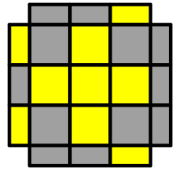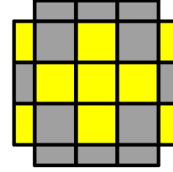# 3x3 Rubik's Cube OLL algorithms
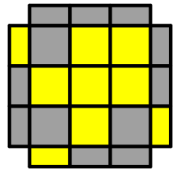
Orient corners
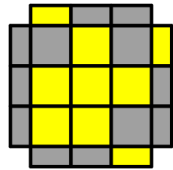
R U2' R2' U' R2 U' R2' U2' R

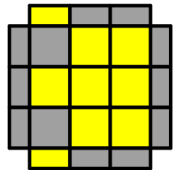**R U R' U R U' R' U R U2' R'**

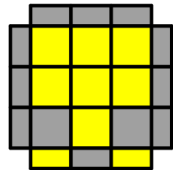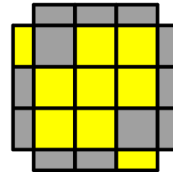**R U2' R' U' R U' R'**
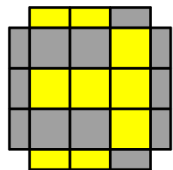
R U R' U R U2' R'

r U R' U' r' F R F'
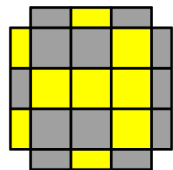
R2 D R' U2 R D' R' U2 R'
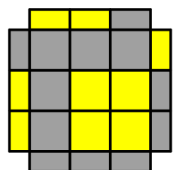
F' r U R' U' r' F R
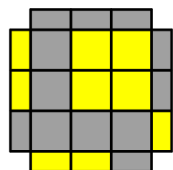
T shapes

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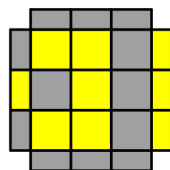
F R U R' U' F'

Square shapes

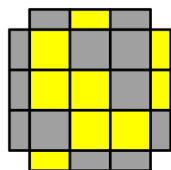**r' U2' R U R' U r**

r U2 R' U' R U' r'

C shapes
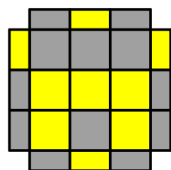
R U R2′ U′ R′ F R U R U′ F′

R′ U′ R′ F R F′ U R

W shapes

R′ U′ R U′ R′ U R U l U′ R′ U x
y2 R U R′ F′ R U R′ U′ R′ F R U′ R′ F R F′
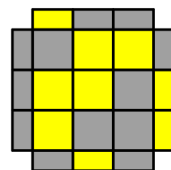
R U R′ U R U′ R′ U′ R′ F R F′

Ship and H shapes
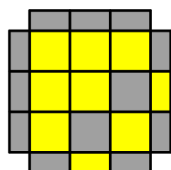
r U R′ U′ M U R U′ R′
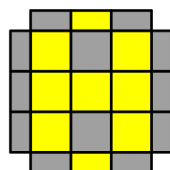
R U R′ U′ M′ U R U′ r′

P shapes
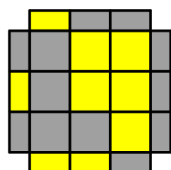
R′ U′ F U R U′ R′ F′ R
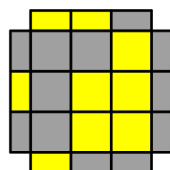
R U B′ U′ R′ U R B R′
S R U R′ U′ R′ F R f′
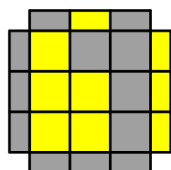
y R′ U′ F′ U F R
f′ L′ U′ L U f
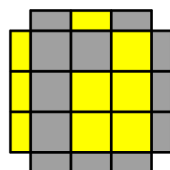
f R U R′ U′ f′
y2 F U R U′ R′ F′

I shapes
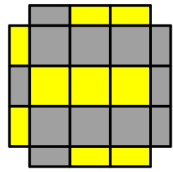
f R U R' U' R U R' U' f'
y2 F U R U' R' U R U' R' F'

r' U' r U' R' U R U' R' U R r' U r

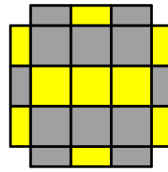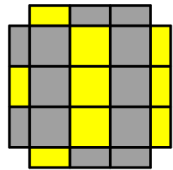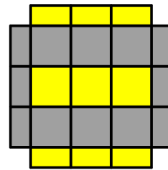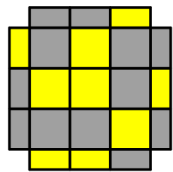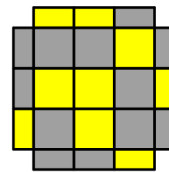**R' U' R U' R' U y' R' U R B**
R U R' U R U' y R U' R' F'

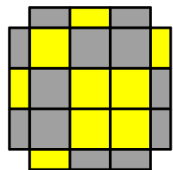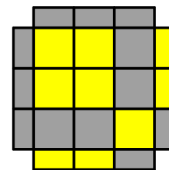**R' F R U R U' R2' F' R2 U' R' U R U R'**

Fish shapes

R U R' U' R' F R2 U R' U' F'
R' U' R y r U' r' U r U r'
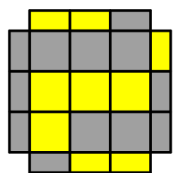
R U R' U R' F R F' R U2' R'
R U R' y R' F R U' R' F' R
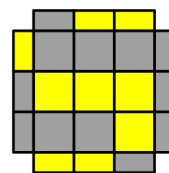
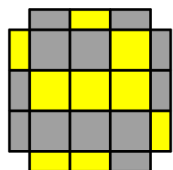**R U2' R2' F R F' R U2' R'**

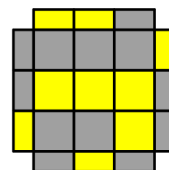**F R U' R' U' R U R' F'**

Large L shapes

r U' r' U' r U r' y' R' U R
F U R U' R2' F' R U R U' R'
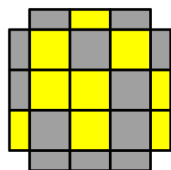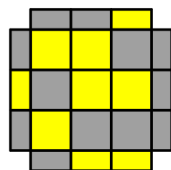
R' F R U R' F' R F U' F'
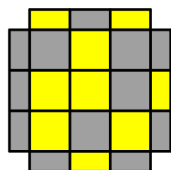
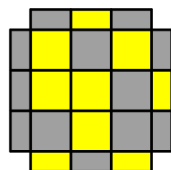**r U r' R U R' U' r U' r'**

r' U' r R' U' R U r' U r

Chair shapes

y R U R′ U′ R U′ R′ F′ U′ F R U R′
M U R U R′ U′ R′ F R F′ M′

y′ F U R U2 R′ U′ R U2 R′ U′ F′
y′ F R′ F R2 U′ R′ U′ R U R′ F2

R U R′ U R U2′ R′ F R U R′ U′ F′

R′ U′ R U′ R′ U2 R F R U R′ U′ F′
y R′ F R F′ R′ F R F′ R U R′ U′ R U R′

Small L shapes
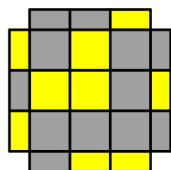
F R U R′ U′ R U R′ U′ F′
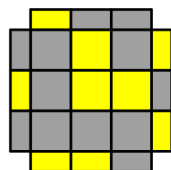
F′ L′ U′ L U L′ U′ L U F
R′ U′ R′ F R F′ R′ F R F′ U R
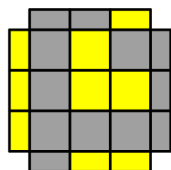
r U′ r2′ U r2 U r2′ U′ r
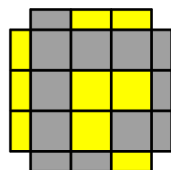
r′ U r2 U′ r2′ U′ r2 U r′
y′ R U2 R′ U′ R U′ R′ F R U R′ U′ F′
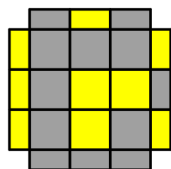
r′ U′ R U′ R′ U R U′ R′ U2 r
y r′ U2′ R U R′ U′ R U R′ U r
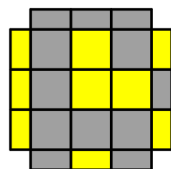
r U R′ U R U′ R′ U R U2′ r′
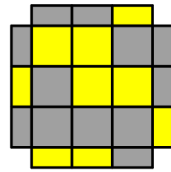y′ r U2 R′ U′ R U R′ U′ R U′ r′
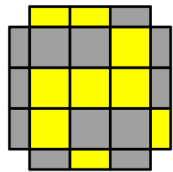
Z shapes
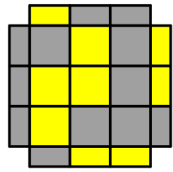
r U R' U R U2' r'
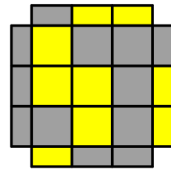
r' U' R U' R' U2 r
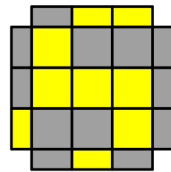y2 l' U' L U' L' U2 l
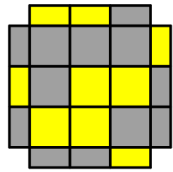
r' R2 U R' U R U2 R' U M'

M' R' U' R U' R' U2 R U' M
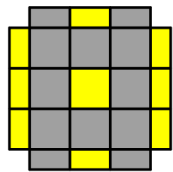y F R U R' U' F' U F R U R' U' F'

L F' L' U' L U F U' L'
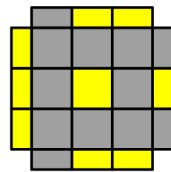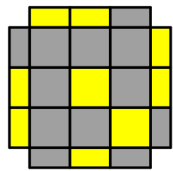F R U R' U' F' R' U' R U' R' U2 R
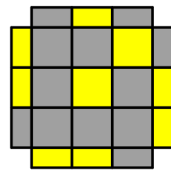
R' F R U R' U' F' U R

Point shapes

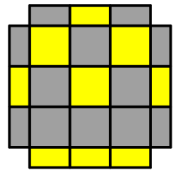**R U2' R2' F R F' U2' R' F R F'**

F R U R' U' F' f R U R' U' f'
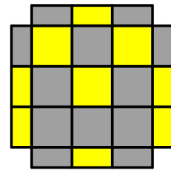y r U r' U2 R U2' R' U2 r U' r'
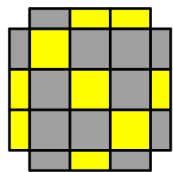
f R U R' U' f' U' F R U R' U' F'
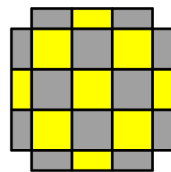
f R U R' U' f' U F R U R' U' F'

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

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

R U R' U R' F R F' U2' R' F R F'

M U R U R' U' M2' U R U' r'
r U R' U' M2' U R U' R' U' M'