### **DVP Presentation**

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Project Title: Restaurants near me - Uber Eats

#### **Introduction and Motivation**

In 2014, Uber launched an online food ordering and delivery platform which is called Uber Eats. Users can use a mobile app, or through a web browser, to read menus, view restaurant locations and ratings, order and pay for food from participating restaurants. Besides, with Uber Eats delivery, all people favorite foods are right at doors with just a tap of phone.

The questions I would like to study in DVP are:

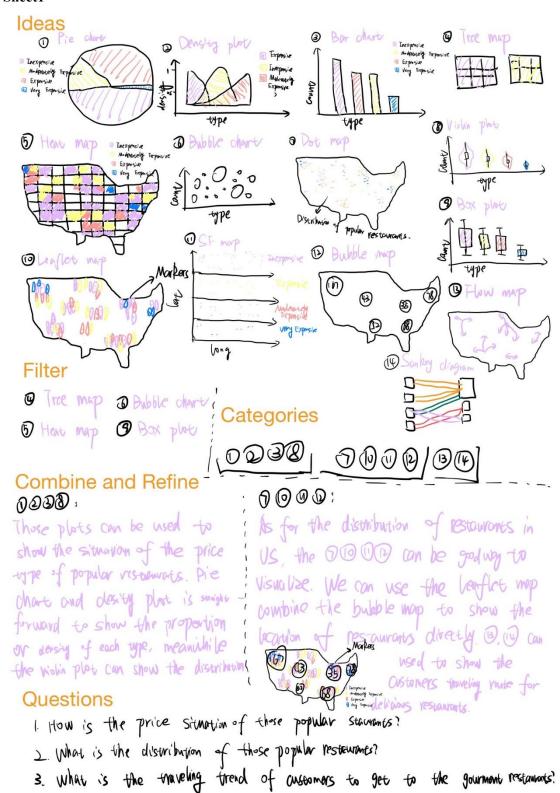
- 1. How are the characteristics of the most popular restaurants?
- 2. How much cost can people expend for hot gourmet restaurants?

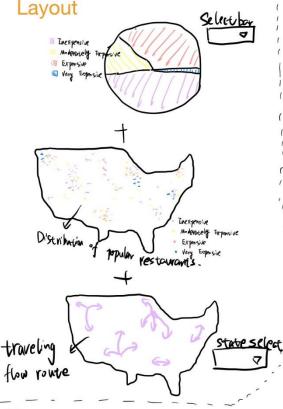
#### Aim

The key message that I hope to convey to the target audience is how to show the distribution of popular restaurants by price type and the geographical location of popular restaurants on the US map. Besides, as for how much cost people spend on food, I also want to express through some visual methods, rather than using tables just like what I did in DEP to elaborate on this issue.

The intended target audience for communicating this key information will be uber eats users, who will have a new perspective on U.S. restaurant data by communicating key information about nearby restaurants, choosing restaurants more informative and mutually beneficial for both restaurants and customers, thus contributing to the economic growth of the restaurant industry and even the takeout industry. The integration of restaurant data also makes it easier for people to understand the overall information of the nation's gourmet restaurants and provides a more comprehensive picture for data analysts.

#### Sheet1





Focus



State select

Zip-code of each state

(represent different

region of US)

## **INFO**

Title: Pestamons near me - Uber Eaty Juthor: Yunshi Chen Date: 5/10/2022 Sheet Number: 2

# Operation

1. Pie chart: Has a select panel
to choose the choice of different
judgment of popular restaurances, in order
to output the proportion of difference
price type.

2. Dot map: Using gaplotly to have a interactive plat of distribution of restauronts in US

3. Flow chart: By choosing diffact

2ip—code (which represents variance region).
interactively showing the traveling flow
in different area of US.

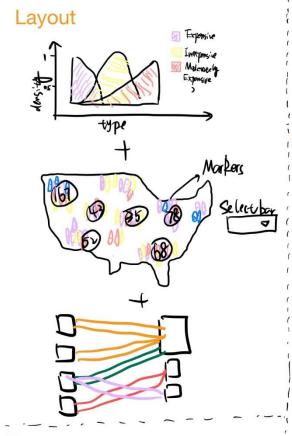
# **Discuss**



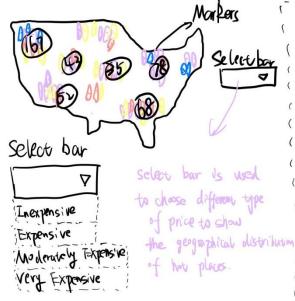
· Flow map can vividly expresses the trip routes that people in different states spoud on food

# - VE

- · Pie chart cont show information in detail, and people don't really undorstand the size of circles and angles.
- The information brought by dut map is intuitively flat and single, which is not enough to have visual impact.



### **Focus**



## **INFO**

Title: Pestamones near me - Uber Eaty Juthor: Yunshi Chen Date: 5/10/2022 Sheet Number: 3

# Operation

1. Desity plot: Has a select panel to choose the choice of different judgment of popular researchmes, in order to output the density of different price type.

2. Leaflet plot: Using leaflet function to display the count of this areas' remains, with marker to represent each place, by selecting various price type to set diverce map.

3. The overall trip diagram is obtained by populating the origin and descination in the sankey diagram.

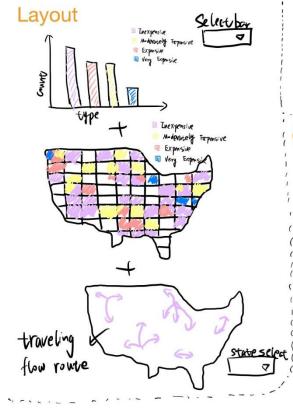
# **Discuss**

# TIE

Leaflet is a very useful visual took, which can display data information using moters and popular.

# - VE

Sankey map can only simply show where to start and end, not how hong the path is and whether the trip crosses state like.



## **Focus**



State select

Zip-code of each state
(represent different
region of US)

## **INFO**

Title: Pastawoms near me - Ubar Eats Author: Yunshi Chen Date: 5/10/2022 Sheet Number: 4

# Operation

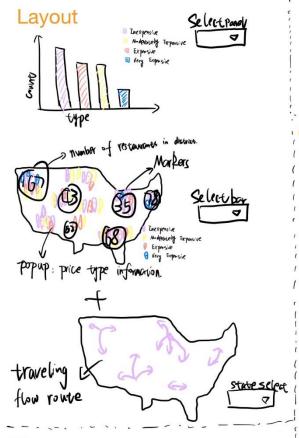
- 1. Bor chart: Itas a select panel to choose the choice of different judgment of popular restaurances, in order to output the count of different price type.
- 2. Heat map: By mapping the hot spots of restaurants with diverse price statescept levels, we can get a visualisation of the price type of popular restaurants and their geographical locations.
  - 3. Flow chart: By choosing different zip-code (which represents variance region). interactively showing the traveling flow in different area of US.

### **Discuss**

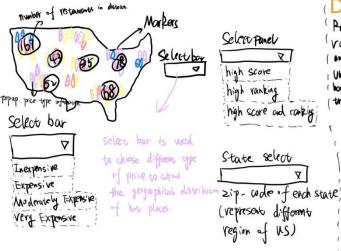
# TVE

- Flow map can vividly expresses the trip routes that people in different states spoud on food
- · Bar chart is clear and Straight-favord.
- · Heat map doesn't accurately show preate message and can't easily indontify specific values.

#### Sheet5



## Focus



### INFO

Title: Pastawoms near me - Ubar Eats Author: Yundhi Chen Date: 5/10/2022 Sheet Number: 5

## Operation

l. Bor chart: Itas a select parel
to choose the choice of different
judgment of popular restaurants, in order
to output the count of different
price type.

2. Leaflet plat: Using leaflet function
to display the count of this areas' remains
with marker to represent each place, by selecting
various price type to see diverce map with the
populas showing the price type infrinction.

3. Flow chart: By choosing different
2ip-code (which represents variance region).
interactively showing the traveling flow
in different area of US.

## Details Dataset

Pestowert clota NCS climension of 4028 Vous XII Columns, has the infimation of roug, prize, and geographic location.

Under clata has 1156 rous and 7 columns, which is based on Unrativers types and contains vortables such as trip startylend times, departure and arrival lacations.

## Dependencies R Shiny Fatimete

Before 20/10/2022:

Shing structure construction and graphs

completion

Before 27/10/2022:

User Interaction: select

30/10/2022: Overally design and report really