Rubik's Cube Solution — Reference Sheet

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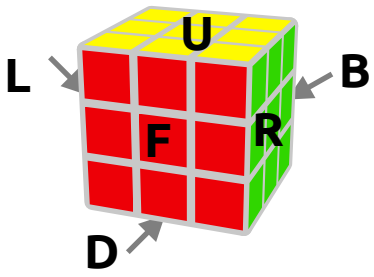
Based on solutions by Shelley Chang and Tyson Mao.

Notation

The cube has six sides:

Up
Left
Front
Right
Back
Down



Clockwise turns

U L F R B D

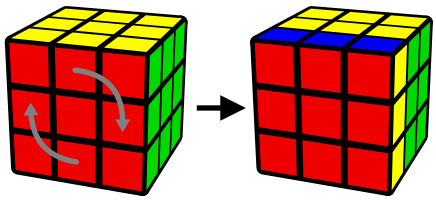
Counter-clockwise

U' L' F' R' B' D'

Double turns

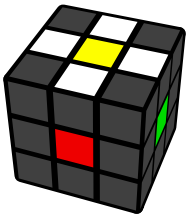
U2 L2 F2 R2 B2 D2

Example Move: F

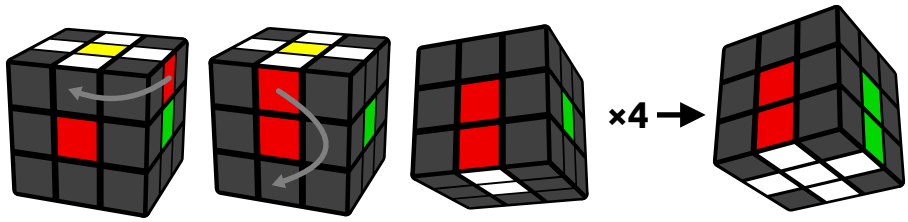


Daisy & Cross

Place four edges with white around the yellow center.

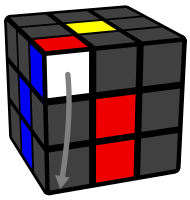


Select one edge with white at a time, then align its other color and place it in solved position.



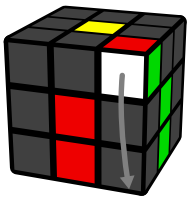
First Layer Corners

Select corners with white in the top layer and move them down one at a time.



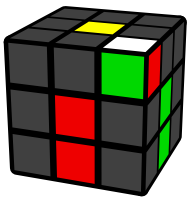
Left Trick =

U' L' U L



Right Trick =

U R U' R'

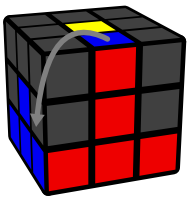


(Right Trick) × 3 =

(U R U' R')3

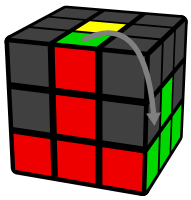
Middle Layer (Edges)

Select an edge, perform this sequence, then reinsert the corner again using the previous step.



Left Trick + Re-Insert =

U' L' U L → Re-Insert

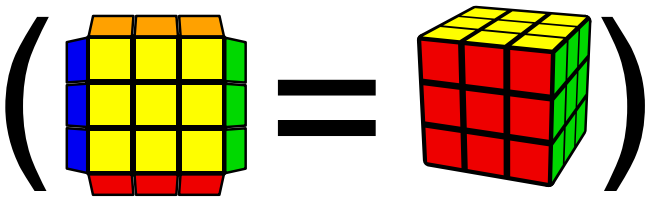


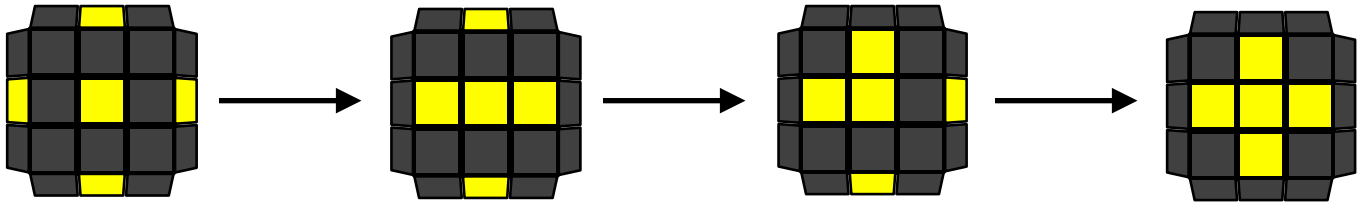
Right Trick + Re-Insert =

U R U' R' → Re-Insert

Last Layer Edge Orientation

Make sure the cube matches the diagram every time before you apply a sequence of moves.





F + Right Trick + F' =
F (U R U' R') F'

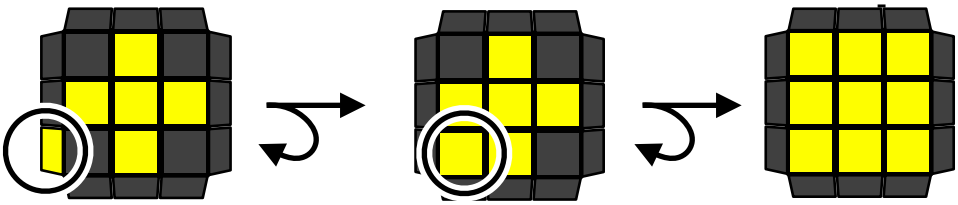
F (U R U' R') F'

F (U R U' R') F'

Last Layer Corner Orientation

Count the number of corners with yellow facing up.

Not 1 Exactly 1

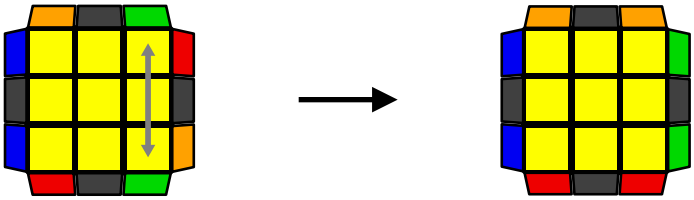


Right Sune =
(R U R') U (R U2 R')

Right Sune =
(R U R') U (R U2 R')

Last Layer Corner Positions

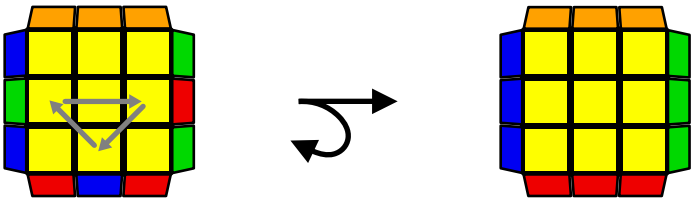
Align two corners on the left side if possible.



Niklas + Right Sune =
(L' U R U' L U R') (R U R') U (R U2 R')

Last Layer Edge Positions

Place a solved last-layer edge in the back if possible.



Right Sune + U + Left Sune + U' =
(R U R') U (R U2 R') U (L' U' L) U' (L' U2 L) U'