

Rubik's Cube Solution Cheat Sheet

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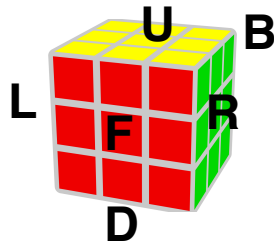
garron.net/cubing

Based on solutions by Shelley Chang and Tyson Mao.

Notation

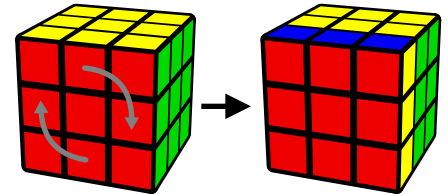
The cube has six sides:

- Front (F)
- Back (B),
- Left(L)
- Right (R),
- Down (D)
- Up (U)



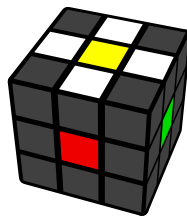
- Clockwise:
U, R, F, B, L, D
- Counter-clockwise:
U', R', F', B', L', D'
- Double-turn:
U2, R2, F2, B2, L2, D2

Example Move: F

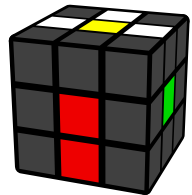
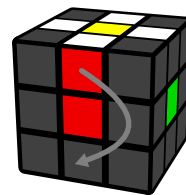
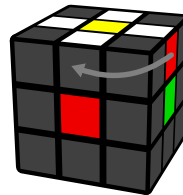


Daisy & Cross

Place four white edges around the yellow center.



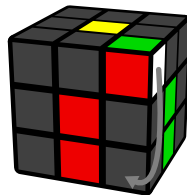
Daisy



Solve each petal by aligning it and placing it.

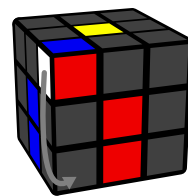
First Layer Corners

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



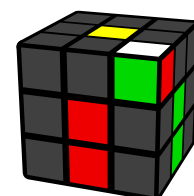
Right Trigger:

R U R'



Left Trigger:

L' U' L

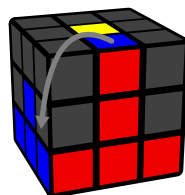


(Right Trigger)*2:

(R U R') (R U R') → try again

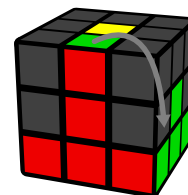
Middle Layer (Edges)

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



Left Pull + Left Trigger:

U' (L' U' L) → re-insert

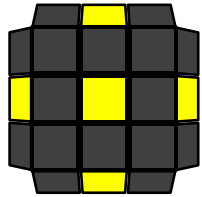
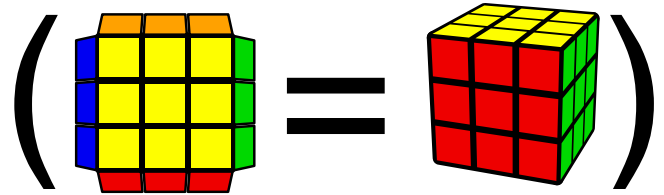


Right Pull + Right Trigger:

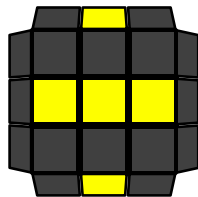
U (R U R') → re-insert

Last Layer Edge Orientation

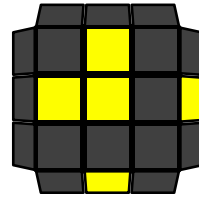
Make sure the cube matches the diagram every time before you apply a sequence of moves.



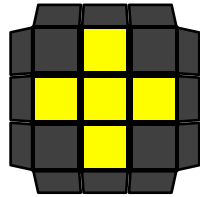
F U R U' R' F'



F U R U' R' F'



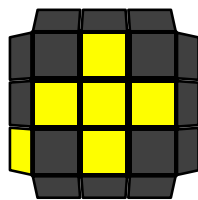
F U R U' R' F'



Last Layer Corner Orientation

Count the number of corners with yellow facing up.

Not 1

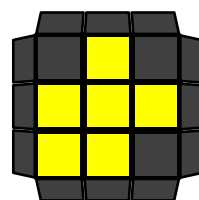


Right Sune:

(R U R') U (R U2 R')

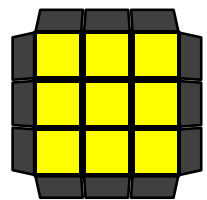


Exactly 1



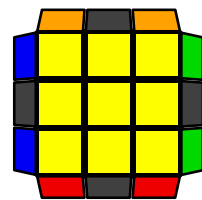
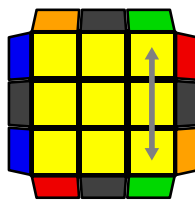
Right Sune:

(R U R') U (R U2 R')



Last Layer Corner Permutation

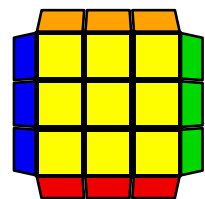
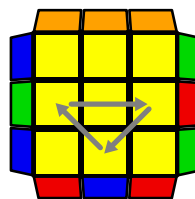
Align two corners.



Niklas + Right Sune:

(L' U R U' L U R') (R U R') U (R U2 R')

Last Layer Edge Permutation



Right Sune + U + Left Sune + U':

(R U R') U (R U2 R') U (L' U' L) U' (L' U2 L) U'