

## STRINGS, LISTS, VECTORS

### POETRY OF PROGRAMMING – CLOJURE ASSIGNMENTS

- (1) Given a string "We have 1 apple, 2 bananas and 3 mangoes.", produce another string where the numbers are replaced with their English names.
- (2) Given a list '(2 3 4)', produce another one that contains 1 at the front and 5 at the tail.
- (3) What does the composite function (comp last list) do? Explain and demonstrate with a couple of examples.
- (4) How many elements does the vector [[1 [2 3 4]] [5] [[]]] have? Why? What are the *n*th elements? How can you get 4 out of this vector?

**Bonus:** go to <https://david-peter.de/cube-composer/> and check what is the level you can reach. It is a game, but you will see later in the course that the game's underlying concepts are the key principles of functional collection processing.