

LaTeX requires a little effort

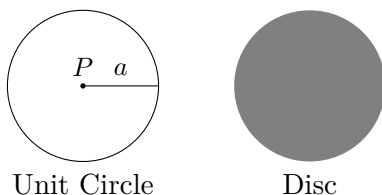
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Drawing diagrams in LaTeX

TikZ

TikZ is incredibly powerful and flexible, here's an [example diagram](#) from a [StackOverflow question](#).



K Means Clustering in Python

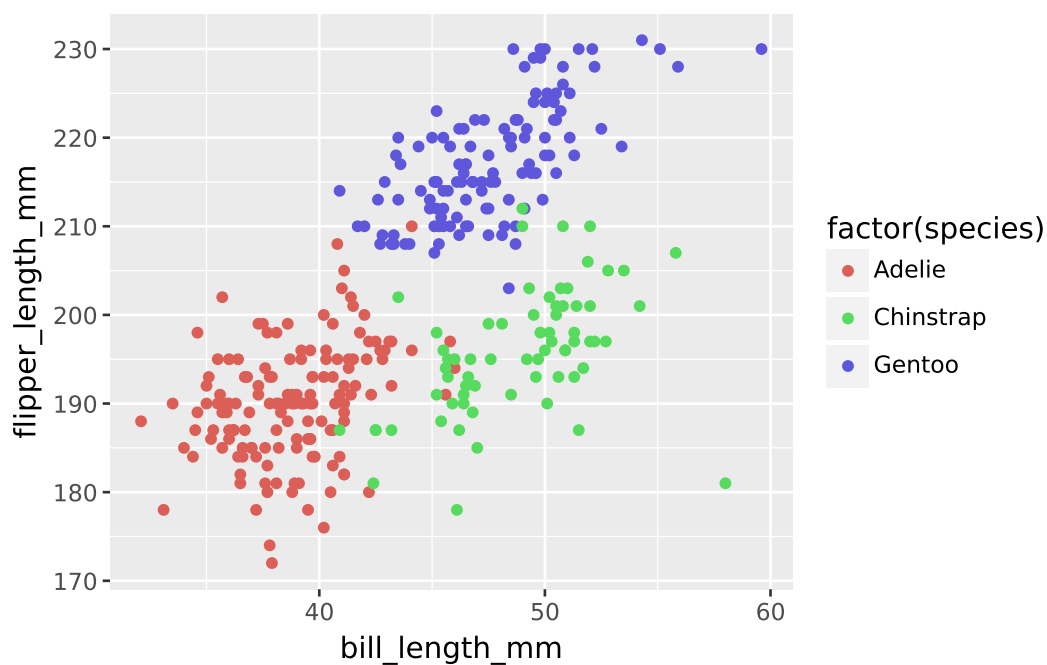
The scikit-learn library (PedregosaFabian et al. 2011) contains an implementation of the k-means clustering method.

One of the important equations in k-means clustering is shown below Equation [1](#).

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

Penguins clusters

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



References

PedregosaFabian, VaroquauxGaël, GramfortAlexandre, MichelVincent, ThirionBertrand, GriselOlivier, BlondelMathieu, et al. 2011. “Scikit-Learn: Machine Learning in Python.” *The Journal of Machine Learning Research*, November. <https://doi.org/10.5555/1953048.2078195>.