# 03.09.2016

**Inspecting JSON result from Google Places API**

Lengkapnya disini : <https://developers.google.com/places/supported_types>

1. colloquial\_area
2. political
3. spa
4. restaurant
5. food
6. lodging
7. point\_of\_interest
8. establishment
9. university
10. park
11. gym
12. health
13. school
14. airport

taman seperti batu secret zoo, jatim park termasuk apa ya?

Radius diukur dalam apa? Meter, maksimal 50.000 meter

Kurang suka dengan google map api karena ada limitnya, maksimal 1000 request per 24 jam. Otherwise, harus mbayar. Tapi untuk tahap mengembangkan apps, kayaknya cukup dengan request segitu.

Ntar kalo udah bisa integrasikan dengan algoritma GA TSP, baru coba untuk cari map provider yang unlimited dan minimal sama kayak google map lah.

Kekurangan google map, kategorisasi tempat kurang detail. Perbandingan: wikimapia. Untuk kasus Borobudur temple, di wikimapia ada kategori temple/interesting place. Kalo di google map kurang spesifik.

Supaya bisa menspesifikkan kategori pemilihan tempat wisata, temukan dulu keyword type yang tepat.

**Pendataan tempat-tempat wisata di Indonesia berdasarkan Kota (sample pada 5 kota besar di Jawa)**

* Totally, dari masing2 kota ada 19 tempat yang direkomendasikan -> kayaknya ada limit cuma 19 untuk sekali return.
* Dengan type yang random. Kayaknya dipilih berdasarkan nilai rating
* Type yang cocok dengan tempat2 yang mungkin akan dikunjungi oleh pelancong :

park, shopping\_mall, amusement\_park, zoo, place\_of\_worship, museum, point\_of\_interest, establishment (point\_of\_interest dan establishment ini defaultnya sebuah bangunan yg terdeteksi google map)

**Malang**

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Nama Lokasi | Koordinat | Types |
|  | Hotel Tugu Malang: | -7.9773296  112.6330135 | spa  restaurant  food  lodging  point\_of\_interest  establishment |
|  | Universitas Brawijaya: | -7.9525247  112.6130391 | university  point\_of\_interest  establishment |
|  | Bromo Tengger Semeru National Park: | -8.0218747  112.9524384 | park  point\_of\_interest  establishment |
|  | Stadion Kanjuruhan: | -8.150267  112.5740046 | gym  health  point\_of\_interest  establishment |
|  | SMA Negeri 4 Malang: | -7.9762024  112.6347461 | school  point\_of\_interest  establishment |
|  | Abdul Rachman Saleh Airport: | -7.9288708  112.712233 | airport  point\_of\_interest  establishment |
|  | Candi Kidal: | -8.0257778  112.7090876 | point\_of\_interest  establishment |
|  | SMA Negeri 1 Blitar: | -8.1009441  112.1805407 | school  point\_of\_interest  establishment |
|  | SMAK Kolese Santo Yusup / Hua-Ind: | -7.9390824  112.6386493 | school  point\_of\_interest  establishment |
|  | Kebun Raya Purwodadi: | -7.7999339  112.7410027 | park  point\_of\_interest  establishment |
|  | Regent's Park Hotel: | -7.9695646  112.6325617 | lodging  point\_of\_interest  establishment |
|  | Politeknik Kota Malang: | -8.033829  112.648916 | university  point\_of\_interest  establishment |
|  | Taman Wisata Wendit: | -7.9521038  112.674151 | point\_of\_interest  establishment |
|  | The Shalimar: | -7.969881  112.625004 | lodging  point\_of\_interest  establishment |
|  | Stadion Gajayana: | -7.9755852  112.6250749 | stadium  point\_of\_interest  establishment |
|  | Villa and Family Hotel Gradia: | -7.8739985  112.5203873 | lodging  point\_of\_interest  establishment |
|  | Solaris Hotel Malang: | -7.913566  112.655618 | lodging  point\_of\_interest  establishment |
|  | Sumber Hotel: | -7.8729867  112.5189874 | lodging  point\_of\_interest  establishment |
|  | Paddy City Resort: | -7.9318147  112.6066718 | lodging  point\_of\_interest  establishment |

**Surabaya**

|  |  |  |  |
| --- | --- | --- | --- |
| No. | Nama Lokasi | Koordinat | Types |
|  | Hotel Majapahit: | -7.2596383  112.7401385 | lodging  point\_of\_interest  establishment |
|  | Juanda International Airport: | -7.3788851  112.7872891 | airport  point\_of\_interest  establishment |
|  | Sepuluh Nopember Institute of Technology: | -7.2769471  112.7916628 | university  point\_of\_interest  establishment |
|  | City of Tomorrow: | -7.3452034  112.7277263 | shopping\_mall  point\_of\_interest  establishment |
|  | Tunjungan Plaza: | -7.2624687  112.7395244 | shopping\_mall  point\_of\_interest  establishment |
|  | Surabaya Intercultural School: | -7.290255  112.649173 | school  point\_of\_interest  establishment |
|  | Ciputra Water Park: | -7.285484  112.63303 | amusement\_park  point\_of\_interest  establishment |
|  | Stadion Gelora Bung Tomo: | -7.2232115  112.6227229 | stadium  point\_of\_interest  establishment |
|  | Universitas Airlangga: | -7.271567  112.757857 | university  point\_of\_interest  establishment |
|  | Excelso - Plaza Surabaya: | -7.2648998  112.7483941 | cafe  restaurant  food  point\_of\_interest  establishment |
|  | Surabaya Town Square: | -7.2945239  112.7302074 | shopping\_mall  point\_of\_interest  establishment |
|  | Hartono BG Junction: | -7.2546546  112.7334807 | electronics\_store  furniture\_store  home\_goods\_store  store  point\_of\_interest  establishment |
|  | Surajaya Stadium: | -7.1135844  112.4295189 | stadium  point\_of\_interest  establishment |
|  | favehotel MEX Surabaya: | -7.266387  112.740312 | lodging  point\_of\_interest  establishment |
|  | Pasar Atum Mall: | -7.2413778  112.7438895 | store  health  point\_of\_interest  establishment |
|  | Hotel Mercure Surabaya: | -7.284928  112.739425 | restaurant  food  lodging  point\_of\_interest  establishment |
|  | Surabaya Zoo: | -7.2970167  112.7387384 | zoo  point\_of\_interest  establishment |
|  | Tugu Pahlawan: | -7.2458463  112.737821 | point\_of\_interest  establishment |
|  | Hotel ibis Surabaya Rajawali: | -7.2365416  112.7371324 | restaurant  food  lodging  point\_of\_interest  establishment |

**Yogyakarta**

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| No. | Nama Lokasi | Koordinat | Types |
|  | Prambanan Temple: | -7.7520206  110.4914674 | hindu\_temple  place\_of\_worship  point\_of\_interest  establishment |
|  | Borobudur Temple: | -7.6078738  110.2037513 | place\_of\_worship  point\_of\_interest  establishment |
|  | Gadjah Mada University: | -7.7713847  110.3774998 | university  point\_of\_interest  establishment |
|  | Adisucipto International Airport: | -7.7876838  110.4317613 | airport  point\_of\_interest  establishment |
|  | Universitas Kristen Duta Wacana: | -7.7860493  110.3783757 | university  point\_of\_interest  establishment |
|  | Stadion Maguwoharjo: | -7.7505618  110.4181997 | stadium  point\_of\_interest  establishment |
|  | SMA Negeri 4 Yogyakarta: | -7.77196  110.362537 | school  point\_of\_interest  establishment |
|  | SMA Negeri 2 Yogyakarta: | -7.778065  110.353226 | school  point\_of\_interest  establishment |
|  | Masjid Agung Syuhada: | -7.7863161  110.3691822 | mosque  place\_of\_worship  point\_of\_interest  establishment |
|  | Kalasan Temple: | -7.767284  110.4723505 | place\_of\_worship  point\_of\_interest  establishment |
|  | The Palace of Yogyakarta: | -7.8052845  110.3642031 | museum  point\_of\_interest  establishment |
|  | Hotel Novotel Yogyakarta: | -7.782535  110.377723 | lodging  point\_of\_interest  establishment |
|  | Taman Nasional Gunung Merapi: | -7.5562672  110.4381254 | park  point\_of\_interest  establishment |
|  | Stadion Tridadi: | -7.7194279  110.3586221 | stadium  point\_of\_interest  establishment |
|  | SMP Muhammadiyah 1 Yogyakarta: | -7.7997029  110.358094 | school  point\_of\_interest  establishment |
|  | Hotel Santika Premiere Jogja: | -7.7824971  110.3697302 | lodging  point\_of\_interest  establishment |
|  | Istana Batik Ratna Hotel: | -7.7900122  110.3643735 | lodging  point\_of\_interest  establishment |
|  | Plaza Ambarrukmo: | -7.7822574  110.4012284 | shopping\_mall  point\_of\_interest  establishment |
|  | Museum Kereta Api Ambarawa: | -7.2648732  110.4046054 | museum  point\_of\_interest  establishment |

**Bandung**

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| No. | Nama Lokasi | Koordinat | Types |
|  | Bandung Institute of Technology: | -6.89148  107.6106591 | university  point\_of\_interest  establishment |
|  | Trans Studio Bandung: | -6.9245297  107.6361938 | amusement\_park  point\_of\_interest  establishment |
|  | Hotel Savoy Homann Bidakara: | -6.9217925  107.6103979 | lodging  point\_of\_interest  establishment |
|  | Padjadjaran University: | -6.9261321  107.7746881 | university  point\_of\_interest  establishment |
|  | Kawah Putih: | -7.1661832  107.40214 | point\_of\_interest  establishment |
|  | Serela Hotel: | -6.9063101  107.6199193 | lodging  point\_of\_interest  establishment |
|  | Bank Jabar Banten (BJB) - Gedung Sate: | -6.9026374  107.6167301 | bank  finance  point\_of\_interest  establishment |
|  | Indonesia University of Education: | -6.8609707  107.5929206 | university  point\_of\_interest  establishment |
|  | Ibis Bandung Trans Studio Hotel: | -6.927555  107.636253 | lodging  point\_of\_interest  establishment |
|  | Aston Braga Hotel & Residence: | -6.917128  107.608253 | lodging  point\_of\_interest  establishment |
|  | Harris Hotel & Conventions Festival Citylink Bandung‎: | -6.9301239  107.5869356 | lodging  point\_of\_interest  establishment |
|  | Grand Royal Panghegar Hotel Bandung: | -6.9156145  107.610291 | lodging  point\_of\_interest  establishment |
|  | Amaris Hotel Cihampelas: | -6.8902561  107.6038019 | lodging  point\_of\_interest  establishment |
|  | Hilton Bandung: | -6.912959  107.597415 | spa  lodging  point\_of\_interest  establishment |
|  | Cihampelas Hotel 2: | -6.8900138  107.6044027 | lodging  point\_of\_interest  establishment |
|  | Mitra Hotel Bandung: | -6.9019058  107.6272525 | lodging  point\_of\_interest  establishment |
|  | Amaroossa Hotel Bandung: | -6.9085309  107.6184555 | lodging  point\_of\_interest  establishment |
|  | Garden Permata Hotel Bandung: | -6.883008  107.5802699 | lodging  point\_of\_interest  establishment |
|  | Aston Primera Pasteur: | -6.895975  107.590677 | lodging  point\_of\_interest  establishment |

**Jakarta**

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| No. | Nama Lokasi | Koordinat | Types |
|  | JW Marriott Hotel Jakarta: | -6.2274379  106.8269599 | lodging  point\_of\_interest  establishment |
|  | The Ritz-Carlton Jakarta, Mega Kuningan: | -6.2285397  106.8271745 | restaurant  food  lodging  point\_of\_interest  establishment |
|  | Soekarno-Hatta International Airport: | -6.1275118  106.6536859 | airport  point\_of\_interest  establishment |
|  | National Monument: | -6.1753924  106.8271528 | point\_of\_interest  establishment |
|  | Halim Perdanakusuma Airport: | -6.2656605  106.8860229 | airport  point\_of\_interest  establishment |
|  | Universitas Pelita Harapan: | -6.2291693  106.6109132 | university  point\_of\_interest  establishment |
|  | Taman Mini Indonesia Indah: | -6.3024459  106.8951559 | park  museum  amusement\_park  point\_of\_interest  establishment |
|  | Mal Kelapa Gading: | -6.1572355  106.9084208 | shopping\_mall  point\_of\_interest  establishment |
|  | National Museum: | -6.1764021  106.8215901 | museum  point\_of\_interest  establishment |
|  | Jakarta History Museum: | -6.1352  106.8133 | museum  point\_of\_interest  establishment |
|  | Plaza Indonesia: | -6.1932714  106.8219954 | shopping\_mall  point\_of\_interest  establishment |
|  | Bogor Botanical Gardens: | -6.5976289  106.7995698 | park  point\_of\_interest  establishment |
|  | Plaza Senayan: | -6.2256049  106.7992178 | shopping\_mall  point\_of\_interest  establishment |
|  | Taman Buah Mekarsari: | -6.4117055  106.9862528 | park  food  point\_of\_interest  establishment |
|  | University of Indonesia: | -6.3680739  106.8295587 | university  point\_of\_interest  establishment |
|  | Planetarium Jakarta: | -6.190171  106.839136 | point\_of\_interest  establishment |
|  | Pondok Indah Mall 2: | -6.2653129  106.782764 | shopping\_mall  point\_of\_interest  establishment |
|  | Istiqlal Mosque: | -6.17017  106.83139 | mosque  school  place\_of\_worship  point\_of\_interest  establishment |
|  | Pacific Place: | -6.224618  106.8099103 | store  shopping\_mall  lodging  point\_of\_interest  establishment |

# 03.10.2016

Dapatkan distance antar tempat dihasilkan

* api nya beda dari api google places, setelah dapat result dari google places, dilanjutkan manggil api yang lain untuk dapetin distance gitu?
* Misal, ada 5 tempat yang dihasilkan, distance antara kota mana dengan mana (start and end point) yang harus dicari? Dikaitkan dengan algoritma GA TSP
* Distance itu berdasarkan jarak yang bisa dilalui mobil. Ingat, bisa dilalui mobil berarti masuk tol. Kan program ini nggak butuh nilai eksak, pendekatan aja ngga papa.