

# STT3851 Homework 1

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Due – January 21

**Note:** Submit a printed pdf or an html file. ggplots must be used for all graphics. Graphics created using base commands will not receive credits.

1. What are the main two statistical learning types?
2. State two examples where you can use the two types you mentioned in question 1). Explain **why** for each example.
3. Supervised Learning has been broadly classified into 2 types. What are they?
4. State three examples where you can use **regression**, **classification** and **clustering**. Explain **why** for each example.
5. Use the **Auto** data set found in the **ISLR** library to create the scatter plot shown here for **weight** versus **mpg** for each **origin**.

