

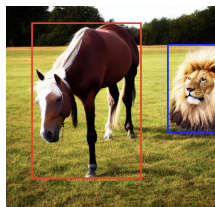
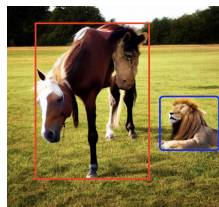
## Edited Image

w/o sep loss

with sep loss

Add lion

Src  
Image



horse

lion



horse

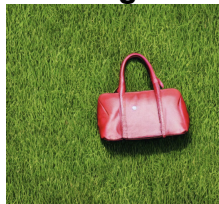
lion

w/o sep loss

with sep loss

Add carrot

Src  
Image



bag

carrot

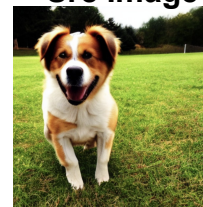


bag

carrot

(a) Ablation study on **separation loss** for  
**Object Addition.**

## Src Image



w/o position control  
loss

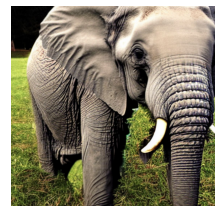
with position control  
loss



dog → cat

w/o size control  
loss

with size control  
loss



dog → elephant

\*\*\* Controlling position and size of target object with respect to original position and size of source object.

(b) Ablation study on **controllable loss** for  
**Object Replacement.**