When visualizing a categorical explanatory variable, we can utilize 2D plots instead. This is useful because it enables us to understand why the regression surfaces are seperate and gives us an expectation for what the regression surfaces will look like. Furthermore, 2D plot are by far, much easier to interpret.

Select a dataset

Iris

○ Simple Regression
○ Categorical Predictor
○ Interaction

Shiny app by Irvin Alcaraz
Base R code by Irvin Alcaraz
Shiny source files: GitHub Gist
Cal Poly Statistics Dept Shiny Series

Plot   Model Info

Petal Area on Length

● setosa
● versicolor
● virginica

Petal Area

Sepal Length