Here’s how we Interpolate

Julian Simioni, maintainer: Pelias geocoder
Geocoders

addresses
There are lots of addresses in open data

<table>
<thead>
<tr>
<th>Counts</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>total</td>
<td>560.4M</td>
</tr>
<tr>
<td>address</td>
<td>500.7M</td>
</tr>
<tr>
<td>venue</td>
<td>27.2M</td>
</tr>
<tr>
<td>street</td>
<td>22.7M</td>
</tr>
</tbody>
</table>

https://pelias-dashboard.geocode.earth
...but not enough

https://pelias.github.io/scripts-geocoding-coverage/highlights.html
https://docs.google.com/spreadsheets/d/1dNe1XU7b46-v8mmlre4972jvmc2YbxUKyF8eTayMrAE/edit?usp=sharing

@juliansimioni
TIGER: The Coast-to-Coast Digital Map Data Base
History lover distraction links:

http://census.maps.arcgis.com/apps/MapJournal/index.html?appid=2b9a7b6923a940db84172d6de138eb7e

https://www.pinterest.com/uscensusbureau/census-history/
Address Ranges


@juliansimioni
Pelias Interpolation

An open source + open data project to perform global street address interpolation queries. Sponsored by Mapzen.

About

The Openstreetmap and Openaddresses projects provide a huge cache of street address information; between them around 500 million address points are freely available to download.

Some countries like Germany and the USA have dense address coverage while other have only sparse data available.

This project aims to 'fill in the gaps' in the data by intelligently estimating where the missing house numbers would lie on the road.

The service was designed for use with the pelias geocoder, however it can also be used as a stand-alone application or included with other geographic software / search engines.

https://github.com/pelias/interpolation
14 via giusti
https://en.wikipedia.org/wiki/House_numbering

@juliansimioni
these are the funky queens house numbers:

https://github.com/pelias/interpolation/issues/1
The even/odd switching in the western Emeryville section of 43rd St. is odd:

https://github.com/pelias/interpolation/issues/19
@juliansimioni

@migurski your OSM update has resolved the issue, thanks!

https://github.com/pelias/interpolation/issues/19
https://github.com/pelias/interpolation/issues/8
Search for this address: 1601 Willow Avenue, Hoboken, NJ and then click on the Willow Avenue. You can see at either end of the street there are far reaching offshoots.

https://github.com/pelias/interpolation/issues/13
The Future

NEXT EXIT
Autocomplete
Right now building the interpolation dataset takes 16 days :(
What YOU Can Do

- Add streets to OSM
- Add street names to existing streets
- Add addresses to existing OSM venues
- Add postal codes to addresses
- Extra fancy: add address ranges to streets
Thank You!

twitter.com/juliansimioni