

## 40 Writes the Prompt for the Ridgeline Visual

key	lat	SortOrder
Coffee	47.65683325	1
Coffee	47.6620911	1
Coffee	47.66987228	1
Coffee	47.66466508	1
Coffee	47.66178131	1
Coffee	47.657406	1
Coffee	47.6587736	1
Coffee	47.66381741	1
Coffee	47.6597958	1
Coffee	47.66148	1
Coffee	47.661484	1
Coffee	47.66325	1
Coffee	47.65856199	1
Coffee	47.66407356	1
Coffee	47.65998	1
Coffee	47.6633732	1
Coffee	47.66105652	1
Coffee	47.66114	1
Coffee	47.66003	1
Coffee	47.6628435	1
Coffee	47.65538022	1
Coffee	47.66279	1
Coffee	47.661621	1
Coffee	47.65466709	1
Coffee	47.65818	1
Coffee	47.65957721	1
Coffee	47.6533553	1
Coffee	47.65851	1
Coffee	47.65637603	1
Pubs, Lounges	47.66479	2
Pubs, Lounges	47.6680599	2
Pubs, Lounges	47.65784	2
Pubs, Lounges	47.65735	2
Pubs, Lounges	47.66144279	2
Pubs, Lounges	47.66143739	2
Pubs, Lounges	47.658947	2
Pubs, Lounges	47.66171	2
Pubs, Lounges	47.667652	2
Pubs, Lounges	47.66178131	2
Pubs, Lounges	47.65553	2
Pubs, Lounges	47.66081238	2
Bubble Tea, Juice	47.66325	3
Bubble Tea, Juice	47.66105	3
Bubble Tea, Juice	47.661621	3
Bubble Tea, Juice	47.66325	3
Bubble Tea, Juice	47.65687482	3

Bubble Tea, Juice 47.65714 3  
Bubble Tea, Juice 47.6608 3  
Bubble Tea, Juice 47.6628435 3  
Bubble Tea, Juice 47.66381741 3  
Bubble Tea, Juice 47.664773 3  
Bubble Tea, Juice 47.661484 3  
Bubble Tea, Juice 47.66407356 3  
Vietnamese 47.65878 4  
Vietnamese 47.6584999 4  
Vietnamese 47.65547 4  
Vietnamese 47.6577 4  
Vietnamese 47.65919 4  
Vietnamese 47.65813446 4  
Vietnamese 47.65822 4  
Vietnamese 47.65942228 4  
Thai 47.65813446 5  
Thai 47.6587699 5  
Thai 47.65928 5  
Thai 47.6642113 5  
Thai 47.65547 5  
Thai 47.662455 5  
Thai 47.6675671 5  
Thai 47.66679 5  
Thai 47.65880205 5  
Chinese 47.66144 6  
Chinese 47.6643 6  
Chinese 47.65718842 6  
Chinese 47.66174 6  
Chinese 47.6594399 6  
Chinese 47.662628 6  
Chinese 47.65688562 6  
Chinese 47.66105 6  
Chinese 47.65714 6  
Chinese 47.66236 6  
Chinese 47.66389 6  
Chinese 47.65813446 6  
Chinese 47.66815 6  
Chinese 47.66510105 6  
Japanese 47.66671 7  
Japanese 47.664349 7  
Japanese 47.65809706 7  
Japanese 47.6617467 7  
Japanese 47.65999898 7  
Japanese 47.657078 7  
Japanese 47.65964 7  
Japanese 47.66676083 7  
Japanese 47.65799 7  
Japanese 47.66359 7  
Japanese 47.6577399 7  
Japanese 47.65718842 7  
Japanese 47.65902 7  
Japanese 47.66105652 7  
Korean 47.667652 8  
Korean 47.6577399 8

Korean 47.65714 8  
Korean 47.664349 8  
Korean 47.65847 8  
Korean 47.66208 8  
Korean 47.65718842 8  
Korean 47.6577399 8  
Korean 47.66671 8  
Korean 47.658201 8  
Middle Eastern 47.6587699 9  
Middle Eastern 47.6623521 9  
Middle Eastern 47.6590045 9  
Middle Eastern 47.65805 9  
Middle Eastern 47.66093 9  
Middle Eastern 47.66244 9  
Middle Eastern 47.66295 9  
Middle Eastern 47.65867 9  
Middle Eastern 47.66796542 9  
Middle Eastern 47.6691895 9  
Middle Eastern 47.66473974 9  
Middle Eastern 47.65991 9  
Indian, Pakistani 47.669083 10  
Indian, Pakistani 47.66473974 10  
Indian, Pakistani 47.65898 10  
Indian, Pakistani 47.6641 10  
Indian, Pakistani 47.6587699 10  
Indian, Pakistani 47.6623521 10  
Pizza 47.6686016 11  
Pizza 47.6558651 11  
Pizza 47.658947 11  
Pizza 47.667652 11  
Pizza 47.66729 11  
Pizza 47.65847 11  
Pizza 47.662201 11  
Pizza 47.65784 11  
Pizza 47.66671 11  
Burgers 47.65588908 12  
Burgers 47.659244 12  
Burgers 47.6582099 12  
Burgers 47.66171 12  
Burgers 47.66143739 12  
Burgers 47.6616201 12  
Burgers 47.66464 12  
Burgers 47.6616432 12  
Burgers 47.66476 12  
American 47.6680599 13  
American 47.657772 13  
American 47.6616432 13  
American 47.65651 13  
American 47.6616201 13  
American 47.66081238 13  
Breakfast, Brunch 47.6565299 14  
Breakfast, Brunch 47.65851 14  
Breakfast, Brunch 47.65651 14  
Breakfast, Brunch 47.66295 14

Breakfast, Brunch 47.657772 14  
Breakfast, Brunch 47.6597958 14  
Breakfast, Brunch 47.66466508 14  
Breakfast, Brunch 47.6595172 14  
Bakeries 47.66178131 15  
Bakeries 47.65998 15  
Bakeries 47.6633732 15  
Bakeries 47.6582099 15  
Bakeries 47.66105 15  
Bakeries 47.66887 15  
Seafood 47.66015 16  
Seafood 47.66464 16  
Seafood 47.6616432 16  
Hawaiian 47.66359 17  
Hawaiian 47.664349 17  
Hawaiian 47.6627388 17  
Vegetarian, Vegan 47.6675671 18  
Vegetarian, Vegan 47.664773 18  
Vegetarian, Vegan 47.6686016 18  
Vegetarian, Vegan 47.66838 18  
Mexican, Latin American 47.65714 19  
Mexican, Latin American 47.6659099 19  
Mexican, Latin American 47.65923 19  
Mexican, Latin American 47.65161 19  
Mexican, Latin American 47.6643199 19  
Mexican, Latin American 47.6595391 19  
Mexican, Latin American 47.66146732 19  
Mexican, Latin American 47.66475922 19

Develop a comprehensive text prompt to direct an AI to develop the R code to reproduce this Ridgeline chart in a Power BI R visual.

To create an AI prompt to generate R code for reproducing the ridgeline chart in Power BI using an R visual, here is how you would structure the request. I'll include key details based on the elements of the chart you've shown, the dataset, and the visual layout you want to replicate.

#### Prompt for R Code Generation:

Create an R script for Power BI's R visual to reproduce a ridgeline density plot. The ridgeline plot should represent various food categories along different street sections, as seen in the original chart. The input dataset includes three columns: *key* (food categories), *lat* (latitude coordinates of street segments), and *SortOrder* (ordering of the categories on the Y-axis). Ensure the visual clearly distinguishes the different categories using different colors and provide smoothed density curves across each category.

Here are the details:

- The X-axis should represent the street segments, mapped by latitude (*lat*).
- The Y-axis should represent the different food categories (provided by *key*).
- Sort the Y-axis according to the *SortOrder* column.
- Use different colors for each category to distinguish them.
- Add a title to the plot: "A Mile-Long Global Food Market: Mapping Cuisine from 'The Ave'".
- Set individual density ridges for each food category using a smooth kernel density estimate.

- Ensure that overlapping is visualized in a way that density peaks are visible for each category.
- Assign a fixed scale for the X-axis and group the curves by food categories to maintain the overall layout seen in the provided image.
- Avoid background grids and include minimal axis lines to keep the focus on the density curves.

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Once the AI processes the request, the output R code should be prepared to generate the ridgeline plot using appropriate libraries like `ggribes`, which are essential for creating this type of visualization. Additionally, you can control the exact layout by adjusting scales and plot themes.

Would you like me to generate the R code based on this prompt?