GAN: The Forger vs Detective Game

FORGER

(Generator Network)

Creates fake paintings

Fake Painting

DETECTIVE

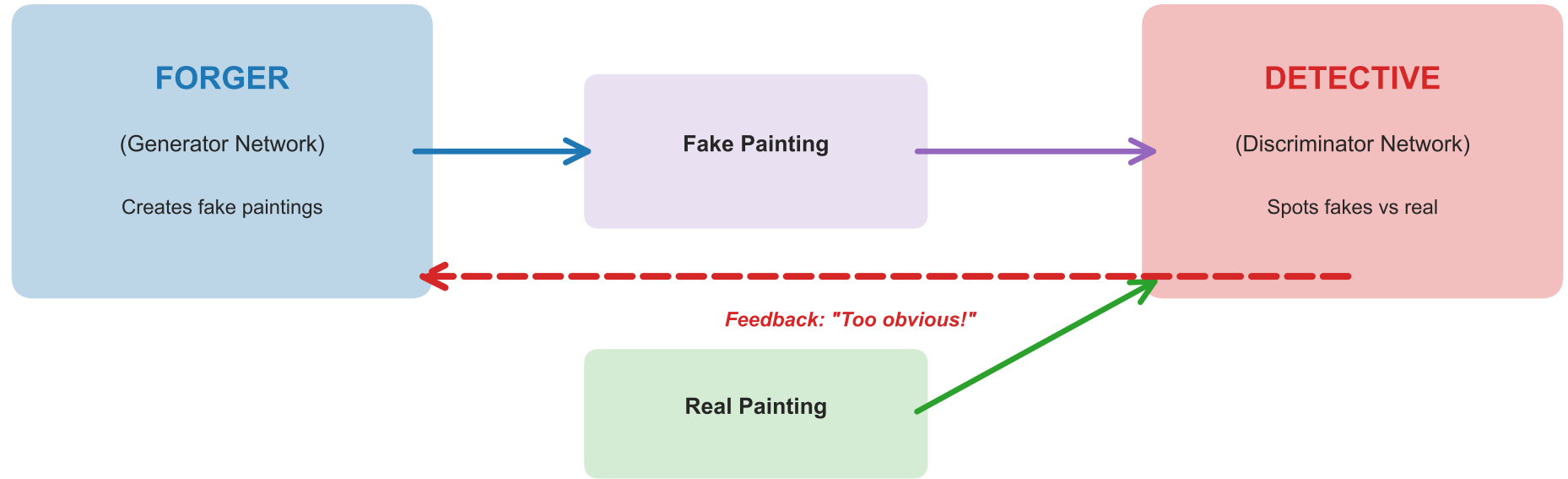(Discriminator Network)

Spots fakes vs real

Feedback: "Too obvious!"

Real Painting

Early Training: Detective wins easily

Late Training: Forger fools detective!

Equilibrium: 50% accuracy (perfect balance)