

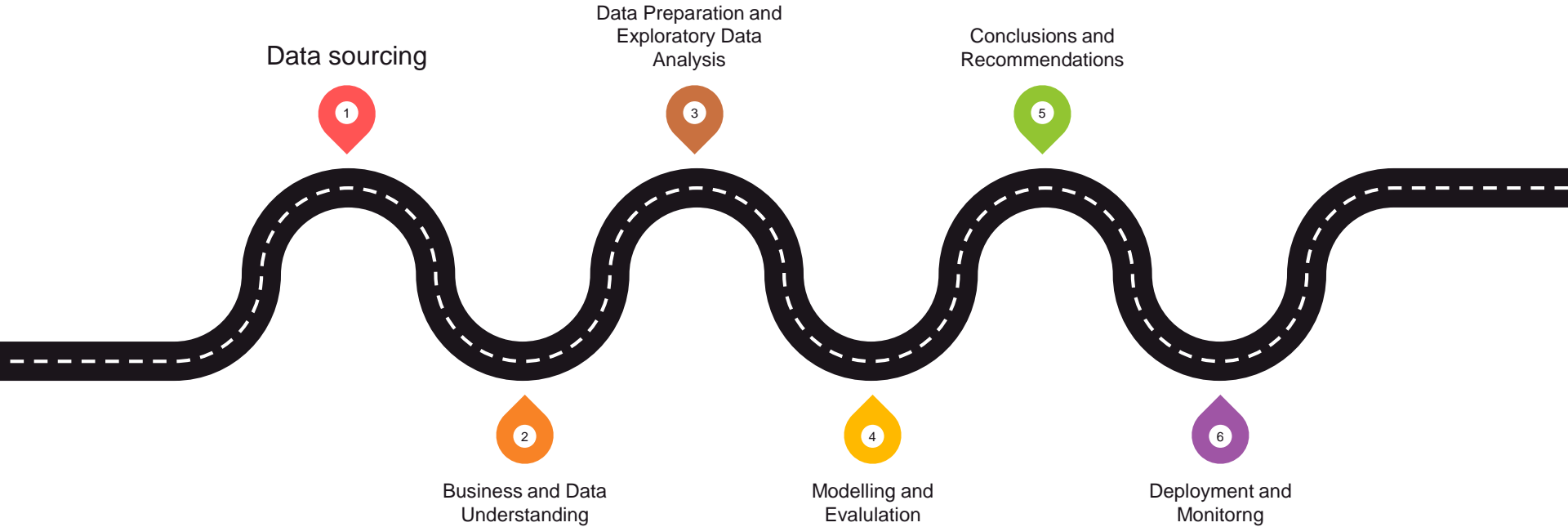


GOURMENT GUROS





Roadmap



BUSINESS UNDERSTANDING

- The U.S. dining industry is diverse, yet finding restaurants that match specific preferences can be challenging due to a lack of centralized recommendation platform
- Our solution offers tailored dining suggestions, enhancing the user experience and supporting local businesses.



PROBLEM STATEMENT

- Users struggle with generalized recommendations
- There is a lack of real-time, location-specific suggestions.

MAIN OBJECTIVE

- To develop an intelligent system providing personalized recommendations based on user preferences and location



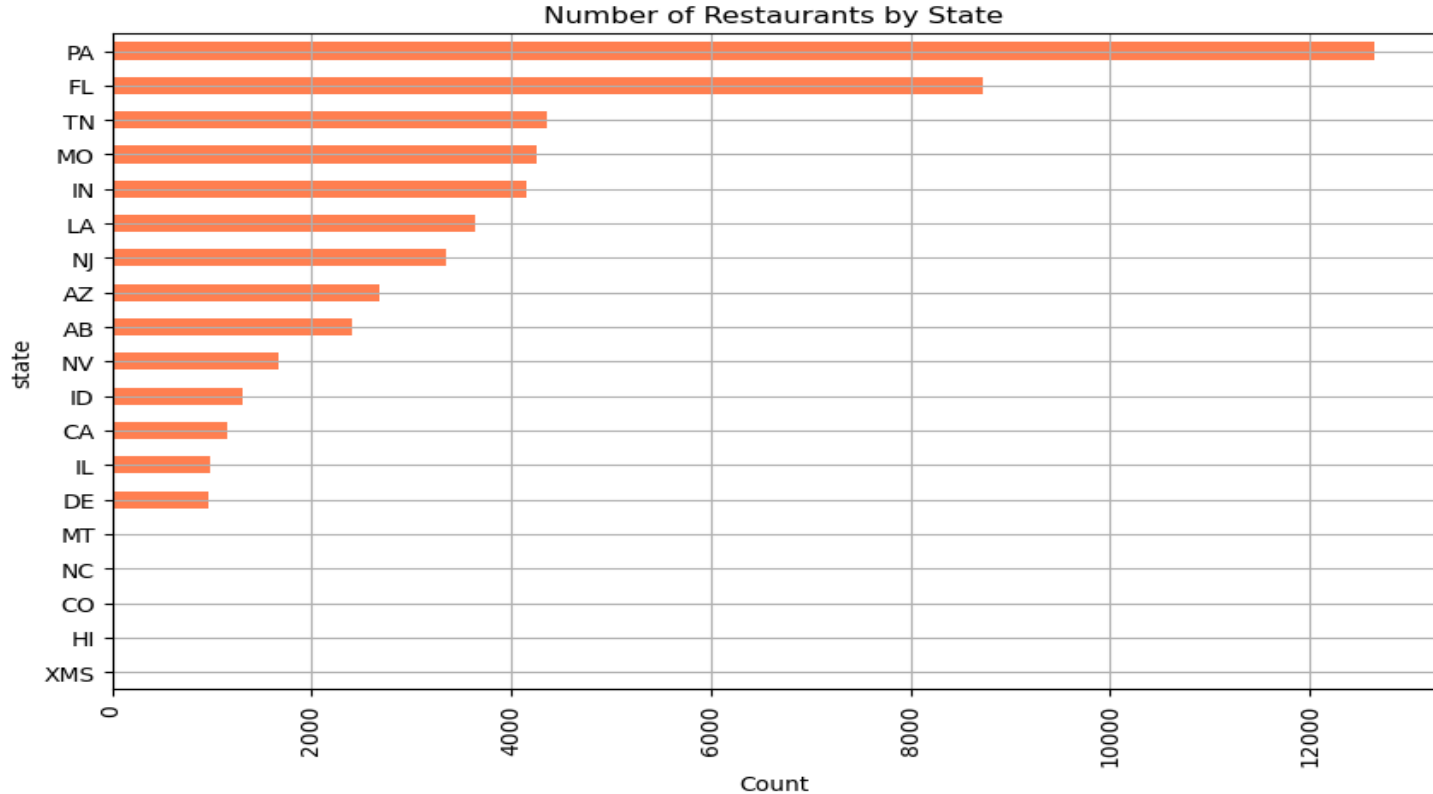


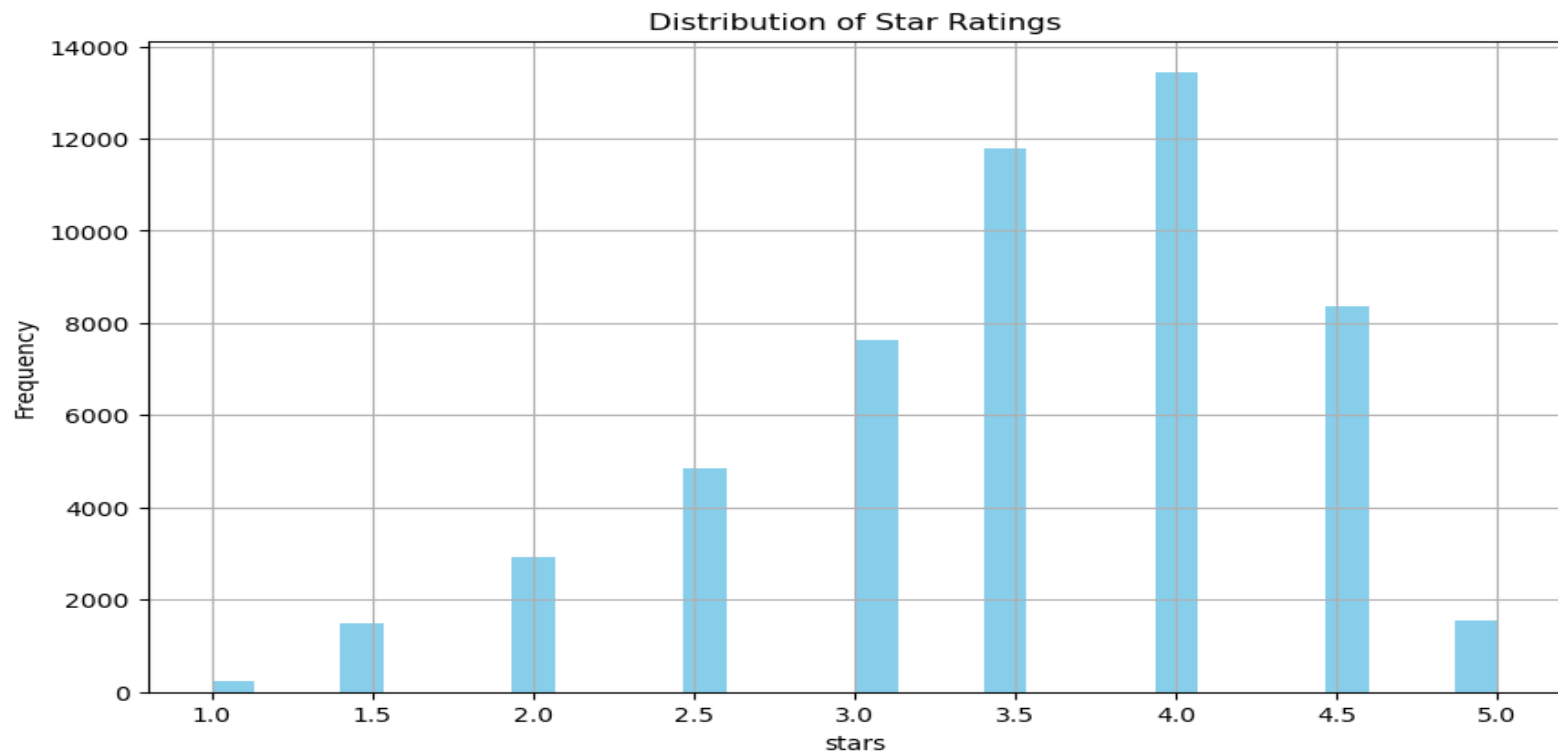
DATA UNDERSTANDING

- **Data Source:** Yelp database for business and user review data.
 - I. **Restaurant Data:** 52,286 restaurants, 14 columns.
 - II. **Review Data:** 2.55M reviews, 4 columns.

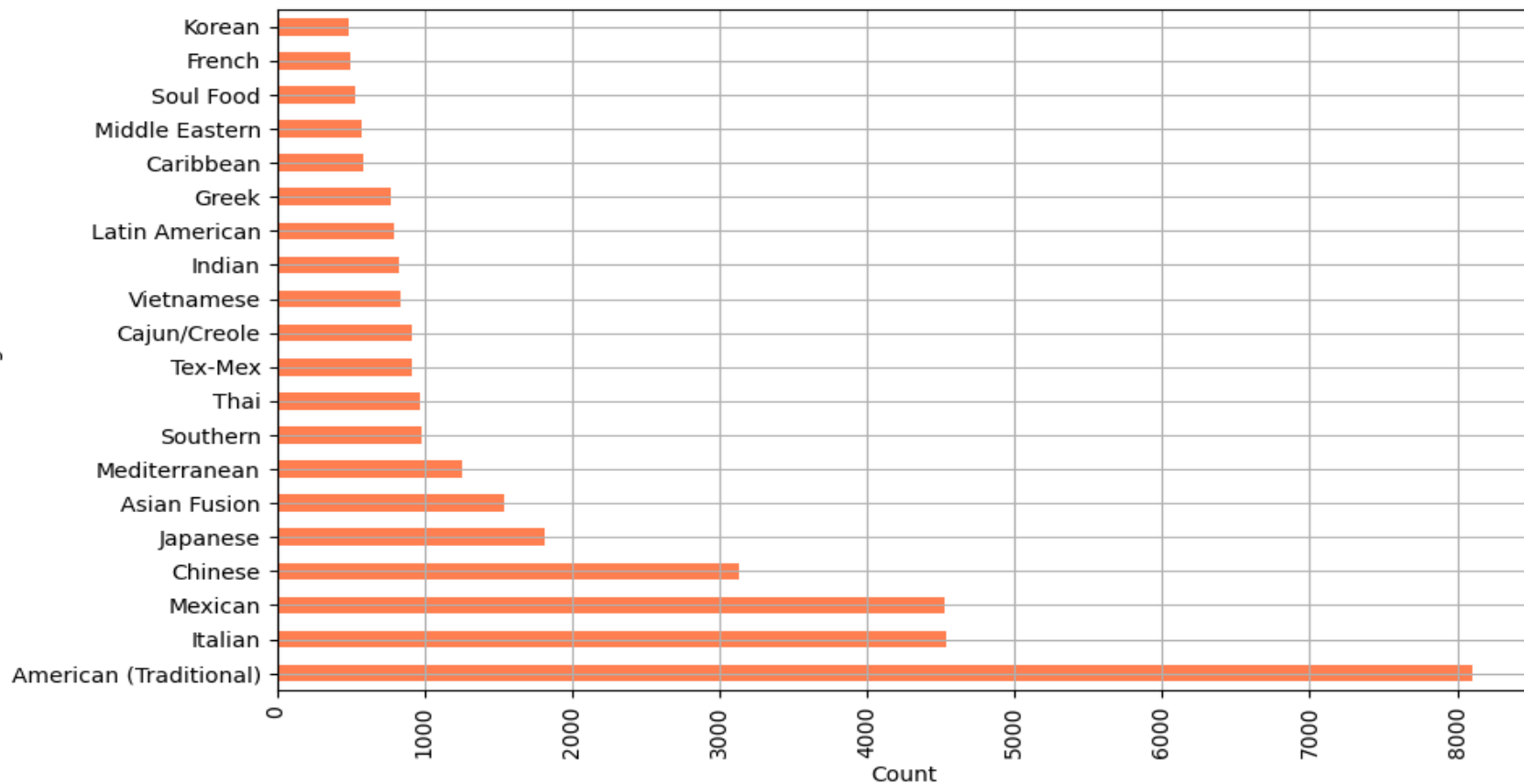


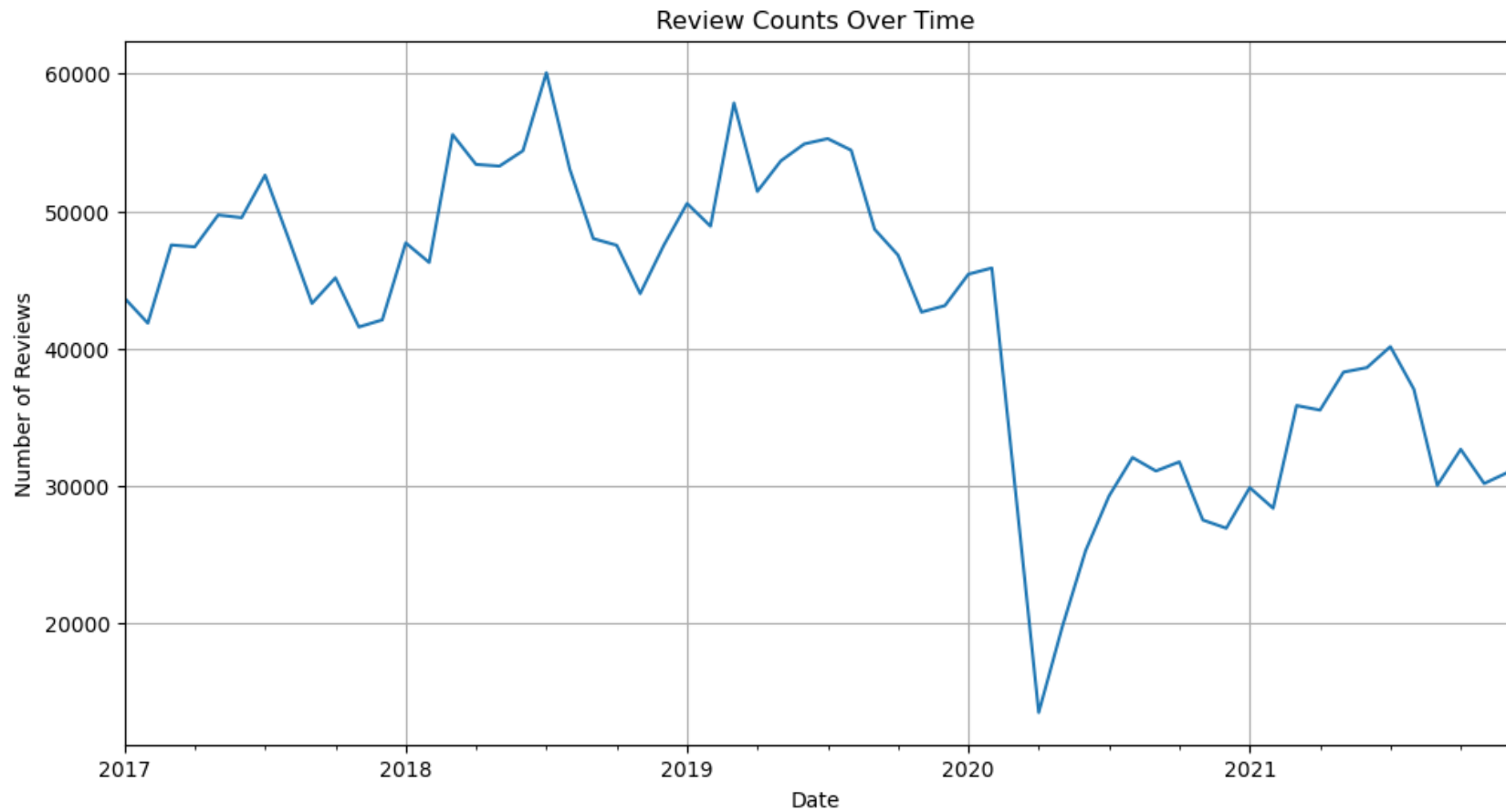
OBSERVATIONS AND FINDINGS





Number of Cuisine Counts





MODELING APPROACH

Content-Based Filtering

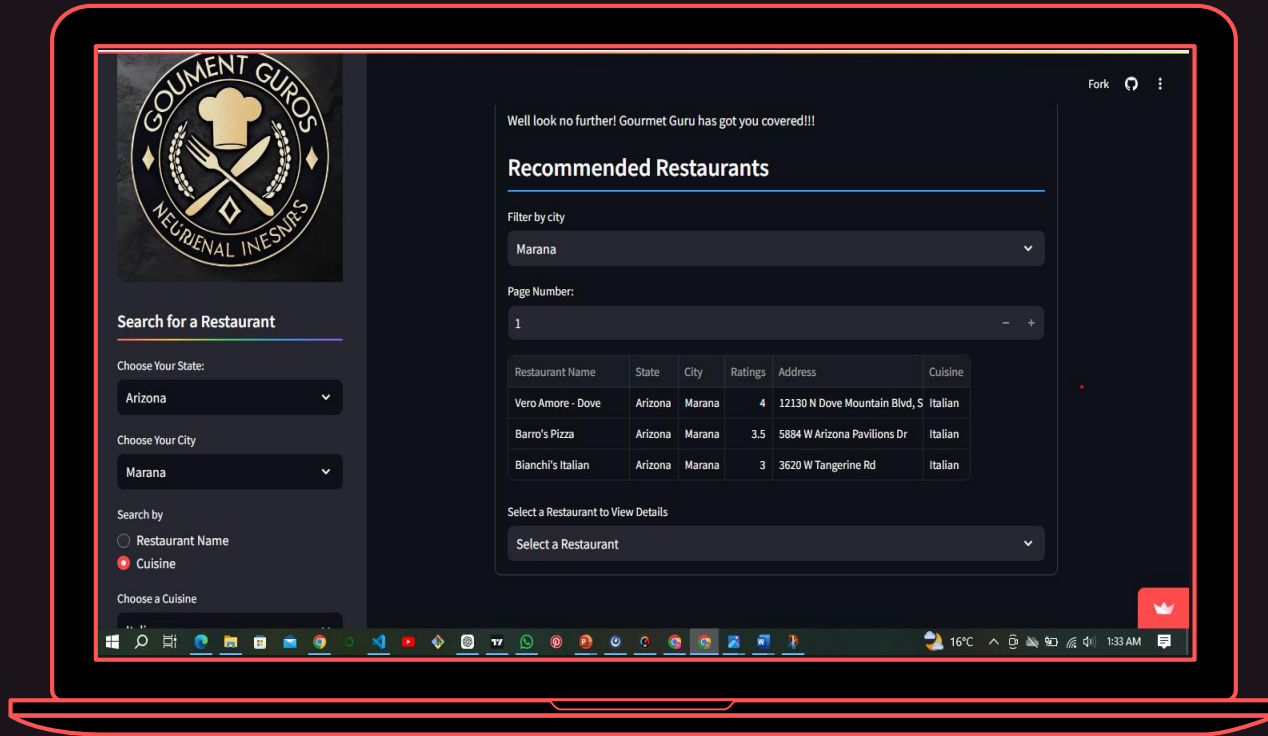
- Utilizes restaurant features and attributes.
- Implements cosine similarity and TfidfVectorization.

Collaborative Filtering

- Uses user ratings with Surprise library.
- Models: NormalPredictor, NMF, SVD, and tuned SVD.



WEB APPLICATION





RECOMMENDATIONS

- Prioritize Major Markets.
- Tailor Recommendations to Market Size
- Cuisine diversification.

FUTURE WORKS

- Expand coverage to more regions.
- Enhance user personalization features.
- Variability of Cuisine choices



Hmm

yummy!!

