



To build a regressor that generalizes over country input examples with feature structure like

$$z_1 = \left[\underbrace{\phi(\text{country specific})}_{\text{country specific}} \quad \phi(\text{whole world}) \right], \quad (z_2 = [\underbrace{\phi(\text{country specific})}_{\text{country specific}} \quad \underbrace{\phi(\text{whole world})}_{\text{whole world}}])$$

where this part of the feature vector always comes from the same country as the corresponding y_i