Typst requires a little effort

Table of contents

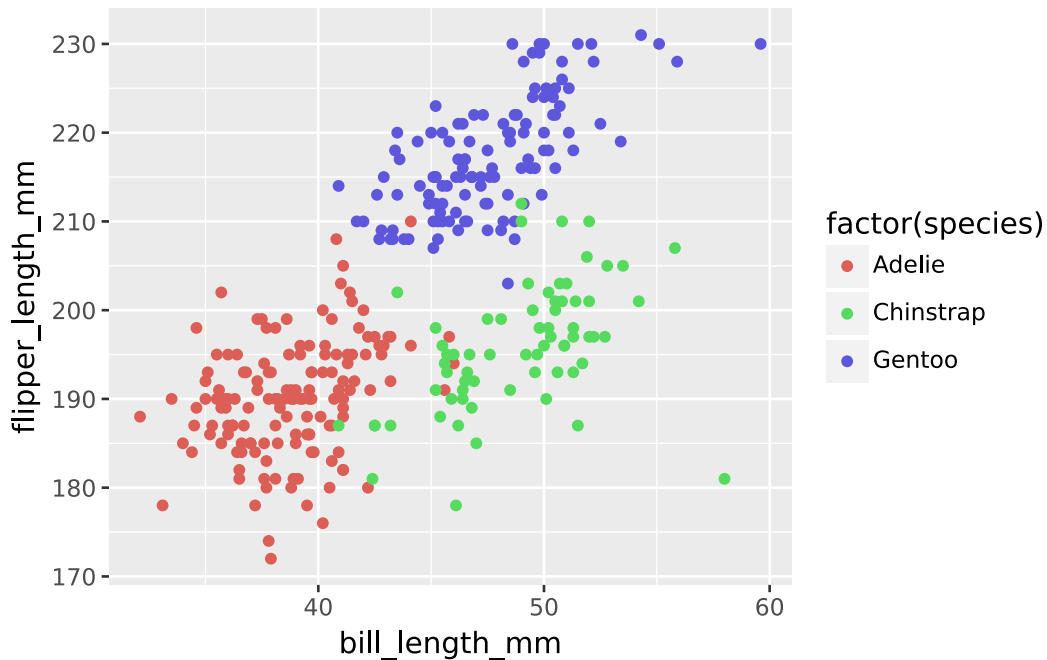## 1 K Means Clustering in Python

The scikit-learn library [1] contains an implementation of the k-means clustering method.

One of the important equations in k-means clustering is shown below Equation 1.

$$\arg\min_{\mathbf{S}} \sum_{i=1}^{k} \frac{1}{|S_i|} \sum_{\mathbf{x},\mathbf{y} \in S_i} \parallel \mathbf{x} - \mathbf{y} \parallel^2 \tag{1}$$

1.1 Penguins clusters

The Palmer Penguins dataset is a great tool for showing how k-means clustering performs.

Bibliography

[1] PedregosaFabian *et al.*, "Scikit-Learn: Machine Learning in Python," *The Journal of Machine Learning Research*, Nov. 2011, doi: 10.5555/1953048.2078195.