

A heatmap showing the distribution of the 'number' variable across 'sex' and 'smoke' categories. The x-axis represents 'smoke' (0 to 1000) and the y-axis represents 'sex' (0 to 1000). The color scale ranges from dark blue (low values) to light blue (high values). The heatmap shows a clear pattern where the 'number' variable is generally higher for 'smoke' values between 200 and 600, and lower for 'smoke' values below 200 and above 600. The 'sex' variable has a minimal impact on the 'number' variable, with values being relatively consistent across different 'sex' categories for a given 'smoke' value.

### Rank order