

CSCI Final Project

3.6.1.

Overall number of query_result: 24

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{
  "cuisine": [
    "Japanese",
    "Hot Pot"
  ],
  "name": "Nichigyu Shabu Shabu & Sukiya Restaurant",
  "district": "Sha Tin",
  "rating": 3.5,
  "url": "https://s.openrice.com/QrKS0bkG100",
  "reviews": [
    21,
    10,
    5
  ],
  "address": [
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    114.203775
  ],
  "price-range": "$101-200"
}
{
  "cuisine": [
    "Japanese",
    "Sushi/Sashimi"
  ],
  "name": "Sushi Tokumi",
  "district": "Sha Tin",
  "rating": 4.0,
  "url": "https://s.openrice.com/QrKS00du200",
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    5,
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  "address": [
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    114.196194112301
  ],
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}
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  "cuisine": [
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    "Yoshoku"
  ],
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  "district": "Sha Tin",
  "rating": 3.5,
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    114.211528301239
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{
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  "district": "Sha Tin",
  "rating": 4.0,
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  "address": [
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    114.195249
  ],
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}
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    "Sushi/Sashimi",
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  "district": "Sha Tin",
  "rating": 3.5,
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  ],
  "price-range": "$101-200"
}
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{
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    "Fast Food"
  ],
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  "district": "Sha Tin",
  "rating": 3.5,
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    13,
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    114.189982
  ],
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}
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    "Ramen",
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  "district": "Sha Tin",
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    114.188879
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}
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    "Hot Pot"
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  "district": "Sha Tin",
  "rating": 3.5,
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{
  "cuisine": [
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  "district": "Sha Tin",
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{
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  ],
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  "district": "Sha Tin",
  "rating": 3.0,
  "url": "https://s.openrice.com/QrKS0TIW600",
  "reviews": [
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    10,
    10
  ],
  "address": [
    22.3816368524023,
    114.188670516014
  ],
  "price-range": "$101-200"
}
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    "Teppanyaki"
  ],
  "name": "IKI Teppanyaki Bento",

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  }
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      "Sushi/Sashimi"
    ],
    "name": "Mi-Ne Sushi",
    "district": "Sha Tin",
    "rating": 3.5,
    "url": "https://s.openrice.com/QrKS0vqq000",
    "reviews": [
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      33,
      20
    ],
    "address": [
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      114.18875
    ],
    "price-range": "$101-200"
  }
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      "Sushi/Sashimi",
      "Skewer"
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    "rating": 3.0,

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  114.191687
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    "Ramen"
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  "district": "Sha Tin",
  "rating": 3.0,
  "url": "https://s.openrice.com/QrKS0Tby3W0",
  "reviews": [
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{
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    "Coffee Shop"
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  "district": "Sha Tin",
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      "Pizza",
      "Takeaway"
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    "district": "Sha Tin",
    "rating": 3.5,
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      "Sushi/Sashimi",
      "Sushi Bar"
    ],
    "name": "Genki Sushi",
    "district": "Sha Tin",
    "rating": 3.5,
    "url": "https://s.openrice.com/QrKS0RUa100",
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    "Ramen"
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  "district": "Sha Tin",
  "rating": 3.0,
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  "district": "Sha Tin",
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    114.2080413
  ],
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}
{
  "cuisine": [
    "Japanese",
    "Fast Food"
  ],
  "name": "Yoshinoya",
  "district": "Sha Tin",
  "rating": 3.5,
  "url": "https://s.openrice.com/QrKS0d4u000",
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    12,
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  ],
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    114.191852
  ],
  "price-range": "$51-100"
}

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    "Ramen"
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  "name": "Ajisen Ramen",
  "district": "Sha Tin",
  "rating": 3.5,
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  "reviews": [
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    10,
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}
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    "Food Court"
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  "district": "Sha Tin",
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{
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```

    "Ramen"
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3.6.2.

Overall number of query_result: 24

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{
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  "rating": 4.5,
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  "reviews": [
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    0,
    0
  ],
  "address": [
    22.4260101,
    114.2115065
  ],
  "price-range": "$51-100"
}
{

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```
"cuisine": [  
  "Japanese",  
  "Sushi/Sashimi"  
],  
"name": "Sushi Tokumi",  
"district": "Sha Tin",  
"rating": 4.0,  
"url": "https://s.openrice.com/QrKS00du200",  
"reviews": [  
  29,  
  5,  
  1  
],  
"address": [  
  22.3799801002263,  
  114.196194112301  
],  
"price-range": "$101-200"  
}  
{  
  "cuisine": [  
    "Japanese",  
    "Sushi/Sashimi"  
  ],  
  "name": "Waki Shokudo",  
  "district": "Sha Tin",  
  "rating": 4.0,  
  "url": "https://s.openrice.com/QrKS0ChK700",  
  "reviews": [  
    83,  
    5,  
    0  
  ],  
  "address": [  
    22.381189,  
    114.195249  
  ],  
  "price-range": "$51-100"  
}  
{  
  "cuisine": [  
    "Japanese",  
    "Sushi/Sashimi",
```

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    "Hotel Restaurant"
  ],
  "name": "Aji Bou Izakaya",
  "district": "Sha Tin",
  "rating": 3.5,
  "url": "https://s.openrice.com/QrKS04pW000",
  "reviews": [
    45,
    18,
    25
  ],
  "address": [
    22.3825495457725,
    114.196186065674
  ],
  "price-range": "$101-200"
}
{
  "cuisine": [
    "Japanese",
    "Sushi/Sashimi"
  ],
  "name": "Mi-Ne Sushi",
  "district": "Sha Tin",
  "rating": 3.5,
  "url": "https://s.openrice.com/QrKS0vqq000",
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    48,
    33,
    20
  ],
  "address": [
    22.381386,
    114.18875
  ],
  "price-range": "$101-200"
}
{
  "cuisine": [
    "Japanese",
    "Hot Pot"
  ],
  "name": "Nichigyu Shabu Shabu & Sukiyaki Restaurant",

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```
"district": "Sha Tin",
"rating": 3.5,
"url": "https://s.openrice.com/QrKS0bkG100",
"reviews": [
  21,
  10,
  5
],
"address": [
  22.386653,
  114.203775
],
"price-range": "$101-200"
}
{
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    "Japanese",
    "Hot Pot"
  ],
  "name": "Wagyu More",
  "district": "Sha Tin",
  "rating": 3.5,
  "url": "https://s.openrice.com/QrKS08Q4200",
  "reviews": [
    35,
    17,
    8
  ],
  "address": [
    22.3824519678524,
    114.19007062912
  ],
  "price-range": "$101-200"
}
{
  "cuisine": [
    "Japanese",
    "Sushi/Sashimi",
    "Yoshoku"
  ],
  "name": "Yayoi Japanese Dining Room",
  "district": "Sha Tin",
  "rating": 3.5,
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"url": "https://s.openrice.com/QrKS0GKK200",
"reviews": [
  38,
  8,
  7
],
"address": [
  22.4261583931752,
  114.211528301239
],
"price-range": "$101-200"
}
{
  "cuisine": [
    "Japanese",
    "Ramen",
    "Food Wise Eateries"
  ],
  "name": "Butao Ramen",
  "district": "Sha Tin",
  "rating": 3.5,
  "url": "https://s.openrice.com/QrKS0iLG200",
  "reviews": [
    54,
    45,
    15
  ],
  "address": [
    22.381668,
    114.188879
  ],
  "price-range": "$51-100"
}
{
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    "Japanese"
  ],
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  "district": "Sha Tin",
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{
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    ],
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    "district": "Sha Tin",
    "rating": 3.5,
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        114.2080413
    ],
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}
{
    "cuisine": [
        "Japanese",
        "Pizza",
        "Takeaway"
    ],
    "name": "Ti Amo\\u624b\\u4f5c",
    "district": "Sha Tin",
    "rating": 3.5,
    "url": "https://s.openrice.com/QrKS0qkS600",
    "reviews": [
        9,
        2,
        1
    ],

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```
"address": [
  22.3803399,
  114.1972045
],
"price-range": "$51-100"
}
{
  "cuisine": [
    "Japanese",
    "Fast Food"
  ],
  "name": "Yoshinoya",
  "district": "Sha Tin",
  "rating": 3.5,
  "url": "https://s.openrice.com/QrKS0ylA000",
  "reviews": [
    20,
    13,
    2
  ],
  "address": [
    22.383372,
    114.189982
  ],
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}
{
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    "Japanese",
    "Fast Food"
  ],
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  "district": "Sha Tin",
  "rating": 3.5,
  "url": "https://s.openrice.com/QrKS0d4u000",
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    12,
    12,
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  ],
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    22.384631,
    114.191852
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    ],
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  {
    "cuisine": [
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      "Sushi/Sashimi",
      "Sushi Bar"
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    "name": "Genki Sushi",
    "district": "Sha Tin",
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    "url": "https://s.openrice.com/QrKS0pvG000",
    "reviews": [
      18,
      21,
      1
    ],
    "address": [
      22.3859357180841,
      114.203996658325
    ],
    "price-range": "$101-200"
  }
  {
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      "Japanese",
      "Sushi/Sashimi",
      "Sushi Bar"
    ],
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    "district": "Sha Tin",
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      2,
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      114.195853471756
    ],
  },

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```
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}
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  "rating": 3.5,
  "url": "https://s.openrice.com/QrKS0vQ8100",
  "reviews": [
    5,
    10,
    0
  ],
  "address": [
    22.38633,
    114.204143
  ],
  "price-range": "$51-100"
}
{
  "cuisine": [
    "Japanese",
    "Coffee Shop"
  ],
  "name": "Mellow Brown Coffee by UCC",
  "district": "Sha Tin",
  "rating": 3.0,
  "url": "https://s.openrice.com/QrKS0sv4700",
  "reviews": [
    14,
    8,
    21
  ],
  "address": [
    22.381825343915,
    114.188343286514
  ],
  "price-range": "$101-200"
}
{
```

```
"cuisine": [  
  "Japanese",  
  "Teppanyaki"  
],  
"name": "IKI Teppanyaki Bento",  
"district": "Sha Tin",  
"rating": 3.0,  
"url": "https://s.openrice.com/QrKS05y4000",  
"reviews": [  
  40,  
  48,  
  46  
],  
"address": [  
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  114.18875  
],  
"price-range": "$101-200"  
}  
{  
  "cuisine": [  
    "Japanese",  
    "Sushi/Sashimi"  
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  "name": "Sushi Hiro Kitchen",  
  "district": "Sha Tin",  
  "rating": 3.0,  
  "url": "https://s.openrice.com/QrKS0TIW600",  
  "reviews": [  
    10,  
    10,  
    10  
  ],  
  "address": [  
    22.3816368524023,  
    114.188670516014  
  ],  
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}  
{  
  "cuisine": [  
    "Japanese",  
    "Ramen"
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],
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"district": "Sha Tin",
"rating": 3.0,
"url": "https://s.openrice.com/QrKS0Tby3W0",
"reviews": [
    7,
    8,
    7
],
"address": [
    22.3876337334994,
    114.195102453232
],
"price-range": "$51-100"
}
{
    "cuisine": [
        "Japanese",
        "Sushi/Sashimi",
        "Skewer"
    ],
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    "district": "Sha Tin",
    "rating": 3.0,
    "url": "https://s.openrice.com/QrKS0CC8100",
    "reviews": [
        21,
        7,
        11
    ],
    "address": [
        22.384818,
        114.191687
    ],
    "price-range": "$101-200"
}
{
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        "Ramen"
    ],
    "name": "Ramen Dou",

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  2,
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  114.20804142952
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"price-range": "$51-100"
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    "Ramen"
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  "district": "Sha Tin",
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    114.193332195282
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  "price-range": "$51-100"
}
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    {
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        "Sushi/Sashimi"
      ],
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"district": "Sha Tin",
"rating": 4.0,
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  114.195249
],
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}
],
[
  1.0225235630907907,
  {
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      "Ramen"
    ],
    "name": "Ajisen Ramen",
    "district": "Sha Tin",
    "rating": 3.5,
    "url": "https://s.openrice.com/QrKS0vQ8100",
    "reviews": [
      5,
      10,
      0
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      22.38633,
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    ],
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],
[
  1.0674670035143679,
  {
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      "Japanese",
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    "Fast Food"
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  "name": "Yoshinoya",
  "district": "Sha Tin",
  "rating": 3.5,
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  "reviews": [
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    12,
    1
  ],
  "address": [
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  ],
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[
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  {
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      "Fast Food"
    ],
    "name": "Yoshinoya",
    "district": "Sha Tin",
    "rating": 3.5,
    "url": "https://s.openrice.com/QrKS0yIA000",
    "reviews": [
      20,
      13,
      2
    ],
    "address": [
      22.383372,
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  }
],
[
  1.1130174319267032,
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{
  "cuisine": [
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    "Pizza",
    "Takeaway"
  ],
  "name": "Ti Amo\\u624b\\u4f5c",
  "district": "Sha Tin",
  "rating": 3.5,
  "url": "https://s.openrice.com/QrKS0qkS600",
  "reviews": [
    9,
    2,
    1
  ],
  "address": [
    22.3803399,
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  ],
  "price-range": "$51-100"
}
],
[
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  {
    "cuisine": [
      "Japanese"
    ],
    "name": "Ca-Tu-Ya",
    "district": "Sha Tin",
    "rating": 3.5,
    "url": "https://s.openrice.com/QrKS0Rpa800",
    "reviews": [
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      3,
      1
    ],
    "address": [
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  }
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],
[
  1.1456567991128104,
  {
    "cuisine": [
      "Japanese"
    ],
    "name": "Kyoto Japanese Restaurant",
    "district": "Sha Tin",
    "rating": 3.5,
    "url": "https://s.openrice.com/QrKS0S18800",
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      3,
      1
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    "address": [
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  }
],
[
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  {
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      "Japanese",
      "Ramen",
      "Food Wise Eateries"
    ],
    "name": "Butao Ramen",
    "district": "Sha Tin",
    "rating": 3.5,
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    "reviews": [
      54,
      45,
      15
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    "address": [
      22.381668,
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]
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    ],
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  }
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    ],
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    "district": "Sha Tin",
    "rating": 3.0,
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    "reviews": [
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      4,
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    ],
    "address": [
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      114.193332195282
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    "price-range": "$51-100"
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  1.7428766847880692,
  {
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      "Japanese",
      "Ramen"
    ],
    "name": "Ramen Dou",
    "district": "Sha Tin",
    "rating": 3.0,
    "url": "https://s.openrice.com/QrKS0vnW800",
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      2,
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}
],
[
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  {
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      "Ramen"
    ],
    "name": "Daimon Shokudon",
    "district": "Sha Tin",
    "rating": 3.0,
    "url": "https://s.openrice.com/QrKS0Tby3W0",
    "reviews": [
      7,
      8,
      7
    ],
    "address": [
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    "price-range": "$51-100"
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],
[
  75.55887446871026,
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      "Sushi/Sashimi"
    ],
    "name": "Sushi Tokumi",
    "district": "Sha Tin",
    "rating": 4.0,
    "url": "https://s.openrice.com/QrKS00du200",
    "reviews": [
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1
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[
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  {
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      "Japanese",
      "Sushi/Sashimi",
      "Sushi Bar"
    ],
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    "district": "Sha Tin",
    "rating": 3.5,
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    "reviews": [
      3,
      2,
      0
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],
[
  76.04793051206744,
  {
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      "Sushi/Sashimi",
      "Sushi Bar"
    ],
    "name": "Genki Sushi",
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}
],
[
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  {
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      "Sushi/Sashimi",
      "Yoshoku"
    ],
    "name": "Yayoi Japanese Dining Room",
    "district": "Sha Tin",
    "rating": 3.5,
    "url": "https://s.openrice.com/QrKS0GKK200",
    "reviews": [
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      8,
      7
    ],
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      114.211528301239
    ],
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],
[
  76.16112976235885,
  {
    "cuisine": [
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```
    "Japanese",
    "Hot Pot"
  ],
  "name": "Nichigyu Shabu Shabu & Suiyaki Restaurant",
  "district": "Sha Tin",
  "rating": 3.5,
  "url": "https://s.openrice.com/QrKS0bkG100",
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    5
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],
[
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  {
    "cuisine": [
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      "Hot Pot"
    ],
    "name": "Wagyu More",
    "district": "Sha Tin",
    "rating": 3.5,
    "url": "https://s.openrice.com/QrKS08Q4200",
    "reviews": [
      35,
      17,
      8
    ],
    "address": [
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      114.19007062912
    ],
    "price-range": "$101-200"
  }
],
[
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76.2297611705565,
{
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    "Japanese",
    "Sushi/Sashimi"
  ],
  "name": "Mi-Ne Sushi",
  "district": "Sha Tin",
  "rating": 3.5,
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    48,
    33,
    20
  ],
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],
[
  76.31193698262541,
  {
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      "Japanese",
      "Sushi/Sashimi",
      "Hotel Restaurant"
    ],
    "name": "Aji Bou Izakaya",
    "district": "Sha Tin",
    "rating": 3.5,
    "url": "https://s.openrice.com/QrKS04pW000",
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      45,
      18,
      25
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      114.196186065674
    ],
  },
]
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],
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  {
    "cuisine": [
      "Japanese",
      "Sushi/Sashimi",
      "Skewer"
    ],
    "name": "\\\u4e09\\\u6a4b\\\u4e00\\\u54c1\\\u65e5\\\u672c\\\u6599\\\u7406",
    "district": "Sha Tin",
    "rating": 3.0,
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      7,
      11
    ],
    "address": [
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      114.191687
    ],
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  }
],
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  76.86488737533847,
  {
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      "Sushi/Sashimi"
    ],
    "name": "Sushi Hiro Kitchen",
    "district": "Sha Tin",
    "rating": 3.0,
    "url": "https://s.openrice.com/QrKS0TIW600",
    "reviews": [
      10,
      10,
      10
    ],
  }
],
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"address": [
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  114.188670516014
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}
],
[
  76.87502495066586,
  {
    "cuisine": [
      "Japanese",
      "Teppanyaki"
    ],
    "name": "IKI Teppanyaki Bento",
    "district": "Sha Tin",
    "rating": 3.0,
    "url": "https://s.openrice.com/QrKS05y4000",
    "reviews": [
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      48,
      46
    ],
    "address": [
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      114.18875
    ],
    "price-range": "$101-200"
  }
],
[
  77.01990955222921,
  {
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      "Japanese",
      "Coffee Shop"
    ],
    "name": "Mellow Brown Coffee by UCC",
    "district": "Sha Tin",
    "rating": 3.0,
    "url": "https://s.openrice.com/QrKS0sv4700",
    "reviews": [
      14,
```

```

      8,
      21
    ],
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      22.381825343915,
      114.188343286514
    ],
    "price-range": "$101-200"
  }
]
]

```

3.6.3.

Overall number of query_result: 10

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{
  "cuisine": [
    "Western",
    "Upper-floor Cafe"
  ],
  "name": "Odd Boardgame Bar & Cafe",
  "district": "Mong Kok",
  "rating": 4.5,
  "url": "https://s.openrice.com/QrKS0nfm600",
  "reviews": [
    47,
    2,
    5
  ],
  "address": [
    22.315084,
    114.1698156
  ],
  "price-range": "$51-100"
}
{
  "cuisine": [
    "Western",
    "Seafood",
    "Western Restaurant"
  ],
  "name": "The Stage",
  "district": "Sha Tin",

```

```

    "rating": 4.0,
    "url": "https://s.openrice.com/QrKS00ni700",
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{
    "cuisine": [
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    ],
    "name": "The Green",
    "district": "Sha Tin",
    "rating": 4.0,
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}
{
    "cuisine": [
        "Middle Eastern",
        "Meatless Menu"
    ],
    "name": "Ebeneezer&#39;s Kebabs & Pizzeria",
    "district": "Sha Tin",
    "rating": 4.0,
    "url": "https://s.openrice.com/QrKS0ySo100",
    "reviews": [
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```

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        2,
        0
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    "price-range": "$51-100"
}
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        "Hamburger",
        "Coffee Shop"
    ],
    "name": "Craps Cafe",
    "district": "Sha Tin",
    "rating": 4.0,
    "url": "https://s.openrice.com/QrKS02Cy300",
    "reviews": [
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        2,
        0
    ],
    "address": [
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        114.207555413213
    ],
    "price-range": "$51-100"
}
{
    "cuisine": [
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    ],
    "name": "u5bccu6771u95a3u6d77u9baeu9152u5bb6",
    "district": "Sha Tin",
    "rating": 4.0,
    "url": "https://s.openrice.com/QrKS0Fyw300",
    "reviews": [
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        2,
        0
    ],

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```
"address": [
  22.384713,
  114.191711
],
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}
{
  "cuisine": [
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    "Wine",
    "Bar"
  ],
  "name": "Carnival Bar",
  "district": "Sha Tin",
  "rating": 4.0,
  "url": "https://s.openrice.com/QrKS0CW000",
  "reviews": [
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    2,
    0
  ],
  "address": [
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    114.196175336838
  ],
  "price-range": "$51-100"
}
{
  "cuisine": [
    "Japanese",
    "Sushi/Sashimi"
  ],
  "name": "Waki Shokudo",
  "district": "Sha Tin",
  "rating": 4.0,
  "url": "https://s.openrice.com/QrKS0ChK700",
  "reviews": [
    83,
    5,
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  "address": [
    22.381189,
```

```
114.195249
],
"price-range": "$51-100"
}
{
  "cuisine": [
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    "Chocolate/Candy Shop"
  ],
  "name": "Godiva Chocolatier",
  "district": "Sha Tin",
  "rating": 4.0,
  "url": "https://s.openrice.com/QrKS0Pv4200",
  "reviews": [
    20,
    6,
    0
  ],
  "address": [
    22.3814053712227,
    114.188568592072
  ],
  "price-range": "$51-100"
}
{
  "cuisine": [
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    "Cake",
    "Chocolate/Candy Shop"
  ],
  "name": "Lucullus Gourmet Shop",
  "district": "Sha Tin",
  "rating": 4.0,
  "url": "https://s.openrice.com/QrKS0eVK600",
  "reviews": [
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  "address": [
    22.3792893,
    114.1879041
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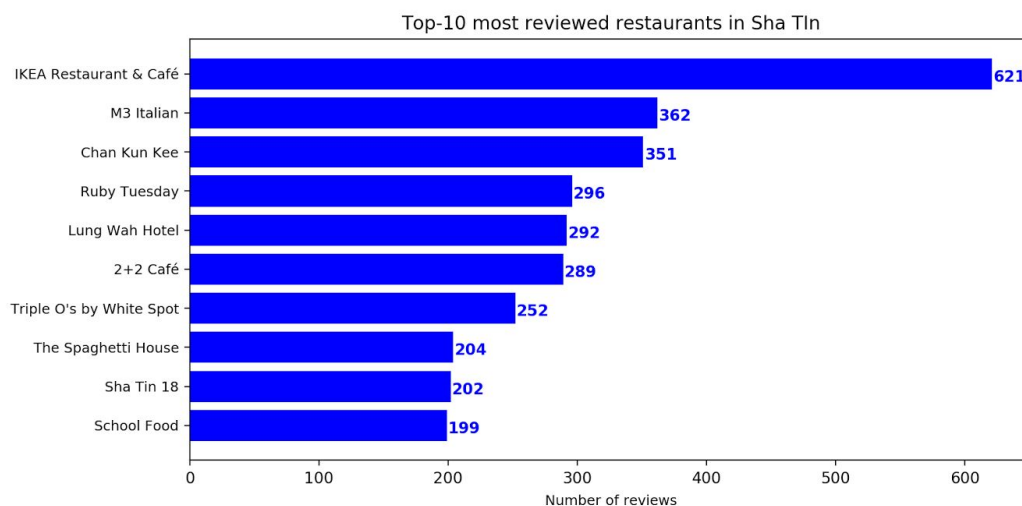


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"price-range": "$51-100"  
}
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Section 3 Comments and Suggestions

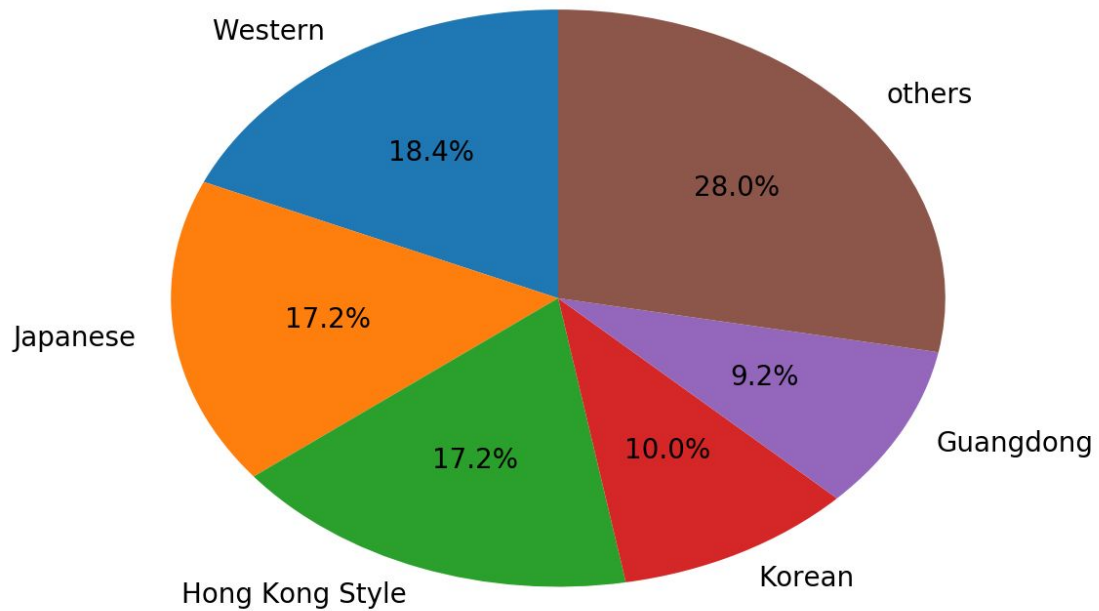
Although the function seems to work fairly well, I think it would be more useful to create a function that retrieves a certain number of results. Instead of scoring restaurants based on their similarity, it may be useful to retrieve only a chosen number of restaurants in the first place so that the data is not so overwhelming. The filter function is the most thorough function and it allows for the most flexibility and specificity. The ranking and similarity functions are useful as well but they do not provide the specificity that is initially used in the filter function. Also, the rank function is not very user friendly. The function would benefit if a user, who had no programming experience, had an intuitive way to choose criteria for the similar restaurant that she prefers. The way we chose the rank the restaurants may not be unanimous with all users, so perhaps the rank function should be more flexible like the filter function.

4.1.



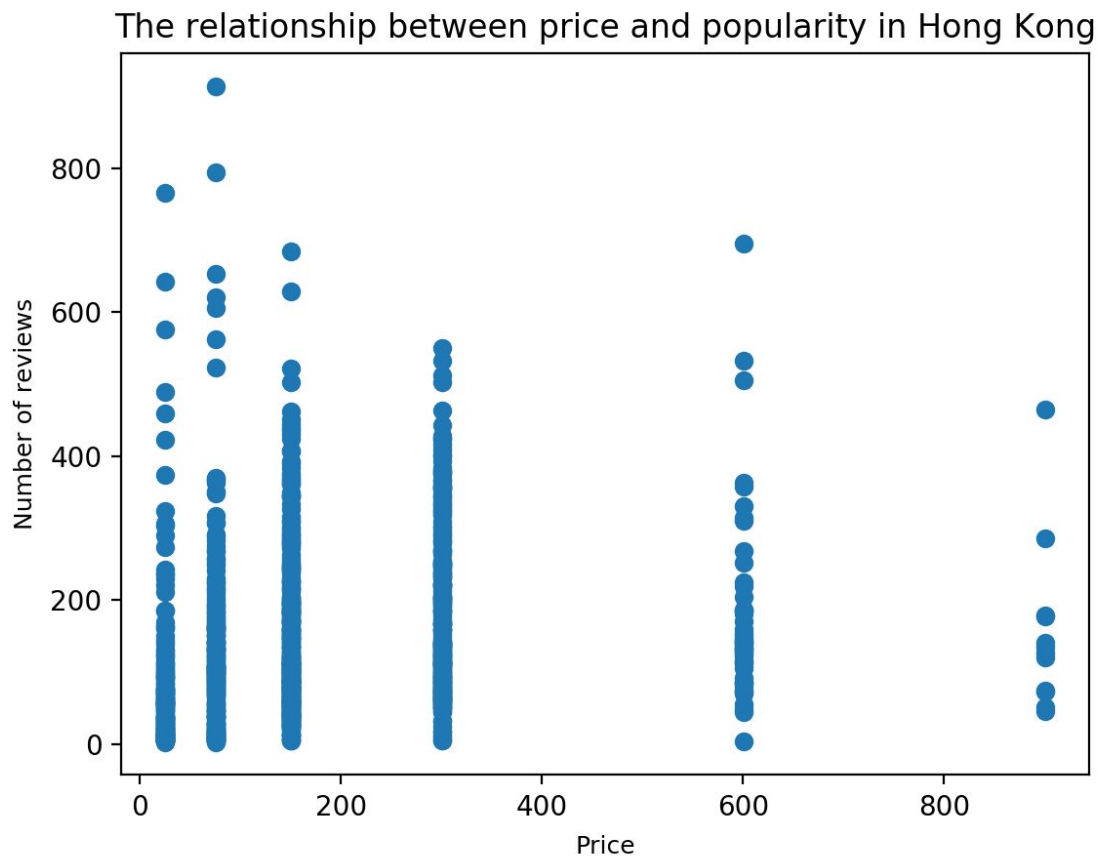
4.2.

Top-5 cuisine types in Mong Kok



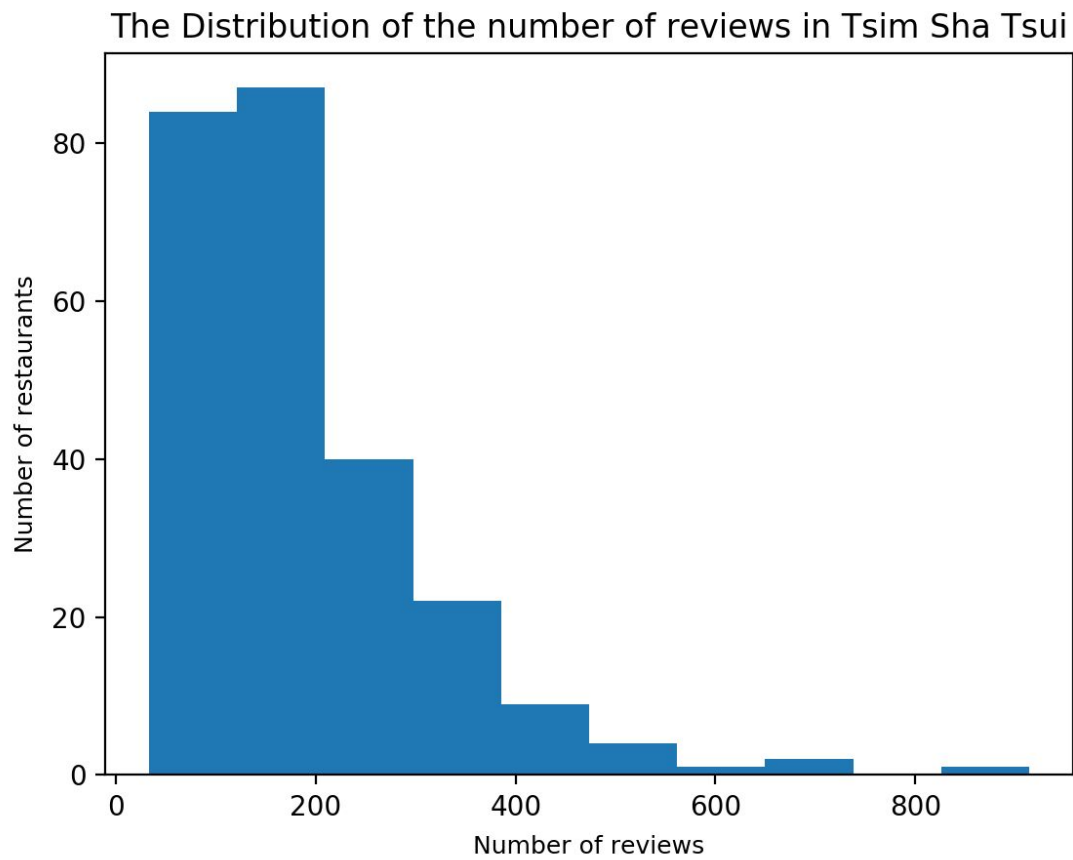
Others type of cuisine has the highest percentage, followed by western cuisine. Japanese and Hong Style has the same result. Finally, Korean and Guangdong have the least percentage.

4.3.



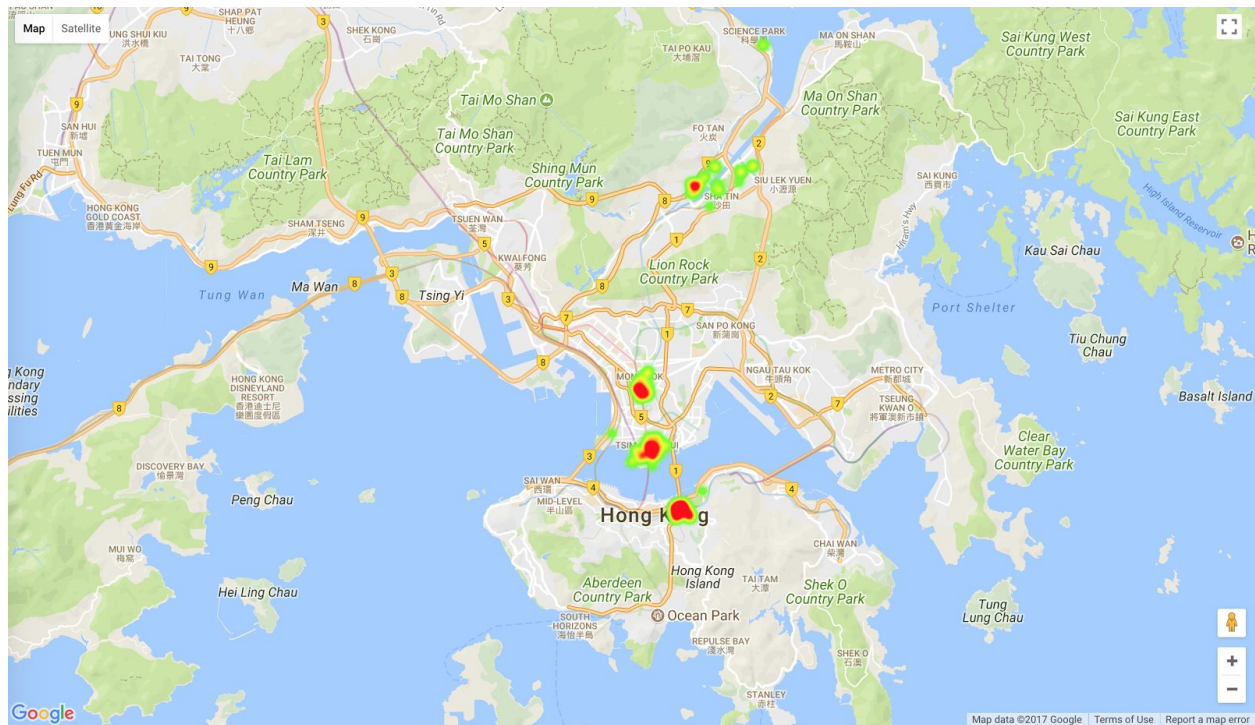
There seems to be no linear relationship between price and number of reviews. But generally, restaurants with lower price have more number of reviews.

4.4.



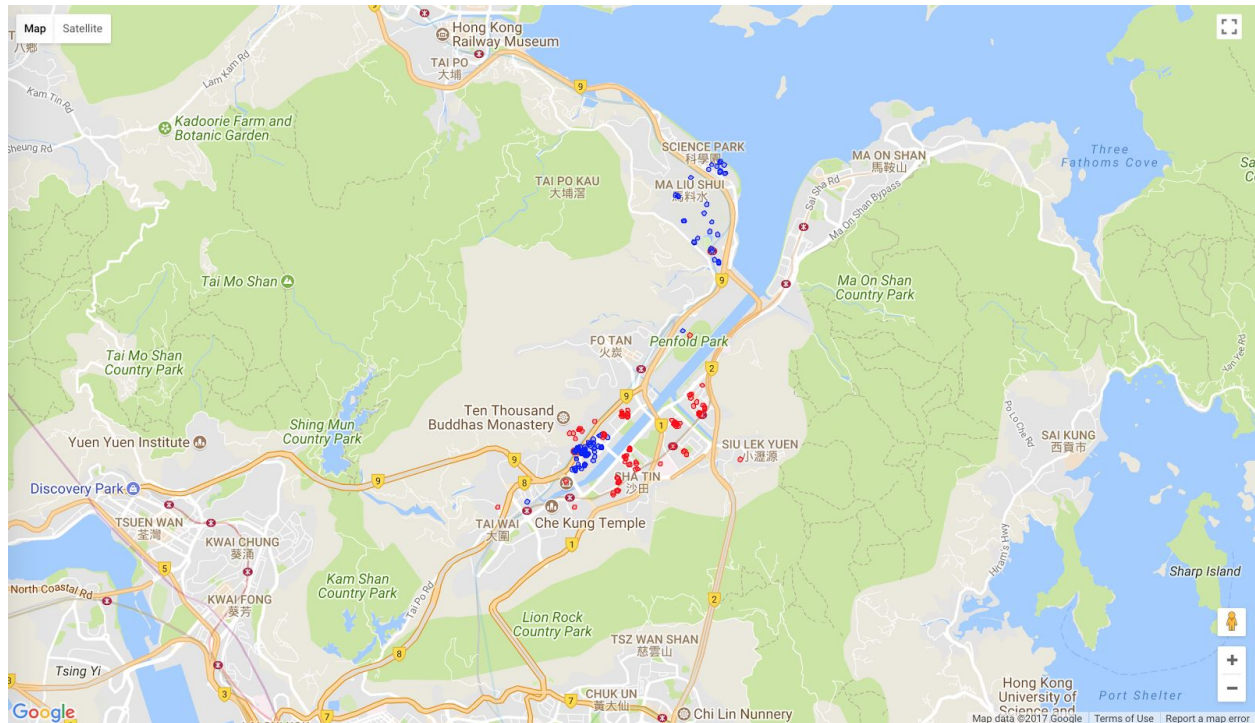
The distribution is right skew. There is no restaurant have 0 review. Most restaurants have review between 50 to 250.

5.1.



Bob should open his restaurant in Sha Tin. We think this is the best location because there are not very many Japanese restaurants in the Sha Tin area, whereas Tsim Sha Shiu and Mong Kok each have many Japanese restaurants and it would be more difficult for Bob's restaurant to compete in those areas. People across Hong Kong have similar tastes, so it makes sense that Japanese food would be as loved in Sha Tin as it is in the other two locations. Therefore, Bob has a good chance have gaining a large market share if he chooses to open his restaurant in an area that is mostly lacking Japanese restaurants compared to other parts of Hong Kong.

5.2.



All restaurants in science park and ma Liu Shui and some restaurants near Sha Tin Station can be reached within 35 mins by public transportation.