

PCA plot showing the relationship between car models (labeled) and variables (labeled on arrows). The plot is divided into three clusters by ellipses: red, black, and blue.

- Red Cluster (Left):** Includes cars like Honda Civic, Toyota Corolla, Fiat X1-9, Datsun 710, and Toyota Corona. This cluster is associated with high *mpg* and *gear*.
- Black Cluster (Top):** Includes cars like Porsche 914-2, Lotus Europa, Mazda RX4, Mazda RX4 Wag, Merc 280, and Merc 280C. This cluster is associated with high *carb* and *gear*.
- Blue Cluster (Right):** Includes cars like Camaro Z28, Duster 360, Chrysler Imperial, Lincoln Continental, Dodge Challenger, and Valiant. This cluster is associated with high *carb*, *disp*, *wt*, and *hwy*.

- a— Europe
- a— Japan
- a— US