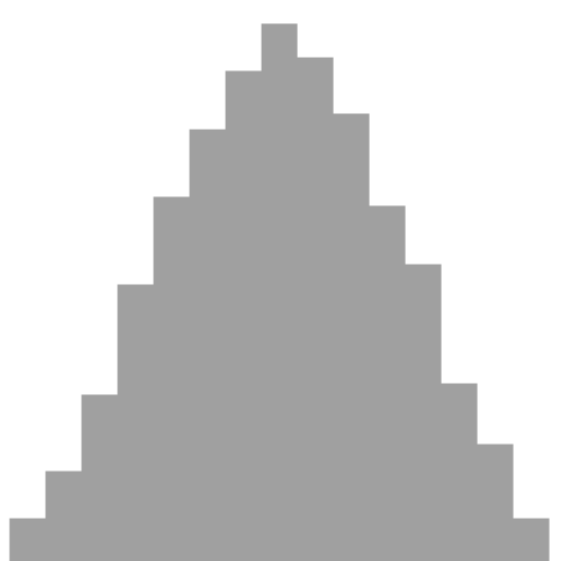
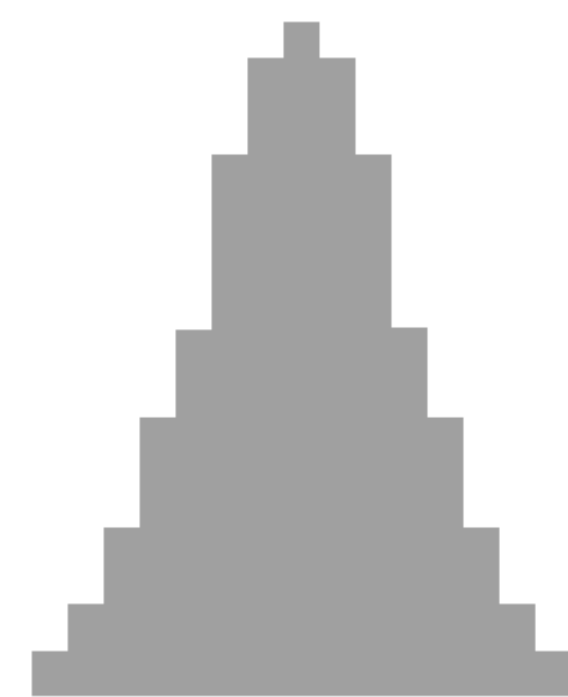


Input palette with pre-determined color assignment, rendering order and constant opacity

Auto-generated optimal color, opacity and rendering order

Input Distributions

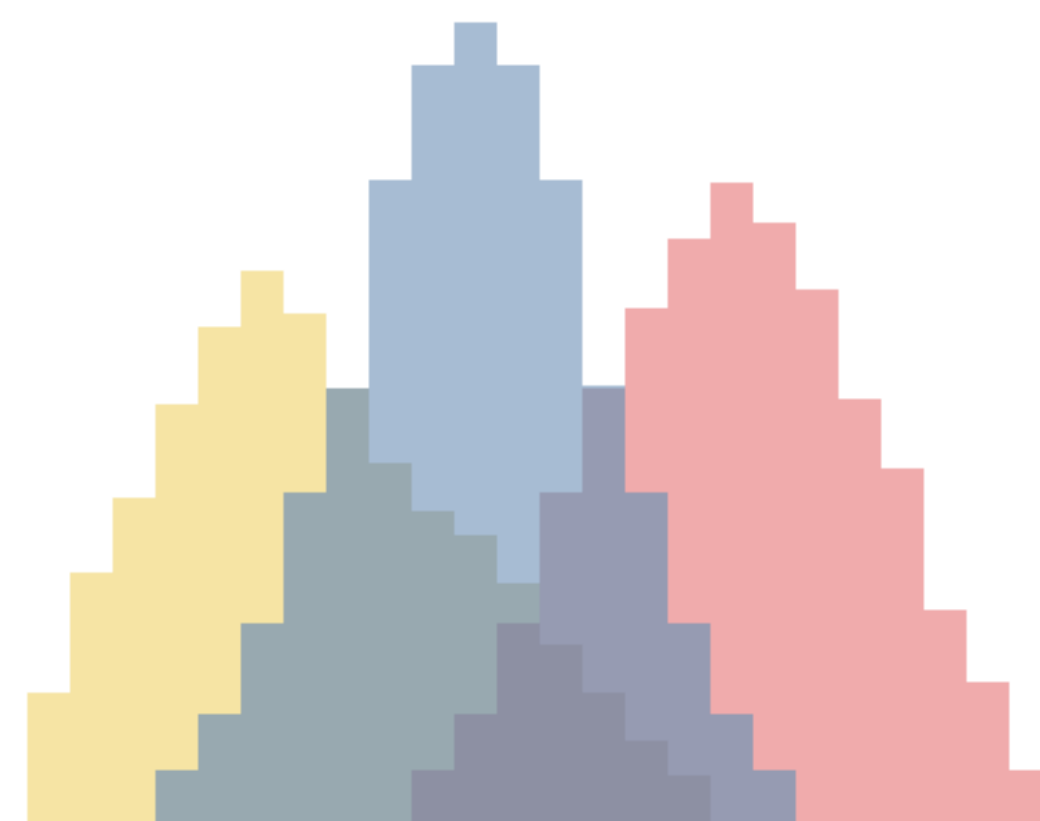


(a)

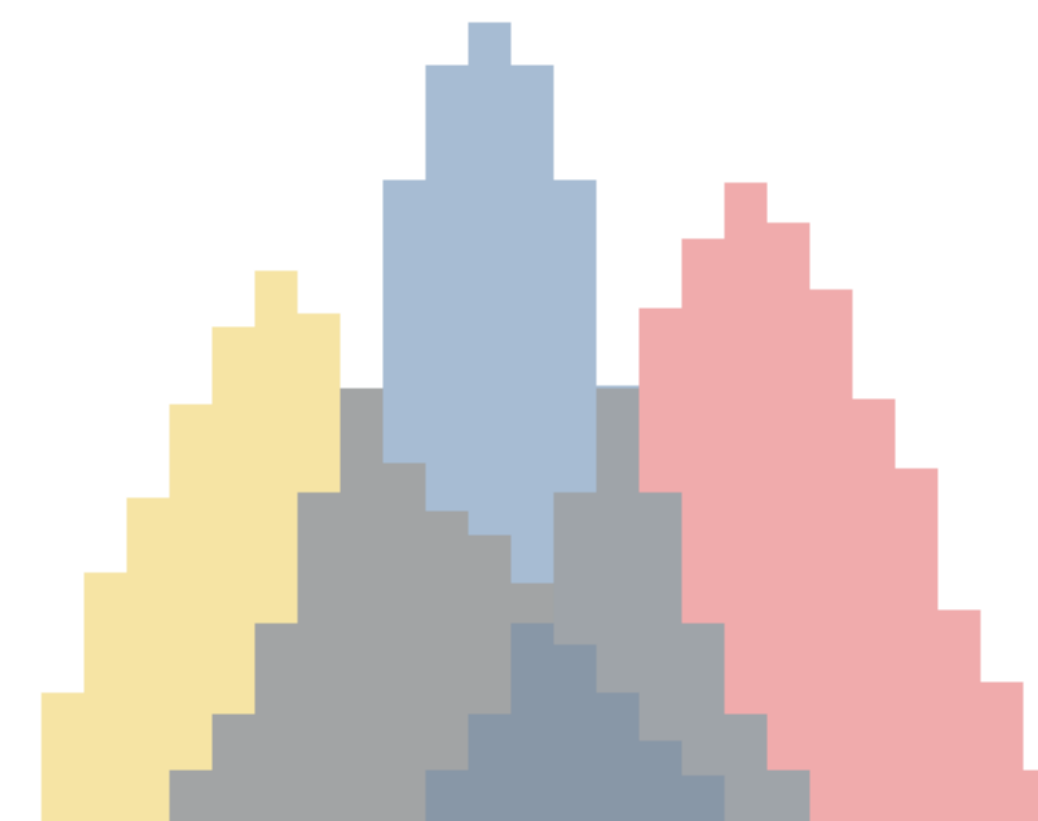
A $\alpha=0.50$ B $\alpha=0.50$ C $\alpha=0.50$



(b) Standard Alpha Blending

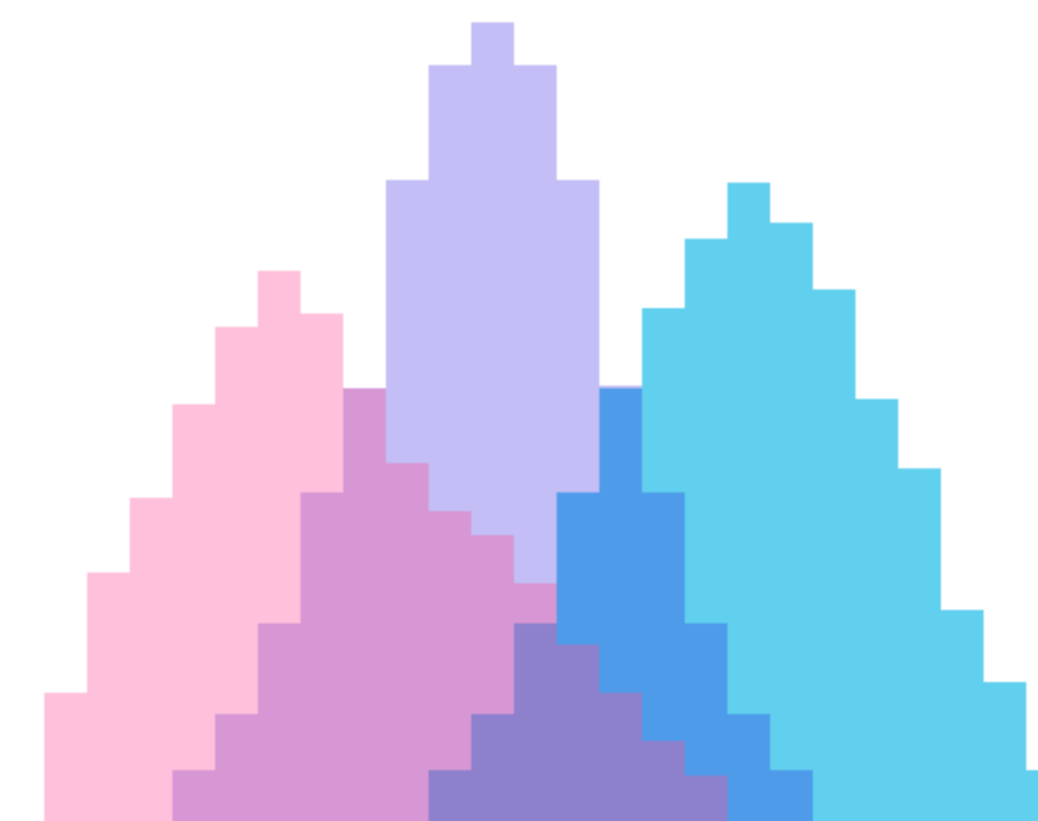


(c) Local Color Blending



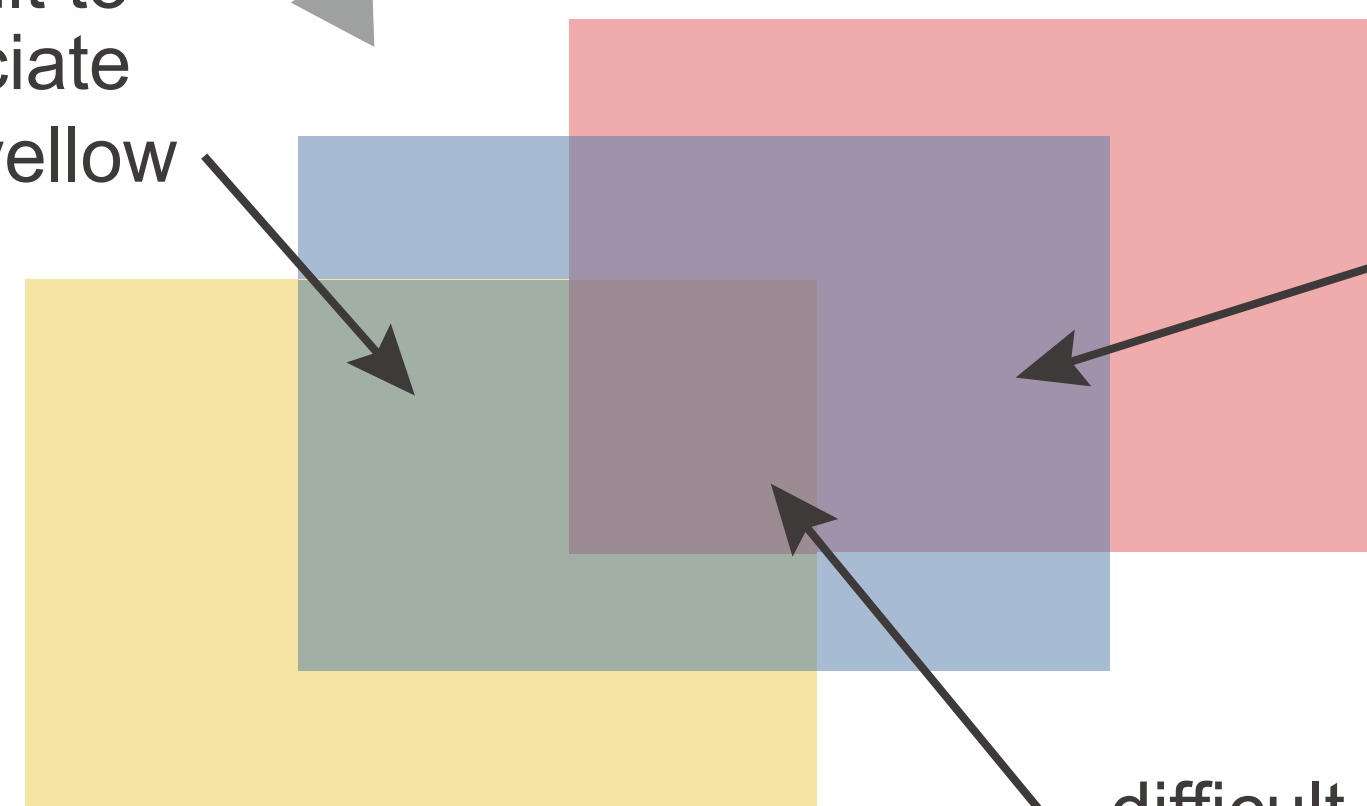
(d) Hue-preserving Color Blending

A $\alpha=0.67$ C $\alpha=0.27$ B $\alpha=0.36$



(e) CNA (our approach)

difficult to
associate
with yellow

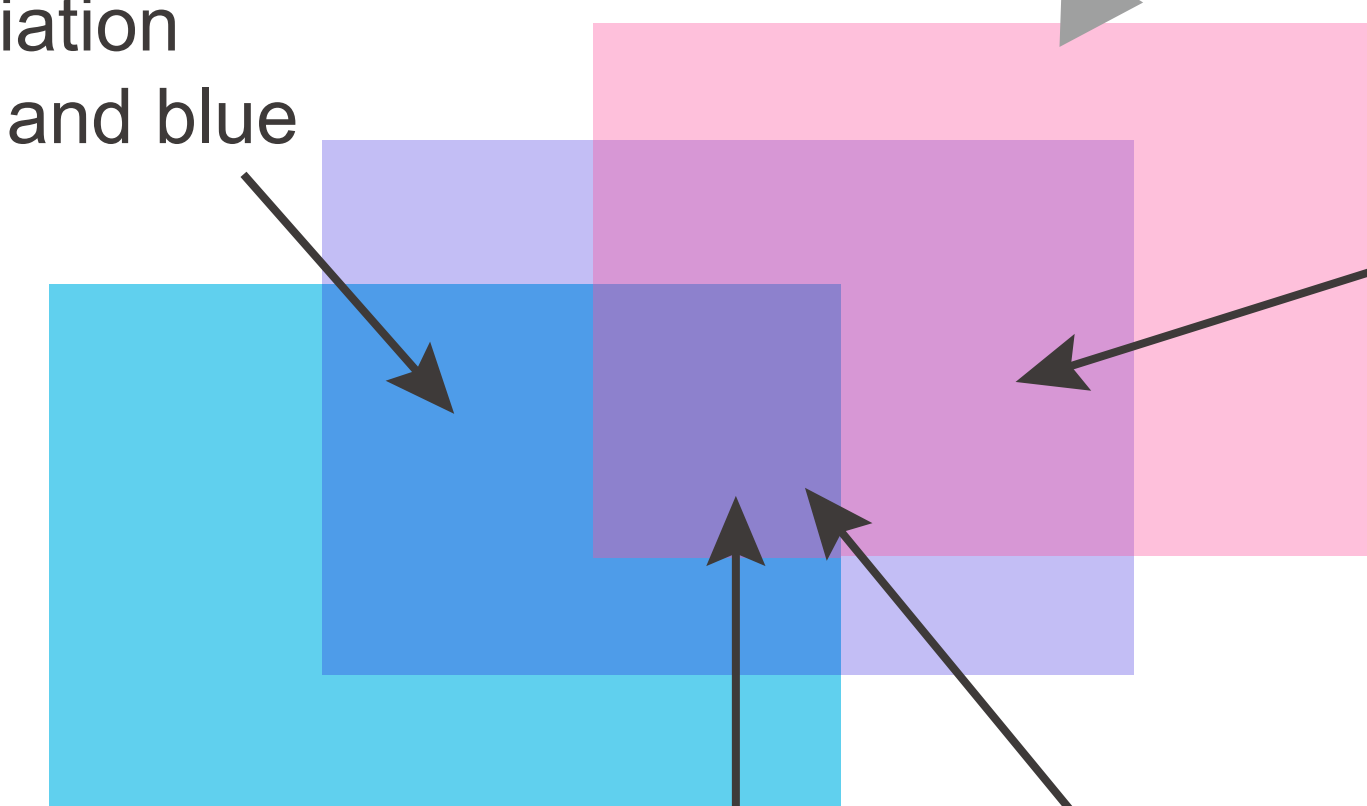


(f)

purple color
can be confused
for a new class

difficult to perceive this color
as part of either the yellow
or red histogram

easy association
with purple and blue



(g)

easy association
with pink and purple

easy association with
neighboring blended colors

easy association
with purple