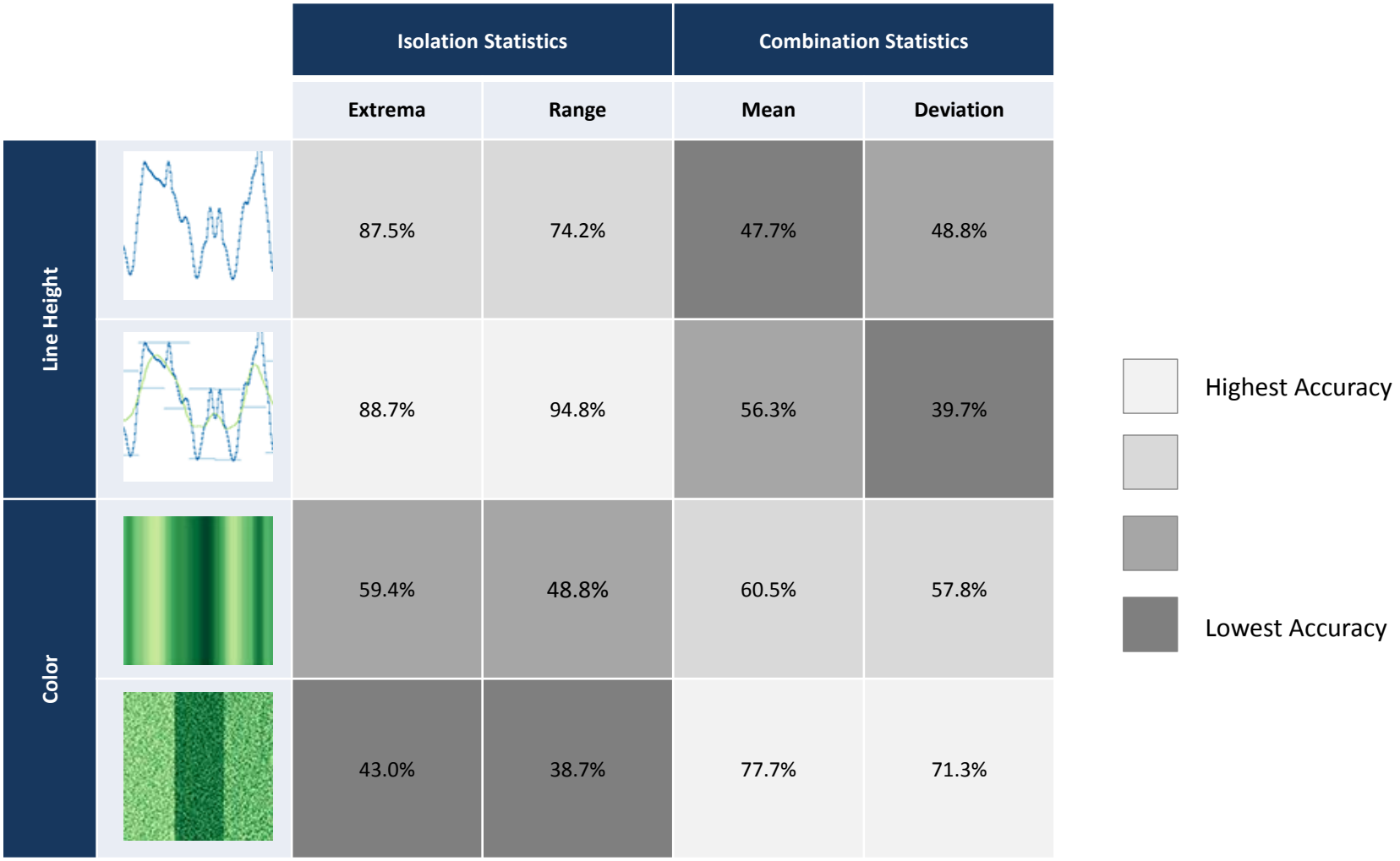

Figure: We tested how color and line height support ensemble processing of four different visual statistics. For ensemble processing of color gradients, performance was best for statistics requiring the combination of information across values, such as recovering mean and deviation. In contrast, for ensemble processing of line height, performance was best for statistics requiring isolation of unique elements across values, such as recovering extrema and range. We replicated these results using modified versions of each representation in typical data analysis tasks: a line graph that included explicit information about judged properties and a color gradient that was randomized within 'months' to facilitate ensemble processing of each month.