Titanic

The 'unsinkable' luxury cruise liner Titanic famously sank on its first voyage. We have data on the Titanic's passengers; and based on available features, your task is to predict if they survived the accident. In the file *titanic_train.csv*, you have available data to train your classifiers, and you should use the data available in *titanic_test.csv* to verify your classifiers' accuracy and pick the best model to be used for prediction.

The available variables are:

- **Class**: ticket class (1 = 1st, 2 = 2nd, 3 = 3rd)
- **Gender**: male or female
- **SibSp**: number of siblings + spouses of the individual who are aboard the Titanic
- **Parch**: number of parents + children of the individual who are aboard the Titanic
- **Fare**: Passenger fare
- **Embarked**: Port of Embarkation C = Cherbourg, Q = Queenstown, S = Southampton

The response variable to be predicted:

- **Survived**: survived (1) or dead (0)

Data from Frank Harrell, Department of Biostatistics, Vanderbilt University,
http://biostat.mc.vanderbilt.edu/wiki/Main/DataSets