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Super-condensed reference sheet

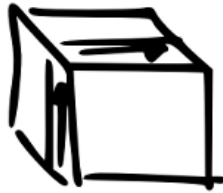
(0) Notation



U



R



F



D



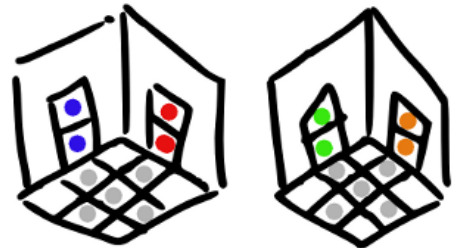
L



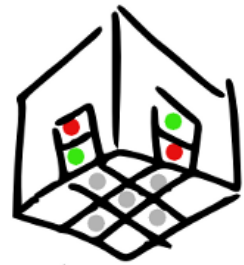
B

- X' = other direction
- X2 = 180° (turn face twice)

(1) Cross

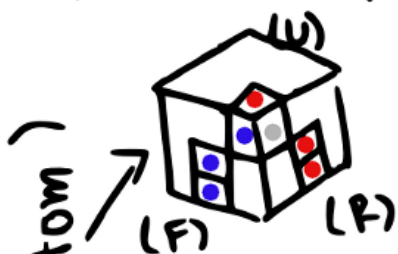


Good cross

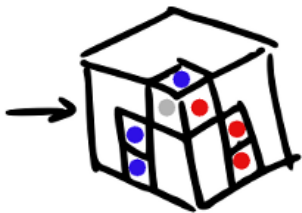


Bad cross

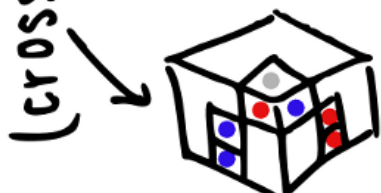
(2) First Layer Corners



R U R'

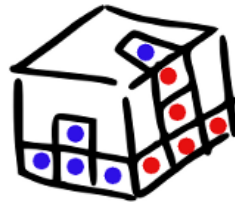


F' U' F

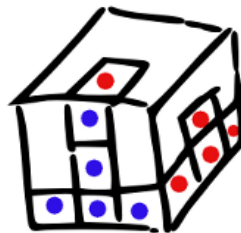


R U2 R' U'

(3) Middle Layer Edges



U' F' U
F U R
U' R'



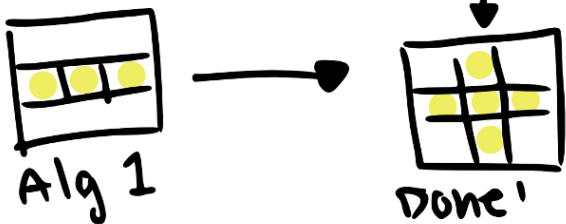
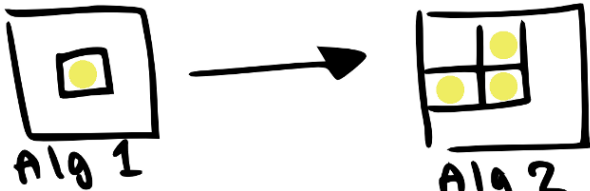
U R U'
R' U' F'
U F

(4) ~ (7) Last Layer

(4) orient Edges

Alg 1: $F R U R' U' F'$

Alg 2: $F U R U' R' F'$

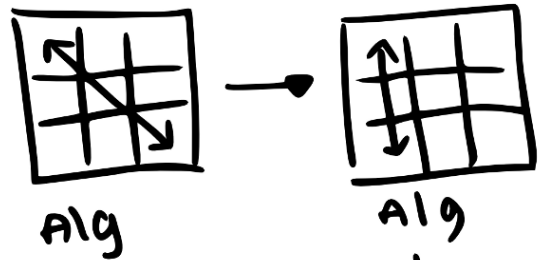


(6) permute corners

Alg: $R^2 B^2 R$

$F R' B^2 R$

$F' R$

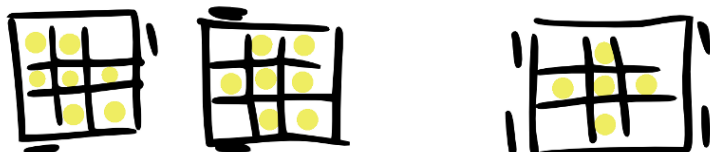


Done!

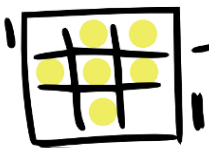
(5) orient corners

Alg 1: $R U R' U R U^2 R'$

Alg 2: $R U^2 R' U' R U' R'$

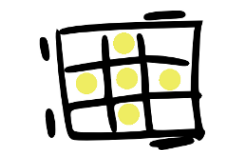


Alg 1

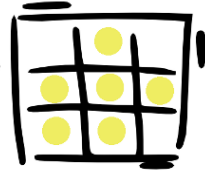


Alg 2

Done!



Alg 1



Alg 1

(7) permute Edges

Alg 1: $R^2 U F B'$

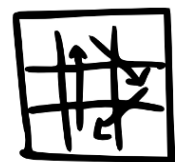
$R^2 F' B U R^2$

Alg 2: $R^2 U' F B'$

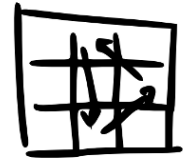
$R^2 F' B U' R^2$

All 4 edges are wrong: choose either algorithm

(or)



Alg 1



Alg 2



Done!