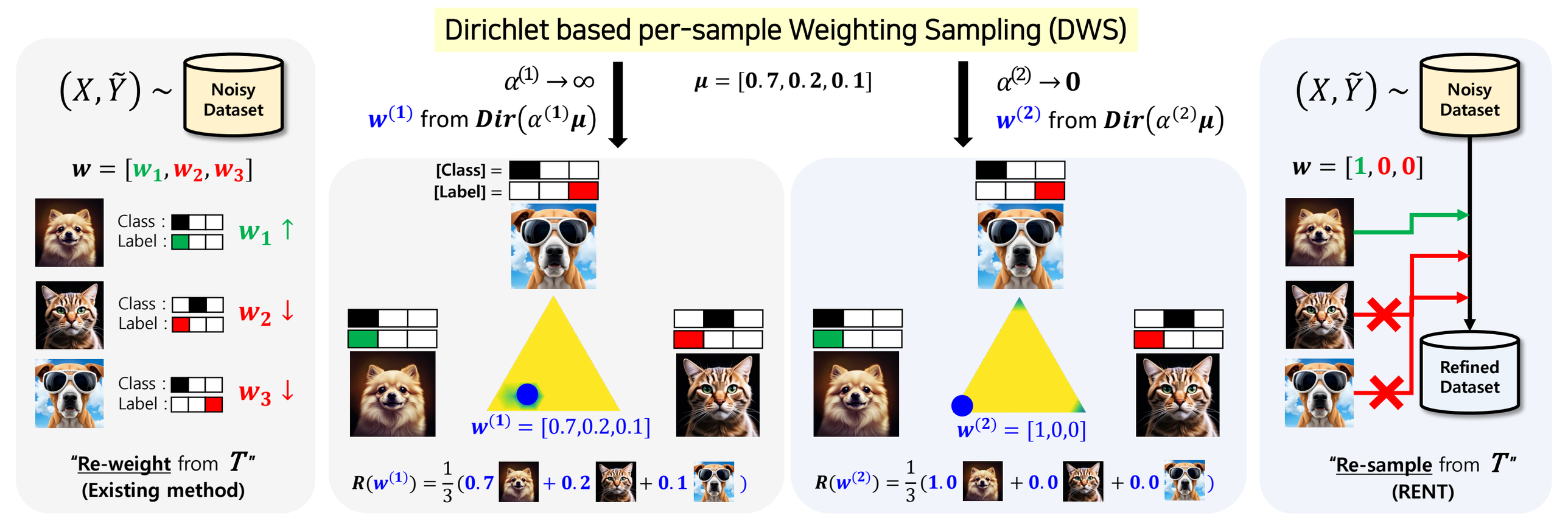
Dirichlet based per-sample Weighting Sampling (DWS)
$(X, \tilde{Y}) \sim$ Noisy Dataset
$w = [w_1, w_2, w_3]$
Class :
Label :
$w_1 \uparrow$
$w_2 \downarrow$
$w_3 \downarrow$
"Re-weight from T"
(Existing method)
$\alpha^{(1)} \to \infty$
$w^{(1)}$ from $Dir(\alpha^{(1)}\mu)$
$\mu = [0.7, 0.2, 0.1]$
$\alpha^{(2)} \to 0$
$w^{(2)}$ from $Dir(\alpha^{(2)}\mu)$
[Class] =
[Label] =
$w^{(1)} = [0.7, 0.2, 0.1]$
$w^{(2)} = [1, 0, 0]$
$R(w^{(1)}) = \frac{1}{3}(0.7 \; + 0.2 \; + 0.1 \;)$
$R(w^{(2)}) = \frac{1}{3}(1.0 \; + 0.0 \; + 0.0 \;)$
$(X, \tilde{Y}) \sim$ Noisy Dataset
$w = [1, 0, 0]$
Refined Dataset
"Re-sample from T"
(RENT)