## Exercise 1:

Make yourself familiar with the [Titanic kaggle challenge](https://www.kaggle.com/c/titanic).

Based on everything you learned in the last few days, make your own submission to kaggle for the Titanic survival challenge.

- a) Try out different classification models you learned during the course (or maybe even something new?)
- b) Improve the prediction by creating new features (feature engineering)
- c) Tune your parameters using random search (see: https://mlr.mlr-org.com/articles/tutorial/tune.html)
- d) How big are the differences between your own performance estimate and the estimate of the public leader-board?

Hint: Use the titanic package to get directly access to the data. Use titanic::titanic\_train for training and titanic::titanic\_test for your final prediction.