

# Postal boundaries database product sheet

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# Introduction

GeoPostcodes is a Belgium-based company specializing in postal data sets.

With over 10 years experience in the collection, treatment and enrichment of postal information at worldwide scale, we pride ourselves in offering the most accurate and stable data on the market.

Our products include datasets about administrative regions, ZIP/postal codes, localities, streets and postal boundaries. Each product is the result of a careful data analysis, curation and data quality improvement process combining a multitude of sources using proprietary GeoPostcodes data processing and GIS tools.

Our files are fully geocoded and provided in a plain and simple, consistent format, easily importable in any DBMS or geographic information systems (GIS).

We aim to help our customers achieve their goals by providing them with the most accurate and up-to-date data about the world.

GeoPostcodes currently develops and maintains 4 products:

- a postal database;
- a streets database;
- a postal boundaries;
- an administrative boundaries database.

## Postal database

Our postal database includes **all relevant postal information at the town, village, neighbourhood and suburb level**. For every

**Madrid 04810**

**Paris 75001**

**Stockholm 100 04**

**Ciudad de México 01000**

**Bangkok 10700**

**Roma 00010**

country in the world, it contains the administrative divisions, the localities and their related ZIP/postal codes, as well as geocodes to link the data with other data sources.

Typical use-cases leveraging the postal database are **ERP integration for services and logistics (including shipping distance estimation) and master data management**. It can also be used to validate forms, create regional reports, etc.

## Streets database

Our streets database includes the postal database and extends it with street information. It contains all administrative divisions, localities, streets and related ZIP/postal codes of a country, as well as geocodes to link the data with other data sources.



The streets database is relevant for the same use-cases as the postal database (ERP integration, master data management, address validation), with an extra layer of streets and, consequently, more precise information (streets, house numbers) and coordinates.

## Postal and Administrative Boundaries databases

The Postal and Administrative Boundaries databases provide the areas covered, respectively, by postal codes and administrative divisions. They are delivered as vector postal boundaries, coming from a topological model which ensures adjacent polygons perfectly match together (boundaries are shared).

The postal or administrative boundaries database is the product you need if you want to display your own data on a map (e.g., sales figures per postal code or administrative division).



# Postal boundaries database

The postal boundaries database provides the areas covered by postal codes. It is delivered as vector postal boundaries, coming from a topological model which ensures adjacent polygons perfectly match together (boundaries are shared).

The boundaries are fully compatible with other GeoPostCodes datasets. Please note that, for countries using micro-postcodes systems (Ireland, Netherlands, Great Britain, Portugal, Argentina, Brazil, USA, Canada, Malta, Singapore, Khazakstan, Israel, Chile), our boundaries map to the macro-level (first N characters of the postal code).

Polygons are closed, ideal for shaded mapping, statistical analysis and segmentation. They can be used in business intelligence systems, GIS software, analyse shaded trend maps and many other tools.

## Data Design

Our postal boundaries database is delivered through one single file containing the following fields:

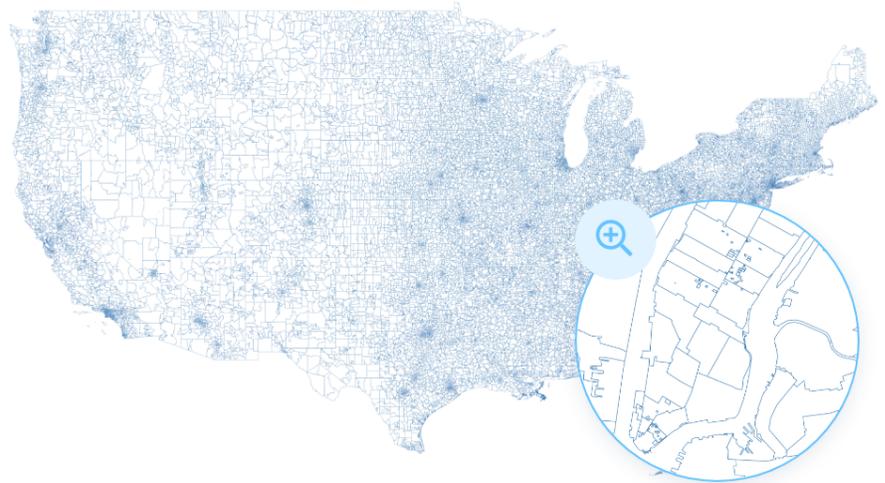
Field name	Field type	Description	Comments
ISO	Char(2)	ISO 3166-1 Country code	The ISO 3166-1 standard is published by the International Organization for Standardization (ISO) and defines a unique code for the name of each country. The <a href="#">country codes</a> are represented as a two-letter code (alpha-2).
ZIP	Char(15)	ZIP / Postal code	
SQUARE_KM	Double	Surface area	Surface area covered by the postal code in square kilometers
geometry	MultiPolygon	ZIP shape	The polygon corresponding to the postal code, delivered as a <a href="#">MultiPolygon</a> in the WGS84 datum

# Resolutions

The postal boundaries database is available at two precision levels:

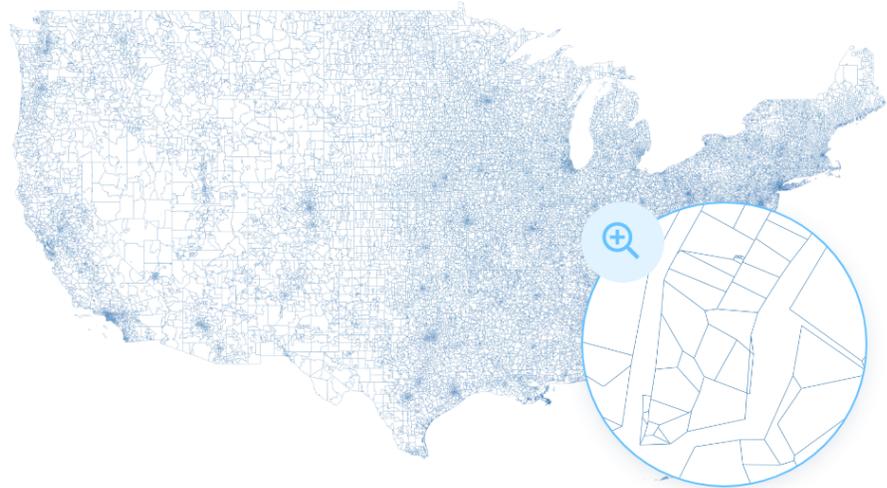
## High-precision

Shapes are kept in their highest level of detail which is needed for high-precision applications such as geofencing.



## Visualization precision

Shapes simplified for visualization purposes; suitable for most reporting and visualization applications.



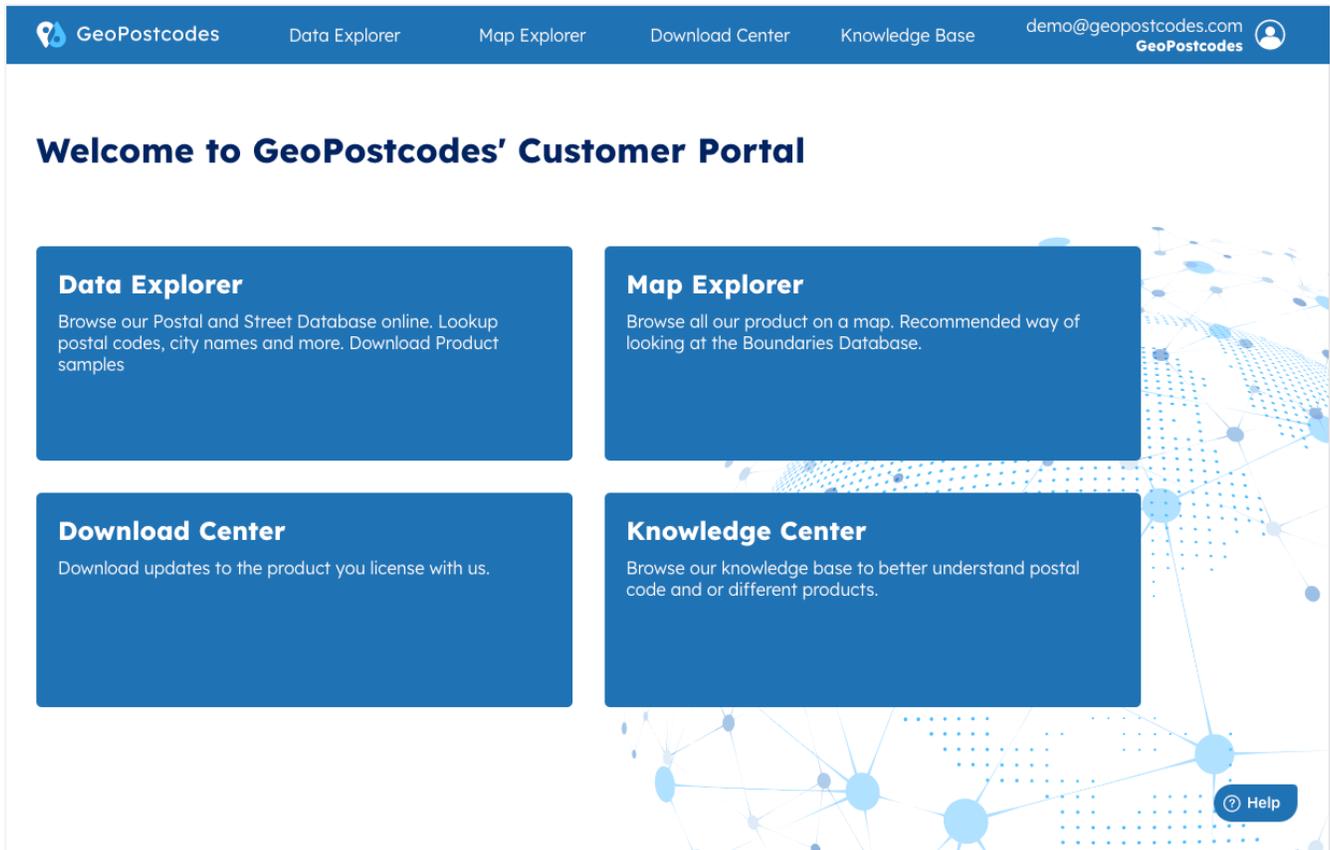
## File formats

Our postal boundaries database is available in the following formats:

Format	Description
KML	The Keyhole Markup Language is a popular geographic format using XML notation. It is maintained by Google.
GeoJSON	GeoJSON is an open standard format for encoding collections of geographical features along with their non-spatial attributes using JavaScript Object Notation.
Shapefile	ESRI Shapefile format is a popular geospatial vector data format which can be imported into most geographic information system software.

# GeoPostcodes Customer Portal

As a GeoPostcodes customer you'll have access to our Customer Portal at <https://portal.geopostcodes.com>.

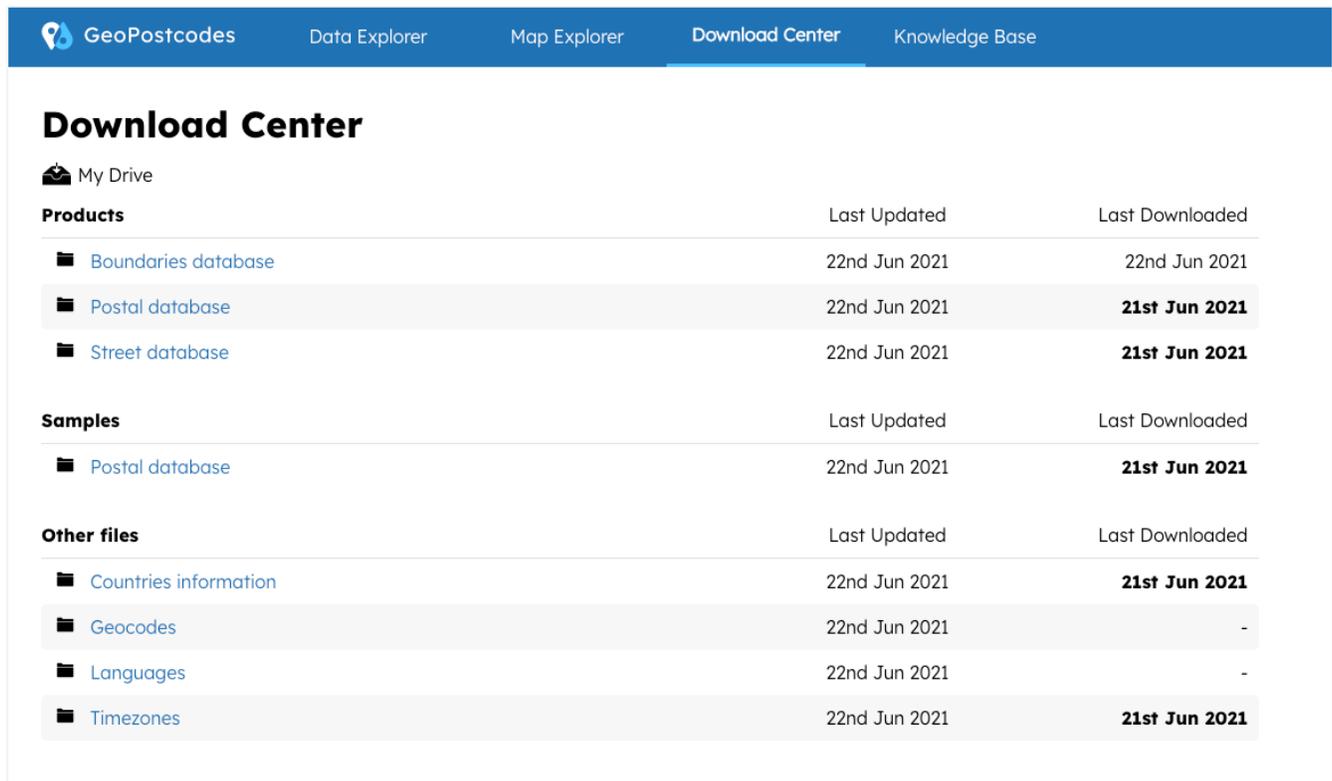


The screenshot shows the GeoPostcodes Customer Portal interface. At the top is a dark blue navigation bar with the following items from left to right: the GeoPostcodes logo, 'Data Explorer', 'Map Explorer', 'Download Center', 'Knowledge Base', the email 'demo@geopostcodes.com', and a user profile icon. Below the navigation bar is a white main content area with the heading 'Welcome to GeoPostcodes' Customer Portal'. There are four blue rectangular cards arranged in a 2x2 grid. The top-left card is titled 'Data Explorer' and contains the text: 'Browse our Postal and Street Database online. Lookup postal codes, city names and more. Download Product samples'. The top-right card is titled 'Map Explorer' and contains: 'Browse all our product on a map. Recommended way of looking at the Boundaries Database.'. The bottom-left card is titled 'Download Center' and contains: 'Download updates to the product you license with us.'. The bottom-right card is titled 'Knowledge Center' and contains: 'Browse our knowledge base to better understand postal code and or different products.'. On the right side of the main content area, there is a decorative graphic of a network of blue dots and lines. In the bottom right corner of the main content area, there is a small blue button with a question mark icon and the text 'Help'.

# Accessing your licensed products

## Through the Download Center

The Download Center gathers all the files that you have licensed with us. It shows which files were updated when and highlights the files for which you don't have the latest version yet. You can select the format you want to download.



GeoPostcodes			
	Data Explorer	Map Explorer	Download Center
<b>Download Center</b>			
My Drive			
<b>Products</b>		Last Updated	Last Downloaded
Boundaries database		22nd Jun 2021	22nd Jun 2021
Postal database		22nd Jun 2021	<b>21st Jun 2021</b>
Street database		22nd Jun 2021	<b>21st Jun 2021</b>
<b>Samples</b>		Last Updated	Last Downloaded
Postal database		22nd Jun 2021	<b>21st Jun 2021</b>
<b>Other files</b>		Last Updated	Last Downloaded
Countries information		22nd Jun 2021	<b>21st Jun 2021</b>
Geocodes		22nd Jun 2021	-
Languages		22nd Jun 2021	-
Timezones		22nd Jun 2021	<b>21st Jun 2021</b>

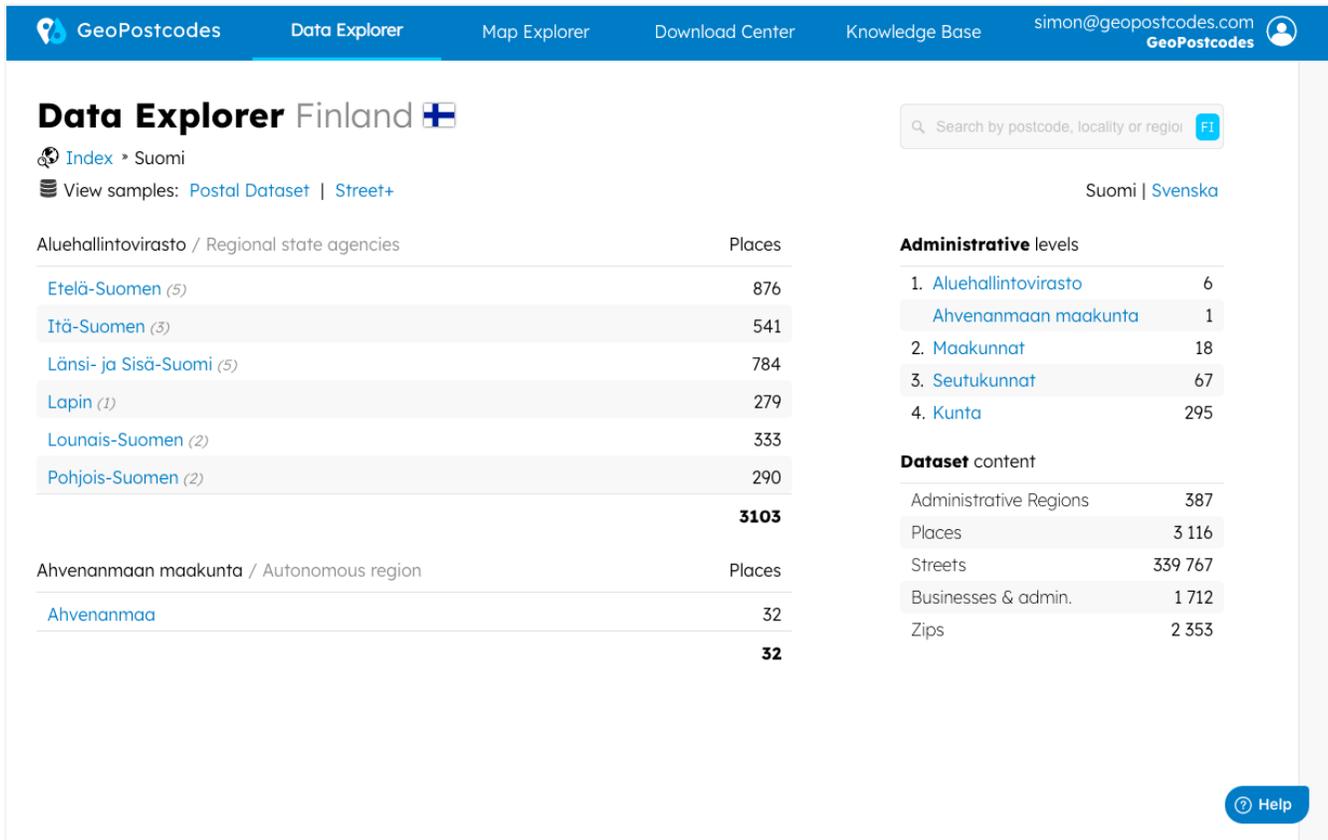
## Through our download API

Files can also be pulled from our download api using the same credentials as the ones used for the Customer Portal. The API and documentation are accessible on

<https://download.geopostcodes.com/>

# Using the Data Explorer

The Data Explorer allows you to browse the latest version of our Postal and Street Database in an intuitive table layout. You can drill down from the top (country level) all the way to a city, postal code or street. Alternatively, you can search directly for a specific piece of data.



**GeoPostcodes** | **Data Explorer** | Map Explorer | Download Center | Knowledge Base | simon@geopostcodes.com

**Data Explorer Finland** 

[Index](#) > Suomi

View samples: [Postal Dataset](#) | [Street+](#)

Search by postcode, locality or region **FI**

Suomi | Svenska

Aluehallintovirasto / Regional state agencies	Places
<a href="#">Etelä-Suomen (5)</a>	876
<a href="#">Itä-Suomen (3)</a>	541
<a href="#">Länsi- ja Sisä-Suomi (5)</a>	784
<a href="#">Lapin (1)</a>	279
<a href="#">Lounais-Suomen (2)</a>	333
<a href="#">Pohjois-Suomen (2)</a>	290
	<b>3103</b>
Ahvenanmaan maakunta / Autonomous region	Places
<a href="#">Ahvenanmaa</a>	32
	<b>32</b>

Administrative levels	
1. Aluehallintovirasto	6
Ahvenanmaan maakunta	1
2. Maakunnat	18
3. Seutukunnat	67
4. Kunta	295
Dataset content	
Administrative Regions	387
Places	3 116
Streets	339 767
Businesses & admin.	1 712
Zips	2 353

[Help](#)

# Using the Map Explorer

The Map Explorer is a lightweight GIS viewer allowing you to quickly investigate geographic relationships between regions, postal areas and cities. It is the perfect tool to visualize our upcoming Postal Boundaries Database product (release planned in September 2021).

The screenshot displays the GeoPostcodes Map Explorer interface. The main map shows a detailed view of postal boundaries in France, with several areas highlighted in orange and red. The interface includes a search bar at the top left, a sidebar on the left with a list of regions, and a sidebar on the right with administrative levels and dataset content statistics.

**Administrative levels**

Regions	13
Regions d'Outre-Mer	5
Collectivités d'Outre-Mer	4
Pays constituants	2
Dépendances	2
Départements	96
Arrondissements	319
Communes	34838

**Dataset content**

Dependent territories	13
Administrative Regions	35 279
Places	58 401
Streets	2 507 403
Businesses & admin.	165 747

# Getting answers to your questions

Integrating postal codes on a worldwide scale often turns out to be more complex than many customers initially thought. And while we are always available to help solve tricky questions, we also make an extensive knowledge base available to support your teams in their integration efforts. It covers everything you need to know about our products as well as general information about countries and postal code systems.

## Data properties

### Are the IDs stable?

The sort answer is no: the IDs are not guaranteed to be stable from one version of the file to...

### ASCII Transliteration tables

AZ: Azerbaijani (Azərbaycanca) Used in the following countries: Azerbaijan Uppercase Lowercase UTF-8 ASCII UTF-8 ASCII ' ' Ç C ç c Đ...

### Can I get the data in latin characters?

Some countries use a non-latin character like Russia (Cyrillic) or Japan (katakana, kanji). In our datasets, a latin alternative is always available...

### Can I get the names of the towns in several different languages?

Our dataset only covers a country's official languages. Translations (or rather exonyms) don't exist for all the data in all the...

### Countries using micro-postcodes systems

Although postal codes globally serve the same purpose of sorting mail by distinguishing areas, they have been introduced and have...

### Do you include points or polygons in your geographic files?

Our geographic files (Shapefiles, KML, GML and GeoJSON) include only points, no polygon. The points are the centroid point of...

# Integration assistance and Support

## Integration assistance

At GeoPostcodes we do not simply provide a dataset, we provide dedicated assistance until your project is up and running. Your onboarding starts with a kick-off call between your integration team and one of our data specialists. During that meeting we'll identify the pain points of your use-case and guide you to the best dataset formats for your situation. Our data specialist will then assist your team until your project is complete.

Our intention is to take the entire complexity of the location master data aspect of your project on our side so your team can focus on the project at hand.

## Support

If, at any point you need assistance with a data issue you can contact our support team through the customer portal.

# Appendices

This product sheet covers the Postal Boundaries Database core data set. For more information on the additional datasets and data formats just ask our team.

- [Postal Boundaries Database Datasheet](#)