CoreLogic®

PxPoint™ Geocoder

Next-generation parcel-level geocoding and spatial analytics

When "Close Enough" Isn't Good Enough

When it comes to mission-critical business decisions, improvements in technology and the availability of accurate digital spatial data enable businesses to analyze information based on a property's physical location and the surrounding geography.

CoreLogic® was instrumental in developing the first national address geocoder. We have once again revolutionized the geospatial industry with PxPoint™, an innovative and next-generation parcel and structure-level geocoding engine that provides exceptionally accurate results, taking location intelligence to the next level.

Unprecedented Accuracy

Designed for applications where positional accuracy is critical, PxPoint is a high-precision geocoding and spatial analytics engine that converts addresses or location information into geographic coordinates of latitude and longitude. PxPoint is unique from other geocoding systems and supports many types of geocoding. To return the best match possible, PxPoint can simultaneously query multiple datasets such as:

▸ U.S. Parcel Boundaries

▸ U.S. Structure Footprints

▸ Premium Street Data

Parcel and Structure-Level Accuracy for the U.S.

For companies in the U.S. that need geocoding precision, PxPoint utilizes the largest parcel database available today. Additionally, an expanding database of structure footprints identifies the location and outline of the relevant structures

● = Street Level Geocode
● = Parcel Geocode
● = Structure Geocode

PxPoint combines parcel and structure-level geocoding and spatial tools into an advanced geocoding platform.

Key Benefits

▸ Delivers true "rooftop" accuracy

▸ Provides spatial analysis for a location

▸ Integrate PxPoint into existing Geospatial Information System (GIS) or business enterprise environments in less than 24 hours

▸ Small footprint

Key Features

▸ Geocodes any map feature type: point, line and polygon

▸ Supports multiple data sets including U.S. parcel boundaries, structure footprints, premium street data and client shapefiles

▸ Open architecture that seamlessly integrates into a client's framework

▸ Meets OpenGIS standards

▸ Easy-to-use API

on a parcel and assigns additional known addresses associated with a structure. These parcels and structures are regularly updated and maintained by the CoreLogic team of GIS professionals. The combination of parcels and structures provides a level of accuracy previously unavailable in any industry. For customers who want additional information on a property, CoreLogic can provide parcel boundaries, owner and other proprietary property data associated with both the parcel and structure.

PxPoint Offers Three Systems in One

- Geocoder: A component that determines the best location for an address
  - 40 Pacifica, Irvine CA 92618 = 33.650355, -117.751017

- Address Standardizer: Input addresses are standardized to USPS standards
  - 40 Pacifica, Irvine CA 92618 = 40 PACIFICA IRVINE CA 92618

- Geospatial Engine: Perform spatial operations and queries between features and layers
  - Query against Flood Risk Score: 40 Pacifica, Irvine CA 92618 = Risk Rating Very Low

A More Robust Geocoding Solution

Unlike our competitors, PxPoint processes spatial layers to provide valuable insights about a geocoded location and its surroundings. For example, what is the risk of flood for this location, or how far is the location from the coastline? Many spatial operations are available in PxPoint, including point-in-polygon and distance-to-nearest.

- Nearest
  - Determine the closest polygon or other geometry in a layer to the specified point
    - How far is this location from the nearest flood risk?

- Compute Distance
  - Find the distance between the point and the selected geometry
    - Which is the nearest responding fire station?

- Get Related
  - Find items in the Structure, Parcel, or USPS datasets that are related in some way to the geocoded record
    - What other parcels are on this same block?

PxPoint for the Enterprise

The parcel-level geocoding and spatial processing capabilities from PxPoint, provide accurate location intelligence that supports decision making for almost any industry, including:

- General Business
- Government
- Insurance
- Oil and Gas
- Real Estate
- Telecommunications
- Transportation
- Utility

Web-Based or Installed PxPoint

- Integrate PxPoint behind your company's firewall
  - Hardware: 90 GB of disk space, 4GB of RAM recommended
  - PxPoint is a native C++ library supported on both Linux and Windows x86-64 (64-bit) versions

- Access the power of PxPoint over the Web
  - Simple Requirements

- PxPoint via QGIS Plugin
  - Provides the ability to geocode via PxPoint and display PxPoint layers within the QGIS Program

For more information, visit corelogic.com/locationinformationsolutions.

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