

t trials

p conditions

q responses

v voxels

$$X \to Z \qquad \text{stimulus-based} \qquad \hat{Z} = \hat{g}(X)$$

$$Y_2 \to Z \qquad \text{direct response decoding} \qquad \hat{Z} = \hat{h}(Y_2)$$

$$Y_1 \to X \to Z \qquad \text{indirect response decoding} \qquad \hat{Z} = \hat{g}(\hat{f}^{-1}(Y_1))$$