Annotated Bibliography

This visualization [1] aims to learn insights in the training dataset from the corresponding classification results. Furthermore, this study aims to find how classification performance is related to class distribution by visually inspecting how far a predicted class is from the ground truth class, in the class map space. Figure 1 shows how the authors use scatter plot as their choice of idiom and the horizontal spatial position is used to denote class distance and the vertical axis spatial position is used to denote the probability that the model assigns to alternative classes. One of the major issues with this visualization is that it needs to be repeated for each class and therefore using this mechanism to visualize the semantic segmentation performance for all the classes (19 of them) will be challenging and discovering trend from separate graphs will pose added cognitive load on the user's part.

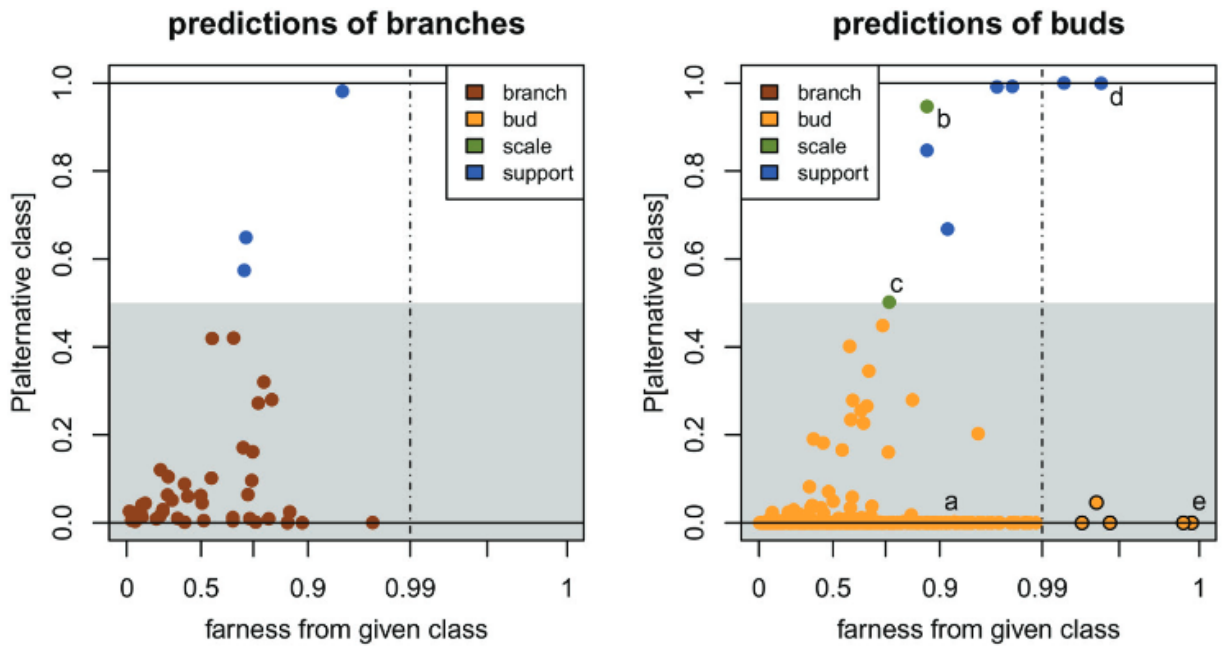

Figure 1: Visualization of class maps [1].

References:

1. J. Raymaekers, P. J. Rousseeuw, and M. Hubert, "Class maps for visualizing classification results," Technometrics, vol. 64, no. 2, pp. 151–165, 2022.