

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, do your best to in 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 (see: <https://mlr3book.mlr-org.com/tuning.html>)
- d) How big are the differences between your own performance estimate and the estimate of the public leaderboard?

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.