

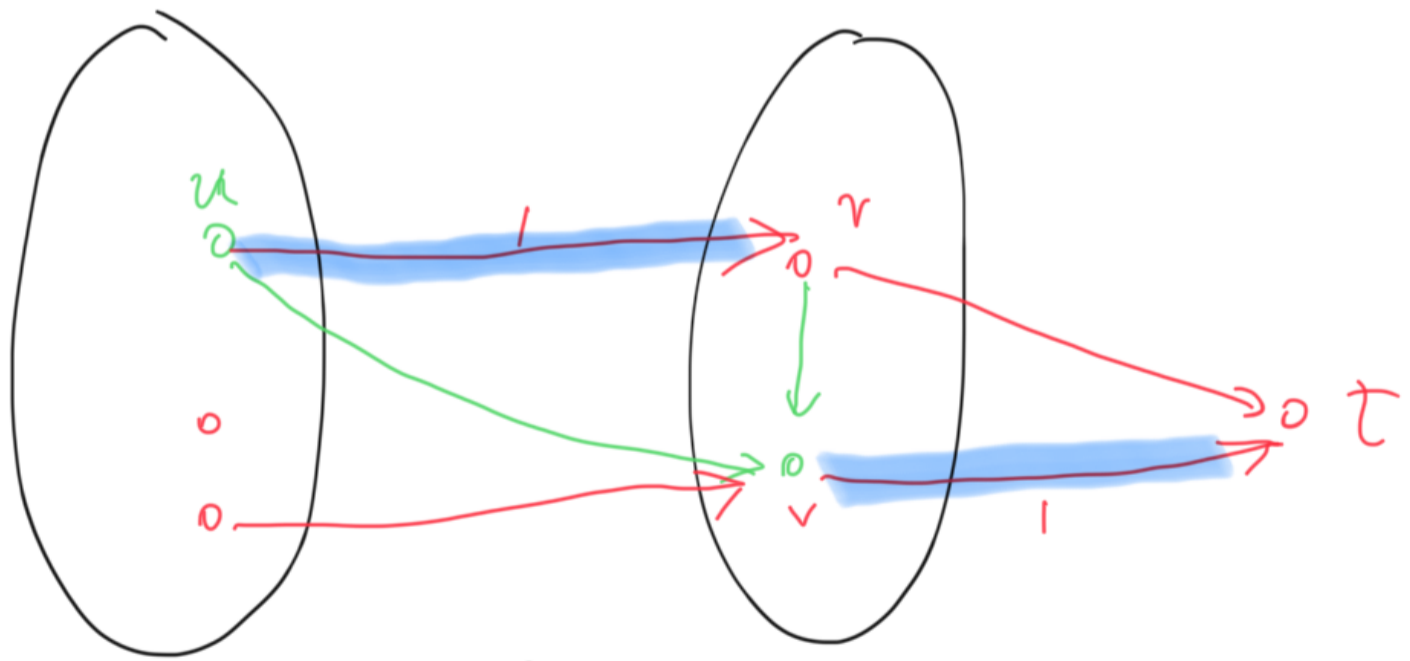
$$B \cap U = U - A$$

$$A \cap V = V - B$$

red : B

green : A

$$c(A, B) = |U - A| + |A \cap V|$$



moving a neighbor of  $u$  from  $B$  to  $A$  never increases the capacity of the cut.

**—** blue edge is "in the cut"

