

$$\text{Recall} = \frac{\text{Tr} \cap \text{Te}}{\text{Te}}$$
$$\text{Precision} = \frac{\text{Tr} \cap \text{Te}}{\text{M}_r}$$
$$\text{IoU} = \frac{\text{Tr} \cap \text{Te}}{\text{Te} + \text{M}_r - \text{Tr} \cap \text{Te}}$$