

# The transnational migration of ingredients

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Notebook

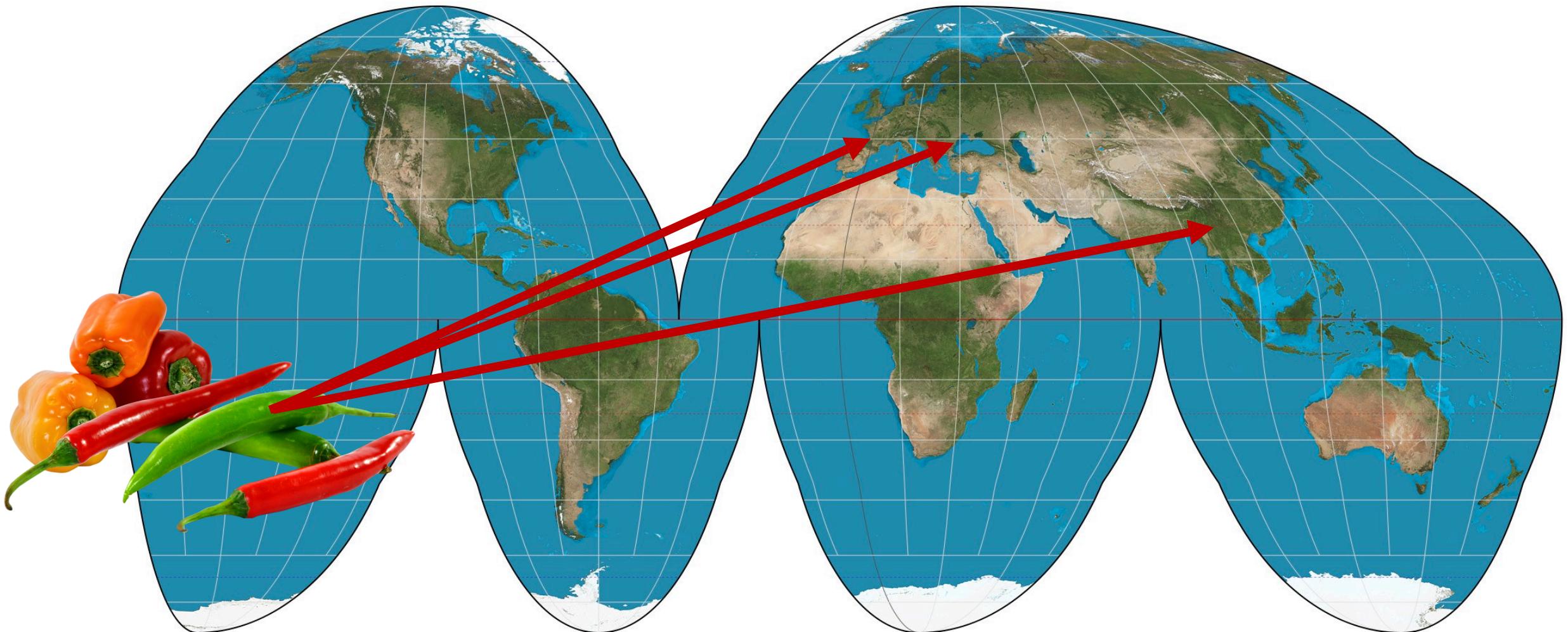
The Data Incubator Application

# Ingredients that travel





Where's the pepper?





# Data Source

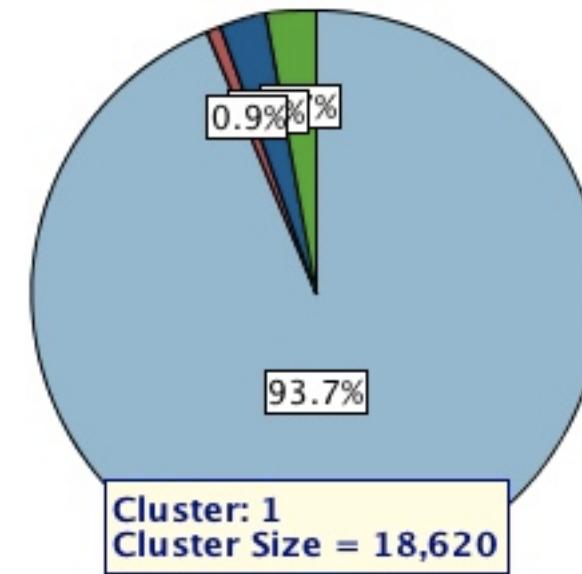
- Kaggle.com
- Hugo Darwood's Epicurious - Recipes with Rating and Nutrition
  - Over 20k recipes 55.3MB in CSV,
  - Metacolumns include garlic, red pepper, chili pepper, green pepper
- Next Steps
  - Expand ethnicity classification
  - Create variables for commonly used ingredients, such as the onion family
  - Rerun regressions
  - Rerun cluster analysis
  - Map clusters



# Clusters

This preliminary examination begins to cluster the data into two groups. Expanding the ethnicity list & the pepperiness scale and including other variables, such as the onion family, will create more clusters.

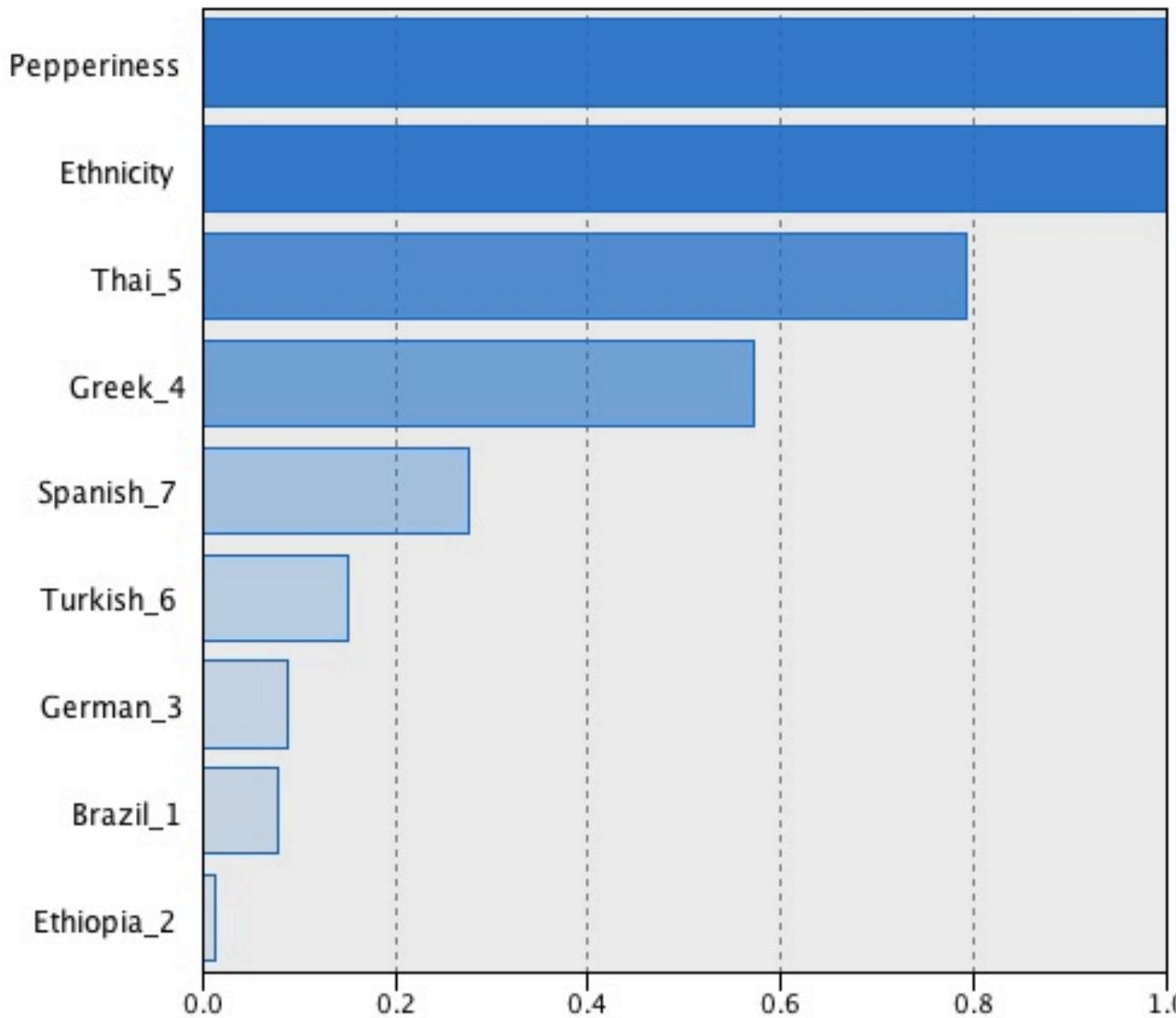
Cluster Sizes



Size of Smallest Cluster	178 (0.9%)
Size of Largest Cluster	18620 (93.7%)
Ratio of Sizes: Largest Cluster to Smallest Cluster	104.61

## Predictor Importance

Pepperiness and ethnicity have substantial influence over the model.





This preliminary examination suggests that pepperiness predicts the ethnicity of the food.

# Regression Plots

Normal P-P Plot of Regression Standardized Residual

