

(a)

“Collision” exampleResolvable

no collision

G1 — U1 ✓ Traditional

G2 — U1 ✓ Alevin

gene-level collision

G1 (T1) — U1 ✗ Traditional

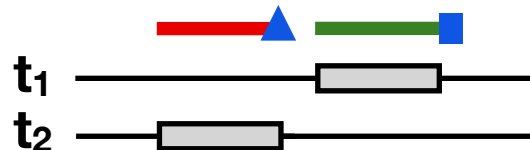
G1 (T2) — U1 ✓ Alevin

transcript-level collision

G1 (T1) — U1 ✗ Traditional

G1 (T1) — U1 ✗ Alevin

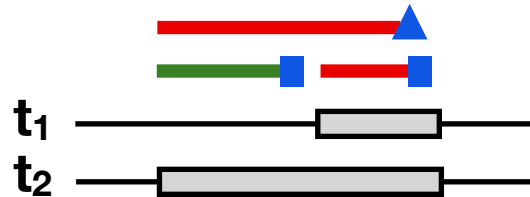
(b)



Equivalence classes:

 $\{t_1\}, \{t_2\}$

gene level: 2

eq. class level: $1+1 = 2$ 

Equivalence classes:

 $\{t_2\}, \{t_1, t_2\}$

gene level: 2

eq. class level: $1+2 = 3$