

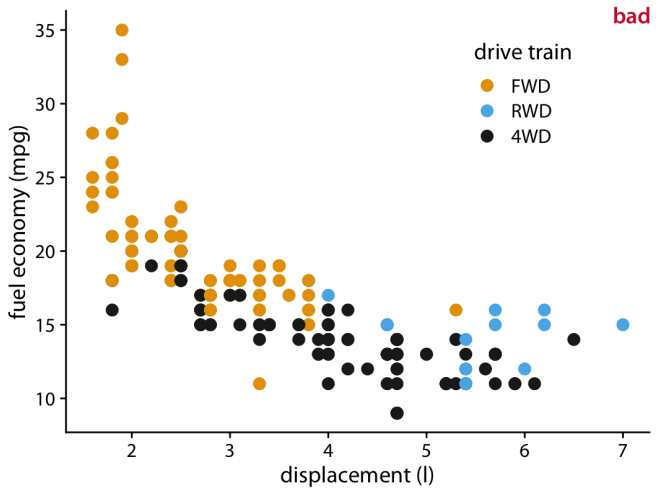
Chapter 18

Handling overlapping points

Fundamentals of Data Visualization

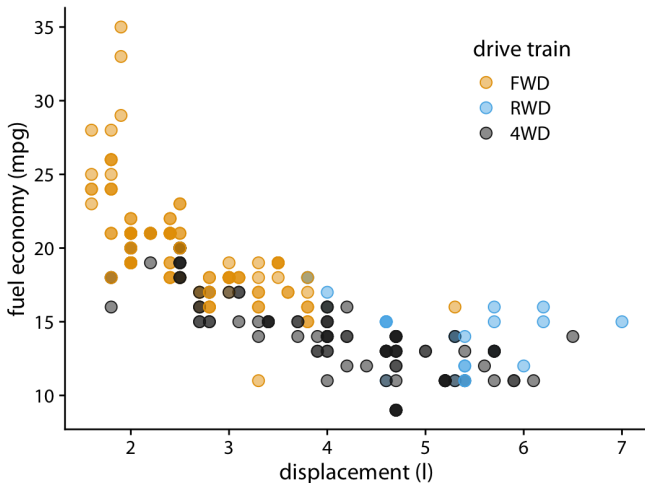
May 6, 2023

Handling overlapping points



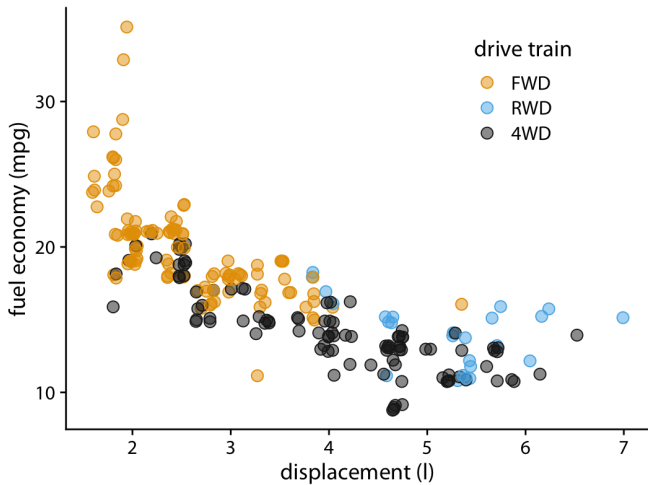
- There are two four-wheel drive cars with 2.0 liter engines.
- Where are they?

Partial transparency

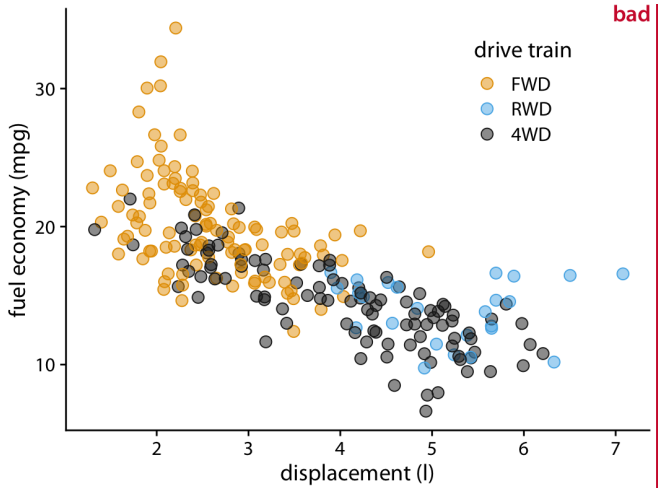


- Hard to estimate:
 - how many points plotted on top of each other,
 - and what colors.

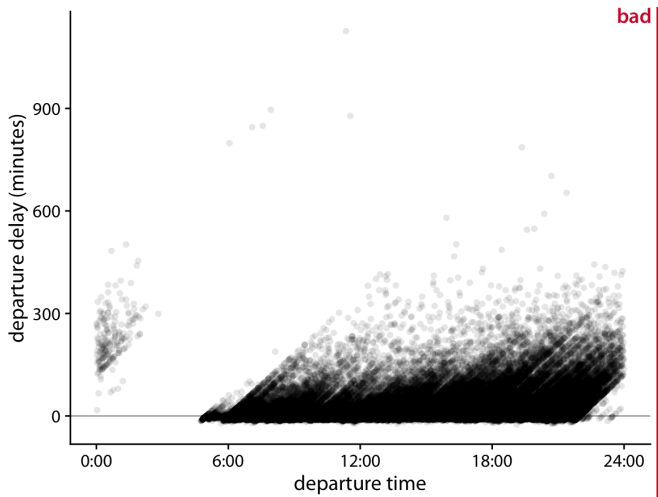
Jittering and partial transparency



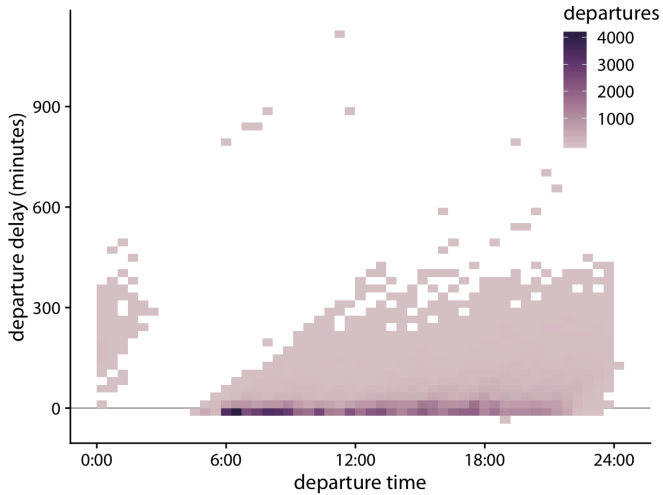
Overdone jittering



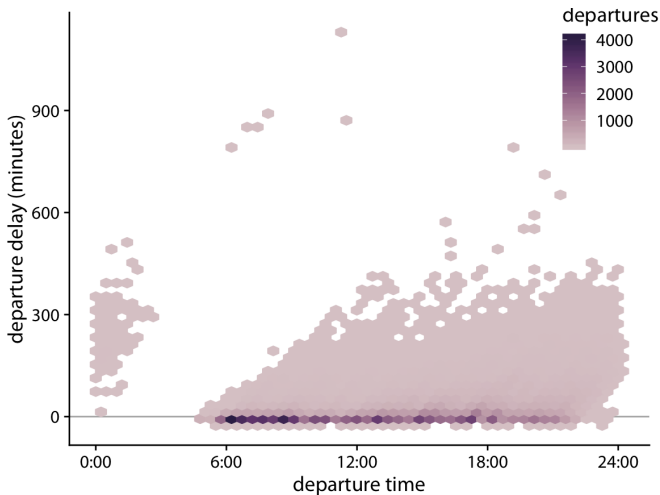
Jittering and transparency less useful with many points



Two dimensional histogram

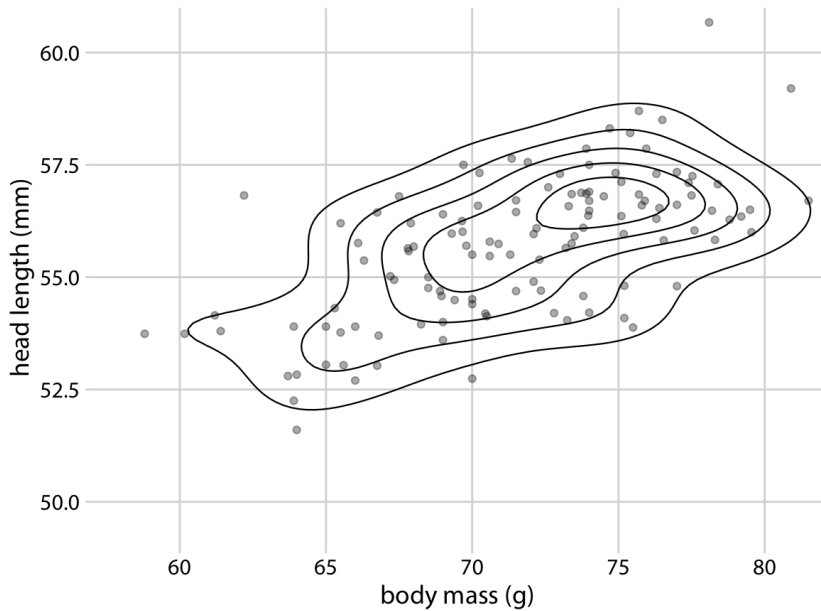


Two dimensional hexagonal histogram

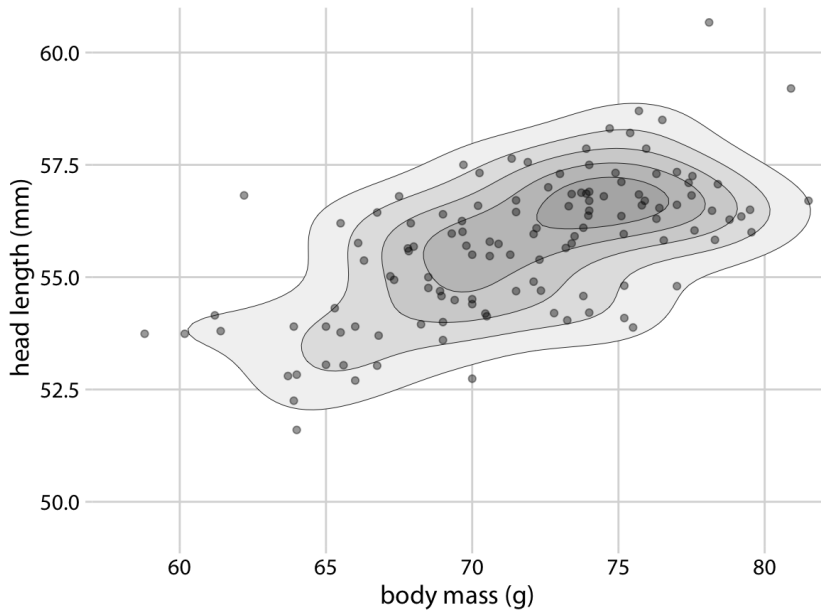


- Points are closer to the centers of hexagons.

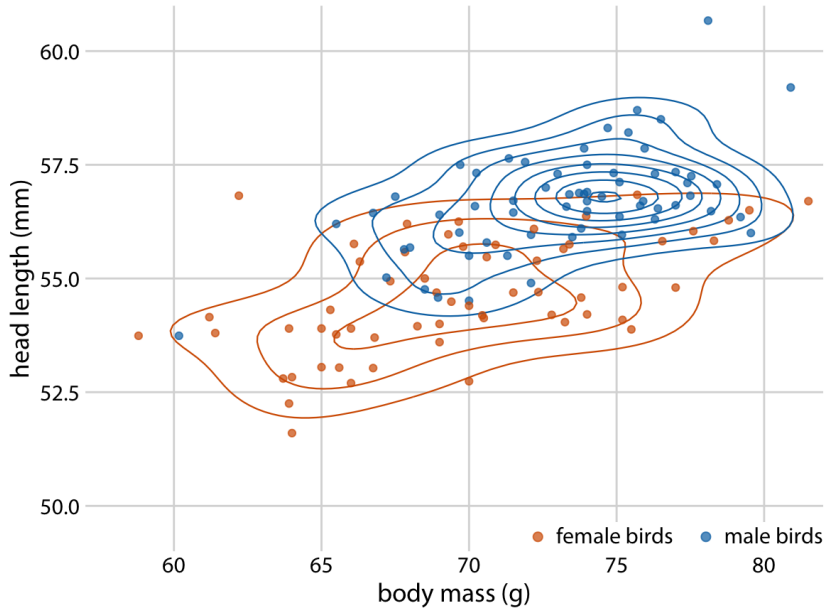
Contour lines



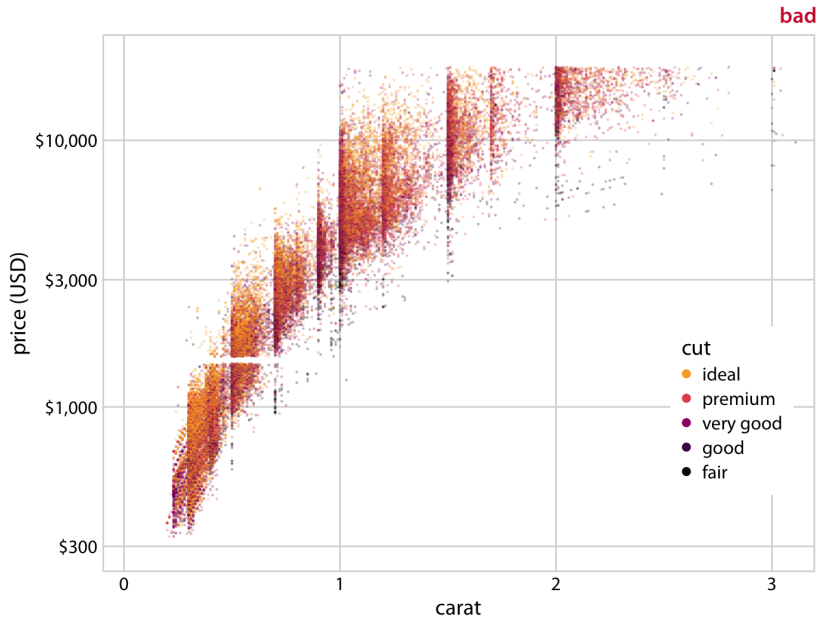
Contour lines



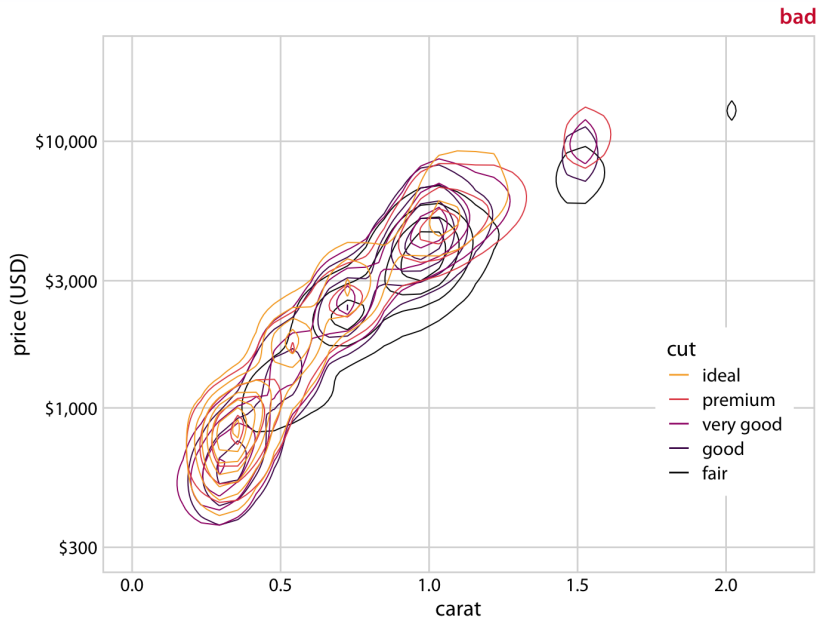
Contour lines



Contour lines



Contour lines



Contour lines

