

# Yogyakarta Trend and Bakpia Location

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THOMAS THEO

[thomas.t@outlook.co.id](mailto:thomas.t@outlook.co.id)

Yogyakarta, Indonesia



# Yogyakarta

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## Background

Yogyakarta is arguably the cultural capital city of Indonesia, particularly Javanese culture. The city and province, are still ruled by a monarchy, an anomaly in the 21th century.

Home for plethora of incredible buildings, landmarks, and monuments.

- Borobudur temple, one of the Seven Wonders are located in the nearby city of Magelang;
- Prambanan temple, and
- Kraton Yogyakarta.

The city are also famous for its culinary heritage that's distinct from the other region, with food such as:

- 'Gudeg', and
- 'Bakpia', Bakpia is a pastry filled with numerous fillings, the classic and the most famous filling are green peas (mung beans), but other flavor and brand has innovate and produce numerous other fillings as well, e.g. chocolate, cheese, even durian. Bakpia is usually bought as a souvenirs from the city.

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## Objective

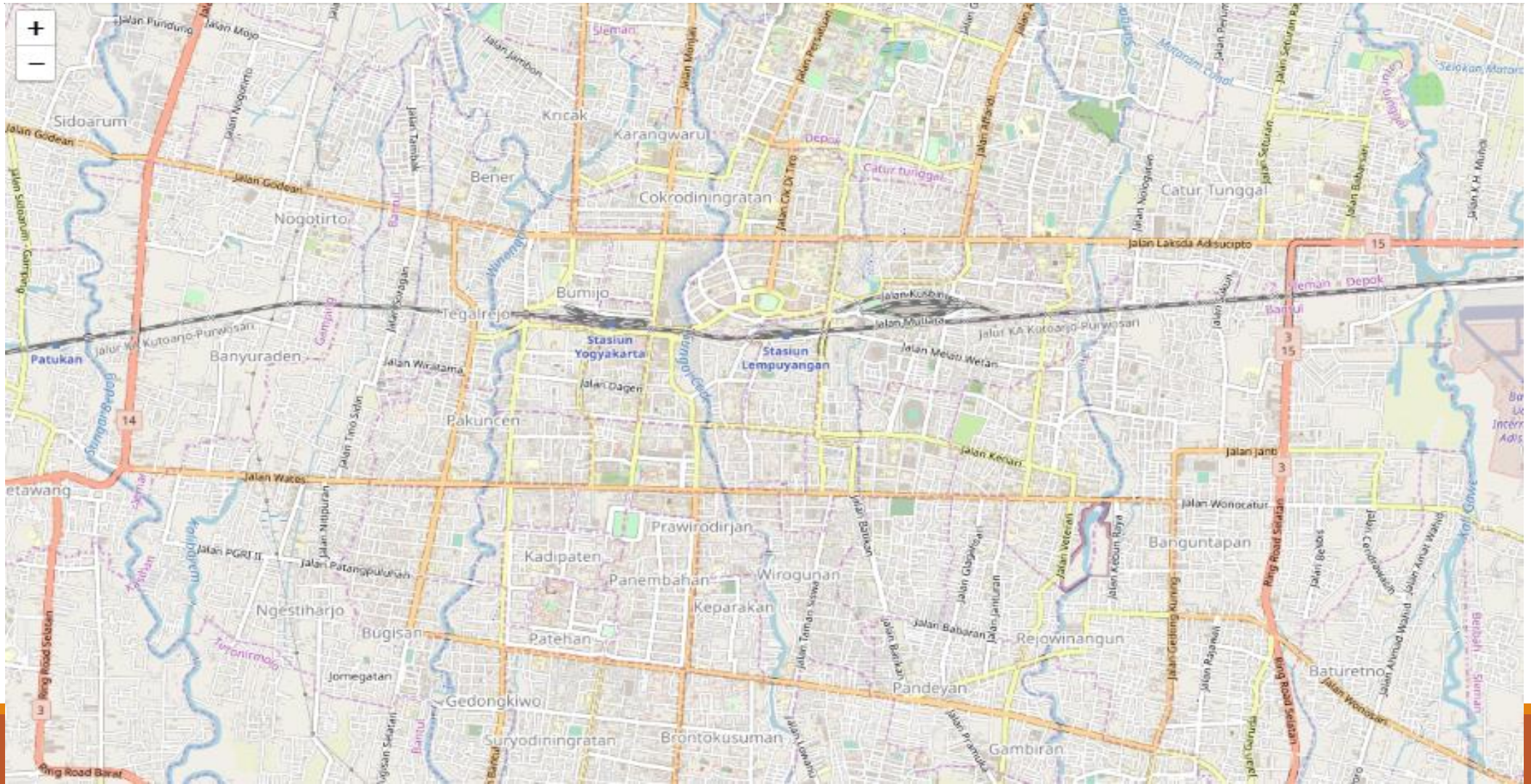
1. Find bakpia location in Yogyakarta;
2. Explore trending venues in Yogyakarta so it can help tourist prioritize their trips.

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## Data acquisition

1. Yogyakarta coordinates that's obtained from geopy.geocoders and Nominatim;
2. Foursquare API using client id and client secret to explore trending venues in Yogyakarta and to find bakpia store in Yogyakarta. Foursquare API website: <https://developer.foursquare.com/> ;
3. analyze data got through Foursquare.

# Yogyakarta Map generated by Folium

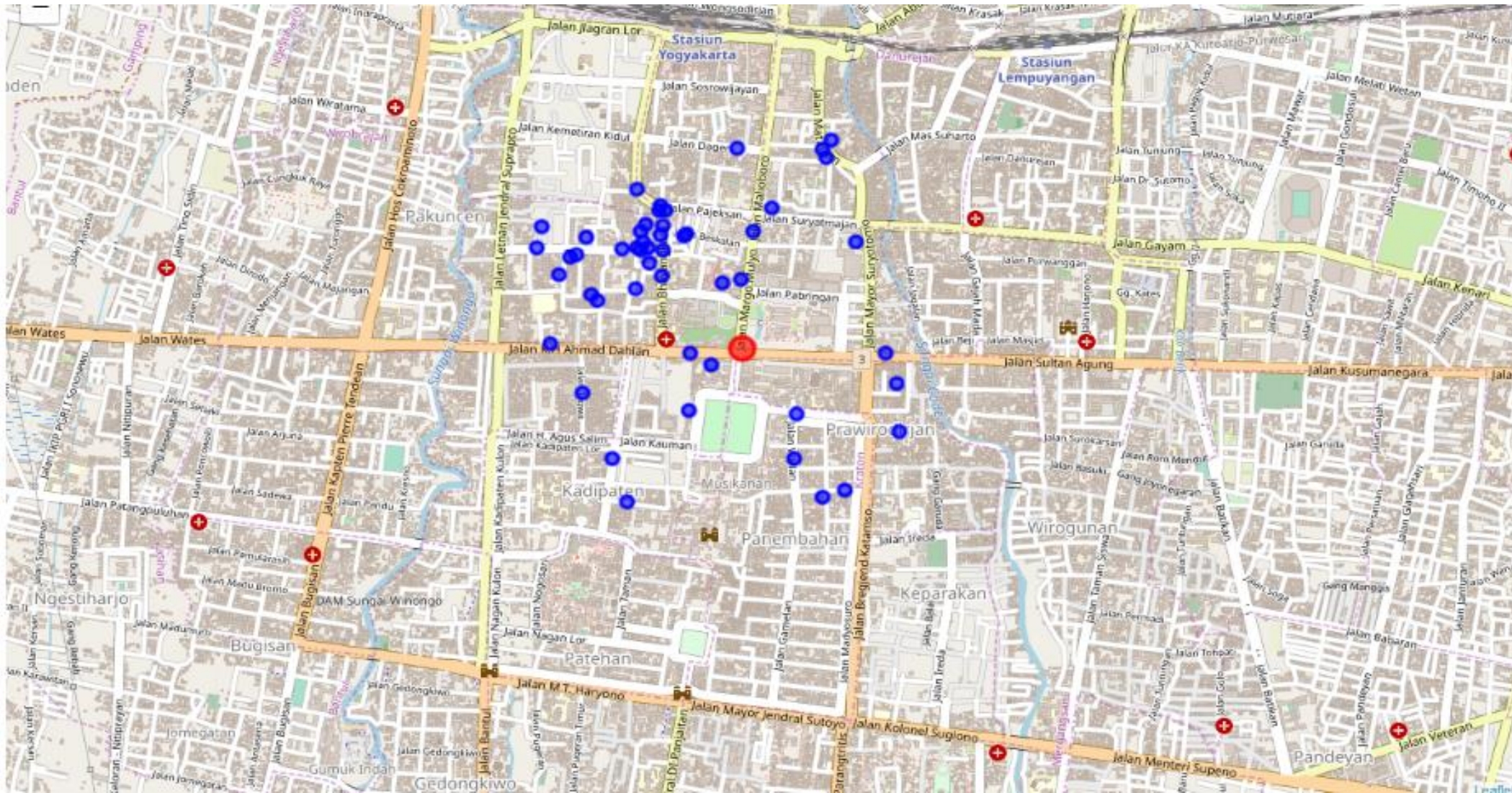




# List of Bakpia Stores in Yogyakarta using Foursquare API (samples, using head function after cleaned)

	name	categories	address	crossStreet	lat	lng	labeledLatLngs	distance	postalCode	cc	city	state	country	formattedAddress	id
0	Bakpia Pathok 25	Snack Place	Jl. AIP II KS Tubun No. 65	Ngampilan	-7.797540	110.361263	[{"label": "display", "lat": -7.79753955456098...	572	55261	ID	Yogyakarta	DI Yogyakarta	Indonesia	[Jl. AIP II KS Tubun No. 65 (Ngampilan), Yogya...	4d8c5649ac798cfad84629e4
1	Bakpia Patuk 75	Bakery	Jl. AIP II K.S.Tubun No. 75	NaN	-7.797516	110.357811	[{"label": "display", "lat": -7.79751641423740...	884	NaN	ID	Yogyakarta	DI Yogyakarta	Indonesia	[Jl. AIP II K.S.Tubun No. 75, Yogyakarta, DI Y...	4c31569c3896e21e3af7e690
2	Bakpia Pia Djogdja	Snack Place	Jl. Dagen no.7	NaN	-7.793920	110.364726	[{"label": "display", "lat": -7.79391983108229...	810	NaN	ID	Yogyakarta	DI Yogyakarta	Indonesia	[Jl. Dagen no.7, Yogyakarta, DI Yogyakarta, In...	4df6109f18a88611c6c537a9
3	Bakpia & Pia Djogdja Ibu Rasuna	Snack Place	Jl. Mataram	NaN	-7.794259	110.367847	[{"label": "display", "lat": -7.79425947146475...	836	NaN	ID	Yogyakarta	DI Yogyakarta	Indonesia	[Jl. Mataram, Yogyakarta, DI Yogyakarta, Indon...	4d12c2a4f58560fcb53c6bc2

# Map of Bakpia Stores in Yogyakarta using Folium



## Legend

Blue dots: Bakpia Stores

Red dots: Yogyakarta



# Checking Yogyakarta's Trending Venues

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```
[15]: # define URL
url = 'https://api.foursquare.com/v2/venues/trending?client_id={}&client_secret={}&ll={},{}&v={}'.format(CLIENT_ID, CLIENT_SECRET, lat, long, VERSION)

# send GET request and get trending venues
results = requests.get(url).json()
results
```

```
[15]: {'meta': {'code': 200, 'requestId': '5de79e3cdd0f854c382aa365'},
      'response': {'venues': []}}
```

```
[16]: if len(results['response']['venues']) == 0:
      trending_venues_df = 'No trending venues are available at the moment!'

      else:
          trending_venues = results['response']['venues']
          trending_venues_df = json_normalize(trending_venues)

          # filter columns
          columns_filtered = ['name', 'categories'] + ['location.distance', 'location.city', 'location.postalCode', 'location.state', 'location.country', 'location.lat', 'location.longitude']
          trending_venues_df = trending_venues_df.loc[:, columns_filtered]

          # filter the category for each row
          trending_venues_df['categories'] = trending_venues_df.apply(get_category_type, axis=1)
      trending_venues_df
```

```
[16]: 'No trending venues are available at the moment!'
```

## Conclusions

Currently, there are no trending venues in Yogyakarta



# Checking for Venues Rating

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```
[20]: try:
      print(result['response']['venue']['rating'])
      except:
      print('This venue has not been rated yet.')
```

7.9

```
[21]: result['response']['venue']['tips']['count']
```

[21]: 131

(only an example of a store called Bakpia Pathuk 25)

# Checking Bakpia Pathok 25 (an example)

## Review's

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[24]:

	text	agreeCount	disagreeCount	id	user.firstName	user.lastName	user.gender	user.id
0	Bakpia pathok 25 salah satu bakpia yg terkenal di yogyakarta, dgn harga RP 25 rb anda bisa dapet 1 kotak bakpia yg masih hangat.. lokasinya strategis atau anda bisa minta aner tukang becak ke sana...	4	0	50ddaaa3e4b0b8da1c30b572	aprizal ramadhan	NaN	male	11542398

Translation: *Bakpia Pathok 25* (One of the Bakpia Brand), is very famous in Yogyakarta, with the price of IDR25k, you can get one freshly baked Bakpia. The location is strategic, you can reach it by rickshaw.