

Area-based Google Maps Mashup

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Project Goal: Google Maps mashup

- Colors areas based on what the population is in that area
- US Census Bureau data
- First area-based?



Show population

Population level: 1 2 3 4 5 6 7

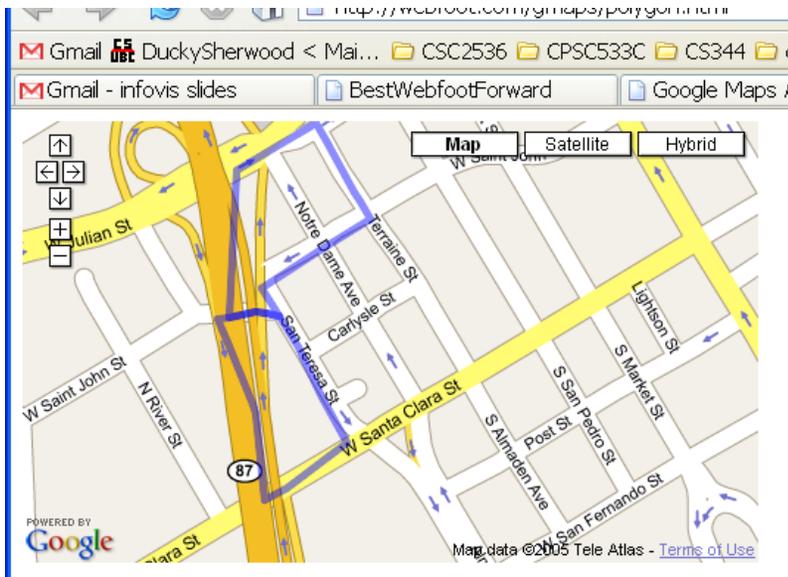
Anticipated Challenges

- Extract polygon coordinates from shapefile
- Extract population data
- Create semi-transparent PNG file
- Aggregate data (for zooming)
- Integrate with Google Maps
- Speed, speed, speed
- Inevitable configuration/integration issues

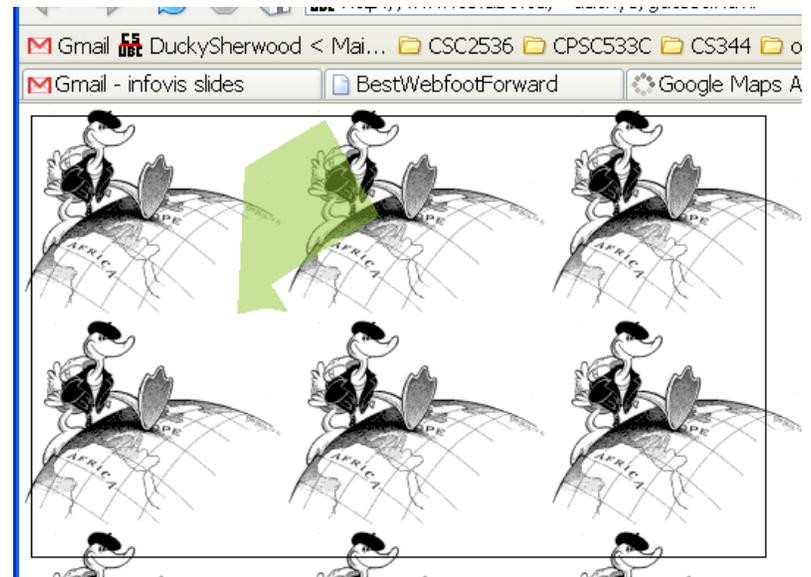
Planned status - done

- Extract one polygon (one census tract)
- Extract population data for that polygon
- Create a PNG file with that polygon transparently colored.

Proof of transparent polygon



Reference – Gmaps lat/long



Created – pixel-based

Challenges

- Census data file format cryptic
- Static vs. dynamic libs issue
- Poor DB tools in Shapefile lib