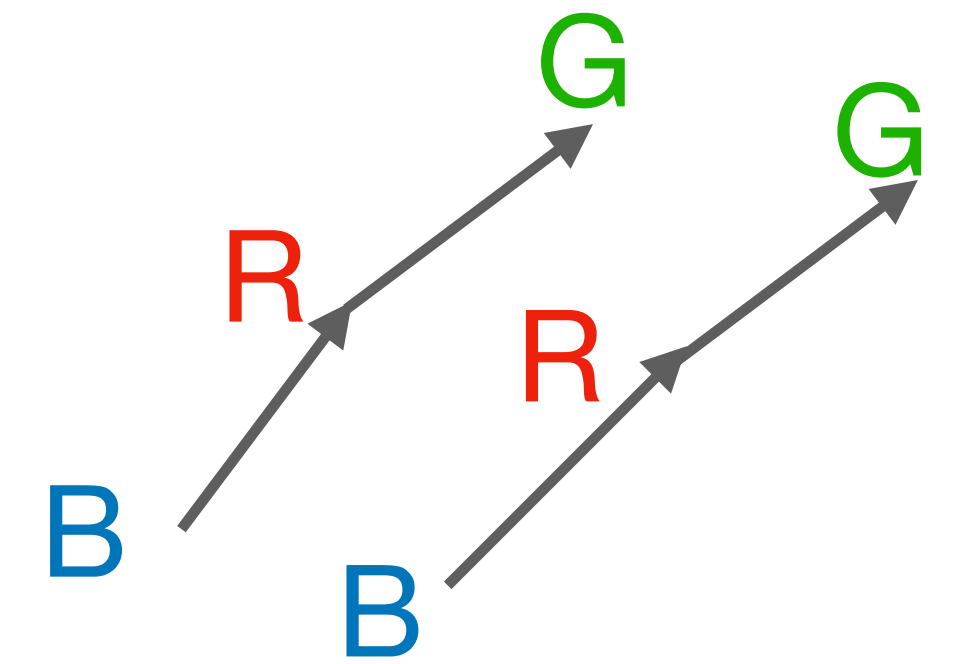


Geometric Priors : Pairwise Segment Loss

$$\mathcal{L}_{\text{seg}} = \frac{1}{|\mathcal{S}_{\text{vis}}|} \sum_{(i,j) \in \mathcal{S}_{\text{vis}}} H_{\beta} \left((\mathbf{p}_j - \mathbf{p}_i) - (\mathbf{g}_j - \mathbf{g}_i) \right)$$



Enforces consistency of the pairwise displacement vectors between keypoints

Geometric Priors : Joint angle Loss

$$\mathcal{L}_{\text{ang}} = 1 - \cos(\theta_{\text{pred}} - \theta_{\text{gt}})$$

Ensure that relative orientation of points is correct