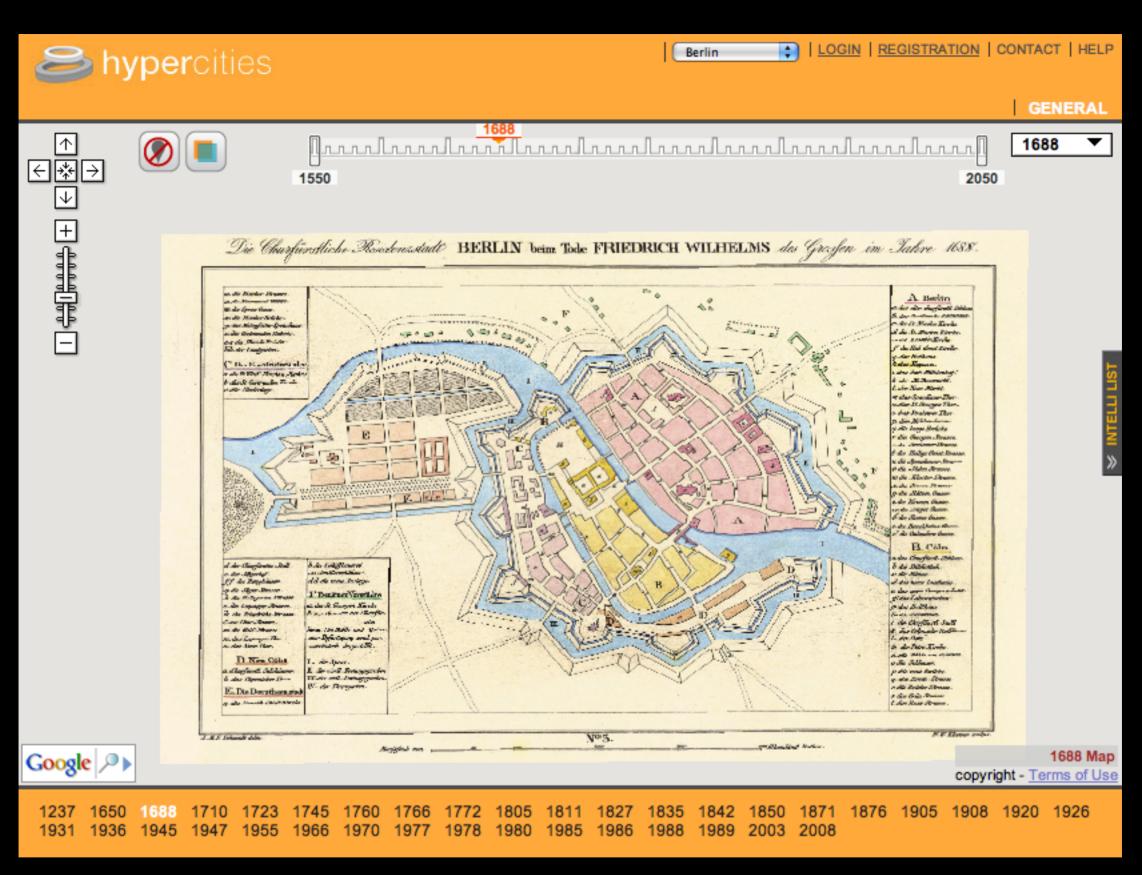


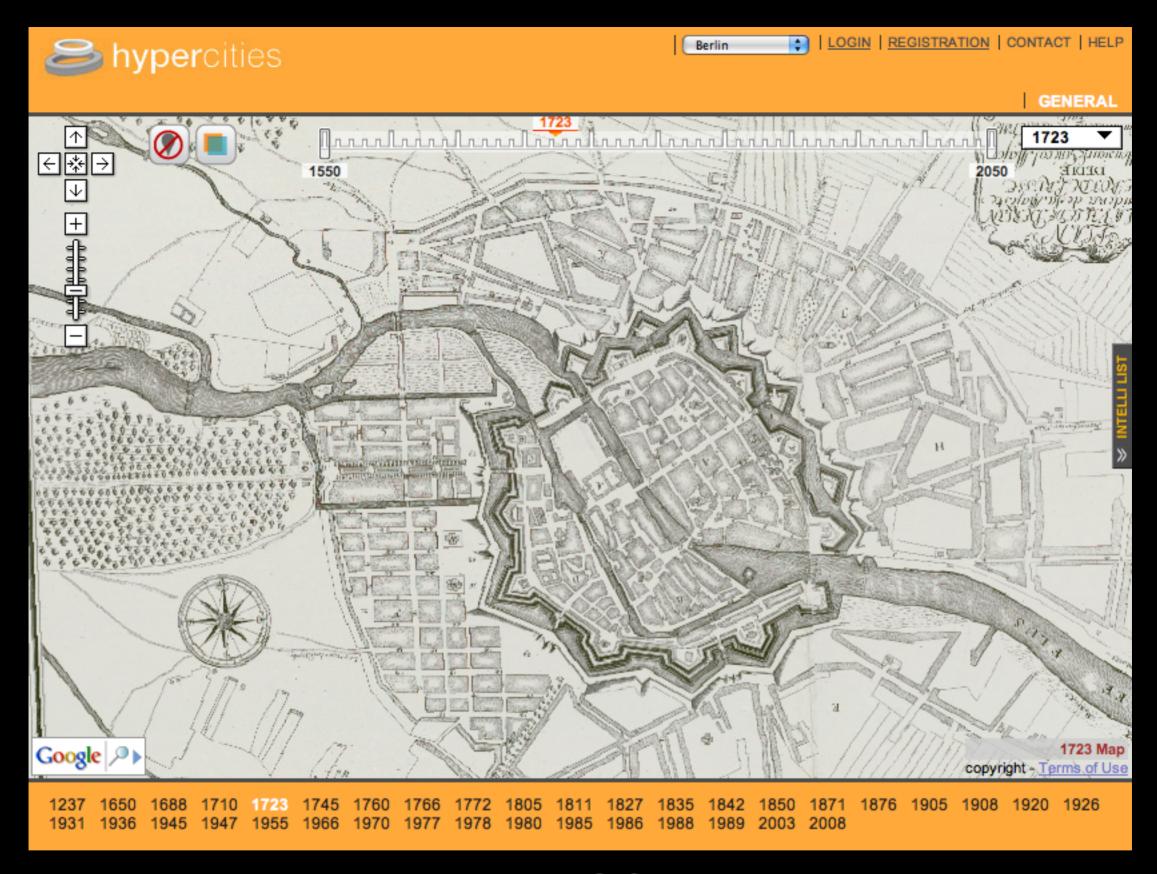


Berlin

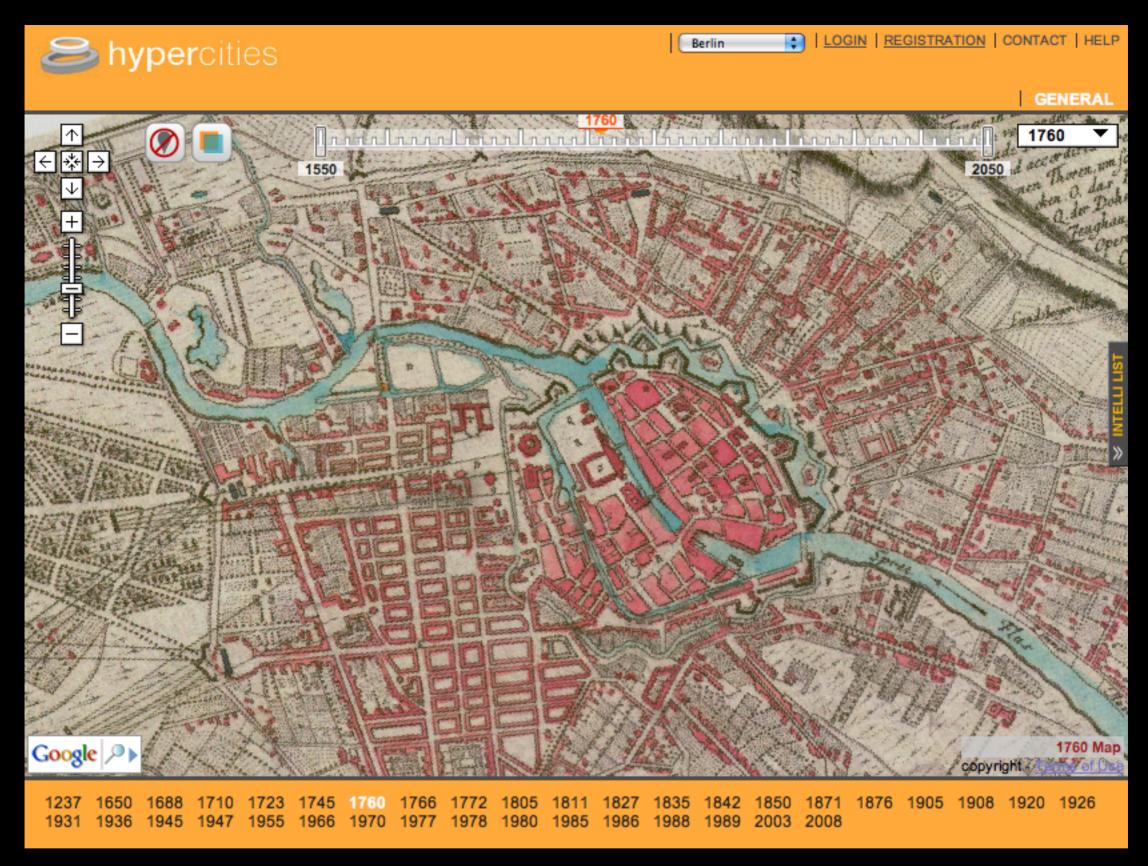
http://dev.cdh.ucla.edu/Hypermedia UCLA Hypercities

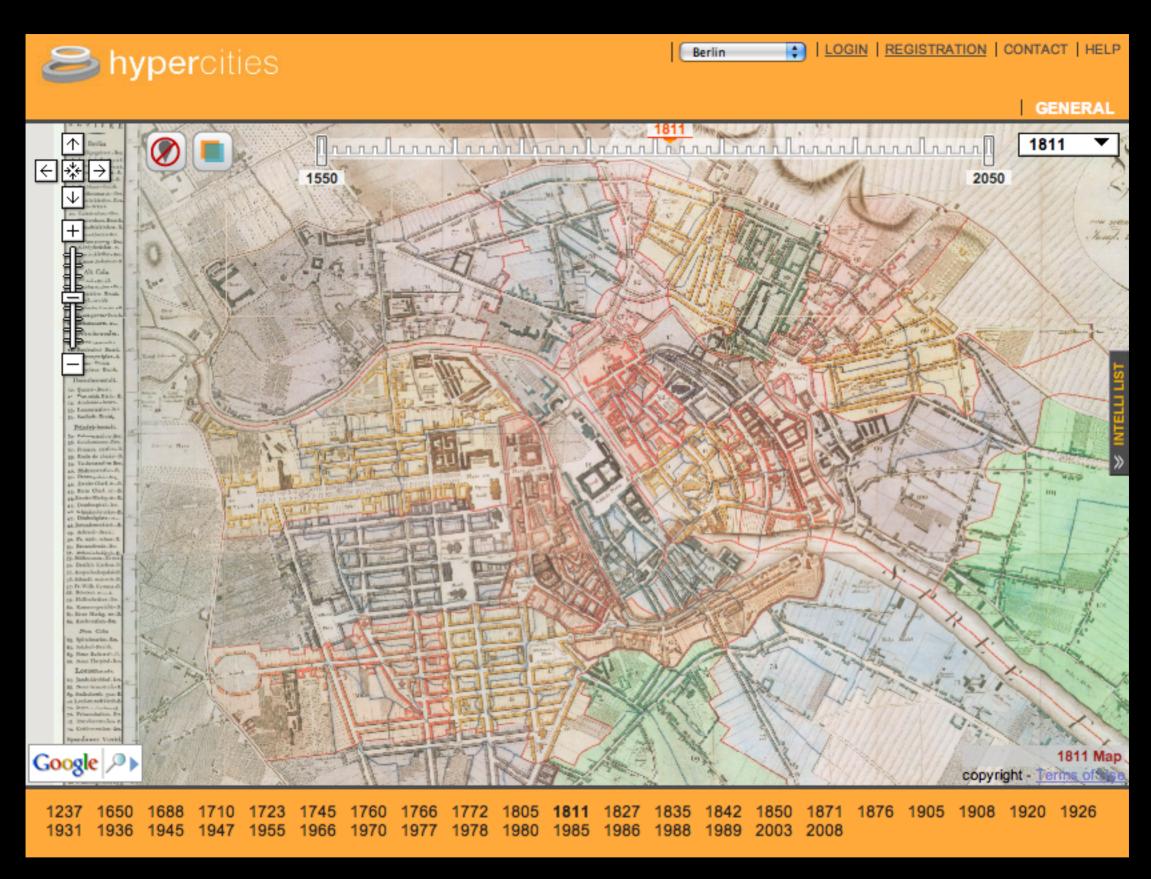






1723





1811

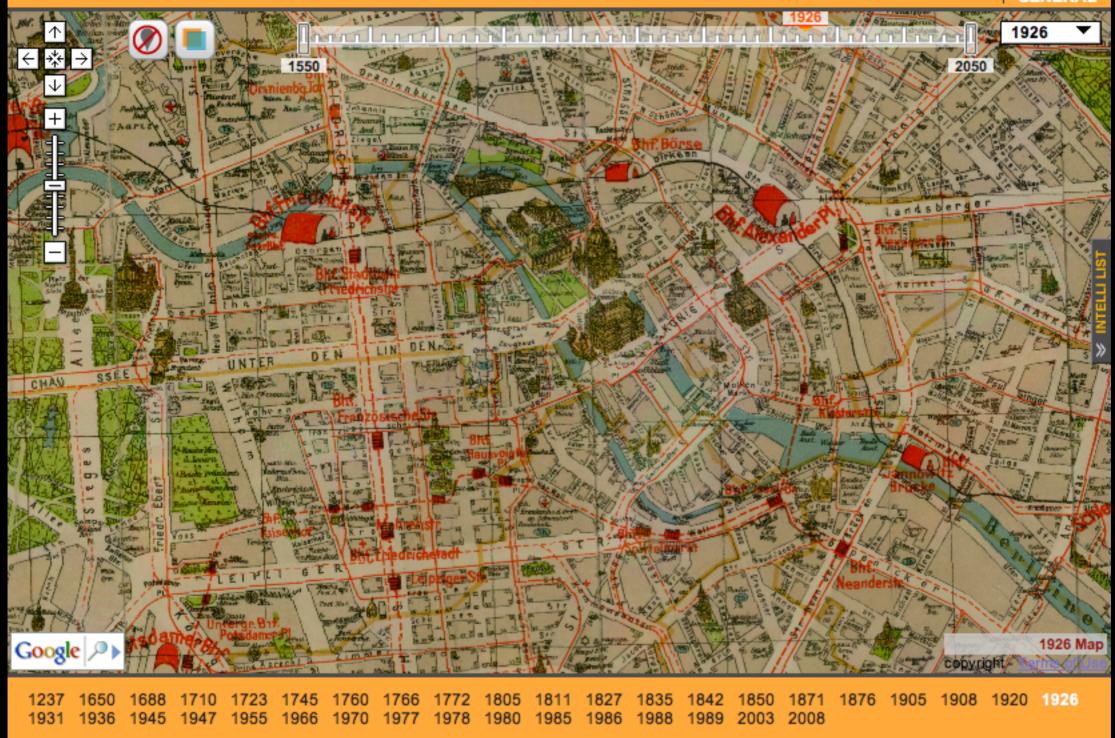




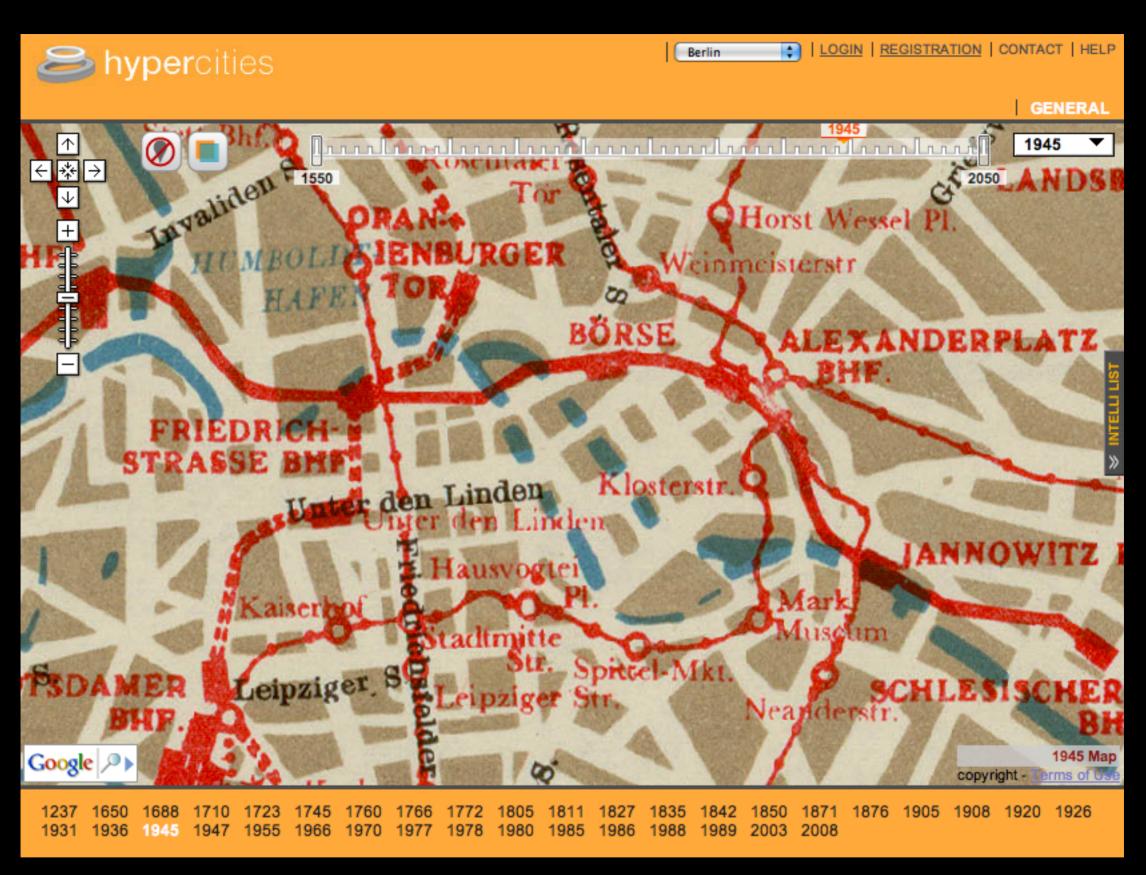
GENERAL

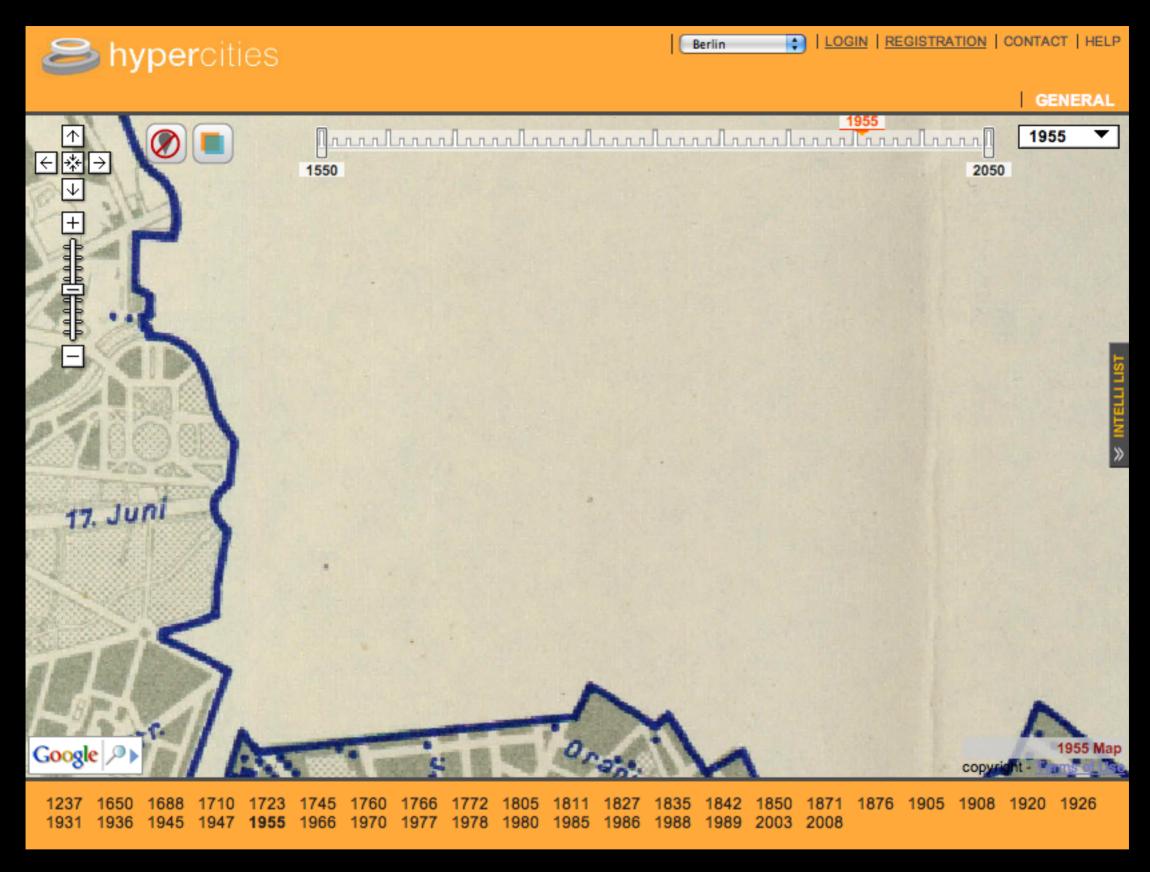


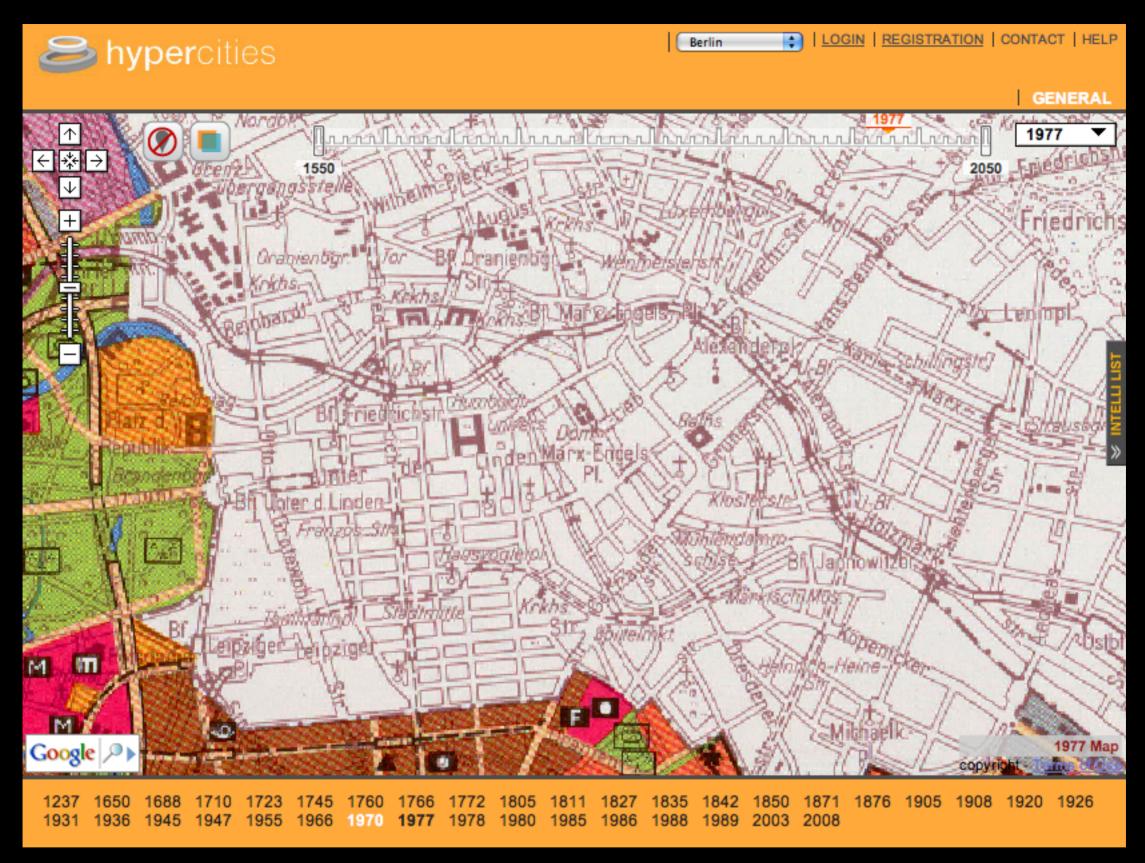
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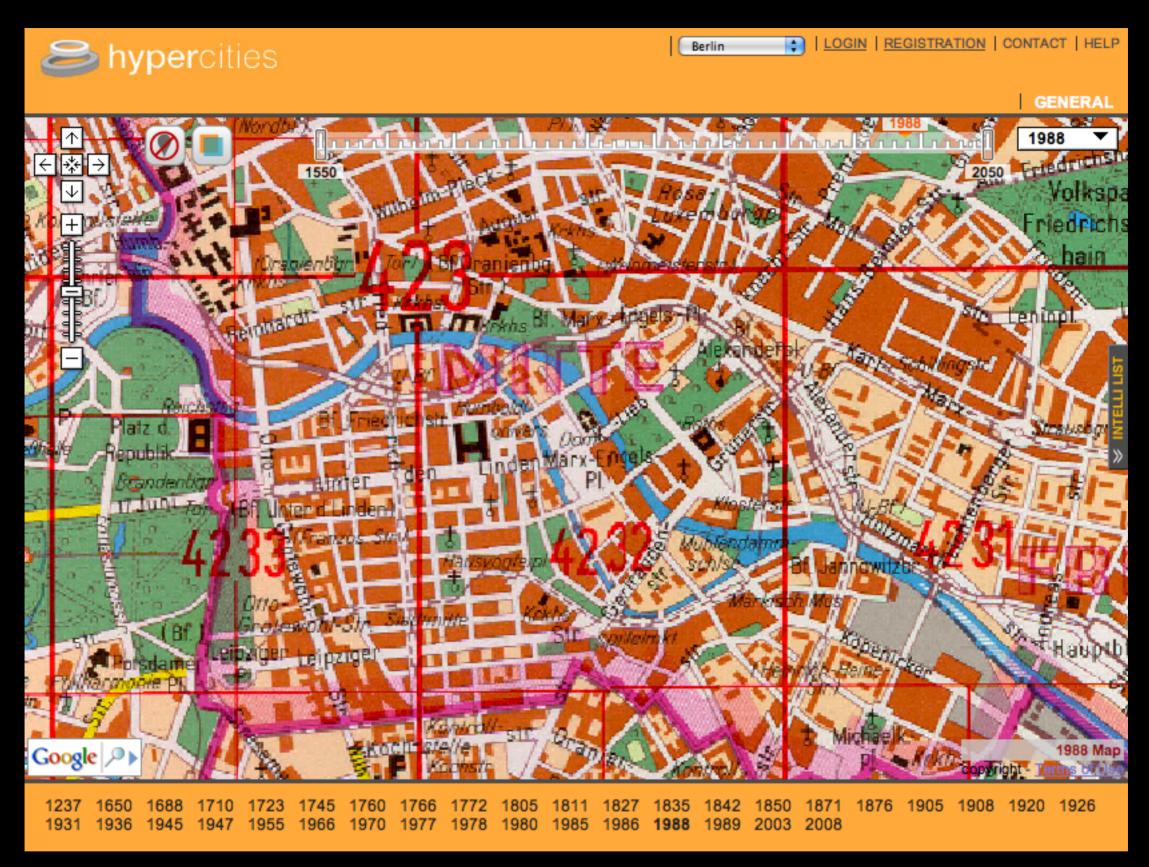


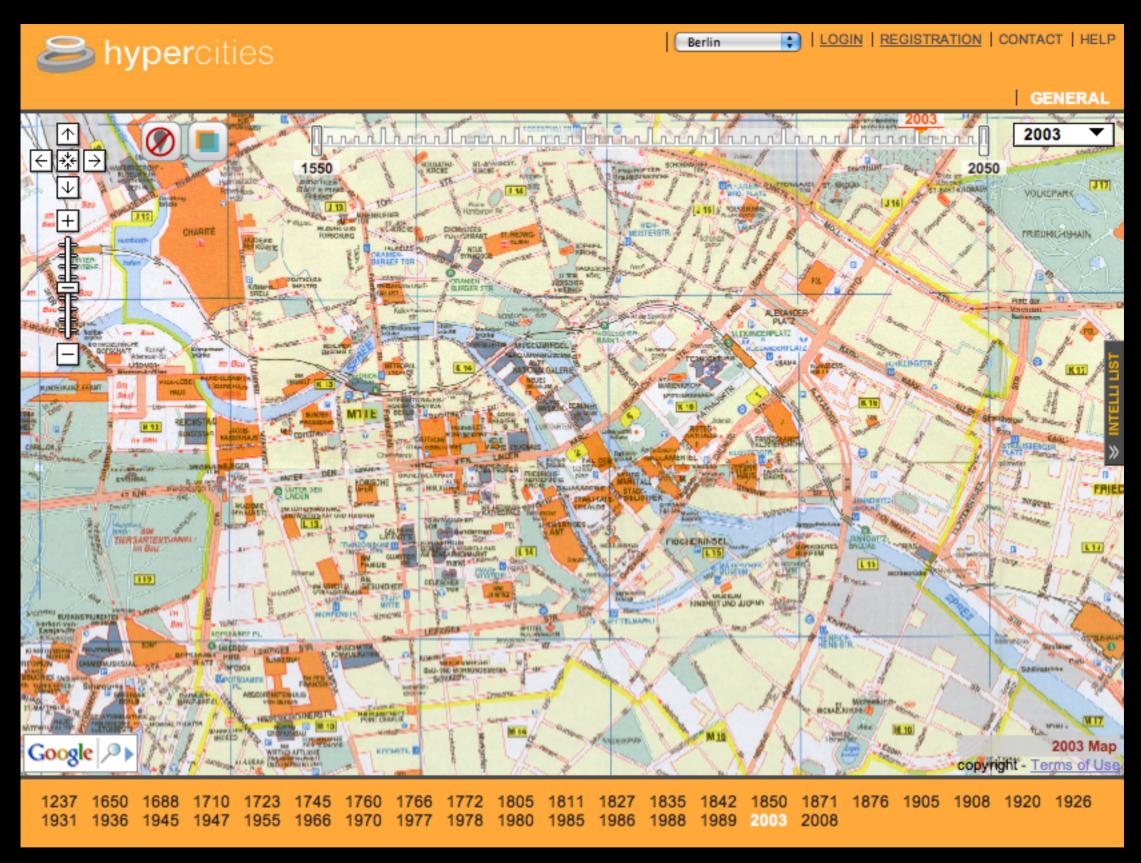
1926









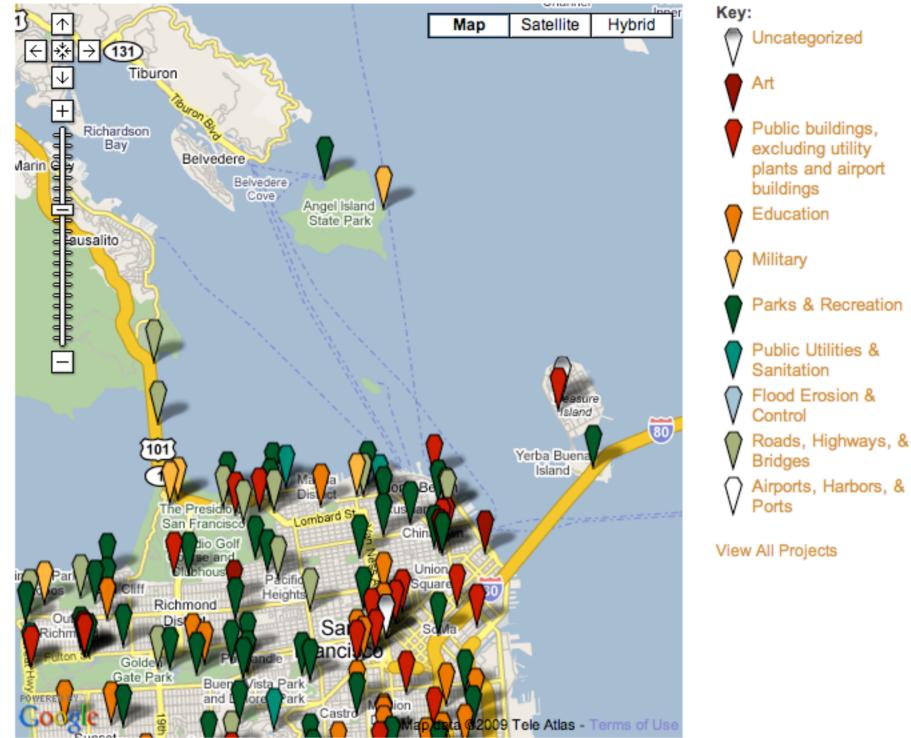


2003

Questions For Maps

What is this? Whose is this? Why is it here now? What was here before?

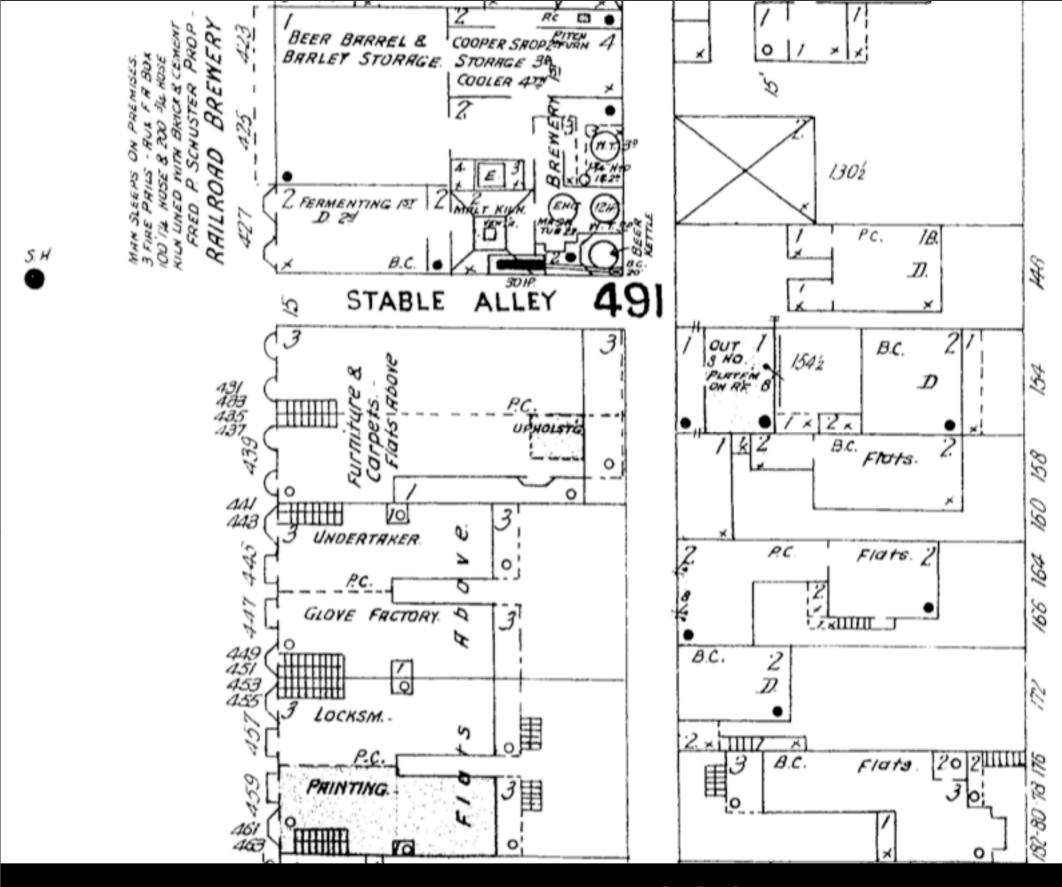




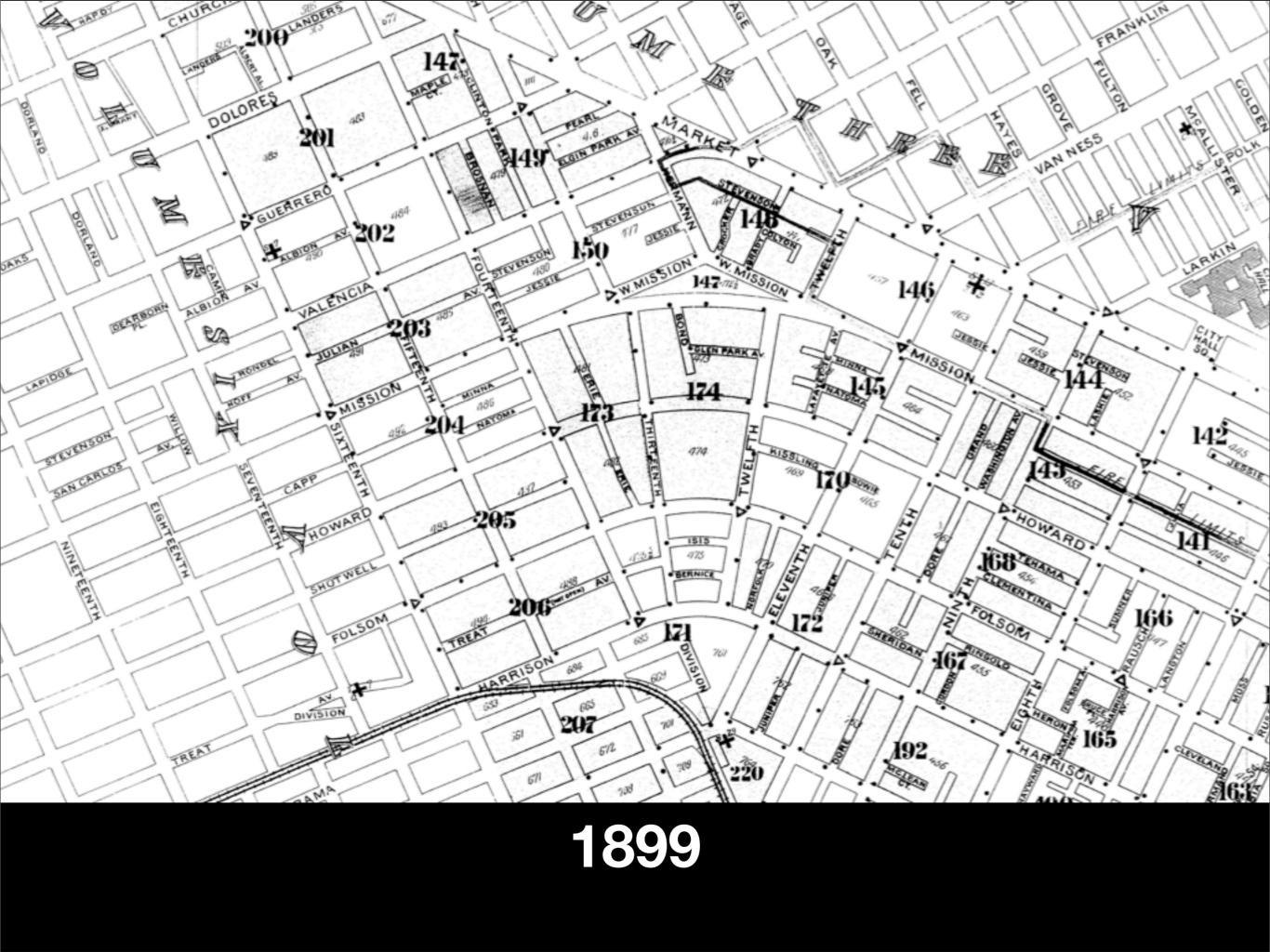
http://livingnewdeal.berkeley.edu/map/

San Francisco

http://www.sfgenealogy.com/sf/sanborn/sanborn.htm
Sanborn Fire Insurance Maps



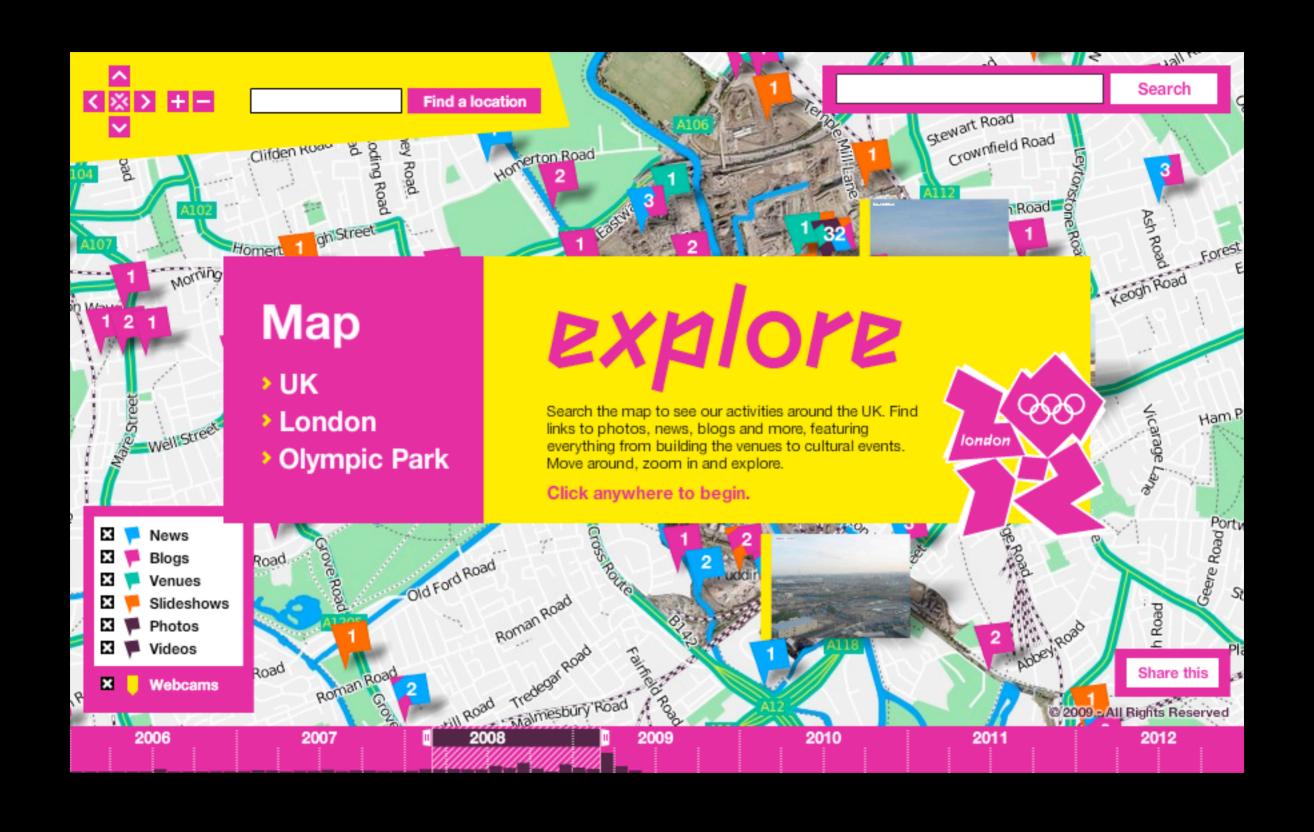
Sanborn produced these highly detailed maps of entire cities for insurance purposes – if a fire broke out, it was important to know precise details of building construction, layout, materials, and what potentially fire-causing tenants occupied each space.



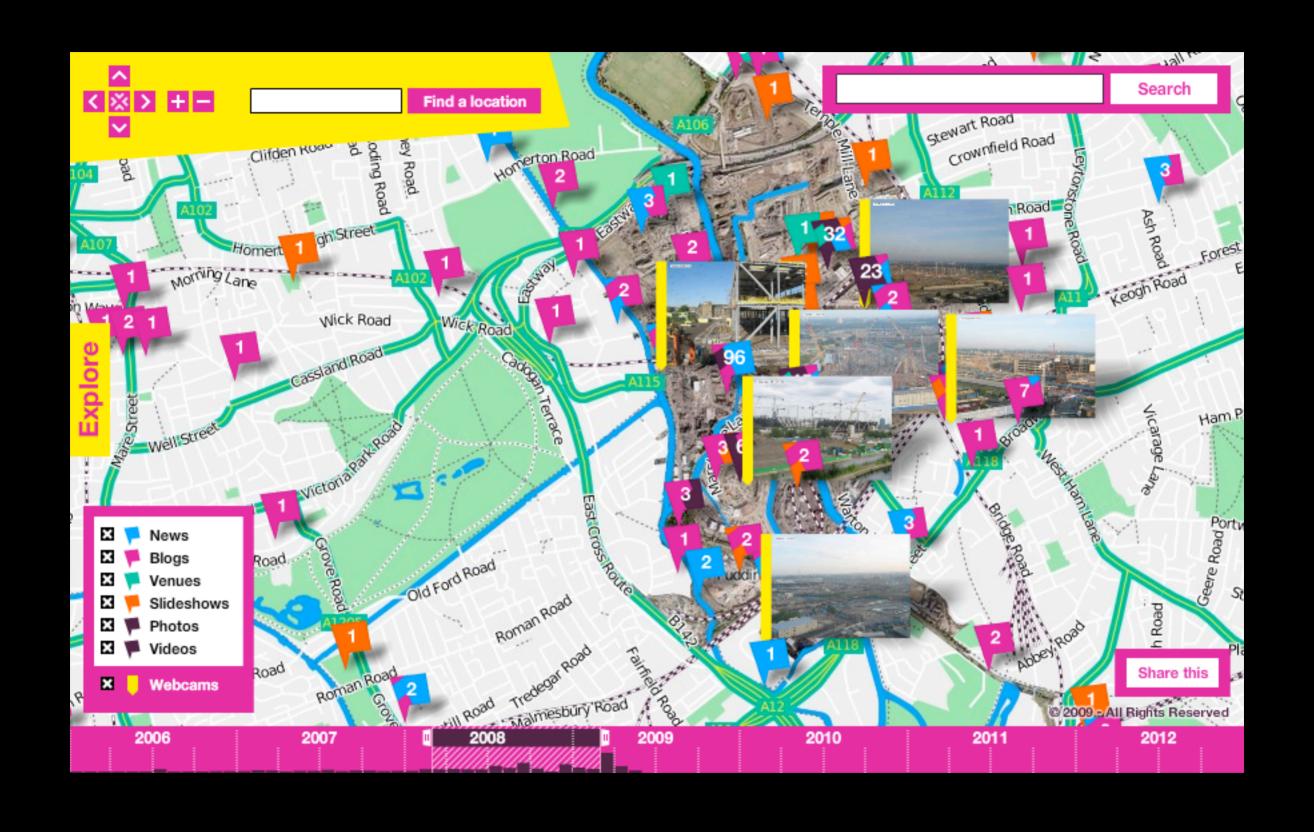
Maps at the previous level of detail were available for San Francisco and many other cities at the turn of the century.

London

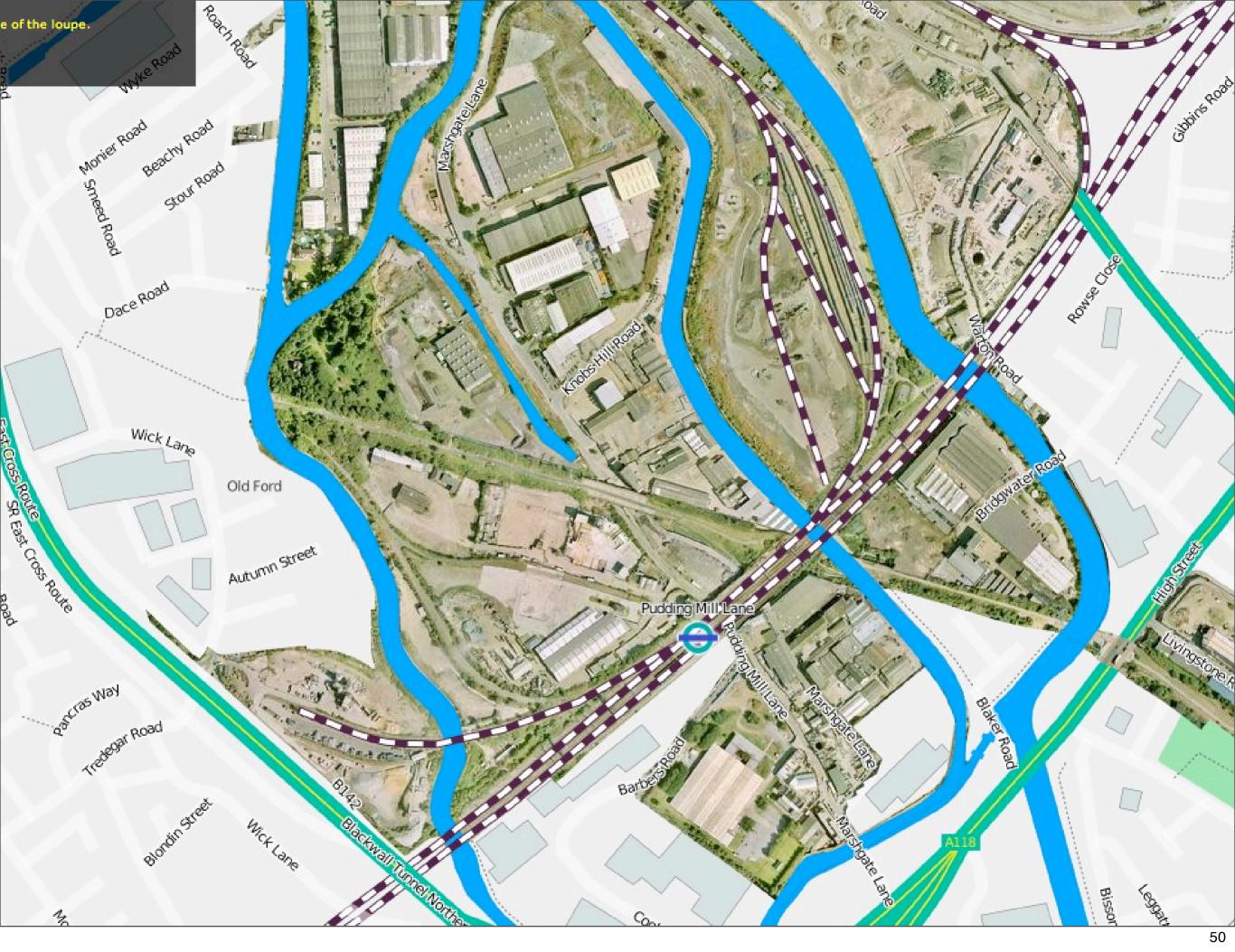
http://london2012.com/map
Stamen's work for LOCOG - the future!



This is the official brand identity of the 2012 Olympic Games in London – their style guide was very strict about these purples and yellows.

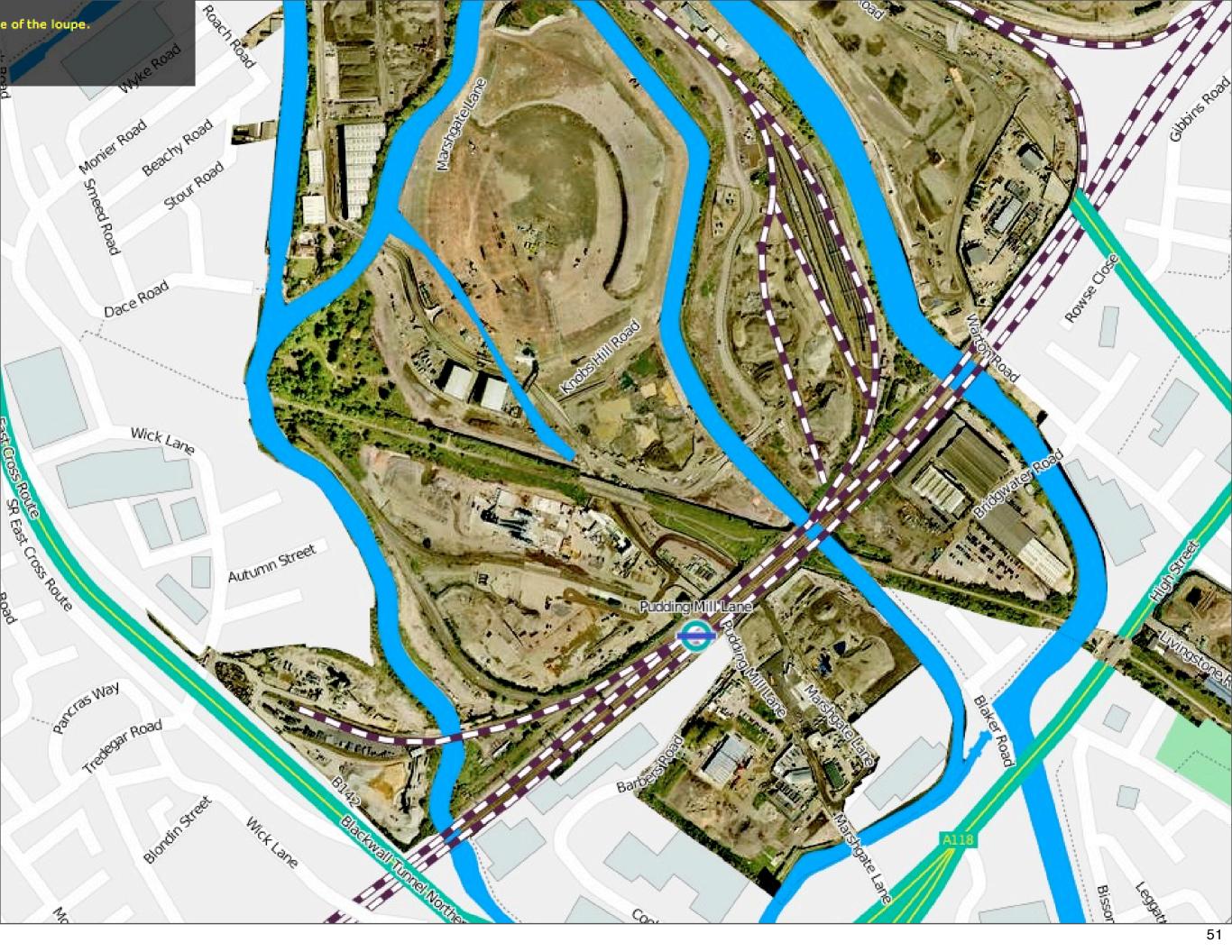


We've created a nation-scale interactive map for communicating the development of the Games for 2012.



August 2007

A major issue in designing the base map was that there is this huge area in east London which is under heavy, active construction – we've applied many of these ideas about preserving pictures of places through georectification



May 2008



October 2008

Rescue Maps!

Find old maps, scan them, tile them, and put them online

