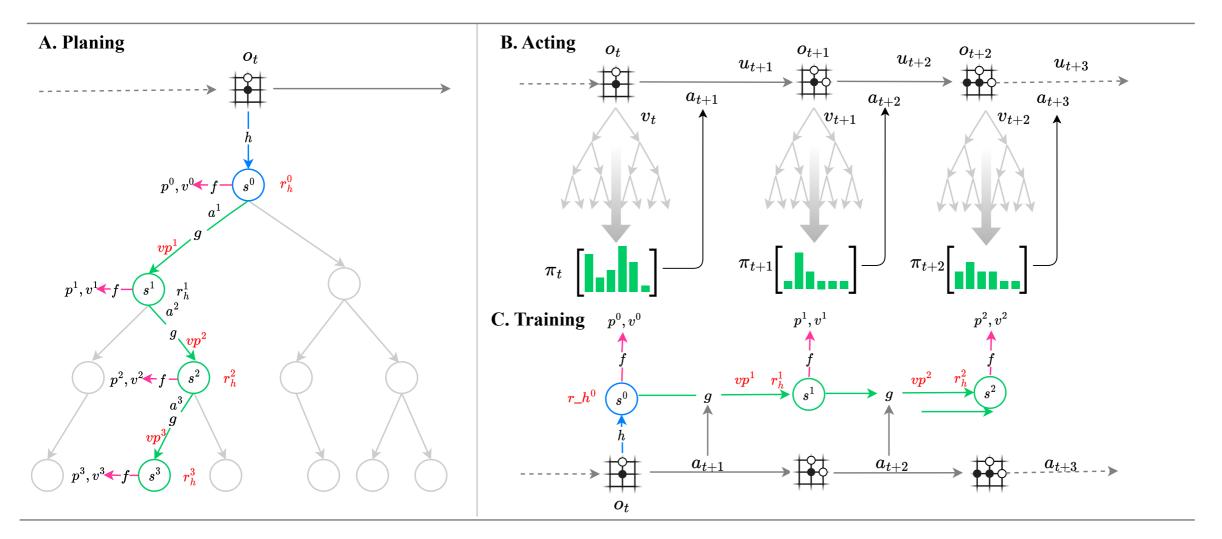
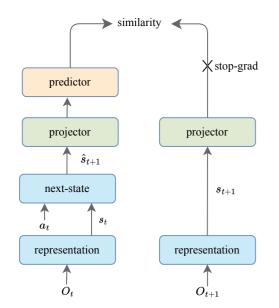
EfficientZero: Self-supervised coonsistency loss, Value prefix, Off-policy correction



D. Network and Loss



$$l_t(heta) = \sum_{k=0}^K l^r \left(v p_{t+k}, extbf{v} p_t^k
ight) + l^v \left(z_{t+k}, extbf{v}_t^k
ight) + l^p \left(\pi_{t+k}, extbf{p}_t^k
ight) + l^{similarity} (s_{t+1}, \hat{s}_{t+1}) + c \| heta\|^2$$

where, $z_t = u_t + \gamma u_{t+1} + \ldots + \gamma^{l-1} u_{t+l-1} + \gamma^l v_{t+l}^{MCTS}$, l <= k, v_{t+l}^{MCTS} is reanalyzed MCTS root value.

Reference: MuZero target is $z_t = u_t + \gamma u_{t+1} + \ldots + \gamma^{n-1} u_{t+k-1} + \gamma^k v_{t+k}$.

The self-supervised consistency loss.