

Exercises

Exercise 1

This is an example that you can (and should) try with your pocket calculator and paper and pencil, to fully understand how does the update of association weights happen.

The example is presented in pdf-file `Handmade_Tomatoes.pdf`.

Exercise 2

This is the same example like the one above, but this time you will be using **Python** to observe the same process of learning the weights.

To see the code, you can open the HTML-file `Python_Tomatoes.html`.

And to run the code in **Jupyter** (or **JupyterLab**), open jupyter notebook

`Python_Tomatoes.ipynb`.

Exercise 3

The final example is linguistically more meaningful, and it uses verbs *start* and *begin* to test whether the machine (or human) can learn when to use them from exposure to examples.

This time, however, you need to do a bit more:

- the code to help you start is in jupyter notebook `Verb_Semantics.ipynb`
- then you need to use the code from the Exercise 2 (`Python_Tomatoes.ipynb`) and copy and adjust whatever you think you would need to make the training