



SIMILARITIES AND DISSIMILARITIES BETWEEN CARTAGENA AND TORONTO

Walter Adolfo Bernal López

13 December 2020

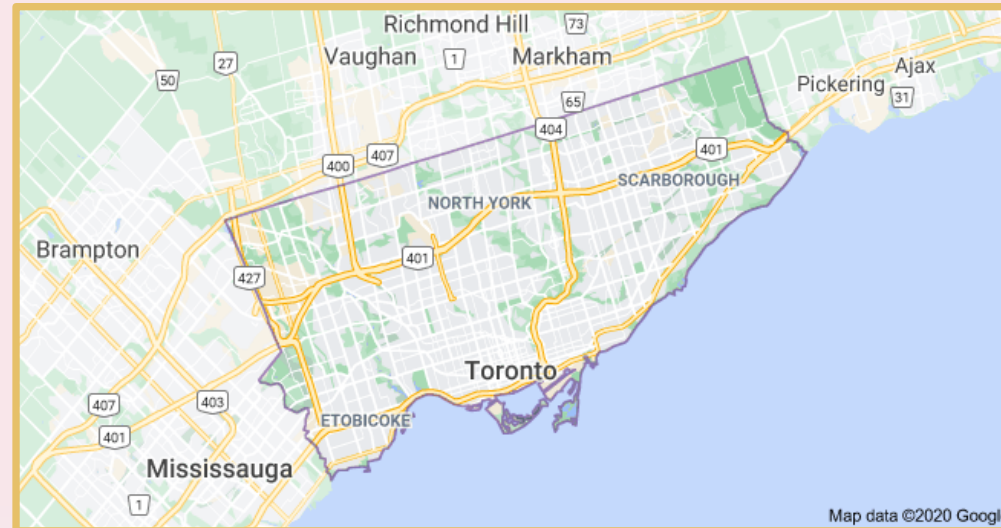


Toronto

City in Canada

Area: 630.2 km²

Population: 2.93 million (2017)



Cartagena

City in Colombia

Area: 609.1 km²

Population: 914,552



Weather

Local Weather Around the World



Similarities and dissimilarities between Cartagena, Colombia and Toronto, Canada

Sometimes, we wish to find out the best place to live or spend our holidays. Nonetheless, it is not a good idea to pick a place randomly on the map and move to that place unless you enjoy facing the unknown. Moreover, money and time are valuable resources to take into consideration. That is why, if someone is about to travel, the first that they could do is looking for information about different cities before going there. Finally, it is highly possible to get fun if you follow someone else suggestion and advice.

In this project, you will see a comparison between Cartagena, Colombia, and Toronto, Canada, which could guide you before traveling, considering the main variables to decide based on evidence.

Data acquisition

- Web Scraping – Monthly weather averages

Cartagena - <https://www.weather2visit.com/south-america/colombia/cartagena.htm>

Toronto - <https://www.weather2visit.com/north-america/canada/toronto.htm>

- Web Scraping – Travel cost

Cartagena - <http://hikersbay.com/travel-cost/colombia/cartagenadeindias?lang=en>

Toronto - <http://hikersbay.com/travel-cost/canada/toronto?lang=en>

The image displays two screenshots of web pages side-by-side. The top screenshot shows the 'hikersbay.com' website for Toronto, featuring hotel listings with images and prices, and a 'Toronto prices guide' section. The bottom screenshot shows the 'weather2visit.com' website for Cartagena, displaying a bar chart for average monthly peak daytime temperatures and a list of nearby destinations.

hikersbay.com - Toronto

Home » Countries » North America » Canada » Toronto » Toronto prices

Book the best hotels in Toronto - in partnership with booking.com

Compare hotel rates in Toronto and save up to 80%

Hotel	Price (CAD)
Bright 4-Bedroom i	98 - 271 (CAD)
Chic Apt bet Eglinto	249 - 264 (CAD)
Spacious Apartmen	71 - 199 (CAD)
Chic Apt near St Cl	305 - 310 (CAD)
Vibrant Apartment i	98 - 205 (CAD)
Toronto private suit	2620 - 2620 (CAD)

Toronto prices guide. How much does a trip to Toronto cost? The estimated travel expenses for food, public transport, attractions entrance and accommodation.

weather2visit Africa Asia Aus & Pacific Europe Latin America N America S America Mid East

weather2visit - Cartagena

HOME / SOUTH AMERICA / COLOMBIA / CARTAGENA

Cartagena monthly weather averages

Average daytime temperature

The bar chart below shows the average monthly peak daytime temperatures at Cartagena

Average monthly temperatures (°C) in Cartagena

weather2visit Africa Asia Aus & Pacific Europe Latin America N America S America Mid East

weather2visit - Toronto

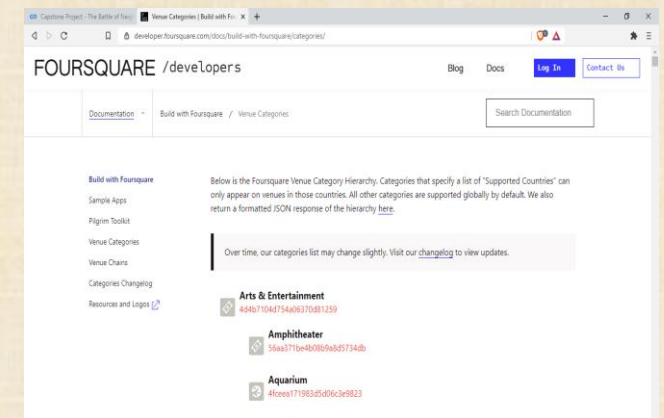
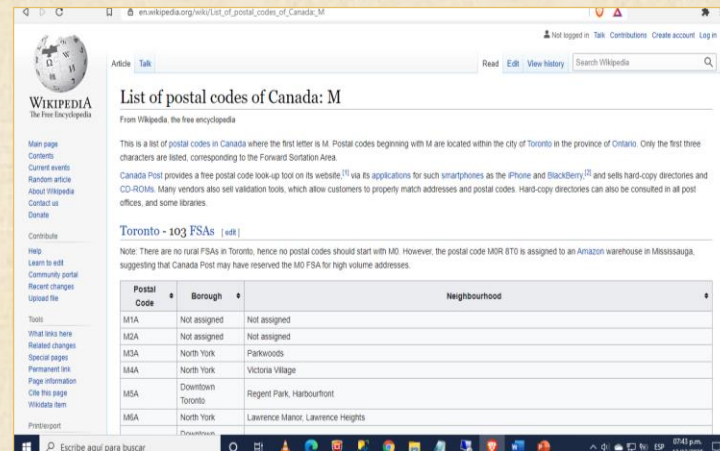
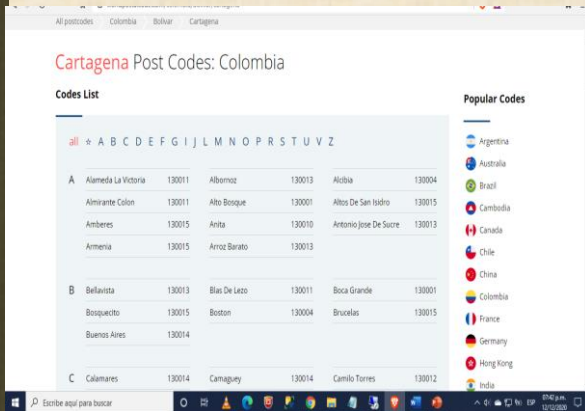
HOME / NORTH AMERICA / CANADA / TORONTO

Toronto monthly weather averages

Average daytime temperature

The bar chart below shows the average monthly peak daytime temperatures at Toronto

Average monthly temperatures (°C) in Toronto



Data acquisition

- Web Scraping – Venues Categories: <https://developer.foursquare.com/docs/build-with-foursquare/categories/>

- Web Scraping – Postal Codes:

Cartagena - <https://worldpostalcode.com/colombia/bolivar/cartagena>

Toronto - [https://en.wikipedia.org/wiki/List of postal codes of Canada: M](https://en.wikipedia.org/wiki/List_of_postal_codes_of_Canada:_M)

Data cleaning

Unfortunately, I could not find how to get the main categories and subcategories. That is why, I decided to get information from this site web <https://developer.foursquare.com/docs/build-with-foursquare/categories/>, in which I identify the main categories and subcategories, later, it was necessary to label one by one.

Main Categories

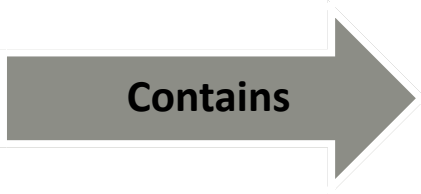
Arts & Entertainment
College & University
Event
Food
Nightlife Spot
Outdoors & Recreation
Professional & Other Places
Residence
Shop & Service
Travel & Transport

Subcategories

The picture below is just an example with 5 subcategories

Main Category

Travel & Transport



SubCategories

Train
Tram Station
Transportation Service
Travel Lounge
Tunnel

Data cleaning

To get the main dataset it was necessary to scan for four days due to the restriction with the free Foursquare, which let do 900 calls or so per day.

- The first two days, I got every venue for Cartagena and Toronto.
- The last two days, I got the amount of “likes” per venue for Cartagena and Toronto.
- Finally, it was necessary to add the Main category based on Foursquare categories dataset

Neighborhood	Neighborhood Latitude	Neighborhood Longitude	Venue Id	Venue	Venue Latitude	Venue Longitude	Venue Category	Venue Count Likes	Venue Summary Likes	Main_Category
Alameda La Victoria	10.384171	-75.474273	4f24bc3fe4b0eec7fe8b7ef5	El Tropezon	10.387691	-75.473635	Bar	6	6 Likes	Nightlife Spot
Alameda La Victoria	10.384171	-75.474273	549503eb498e778f198bece7	Restaurante Anca Y Mar	10.387800	-75.473465	Seafood Restaurant	9	9 Likes	Food
Alameda La Victoria	10.384171	-75.474273	4ed1207b754ad8083f23e667	Comidas Rápidas El York	10.387683	-75.473759	Fast Food Restaurant	6	6 Likes	Food
Alameda La Victoria	10.384171	-75.474273	4f54b6b8e4b063296f7a3f9b	EDS Terpel San Buenaventura	10.384420	-75.469864	Gas Station	5	5 Likes	Shop & Service
Alameda La Victoria	10.384171	-75.474273	50b6b70c498ea7a45b29a6ab	Cancha Sintetica Palogrande	10.384212	-75.470706	Soccer Field	1	1 Like	Outdoors & Recreation

Exploratory Data Analysis

Top Neighborhood preferred

Cartagena

Neighborhood	Venue Count Likes
Centro	12406
Getsemani	2535
La Matuna	1809
El Laguito	1390
Crespo	1292
Espinal	1043
Pie De La Popa	930
li	723
Brucelas	720
Chambacu	632

Toronto

Neighborhood	Venue Count Likes
Regent Park, Harbourfront	25662
Northwest, West Humber - Clairville	5194
Queen's Park, Ontario Provincial Government	5079
Lawrence Manor, Lawrence Heights	4608
Woodbine Heights	4452
Parkwoods	3911
Christie	2846
St. James Town	2258
Islington Avenue, Humber Valley Village	2096
Malvern, Rouge	2011

The datasets were organized according to the likes received per tourists or citizens.

Exploratory Data Analysis

Top Venues preferred

Cartagena

Venue	Venue Count Likes
Centro Histórico de Cartagena / Ciudad Amurallada	1799
Café del Mar	1231
Aeropuerto Internacional Rafael Núñez (CTG) (A...	1143
Castillo de San Felipe de Barajas	809
La Cevicheria	604
Torre del Reloj	565
Restaurante La Mulata	549
La Palettería	491
Plaza Santo Domingo	490
Mila Pasteleria	470

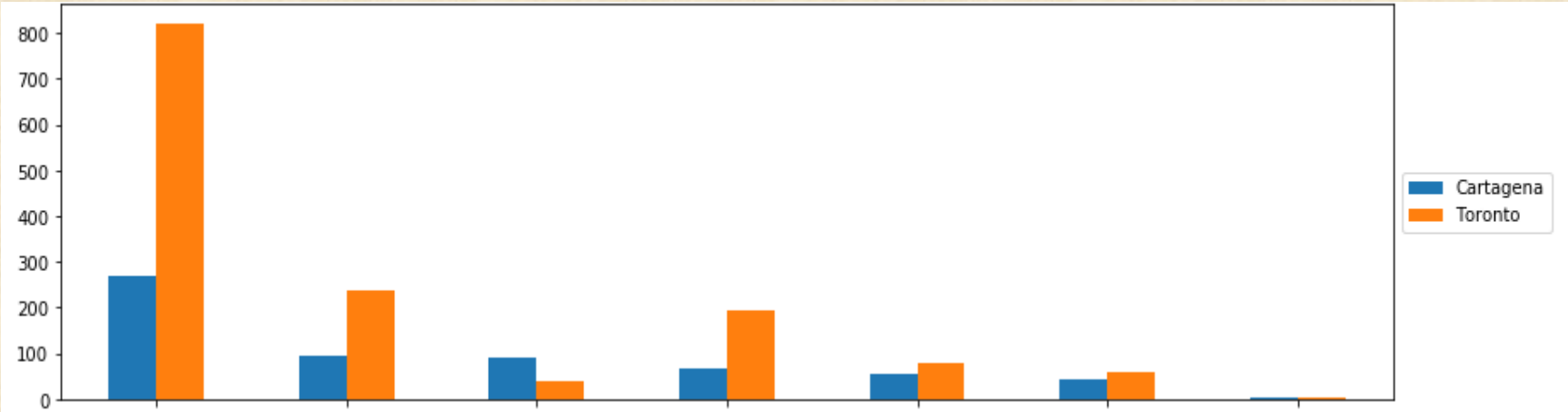
Toronto

Venue	Venue Count Likes
Toronto Pearson International Airport (YYZ) (T...	4177
Rogers Centre	2220
Scotiabank Arena	2203
CN Tower	2007
Yorkdale Shopping Centre	1545
Royal Ontario Museum	1497
Ripley's Aquarium of Canada	1443
Art Gallery of Ontario	1317
St. Lawrence Market (South Building)	1269
Yonge-Dundas Square	823

The datasets were organized according to the likes received per tourists or citizens.

Results

Main Categories vs Numbers of venues



City	Food	Shop & Service	Travel & Transport	Outdoors & Recreation	Nightlife Spot	Arts & Entertainment	Professional & Other Places
Cartagena	269	95	91	65	57	43	5
Toronto	821	237	39	194	77	61	5

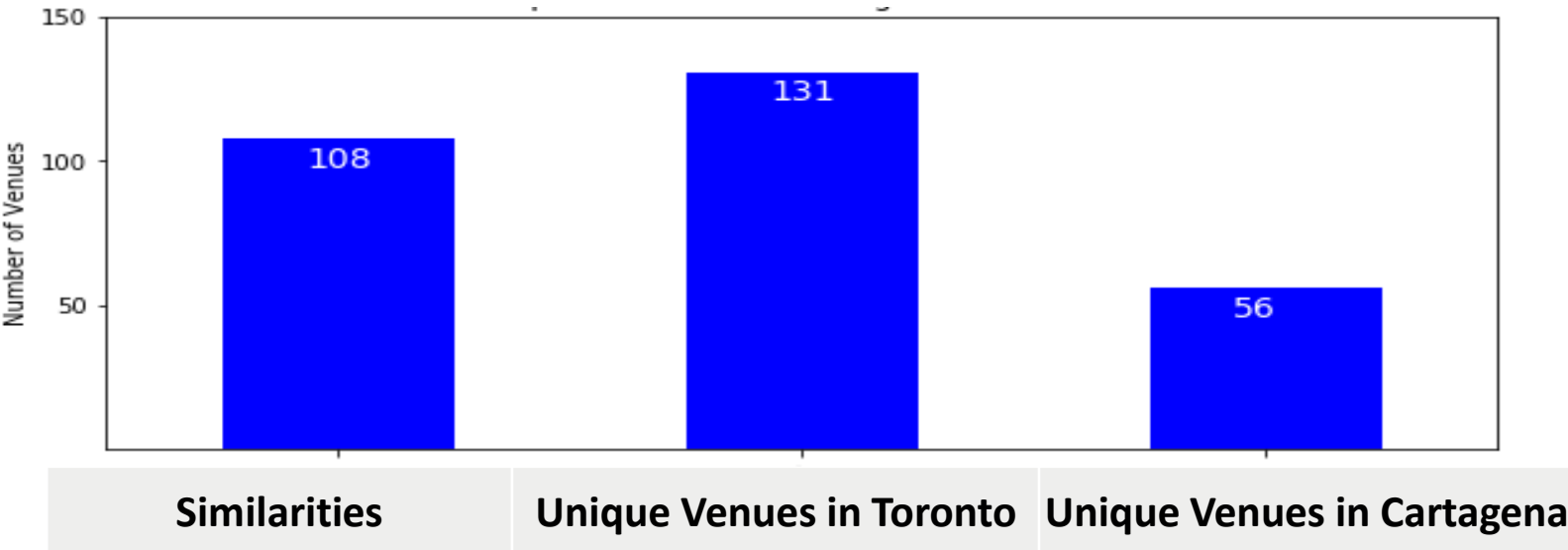
As can be seen from chart, there are seven categories which are compared with the numbers of venues according to foursquare.

On the one hand, Cartagena is a place where everyone could get relaxed according to Travel & Transport category. On the other hand, Toronto is a place which is highly possible to do almost everything due to their large number of businesses which work out there.

Travel & Transport
Airport
Airport Lounge
Bed & Breakfast
Boat or Ferry
Bus Station
Bus Stop
Duty-free Shop
Hostel
Hotel
Hotel Pool
Motel
Moving Target
Pier
Rental Car Location
Resort
Rest Area
Train Station

Results

Venues comparison between Cartagena and Toronto



More than 30% of the venues are available in both cities for instance Restaurants, Coffee Shop, Fitness Center, Museums, among other.

As for Toronto, it is only possible to find venues like Hockey Arena, Basketball Stadium, Aquarium, etc.

Finally, Cartagena is a place in which everyone could find Arepa Restaurant, Art Museum, Ciudad Amurallada, etc.

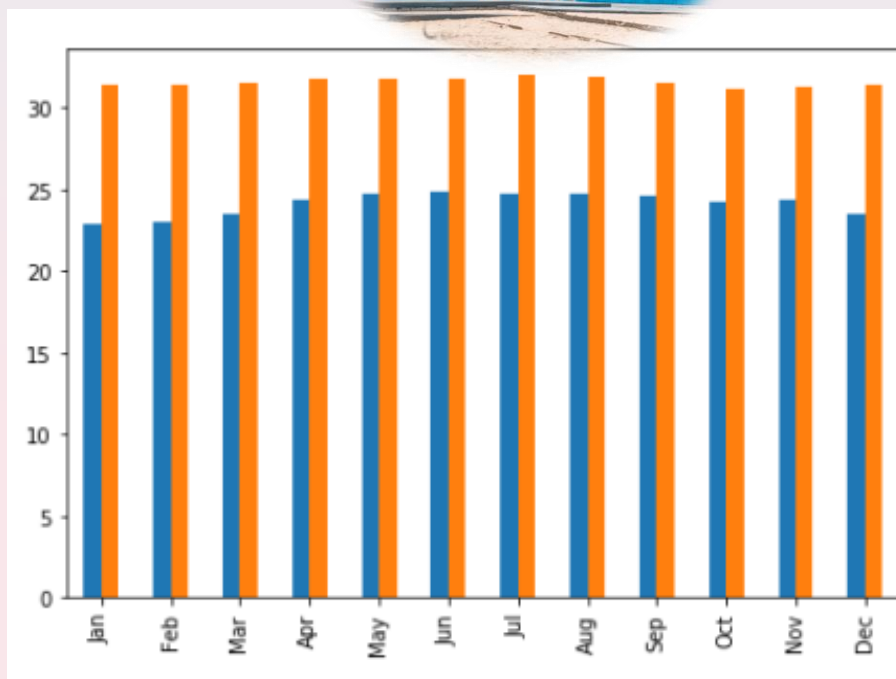




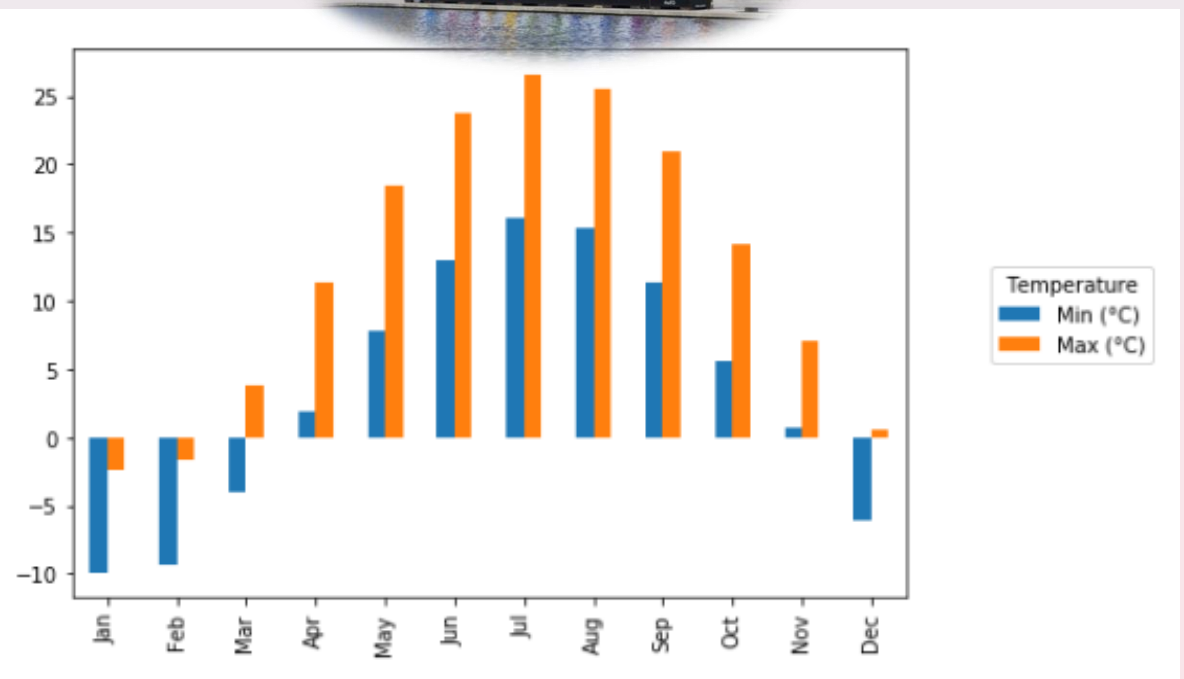
Results

Average day / night temperatures °C

CARTAGENA



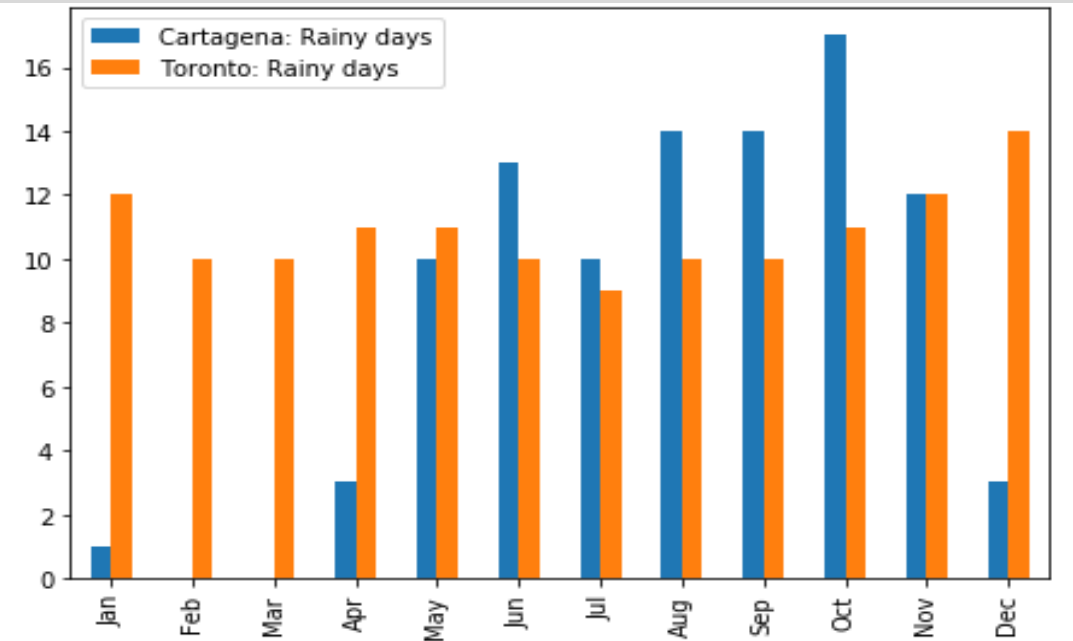
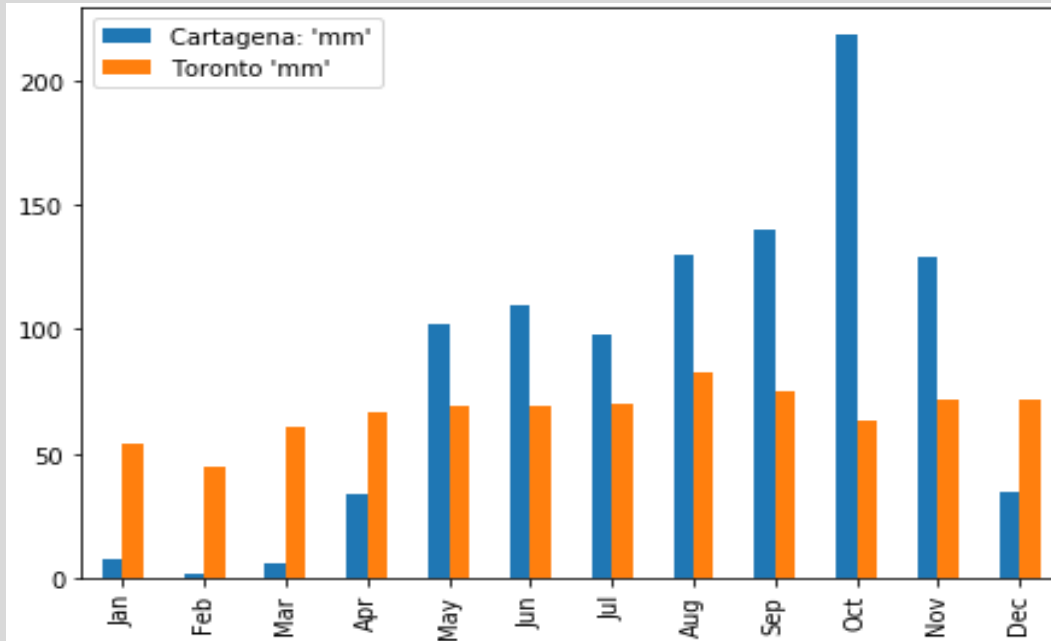
TORONTO



Toronto lets enjoy an outstanding weather for four months. Meanwhile, Cartagena is significantly better during the whole year.

Results

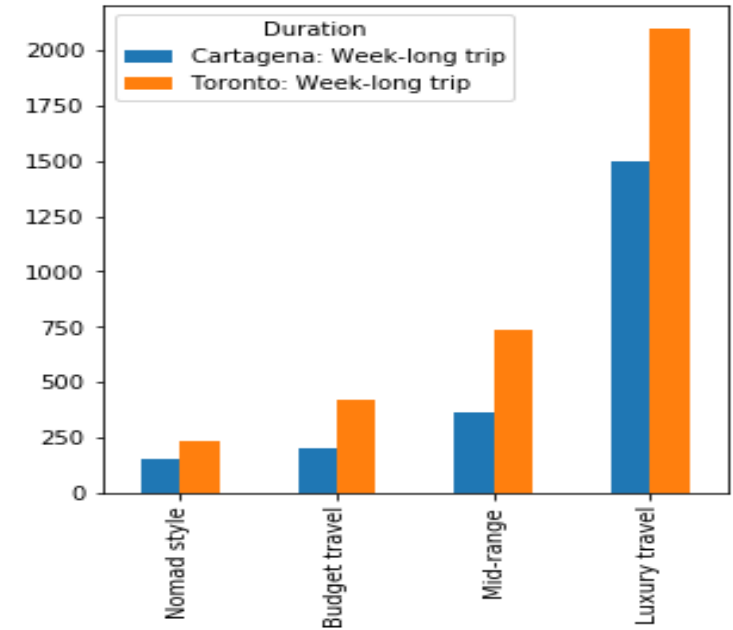
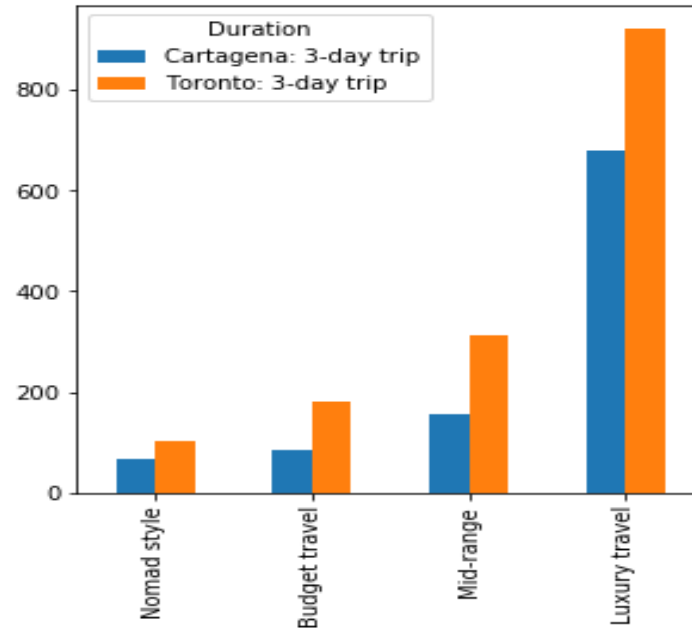
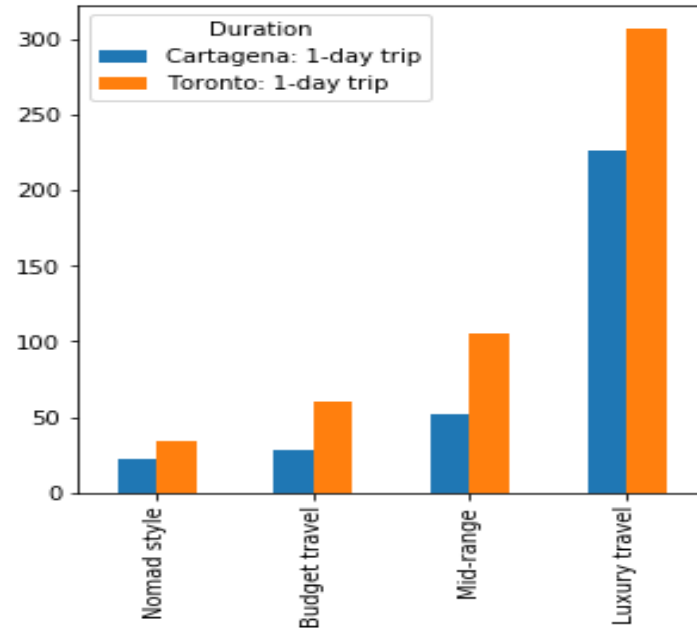
Average rainfall and rainy days



Average rainy days in Toronto is 10 days per month. However, Cartagena has four months in which the number of rainy days surpass more than 10 days.

Results

Estimated cost to travel (USD)



Duration	Nomad style	Budget travel	Mid-range	Luxury Travel
Cartagena: 1-day trip	22 USD	28 USD	52 USD	226 USD
Cartagena: 3-day trip	66 USD	85 USD	157 USD	679 USD
Cartagena: Week-long trip	153 USD	199 USD	365 USD	1,500 USD
Toronto: 1-day trip	34 USD	60 USD	105 USD	307 USD
Toronto: 3-day trip	101 USD	181 USD	314 USD	922 USD
Toronto: Week-long trip	235 USD	423 USD	732 USD	2,100 USD

Conclusion

In this project, most of the evidence presented provides excellent advice for someone who is thinking about living or spend time on holidays in Cartagena or Toronto. Therefore, I could assure you that the best place to travel and enjoy your holidays is: Cartagena due to its leading in Travel & transport category. Moreover, warm weather remains steadily throughout the whole year.

On the other hand, Toronto lets enjoy excellent warm weather between June and August, and it is also the best option to live due to its large number of venues, events activities, and quality of life.



CASTILLO
SAN FELIPE
DE BARAJAS