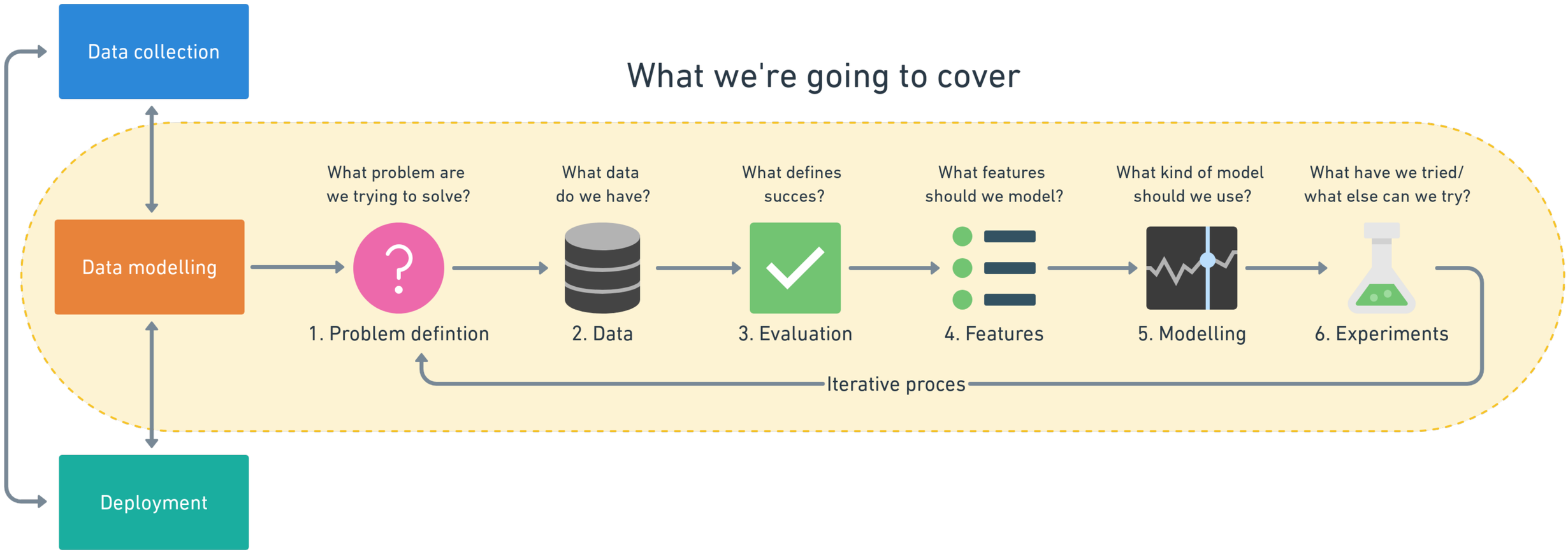
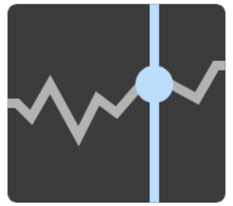
Steps in a full machine learning project



5. Modelling Part 1 — 3 sets



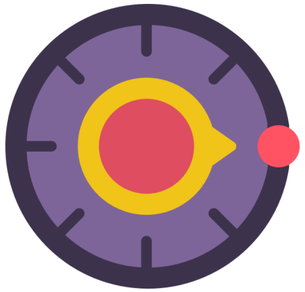
“Based on our problem and data, what model should we use?”

3 parts to modelling

1. Choosing and training a model

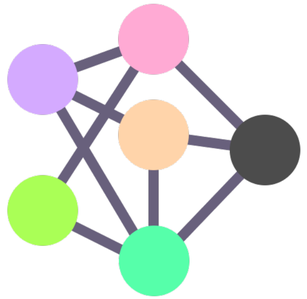
or

2. Tuning a model



3. Model comparison

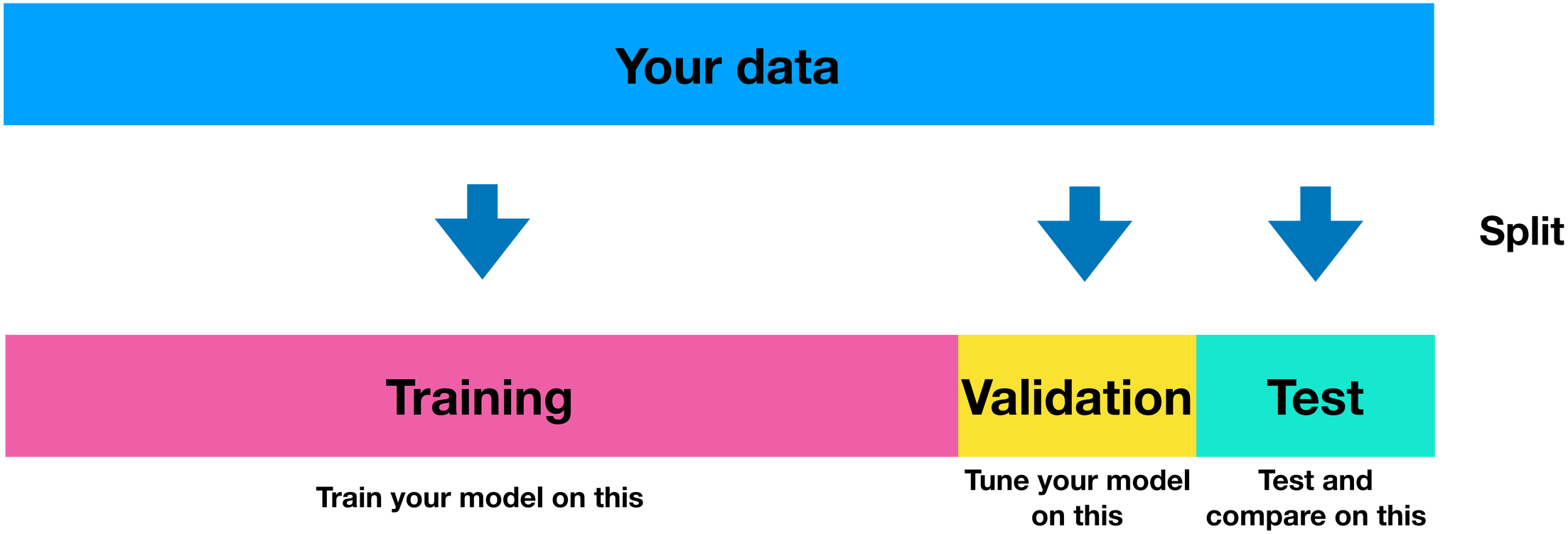
vs.



vs.

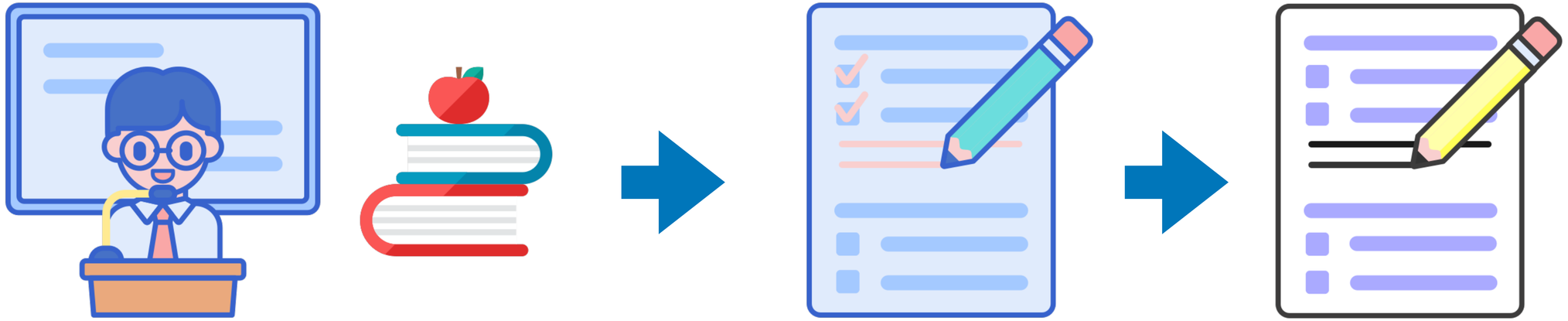
The most important concept in machine learning

(the training, validation and test sets or 3 sets)



The most important concept in machine learning

(the 3 sets)



Course materials (training set)

Practice exam (validation set)

Final exam (test set)

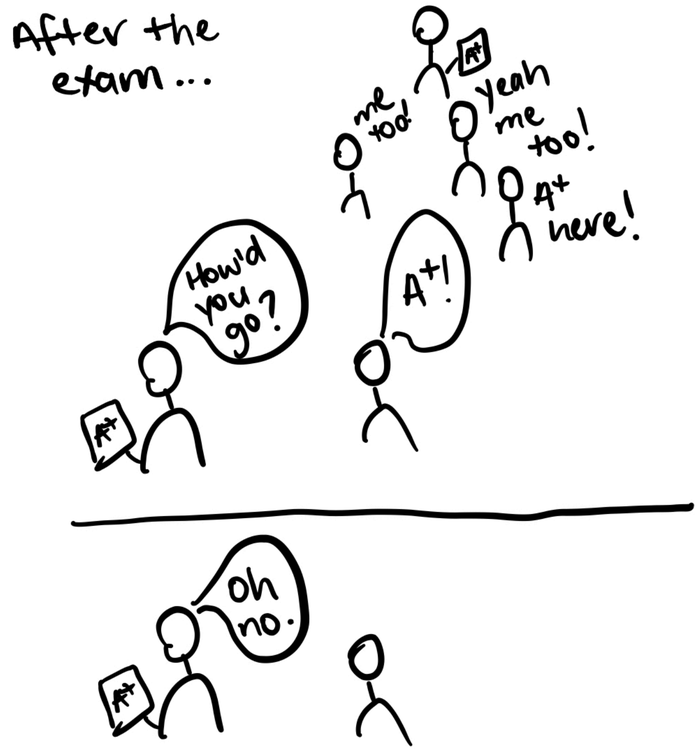
Generalization

The ability for a machine learning model to perform well on data it hasn't seen before.

When things go wrong

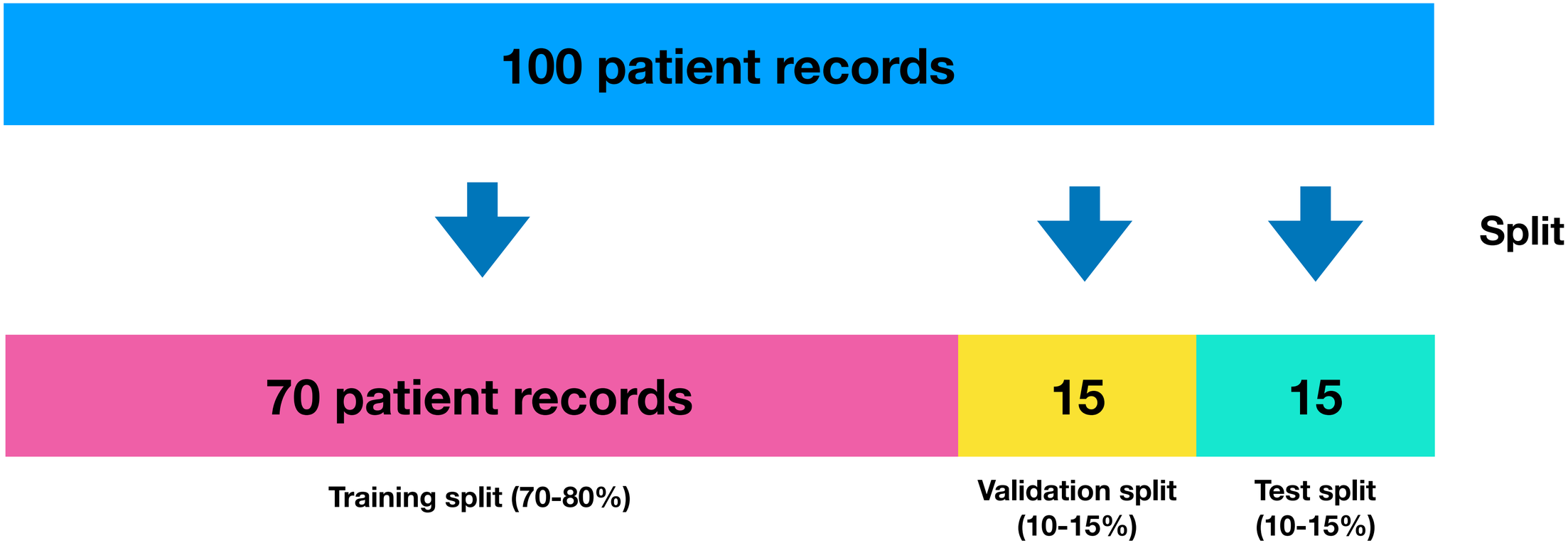
Practice exam
(same as final exam set)

Final exam
(already seen it)



The most important concept in machine learning

(the 3 sets)



What was the last thing you testing your ability on?