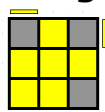


Orient Last Layer

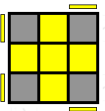
Red = R U R' U' Family, **Green** = R U R' U Family, **Blue** = R F' R' F Family

Try to recognize each pattern by viewing the fewest number of faces

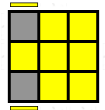
All Edges Oriented Correctly (OCLL1-OCLL8) (second part of three look last layer)



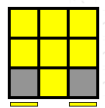
(R U R' U) R U² R'
OCLL1 - 27 - Probability = 1/54



[f (R U R' U') f'] [F (R U R' U') F']
R U² R² U' R² U' R² U² R
OCLL3 - 22 - Probability = 1/54



(r U R' U') (r' F R F')
OCLL5 - 24 - Probability = 1/54



R² [D (R' U²) R] [D' (R' U²) R']
OCLL7 - 23 - Probability = 1/54

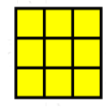
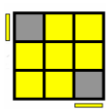
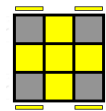
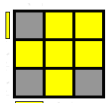
R U² R' U' R U' R'
OCLL2 - 26 - Probability = 1/54

F (R U R' U') (R U R' U') (R U R' U') F'
y (R' U' R) U' (R' U R) U' (R' U² R)

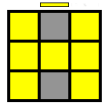
OCLL4 - 21 - Probability = 1/108

F' (r U R' U') (r' F R)
OCLL6 - 25 - Probability = 1/54

Solved
OCLL8 - 58 - Probability = 1/216

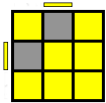


Corners Correct, Edges Flipped (E1-E2)

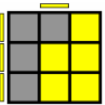


(R U R' U') M' (U R U' r')
E1 - 57 - Probability = 1/108

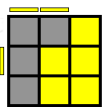
M' U M U² M' U M
E2 - 28 - Probability = 1/54



P-Shapes (P1-P4)



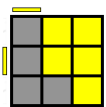
f (R U R' U') f'
P1 - 44 - Probability = 1/54



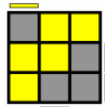
R U B' U' R' U R B R'
R d L' d' R' U R B R'
P3 - 32 - Probability = 1/54

f' (L' U' L U) f
P2 - 43 - Probability = 1/54

R' U' F U R U' R' F' R
y² L' d' R d L U' L' B' L
P4 - 31 - Probability = 1/54

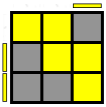


W-Shapes (W1-W2)

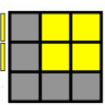


(R U R' U) (R U' R' U') (R' F R F')
W1 - 38 - Probability = 1/54

(L' U' L U') (L' U L U) (L F' L' F)
W2 - 36 - Probability = 1/54

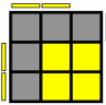


Squares (S1-S2)

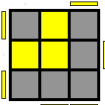


r U² R' U' R U' r'
S1 - 6 - Probability = 1/54

r' U² (R U R' U) r
S2 - 5 - Probability = 1/54

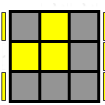
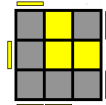


L Shapes (L1-L6)



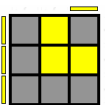
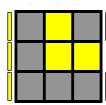
F (R U R' U') (R U R' U') F'
L1 - 48 - Probability = 1/54

F' (L' U' L U) (L' U' L U) F
L2 - 47 - Probability = 1/54



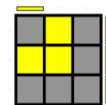
[U' L U' L' U L U' L' U² I
y² r' U' R U' R' U R U' R' U² r
L3 - 53 - Probability = 1/54

(r U R' U) R U' R' U R U² r'
L4 - 54 - Probability = 1/54

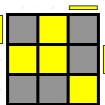


(R' F R' F') R² U² y (R' F R F')
L5 - 49 - Probability = 1/54

R' F R² B' R² F' R² B R'
L6 - 50 - Probability = 1/54

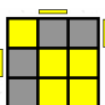
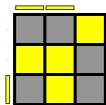


Fish Shapes (F1-F4)



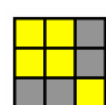
(R' U' R) y' x' (R U') (R' F) (R U R')
(R U R' U') R' F R² U R' U' F'
F1 - 9 - Probability = 1/54

R U R' y R' F R U' R' F' R
(R U R' U) (R' F R F') R U² R'
F2 - 10 - Probability = 1/54

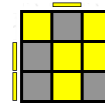


(R U² R') (R' F R F') (R U² R')
F3 - 35 - Probability = 1/54

F R U' R' U' R U R' F'
F4 - 37 - Probability = 1/54



Awkward Shapes (A1-A4)

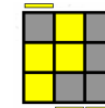


R² U R' B' R U' R² U R B R'
A1 - 30 - Probability = 1/54

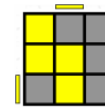


[(R U R' U) R U² R'] [F (R U R' U') F']
A3 - 41 - Probability = 1/54

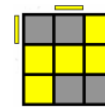
Lightning Bolts (L1-L6)



(r U R' U) R U² r'
L1 - 7 - Probability = 1/54

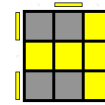


[F' (L' U' L U) F] y [F (R U R' U') F']
y (r U R' U) (R' F R F') R U² r'
L3 - 11 - Probability = 1/54



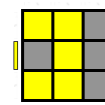
R B' R' U' R U B U' R'
y² L F' (L' U' L U) F U' L'
L5 - 39 - Probability = 1/54

T-Shapes (T1-T2)



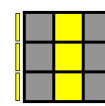
F (R U R' U') F'
T1 - 45 - Probability = 1/54

C-Shapes (C1-C2)

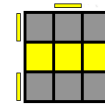


R' U' (R' F R F') U R
C1 - 46 - Probability = 1/54

I Shapes (I1-I4)

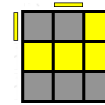


R' U² R² U R' U R U² x' U' R' U
I1 - 55 - Probability = 1/108

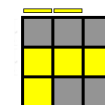


F (R U R' U') R F' (r U R' U') r'
I3 - 56 - Probability = 1/108

Knight Move Shapes (K1-K4)

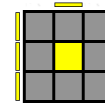


(r U r') (R U R' U') (r U' r')
K1 - 16 - Probability = 1/54

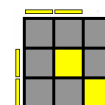


F U R U' R² F' R (U R U' R')
K3 - 13 - Probability = 1/54

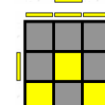
No Edges Flipped Correctly (O1-O8)



R U² R' (R' F R F') U² (R' F R F')
O1 - 1 - Probability = 1/108



[f (R U R' U') f'] U' [F (R U R' U') F']
O3 - 3 - Probability = 1/54



[F (R U R' U) F'] y' U² (R' F R F')
O5 - 18 - Probability = 1/54



(R U R' U) (R' F R F') U² (R' F R F')
O7 - 17 - Probability = 1/54

(R U R' U') R U' R' F' U' F R U R'
[F (R U R' U') F'] U² [(R U R' U') (R' F R F')]

A2 - 29 - Probability = 1/54

[R' U² (R U R' U) R] y [F (R U R' U') F']
(R' F R F') (R' F R F') (R U R' U') (R U R')

A4 - 42 - Probability = 1/54

r' U' R U' R' U² r

L2 - 8 - Probability = 1/54

[F (R U R' U') F'] U [F (R U R' U') F']

L4 - 12 - Probability = 1/54

R' [F (R U R' U') F'] U R

L6 - 40 - Probability = 1/54

(R U R' U') (R' F R F')

T2 - 33 - Probability = 1/54

(R U R² U') (R' F) (R U) (R U') F'
(R U R' U') x D' R' U R U' D x'

C2 - 34 - Probability = 1/54

(R U R' U) R d' R U' R' F'
R' U' R U' R' d R' U R B

I2 - 52 - Probability = 1/54

f (R U R' U') (R U R' U') f'

I4 - 51 - Probability = 1/54

(l' U' l) (L' U' L U) (l' U l)

K2 - 15 - Probability = 1/54

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

K4 - 14 - Probability = 1/54

[F (R U R' U') F'] [f (R U R' U') f']

O2 - 2 - Probability = 1/54

[f (R U R' U') f'] U [F (R U R' U') F']

O4 - 4 - Probability = 1/54

M U (R U R' U') M' (R' F R F')

O6 - 19 - Probability = 1/54

M U (R U R' U') M² (U R U' r')

O8 - 20 - Probability = 1/216

For great speedsolving video tutorials, visit -
<http://www.badmephisto.com> or
<http://www.youtube.com/user/badmephisto>

For more printable guides just like this,
visit - <http://www.kungfoomanchu.com>