

yelpitout

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```
library(yelpitout)
#> Warning: replacing previous import 'ggmap::inset' by 'magrittr::inset' when
#> loading 'yelpitout'
```

Installation

```
devtools::install_github("vinverguan/yelpitout")
```

Please define your own Yelp key as a global environment variable when using our functions.

You can also use our Yelp key which can be found in this `.Renviron` file.

Introduction

Our package `yelpitout` intends to develop an R wrapper for the Yelp RESTful API.

The package provides users with three different methods to look for businesses they desire on Yelp. First, find businesses by category and location. Second, match business data by using its name on Yelp. Third, search for businesses which support food delivery transactions.

The package includes four functions. The first function `search_cat()` returns some basic information about 50 businesses based on provided category and location. `location_map()` uses the same search criteria but produces a google map visualization of the top 5 businesses ordered by review count. `name_match()` is able to return 1 business that is the best match based on name and location provided. And the last one `delivery_list()` returns up to 20 businesses that can deliver to a provided location ordered by a specified order.

Function 1

```
search_cat(yelp_key, category, city)
```

Parameters:

- `yelp_key` (str): – a Yelp API key
- `category` (str): – a category of business
- `city` (str): – a city name

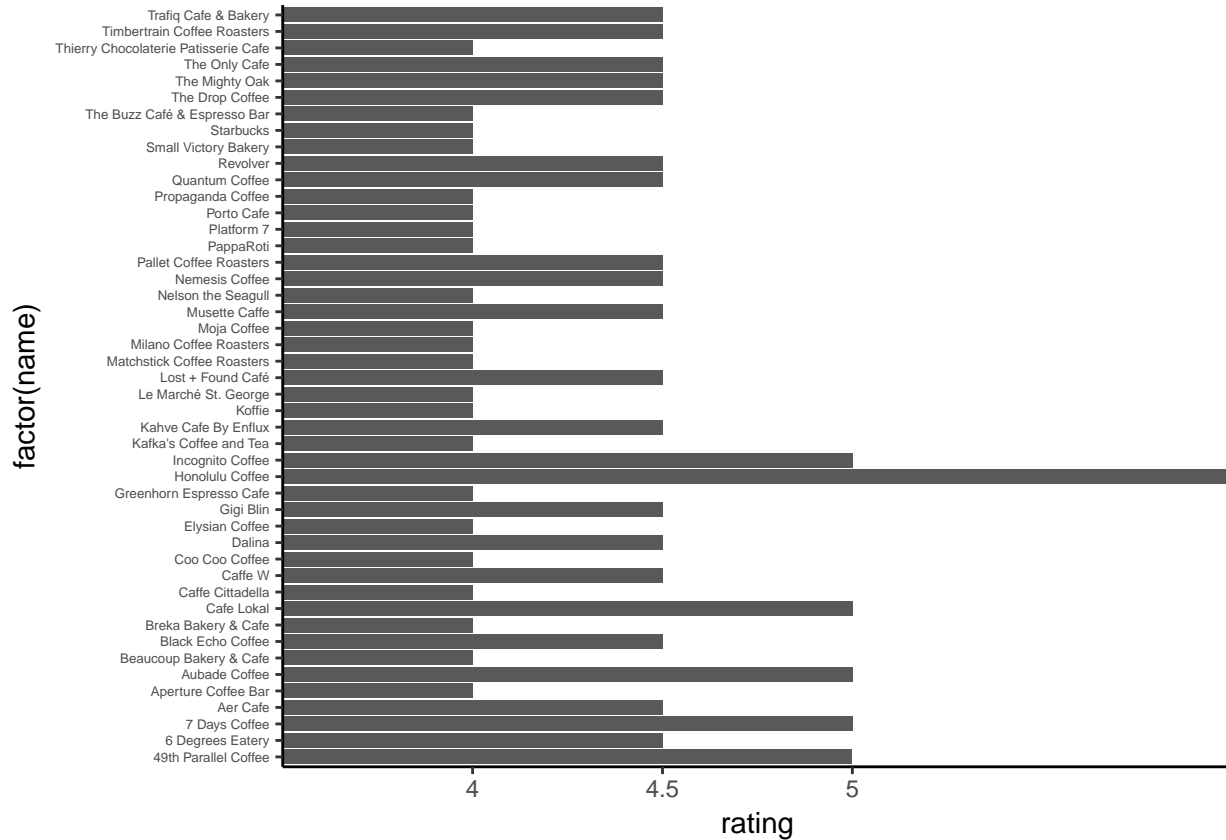
Return:

- a dataframe containing name, rating, review count of 50 businesses

Example 1

```
library(ggplot2)
```

```
result <- search_cat(Sys.getenv("yelp_key"), "cafe", "Vancouver")
ggplot(result, aes(x=factor(name), y=rating)) + geom_bar(stat='identity') +
  coord_flip() +
  theme_classic() +
  theme(axis.text.y = element_text(size = 5))
```



Function 2

```
location_map(yelp_key, category, city)
```

Parameters:

- **yelp_key (str):** – a Yelp API key
- **category (str):** – a category of business
- **city (str):** – a city name

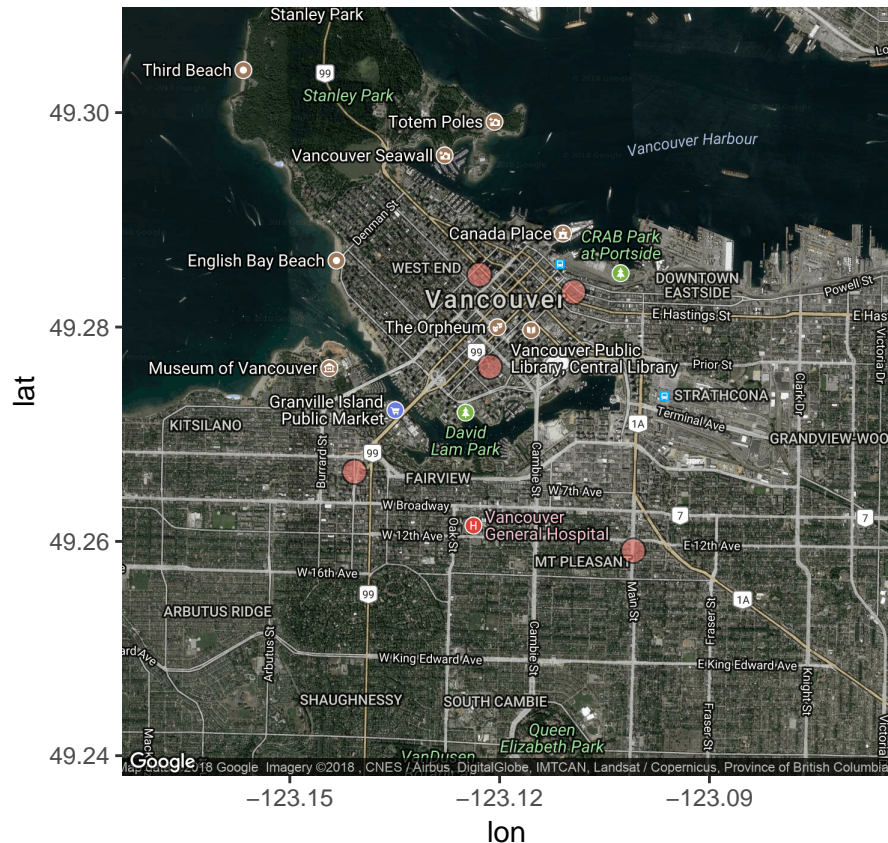
Return:

- a google map including locations of the top 5 businesses (ordered by review count)

Example 2

```
location_map(Sys.getenv("yelp_key"), "cafe", "Vancouver")
```

```
#> Map from URL : http://maps.googleapis.com/maps/api/staticmap?center=49.274016,-123.119075&zoom=13&si
```



Function 3

```
name_match(key, name, city, state, country)
```

Parameters:

- **key (str):** – a Yelp API key
- **name (str):** – the name of a business
- **city (str):** – a city name
- **state (str):** – a state code
- **country (str):** – a country code

Return:

- a dataframe containing name, phone, location and postal code of a business that is the best match

Example 3

```
name_match(Sys.getenv("yelp_key"), "Starbucks", "Burnaby", "BC", "CA")
#>      Name      Phone      Location Postal Code
#> 1 Starbucks +16042931325 4461 Lougheed Hwy      V5C 3Z6
```

Function 4

```
delivery_list(yelp_key, location, order)
```

Parameters:

- **yelp_key (str)**: – a Yelp API key
- **location (str)**: – a delivery location, prefer zipcode
- **order (str)**: – the outcome order method

Return:

- a dataframe of max 20 restaurant that can deliver to a provided location based on the selected order

Example 4

```
delivery_list(Sys.getenv("yelp_key"), "98104", "Rating")
#>      Restaurant Price Rating Review_number Phone_number
#> 1      Jars Juice    $    4.5          106 (206) 249-5988
#> 2 Mediterranean Express    $    4          326 (206) 860-3989
#> 3 Chili & Sesame Korean Kitchen $$    4          301 (206) 443-2013
#> 4      Cheeky Cafe    $$    4          316 (206) 322-9895
#> 5      A Pizza Mart    $$    3.5           38 (206) 623-0777
#> 6      A Pizza Mart    $    3.5           66 (206) 903-8500
#> 7      Mae Phim Thai    $    3.5          269 (206) 624-2979
#> 8      Potbelly Sandwich Shop    $    3.5           61 (206) 204-0079
#> 9      Mae Phim Thai    $    3.5          344 (206) 623-7453
#> 10      Mi La Cay    $    3.5          159 (206) 322-6840
#> 11 Lotus Asian Kitchen & Lounge $$    3          152 (206) 623-6333
#> 12      663 Bistro    $    3          325 (206) 667-8760
#> 13      A Pizza Mart    $    3          255 (206) 381-8688
#> 14      Amante Pizza & Pasta    $$    3           74 (206) 861-1777
#> 15      Taco Del Mar    $    3           23 (206) 467-4878
#> 16      Mad Pizza    $$    3          122 (206) 322-7447
#> 17      Genghis Khan Restaurant    $$    3          276 (206) 682-3606
#> 18 North Shore Hawaiian Barbeque    $    3          169 (206) 621-1121
#> 19      Padrino's Pizza & Pasta    $$    2.5          140 (206) 322-6300
#> 20      Happy Garden    $$    2.5           60 (206) 621-8656
```