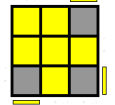


Anthony Brooks' Orient Last Layer Guide

Arranged by Andy Klise

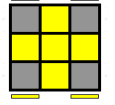
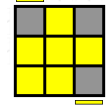
Green = R U R' U' Family Blue = R U R' U R U² R' Family Orange = R' F R F' Family

All Edges Oriented Correctly



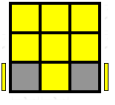
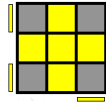
(R' U' R U' R' U² R)
OCLL6 - 26 - Probability = 1/54

(R U R' U R U² R')
OCLL7 - 27 - Probability = 1/54



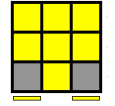
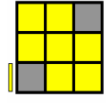
(R U² R')(U' R U R')(U' R U' R')
OCLL1 - 21 - Probability = 1/108

R U² R² U' R² U' R² U² R
OCLL2 - 22 - Probability = 1/54



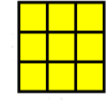
R' U' R' D' R U R' D R²
OCLL4 - 24 - Probability = 1/54

R² D' R U' R' D R U R
OCLL5 - 25 - Probability = 1/54

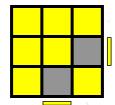


R U R' U R U² R² U' R U' R' U² R
OCLL3 - 23 - Probability = 1/54

Solved
OCLL8 - 58 - Probability = 1/216

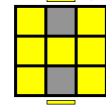


Corners Correct, Edges Flipped

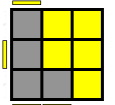


(r U R' U') M (U R U' R')
E1 - 28 - Probability = 1/54

(R U R' U') M' (U R U' R')
E2 - 57 - Probability = 1/108

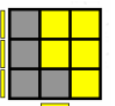
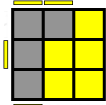


P-Shapes



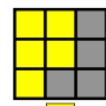
(R' U' F)(U R U' R') F' R
P1 - 31 - Probability = 1/54

R U B' (U' R' U R) B R'
P2 - 32 - Probability = 1/54

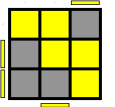


F' (U' L' U L) F
P3 - 43 - Probability = 1/54

F (U R U' R') F'
P4 - 44 - Probability = 1/54

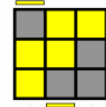


W-Shapes

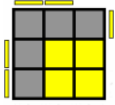


L' U' L U' L' U L U (L F' L' F)
W1 - 36 - Probability = 1/54

(R U R' U)(R U' R' U')(R' F R F')
W2 - 38 - Probability = 1/54

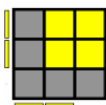


Squares

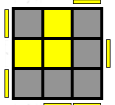


(r' U² R U R' U r)
S1 - 5 - Probability = 1/54

(r U² R' U' R U' r')
S2 - 6 - Probability = 1/54

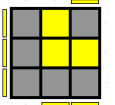
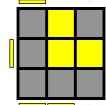


L Shapes



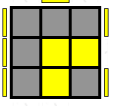
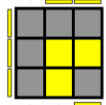
F (R U R' U')(R U R' U') F'
L2 - 48 - Probability = 1/54

R' U' (R' F R F')(R' F R F') U R
L1 - 47 - Probability = 1/54



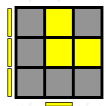
r U' r² U' r² U' r² U' r
L3 - 49 - Probability = 1/54

r' U r² U' r² U' r² U' r'
L4 - 50 - Probability = 1/54

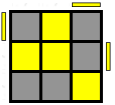


r' U' R U' (R' U R U') R' U² r
L5 - 53 - Probability = 1/54

r U R' U (R U' R' U) R U² r'
L6 - 54 - Probability = 1/54

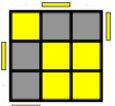
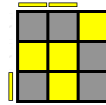


Fish Shapes



(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)
F2 - 10 - Probability = 1/54

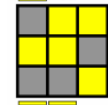


(R U²')(R² F R F')(R U² R')
F3 - 35 - Probability = 1/54

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

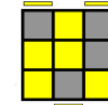
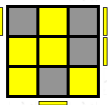


Awkward Shapes



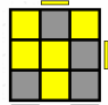
(R U R' U')(R U' R' F') U' (F R U R')
A1 - 29 - Probability = 1/54

F U R U² R' U' R U² R' U' F'
A2 - 30 - Probability = 1/54

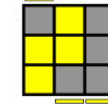


(R U R' U R U² R') F (R U R' U') F'
A3 - 41 - Probability = 1/54

(R' U' R U' R' U² R) F (R U R' U') F'
A4 - 42 - Probability = 1/54

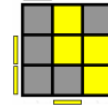
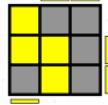


Lightning Bolts



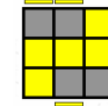
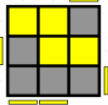
(r U R' U R U² r')
B1 - 7 - Probability = 1/54

(r' U' R U' R' U² r)
B2 - 8 - Probability = 1/54



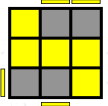
I' U' L U' L' U² x' U' R U' R' U² R
B3 - 11 - Probability = 1/54

r R² U' R U' R' U² R U' r' R
B4 - 12 - Probability = 1/54

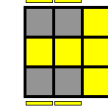


(L F')(L' U' L U) F U' L'
B5 - 39 - Probability = 1/54

(R' F)(R U R' U') F' U R
B6 - 40 - Probability = 1/54

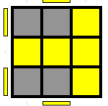


T-Shapes

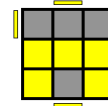


(R U R' U')(R' F R F')
T1 - 33 - Probability = 1/54

F (R U R' U') F'
T2 - 45 - Probability = 1/54

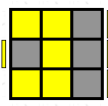


C-Shapes



R U R² U' R' F R U R' U' F'
C1 - 34 - Probability = 1/54

R' U' (R' F R F') U R
C2 - 46 - Probability = 1/54

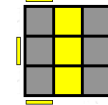
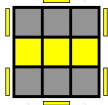


I Shapes



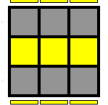
F (U R U' R')(U R U' R') F'
I1 - 51 - Probability = 1/54

r' U' (r' U' R' U)(R U' R' U)(R r') U r
I4 - 56 - Probability = 1/108

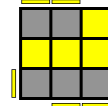


R U R' U R U' y R U' R' F'
I2 - 52 - Probability = 1/54

R' F R U R U' R² F' R² U' R' U R U R'
I3 - 55 - Probability = 1/108

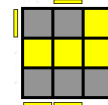
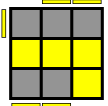


Knight Move Shapes



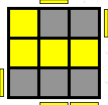
I U' I' U' I U R' U' F U
K1 - 13 - Probability = 1/54

(R' F R)(U R' F' R) (F U' F')
K2 - 14 - Probability = 1/54

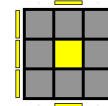


(r U r')(R U R' U')(r U' r')
K4 - 16 - Probability = 1/54

R' F' R (L' U' L U) R' F' R
y² (r' U' r)(R' U' R U)(r' U r)
K3 - 15 - Probability = 1/54

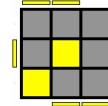
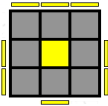


No Edges Flipped Correctly



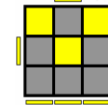
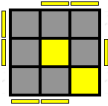
(R U²')(R² F R F') U² (R' F R F')
O1 - 1 - Probability = 1/108

r U r' U² R U² R' U² r U' r'
O2 - 2 - Probability = 1/54



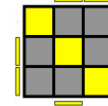
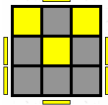
r' R² U R' U' r U² r' U M'
O3 - 3 - Probability = 1/54

I L² U' L U' R' F² R U' M'
O4 - 4 - Probability = 1/54



(r U R' U R U² (r²) U' R U' R' U² r)
y R U² (R² F R F') U² M' U (R U' r')

M U (R U R' U') M' (R' F R F')
O7 - 19 - Probability = 1/54



(R U R' U)(R' F R F') U² (R' F R F')
O5 - 17 - Probability = 1/54

M U (R U R' U') M² (U R U' r')
O8 - 20 - Probability = 1/216

