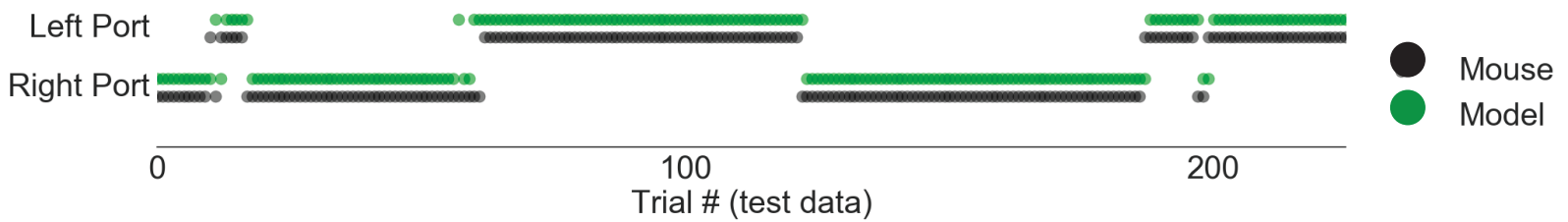
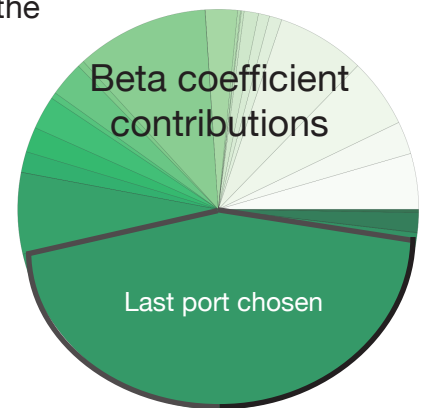
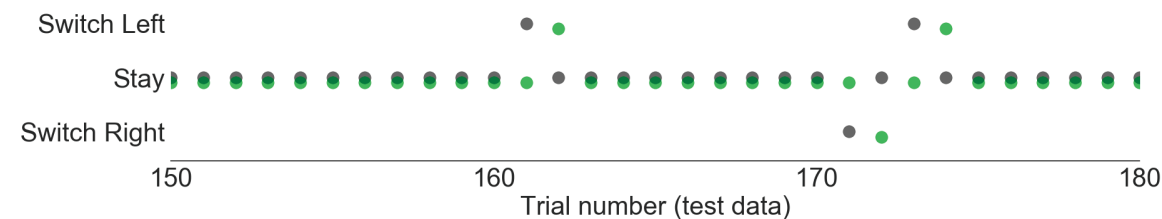


Classifying 'left' & 'right' decisions

Simple logistic regression



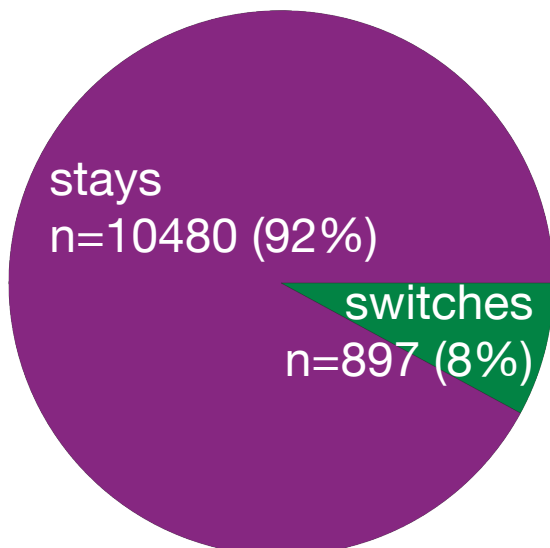
This simple model is ~94% accurate at predicting which port the mouse will choose! However, has it really figured out how the mouse is behaving? The interesting behavior occurs when the mouse *changes* its decision. How does our simple model perform in those trials?



The model consistently lags the actual 'switch' trials. This is because the model is relying most heavily on whichever port the mouse chose previously to predict the decision. Therefore, we decided to instead directly model 'switch' vs 'stay' trials.

'switch' (explore) & 'stay' (exploit) decisions

distribution of 'stays' & 'switches' in the data



simplest bench-mark models to beat

