

Appendix

Our original data set is compiled of bouldering problem images of a moonboard between the difficulty grades of 6A+ and 8B+. This dataset was collected in 2019, and consisted of 20043 images. The images are split into 15 different grades by the Fontainebleau Scale, with 7304 of them having a user-assigned grade in addition to their true grades. The images are also accompanied by a binary file, indicating where the location of each climbing hold is for each problem image, along with the corresponding difficulty grade.

Figure 1: Data Dictionary

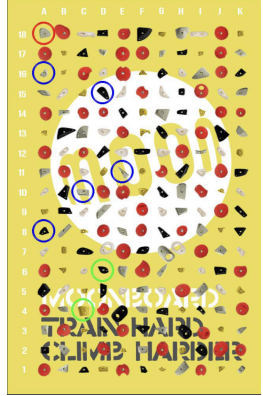
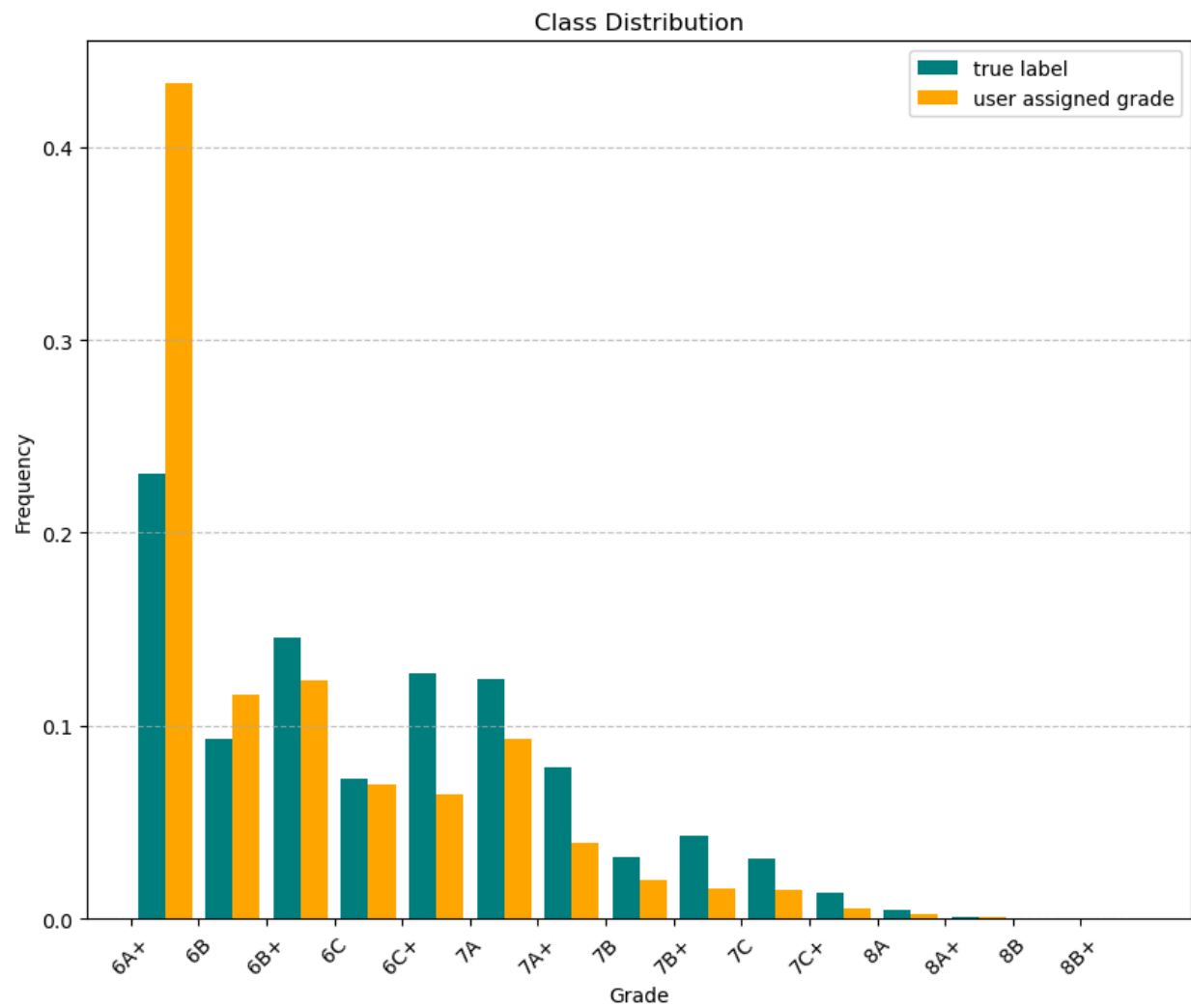
Column	Description	Responses
Image	Bouldering problem images from an online image of a moonboard, and each one annotated with circles to indicate the location of each climbing hold. Every image has the same dimensions of 650×1000 pixels.	
Classification	Each image is classified by the Fontainebleau Scale, and identified by a binary value mapped to each difficulty grade from the following JSON File: <pre>{ "6A+":0, "6B":1, "6B+":2, "6C":3, "6C+":4, "7A":5, "7A+":6, "7B":7, "7B+":8, "7C":9, "7C+":10, "8A":11, "8A+":12, "8B":13, "8B+":14 }</pre>	8

Figure 2: Class Distribution



Figures 3-17 : Climb hold Heatmaps

