

Text 2 Graph

GREBEL

5th Summer Datathon on Linguistic Linked Open Data (SD-LLOD-23)

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Overview

★ Aims

★ Tools

★ GREBEL

★ Compare and
contrast

★ Q & A

Selection of Text

- Compact text (max. 4 lines)
- Simple syntax structure (SVO structure)
- English language



What is that we try to achieve?

Text: Punta Cana is a resort town in the municipality of Higüey, in La Altagracia Province, the eastern most province of the Dominican Republic.

Punta Cana

Article Talk

From Wikipedia, the free encyclopedia


Coordinates: 18°32′N 068°22′W﻿ / ﻿18.533°N 68.367°W﻿ / 18.533; -68.367

Punta Cana is a **resort town** in the easternmost region of the **Dominican Republic**. It is part of the Veron–Punta Cana **municipal district**, in the **Higüey** municipality of **La Altagracia Province**. According to the 2010 census, this district had a population of 54,128 inhabitants.^[5]

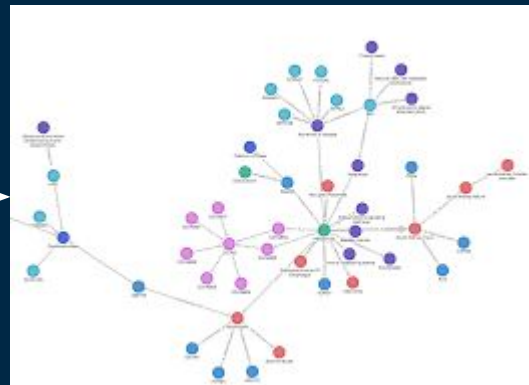
Punta Cana is the second-most popular tourist destination in **Latin America**, with more visitors than any other city in the Caribbean region.^[citation needed] The Punta Cana International Airport (PUJ) is located about 3 km inland, on the highway that leads from Higüey to La Romana. This airport receives 64% of all flights that arrive in the Dominican Republic, receiving more passengers than the Las Américas International Airport, located in **Santo Domingo**, the country's capital.

The area is known for its white sand beaches, blue turquoise waters, and **balnearios** which face both the **Caribbean Sea** and the **Atlantic Ocean**. The weather is hot for most of the year, especially in late summer and autumn when the **Northern Tropics** receive their most direct sunlight.

Punta Cana



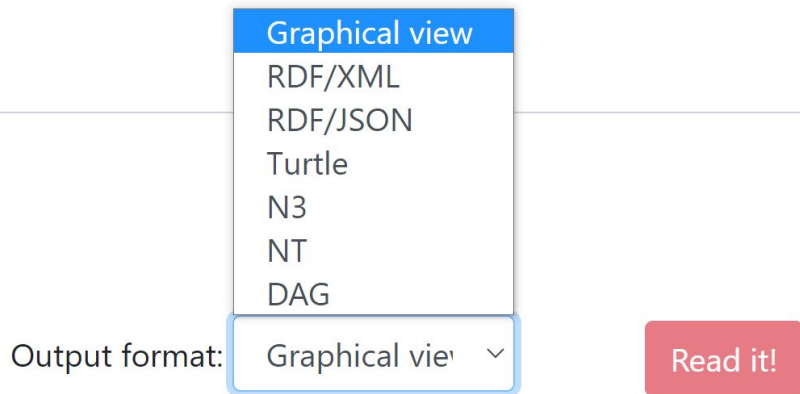
Cap Cana Marina area in Punta Cana, Dominican Republic



What is available? How does it work?

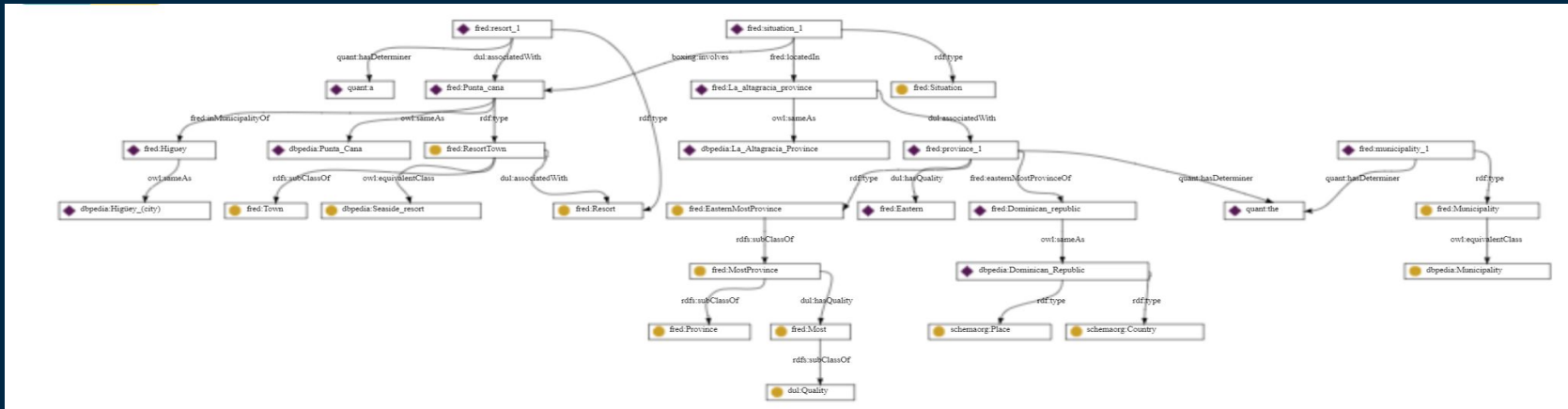


- Available online
- tool for automatically producing RDF/OWL ontologies
- linked data from natural language sentences
- Not open source :(



1st Approach

FRED: Visualization 2nd Attempt



Processing of one sentence

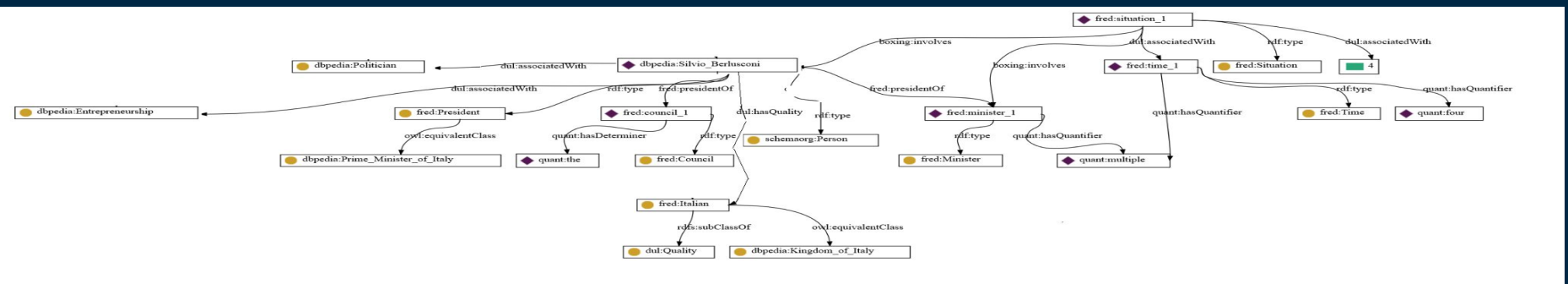
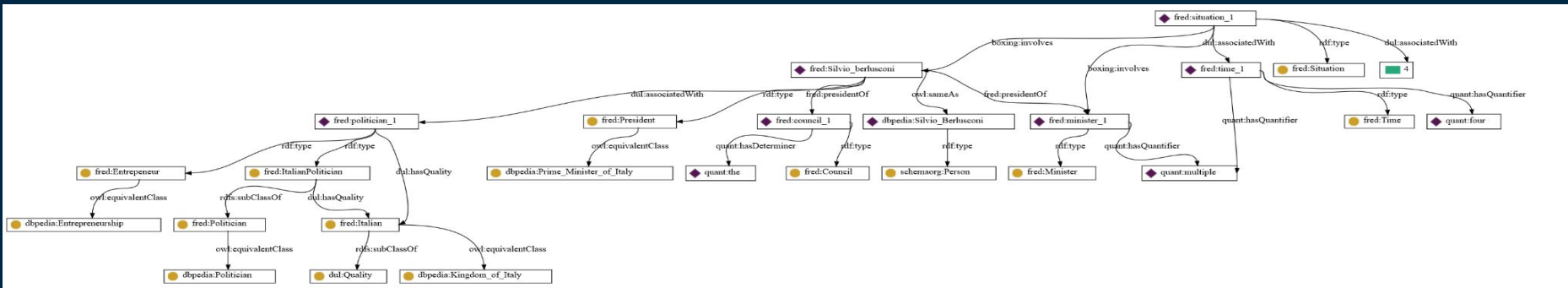
Punta Cana is a resort town in the municipality of Higüey

Less chaotic

Unnecessary Information

Not ideal for longer sentences

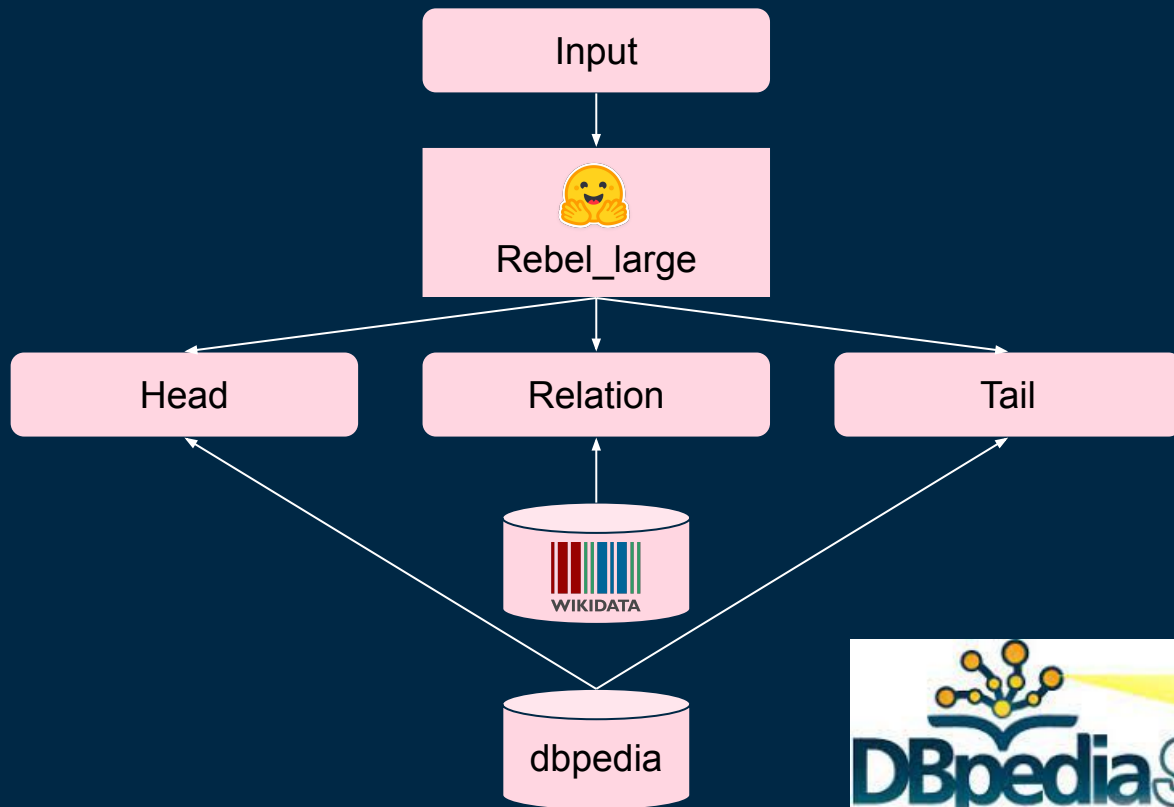
FRED: Visualization 3rd Attempt



Silvio Berlusconi, Italian politician and entrepreneur, has been president of the Council of Ministers four times.

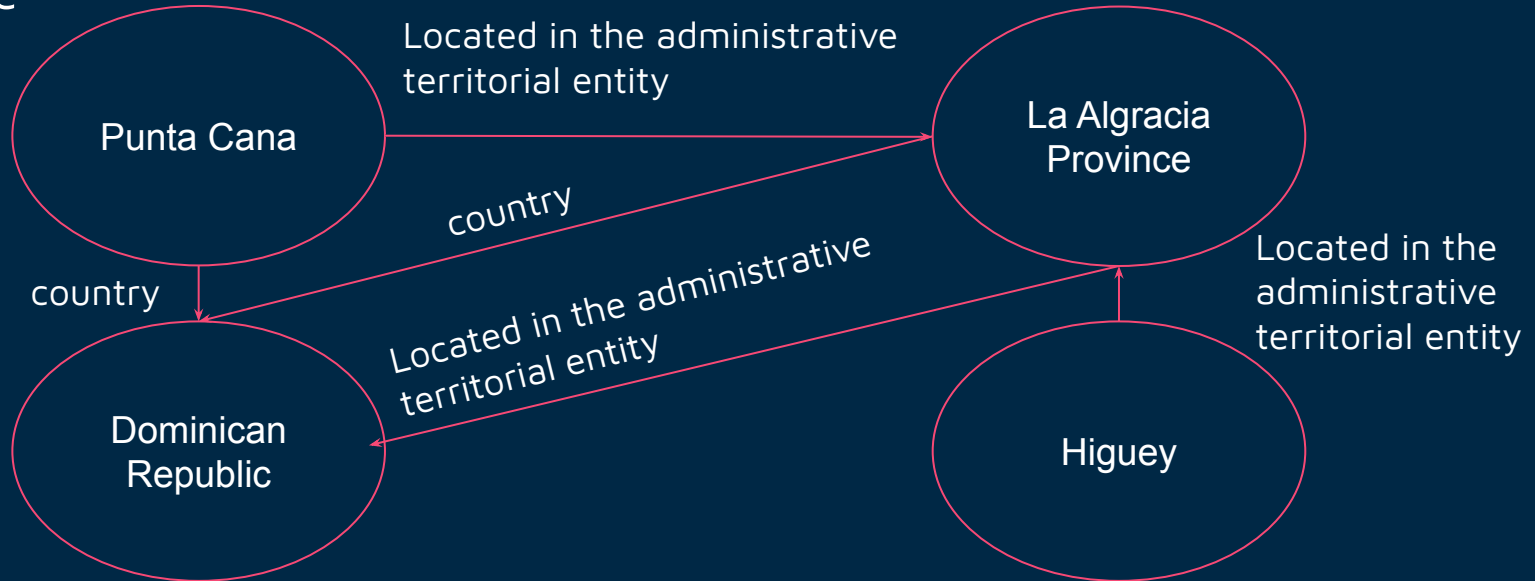
2nd Approach-GREBEL

Pipeline of GREBEL

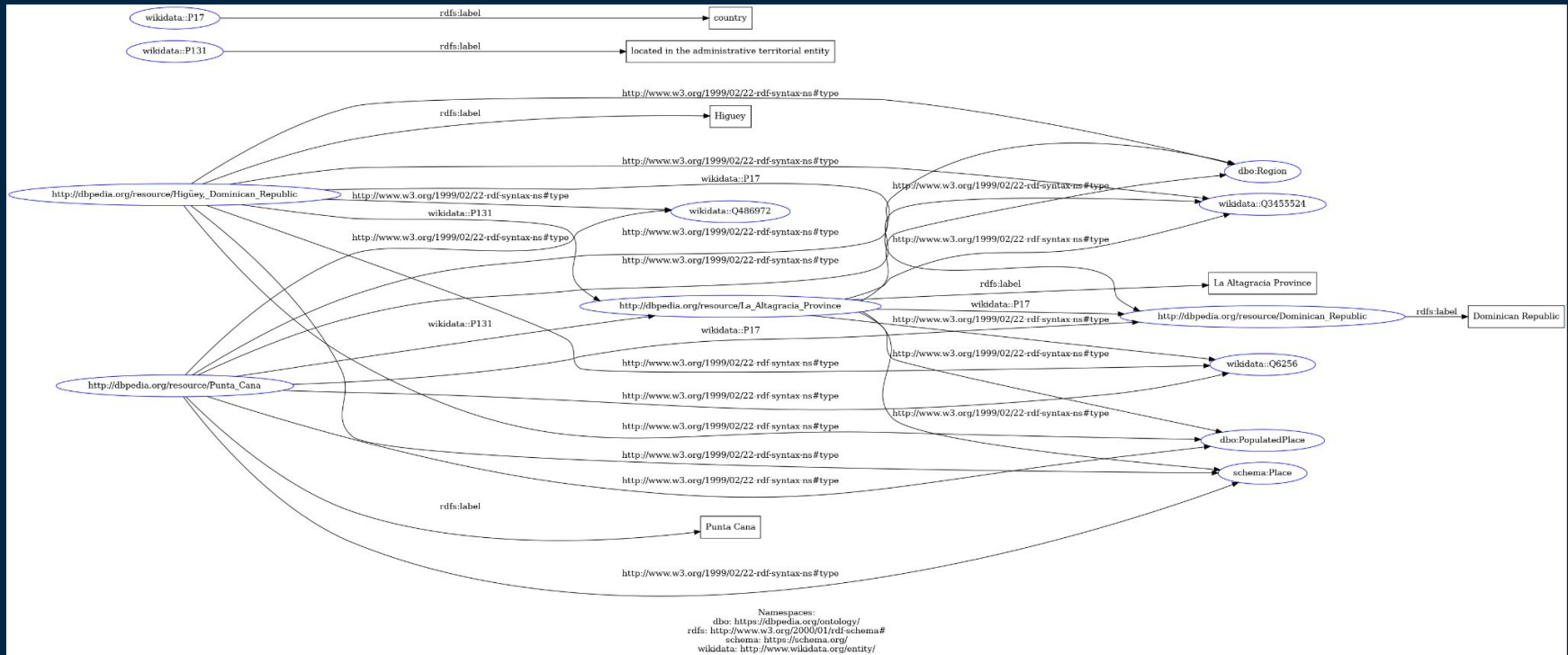


The use of GREBEL

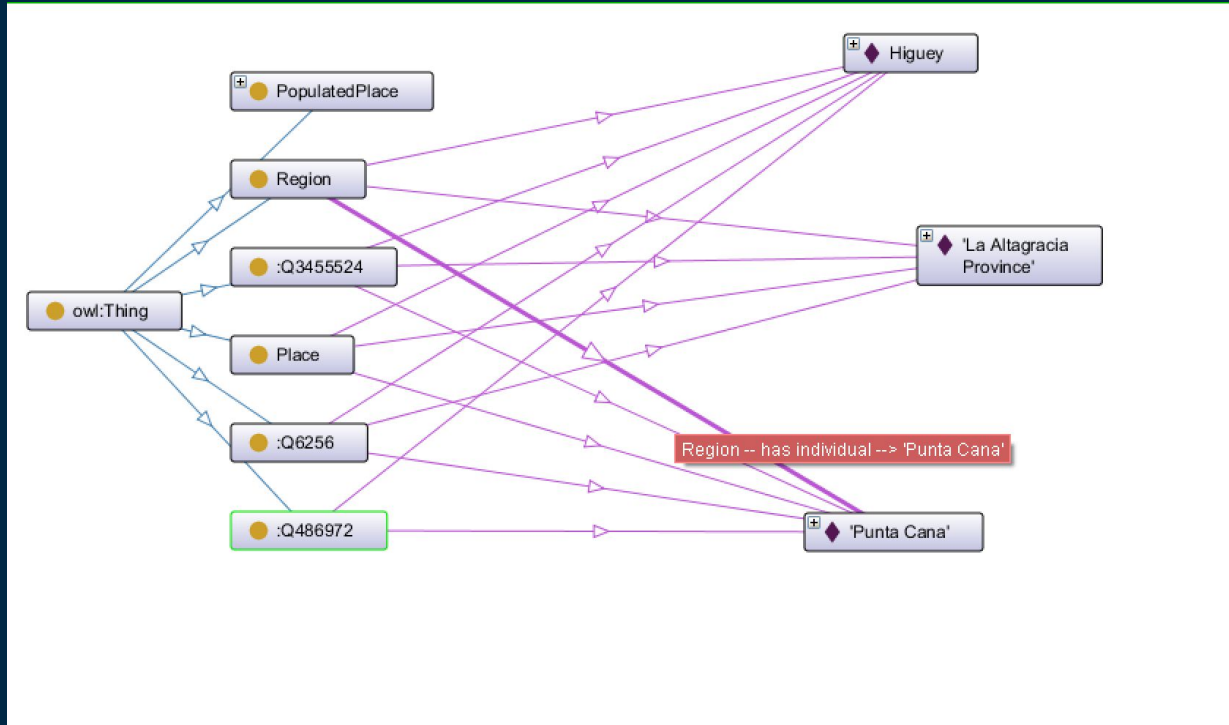
Punta Cana is a resort town in the municipality of Higüey, in La Altagracia Province, the eastern most province of the Dominican Republic



Linked Data with GREBEL (visualization 1)



Linked Data with GREBEL (visualization 2)



Fred OR GREBEL

— Limitation in processing multiple languages

— Not suitable for longer sentences

— Unnecessary Info



Easy to use

— Limitation in processing multiple languages

— No exact match for some relations (esp. Wikidata)



Open source



Simplified output



Fast computation

Questions?

Ask the GREBELs ;)



Thank you for
your attention :)

