

1. **Warm up:** Answer the following questions.
 - (a) In your own words, what is a *histogram*?
 - (b) In what situations can a *scatter plot* be turned into a *line plot*?
 - (c) True / False: The space of all colors a human eye can detect is 1-dimensional.

2. **Daily Python:** Open up Python and load the packages `numpy` and `matplotlib`.
 - (a) Toss a six-sided dice 100 times using the `random.randint` function from `numpy`.
 - (b) Plot the numbers tossed as a histogram in `matplotlib`. Is there a pattern?
 - (c) **Bonus:** Repeat the results with two dice: one 6-sided, one 20-sided, and toss them 1000 times. Plot the sum of the numbers of each toss.

3. **Main task:** This task is about scraping and comparing data.
 - (a) Choose a category (and subcategory) in `ss.lv`. Make sure there are at least two columns that can be interpreted as numbers (that is, on a scale).
 - (b) Access the page through Python using the `requests` and `BeautifulSoup` packages.
 - (c) Plot the results as a scatter plot, indicating the axes.
 - (d) Plot the results as a *heatmap*.
 - (e) Use three different colormaps for the heatmap. Which is best?

Submit the result on ORTUS.