

# Typst requires a little effort

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## 1 K Means Clustering in Python

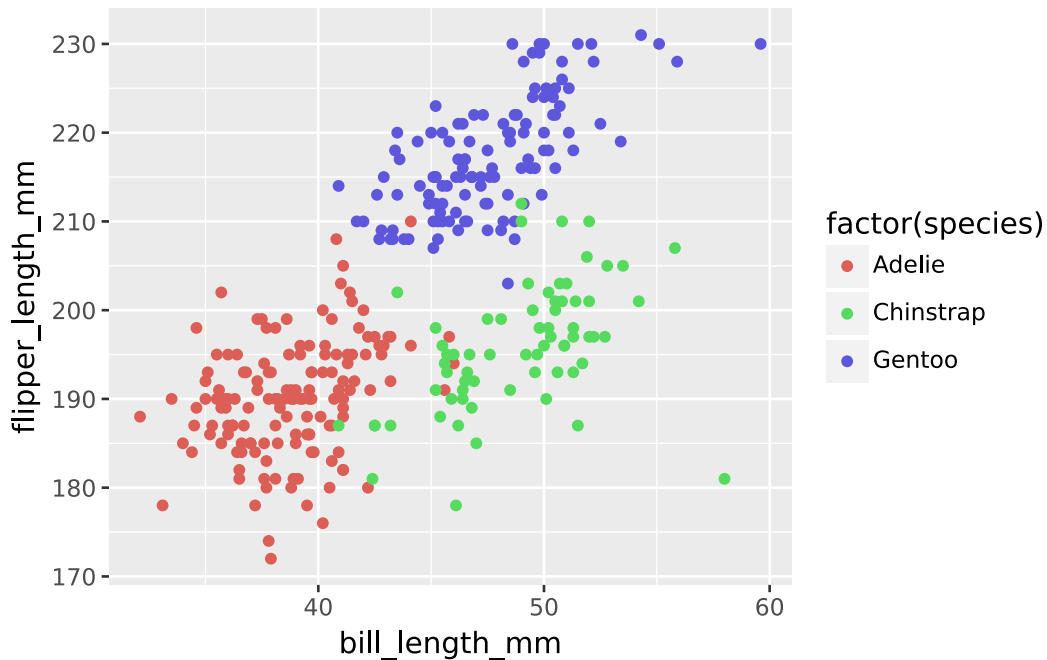
The scikit-learn library [1] contains an implementation of the k-means clustering method.

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

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

### 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.