

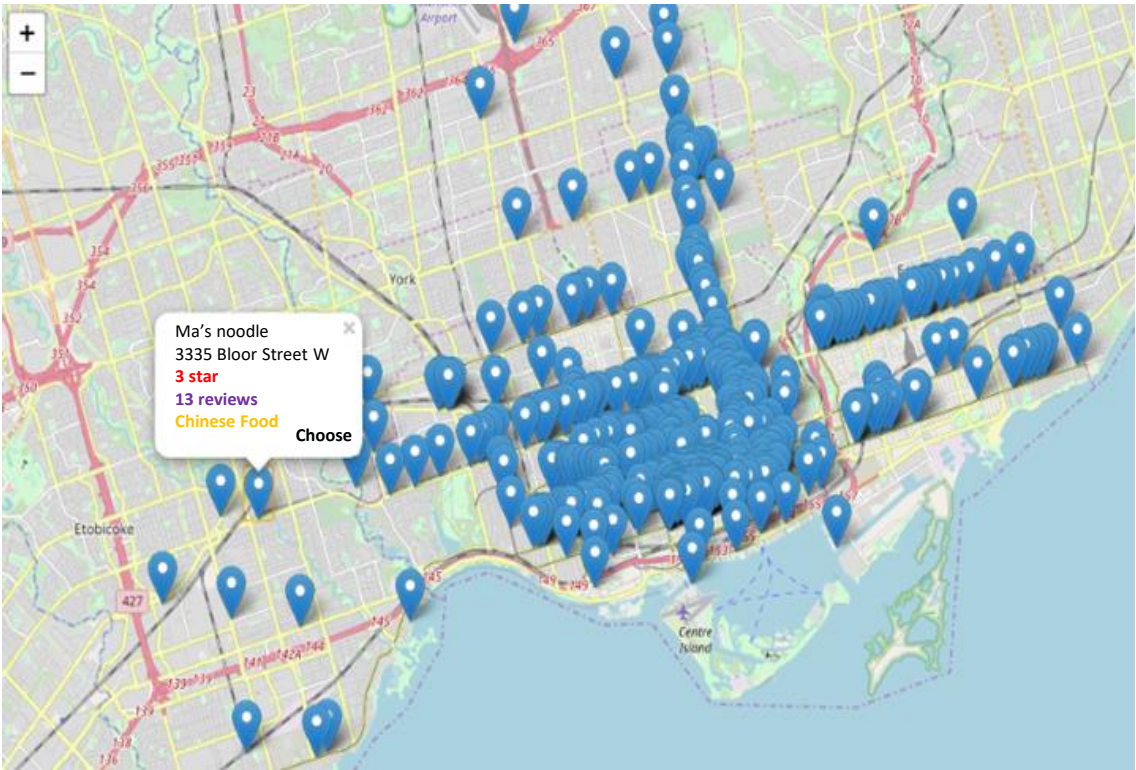
# Yelp Review Analysis

Exploring

Single Dashboard

Industry Dashboard

City: Toronto      Category: Food      Sub Category: Chinese food



Exploring

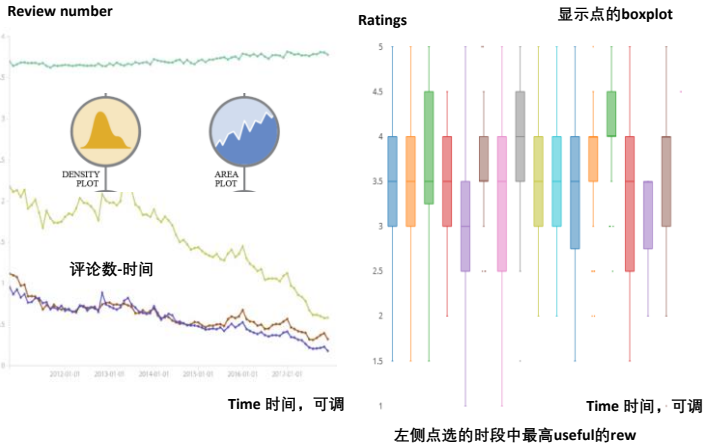
Single Dashboard

Industry Dashboard

如果是tips的话：  
点选keywords之后在右侧显示前3个有相关关键词的时间最近的tips,在评论中将keywords标红显示，将其所在句子高亮



Name: Ma's Noodle    City: Toronto    Category: Food    Key: Fast food, Chinese food



PREVIEW

在左边点选的在这里高亮    用不同颜色高亮 正面/负面词语

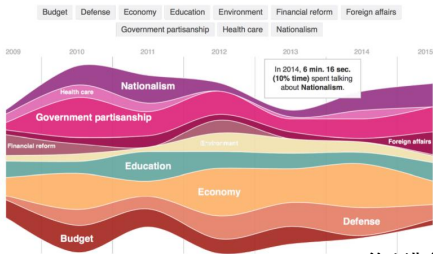
Highest voted Negative

用不同颜色高亮 正面/负面词语  
左侧点选的时段中最高useful的 投票低于平均分的评论

Highest voted Positive

用不同颜色高亮 正面/负面词语  
左侧点选的时段中最高useful的 投票高于平均分的评论

ThemeRiver/StreamGraph

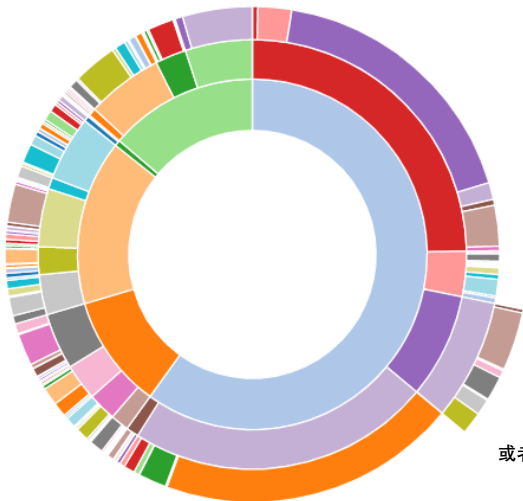


点选时段 在左侧显示详细内容

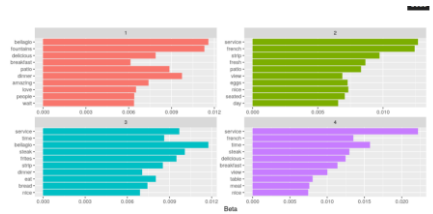
top关键词提取 选成2个单词长度！  
第八讲-第九讲  
ppt上还有很多类似的实现，选了一些，见附录  
做不出来就做带离散时间轴的词云

Topic Key words

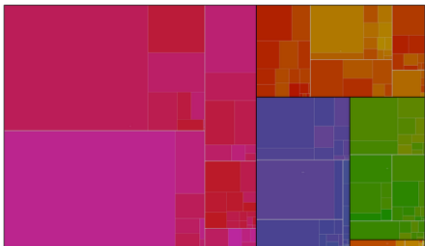
Tips word sunburst(separated by topics)



或者



Tips word tree-map(separated by topics)



暂定在单独这家餐馆的review上做，tips也可以试试

# Yelp Review Analysis

Exploring

Single Dashboard

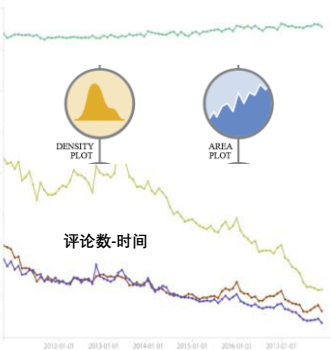
Industry Dashboard

City: Toronto

Category: Food

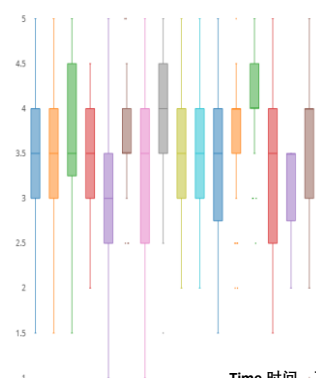
Key: Fast food, Chinese food

Review number



Time 时间, 可调

Ratings

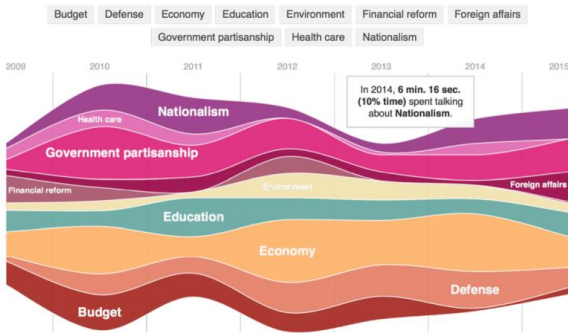


显示点的boxplot

Time 时间, 可调

本页的图和之前的x-y轴内容一致，但将对象改成同行业中同keywords(例如Chinese food)的全行业平均/top10

如果太少的话可以放到single dashboard里

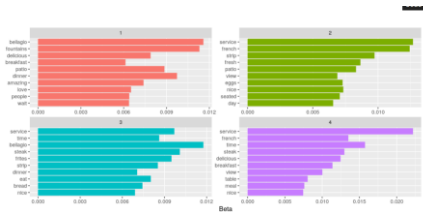
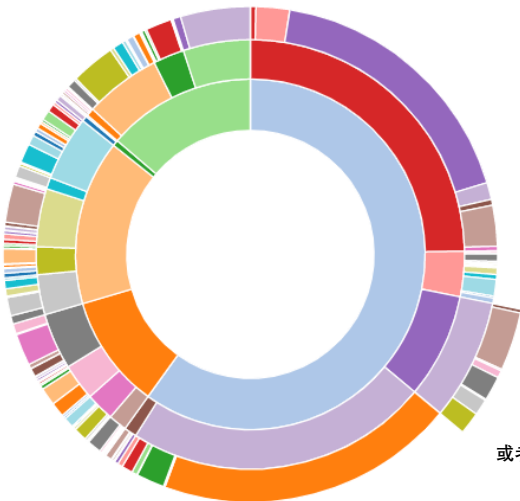


top关键词提取 选成2个单词长度!

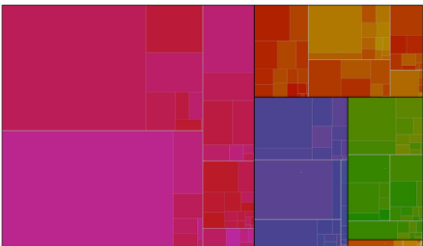
第八讲ppt上还有很多类似的实现 做不出来就做带离散时间轴的词云

Topic Key words

Tips word sunburst(separated by topics)



Tips word tree-map(separated by topics)



或者

review上做, tips也可以试试



Dataset components

business.json

Contains business data including location data, attributes, and categories.

Blue: Identifying  
Orange: Information  
Purple: Filter

```
{
  // string, 22 character unique string business id
  "business_id": "tnhfDv5I18EaGSXZGiuQgG",

  // string, the business's name
  "name": "Garaje",

  // string, the full address of the business
  "address": "475 3rd St",

  // string, the city
  "city": "San Francisco",

  // string, 2 character state code, if applicable
  "state": "CA",

  // string, the postal code
  "postal code": "94107",

  // float, latitude
  "latitude": 37.7817529521,

  // float, longitude
  "longitude": -122.39612197,

  // float, star rating, rounded to half-stars
  "stars": 4.5,

  // integer, number of reviews
  "review_count": 1198,

  // integer, 0 or 1 for closed or open, respectively
  "is open": 1,

  // object, business attributes & values. note: some attribute values may be null
  "attributes": {
    "RestaurantsTakeOut": true,
    "BusinessParking": {
      "garage": false,
      "street": true,
      "validated": false,
      "lot": false,
      "valet": false
    },
    // an array of strings of business categories
    "categories": [
      "Mexican",
      "Burgers",
      "Gastropubs"
    ],
    // an object of key day to value hours, hours are using a 24hr clock
    "hours": {
      "Monday": "10:00-21:00",
      "Tuesday": "10:00-21:00",
      "Friday": "10:00-21:00",
      "Wednesday": "10:00-21:00",
      "Thursday": "10:00-21:00",
      "Sunday": "11:00-18:00",
      "Saturday": "10:00-21:00"
    }
  }
}
```

Dataset components

review.json

Contains full review text data including the user\_id that wrote the review and the business\_id the review is written for.

```
{
  // string, 22 character unique review id
  "review_id": "zdSx_5D6obEhz9VrW9uAWA",

  // string, 22 character unique user id, maps to the user in user.json
  "user_id": "Ha3iJu77CxlrFm-vQRs_8g",

  // string, 22 character business id, maps to business in business.json
  "business_id": "tnhfDv5I18EaGSXZGiuQgG",

  // integer, star rating
  "stars": 4,

  // string, date formatted like YYYY-MM-DD
  "date": "2016-03-09",

  // string, the review itself
  "text": "Great place to hang out after work : the prices are decent, and",

  // integer, number of useful votes received
  "useful": 0,

  // integer, number of funny votes received
  "funny": 0,

  // integer, number of cool votes received
  "cool": 0
}
```

Dataset components

```
tip.json

Tips written by a user on a business. Tips are shorter than reviews and tend to convey quick suggestions.

// string, text of the tip
"text": "Secret menu - fried chicken sando is do bombbbbbbb Their zapatos are",

// string, when the tip was written, formatted like YYYY-MM-DD
"date": "2013-09-20",

// integer, how many compliments it has
"compliment_count": 172,

// string, 22 character business id, maps to business in business.json
"business_id": "tnhfDv5I18EaGSXZGiuQgG",

// string, 22 character unique user id, maps to the user in user.json
"user_id": "49JhA7h8vSQ-vM4Aour10g"
```

```
user.json

User data including the user's friend mapping and all the metadata associated with the user.

{
  // string, 22 character unique user id, maps to the user in user.json
  "user_id": "Ha3iJu77CxlrFm-vQRs_8g",

  // string, the user's first name
  "name": "Sebastien",

  // integer, the number of reviews they've written
  "review_count": 56,

  // string, when the user joined Yelp, formatted like YYYY-MM-DD
  "yelping_since": "2011-01-01",

  // array of strings, an array of the user's friend as user_ids
  "friends": [
    "wqoXYLhmpkEH0VvTnhB3Q",
    "KUXLLi7GrjtSsapmmpvTA",
    "6e9rJKQC3n0RSKyHLVil-Q"
  ],

  // integer, number of useful votes sent by the user
  "useful": 21,

  // integer, number of funny votes sent by the user
  "funny": 88,

  // integer, number of cool votes sent by the user
  "cool": 15,

  // integer, number of fans the user has
  "fans": 1032,

  // array of integers, the years the user was elite
  "elite": [
    2012,
    2013
  ]
}
```

Task

我们可以提出许多问题：  
评论模式在时间和地理上有什么不同，评论和企业的特点是什么，如何通过评论有效地提供企业的可视化摘要？

我们选择以个体企业为主要服务对象,帮助他们通过yelp的数据集分析自己的经营情况和同行业竞争状况

- 1.以其评分、收到的建议和评价制作dashboard,
- 2.其同行业状况: 整体收到的评价、建议、同类前10的状况，制作dashboard
- 3.同类店家的地理分布预览