2x2 EG

Intermediate

2x2 EG Methods (Erik-Gunnar)

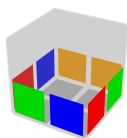Algs from Chris Olson http://cyotheking.com, Will Callan http://bit.ly/2lQXlxe, Jack Pan http://bit.ly/2nCwwyc

Face → **EG** → **AUF**
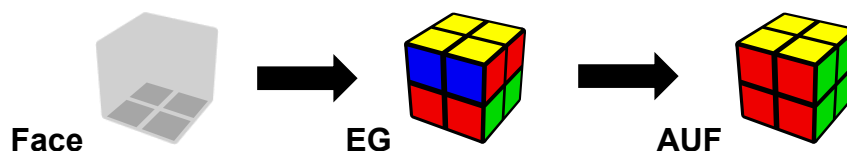
Intermediate
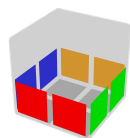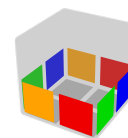
CLL　　　**EG1**　　　**EG2**

Advanced
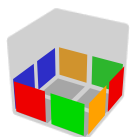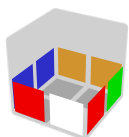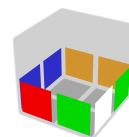
LEG　　　**TCLL+**　　　**TCLL-**

Supplement

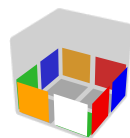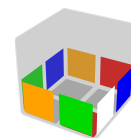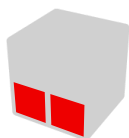**LS1**　　**LS2**　　**LS3**　　**TEG2+**　　**TEG2-**

Special finger trick: In F' U', use right index to execute F'.

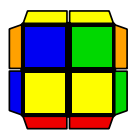## Predict D Layer

Matched Color Side　　**Opposite Color Side**

2 matched color side => CLL; 2 opposite color side => EG2; Other cases => EG1, and the opposite side of opposite color side is matched color side.
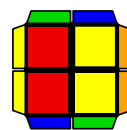
Predict AUF (Adjust U Face)

After doing alg, U layer will follow the image below (exceptions exist), then AUF can be recognized by comparing U layer to D layer.
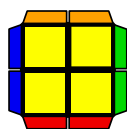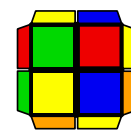
Examples

R' U' R2 U R' U2 R U2' R' U R'
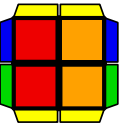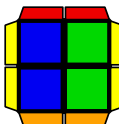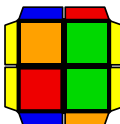Pick FUR sticker as AUF sticker.
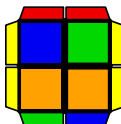After doing alg, it will be front.
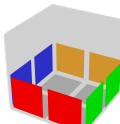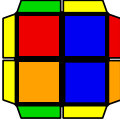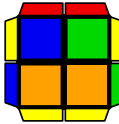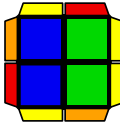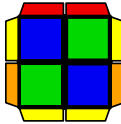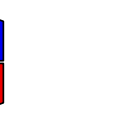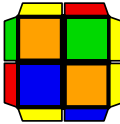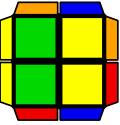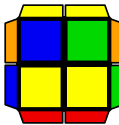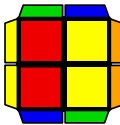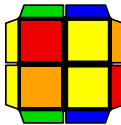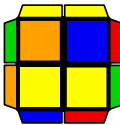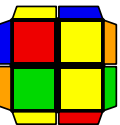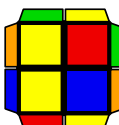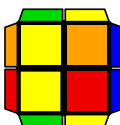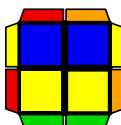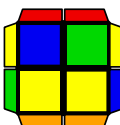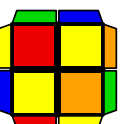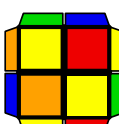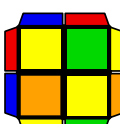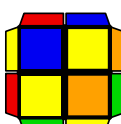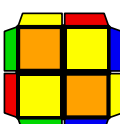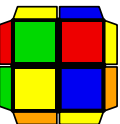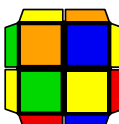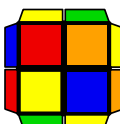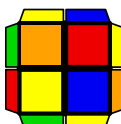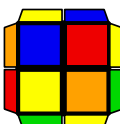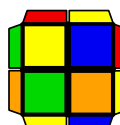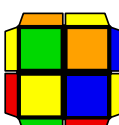
R U2 R U' R' F R' F2 U' F
Pick UFL sticker as AUF sticker.
After doing alg, it will be front.
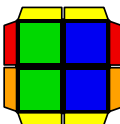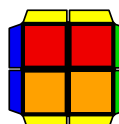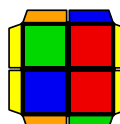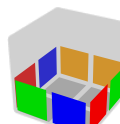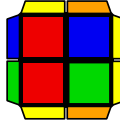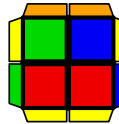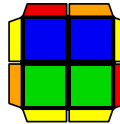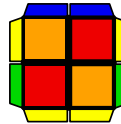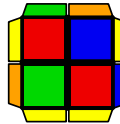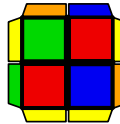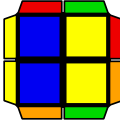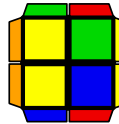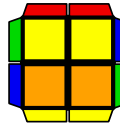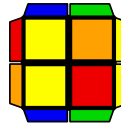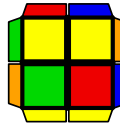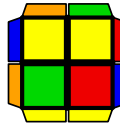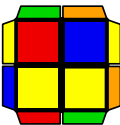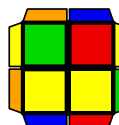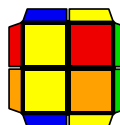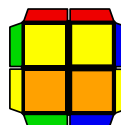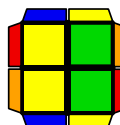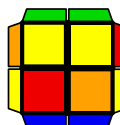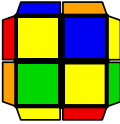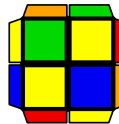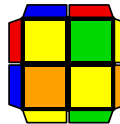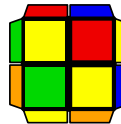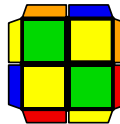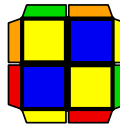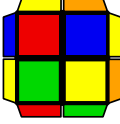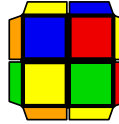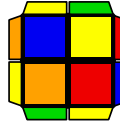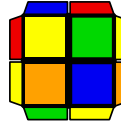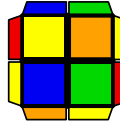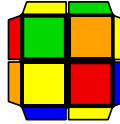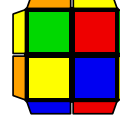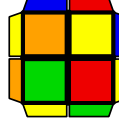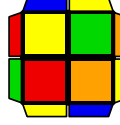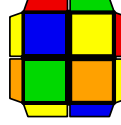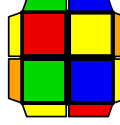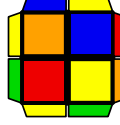
R U R' U R U2' R'
Pick FUL sticker as AUF sticker.
After doing alg, it will be back.

$\sqrt[3]{}$ CubeR oot

2x2 CLL Algorithms

| | 1 | 2 | 3 | 4 | 5 | 6 |

H (column 1)
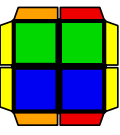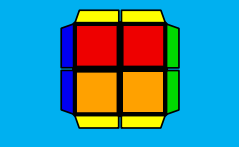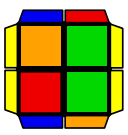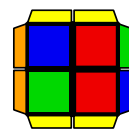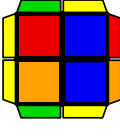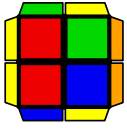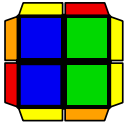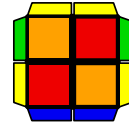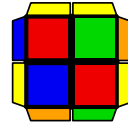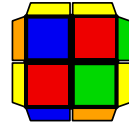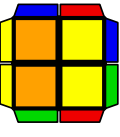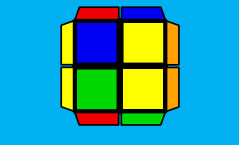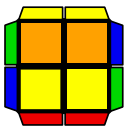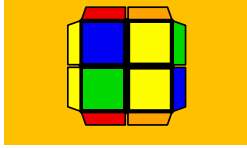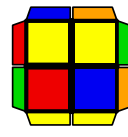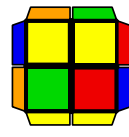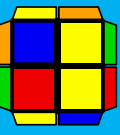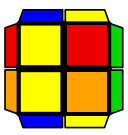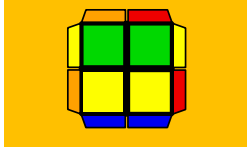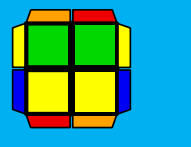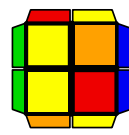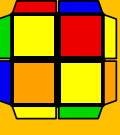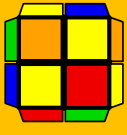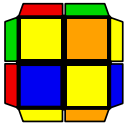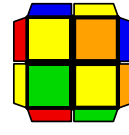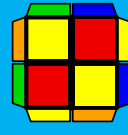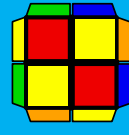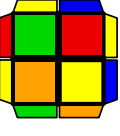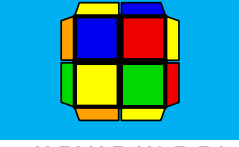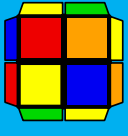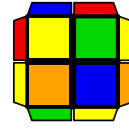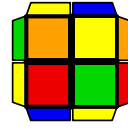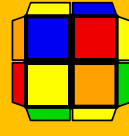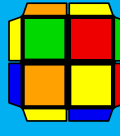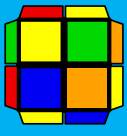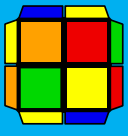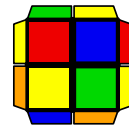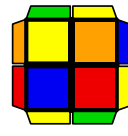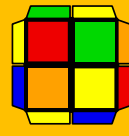
<u>R2 U2 R U2' R2'</u>
R2 U2' R' U2 R2

(column 2)
R U' R' (F R' F' R2 U' R') (F R' F' R)
(R' F R F') (R U R2' F R F') R U R'

(column 3)
(R U R' U R U R')
(F R' F' R)
U2 (L' U' L U' L' U' L)
(F' R U R')

(column 4)
F (R2 U' R2' U')
(R2 U R2') F'
U2 (F R' F' R) U' (R U' R' U) (R' F R F')

(column 5)
Mirror. <u>Start thumb from back</u>, right (left) thumb and midfinger always pinch the initial DR (DL) piece *.

Pi

(column 1)
R U' R2' U R2 U R2' U' R
R' U R2 U' R2' U' R2 U R'
F (R U R' U')2 F'

(column 2)
R' U' (R' F R F')
(R U' R' U2 R)

(column 3)
(R' F R F') (R U' R' U') R U R'
U2 (R U' R' F) (L' U L U) L' U L

(column 4)
(R U' R U') (R' U R' F)
R2 F'
(F R' F' R) (R U R' U) (R' F R F')
U2 F (R2 U' R2' U) (R2 U R2' F')

(column 5)
(R U2' R' U') (R U R' U2') (R' F R F') R' F2 R

(column 6)
(L' U2 L U) (L' U' L U2) (R U R' F)
U' (F R' F' R) U2 (R U' R' U) R U2' R'

U

(column 1)
F (R U R' U') F'
R' U' (F R' F' R) U R U2 F (U R U' R') F'
U2 R' U' (R' F R F') U R

(column 2)
(R' U' R2 U) (R' U2 R U2') R' U R'
U' (R' F R F')2 (R U R' U') R U R'
U2 R2' F2 (R U R F) (U' R U R2)

(column 3)
(R U2 R U' R' F) R' F2 U' F
U' (F R U R' U2 F') (R U R' F)
z' U2 R' U' (R2 U' R' U') R U' R'

(column 4)
(F R' F' R) U' (R U R' U2) R U' R'
U2 (F' R U R') U (L' U L U2) L' U L
U2 (R U R' U) (R U R U') (R' F R F')

(column 5)
(R U' R2' F R F')
(R U R' U') R U R'
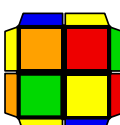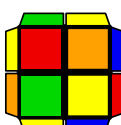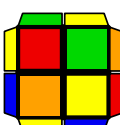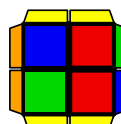
(column 6)
(R' F R2 U' R' F)
(R' F' R U) R' F' R

T

(column 1)
(R U R' U') (R' F R F')
U2 (F' L' F L')
(U' L U L)

(column 2)
(L' U' L U) (R U' R' F)
U2 (F R F' R)
(U R U' R')
U2 F R F' (U' R' U' R)

(column 3)
(R U2' R2' F R F')
(R U' R' U) R U2' R'
U2 (L' U2 L2 F' L' F)
(L' U L U') L' U2 L
U' F U' (R U2 R' U')
(F2 R U R')

(column 4)
(R U R' U) (R U' R')
(F R' F' R)2
U2 (R U' R' U2') (R U R' U) R2 U' R'
(R' U R U2') (R2' F' R U') R' F2 R2

(column 5)
(R U R' U2') (R U R' U) (R' F R F')
U2 (L' U' L U2) (L' U' L U') (R U' R' F)
U F (R U R' U') (R U R' U') (R U R' F')
U' (R U2' R' U)2 (R' F R F')

(column 6)
(R' U R U2')
(R2' F R F' R)
(L U L' U2)
(L2 F' L' F L')
U' (R U2 R' U') R2 U' R' F R' F'

L

(column 1)
F' (R U R' U') R' F R
U' F (R U' R' U')
(R U R' F')
U2 (R U R U')
(R' F R F')

(column 2)
(F R' F' R) (U R U' R')
U2 (L' U' L' U)
(L F' L F)

(column 3)
(R U2' R2' F R F')
R U2' R'
U2 (L' U2 L2 F' L' F)
L' U2 L
U' R U2' R' (F R' F' R2 U2' R')

(column 4)
R2' U' (R U2' R' U2)
R U' R2'
(R' U R' U2') (R U R' U) R U' R2
U (R2 U R' U2)
(R U2' R' U R2)

(column 5)
(R U' R' U) (R U' R')
(F R' F' R2 U R')
U (R U R' U') (R' F R2 U R' F') (U' R' U' R)
U' L F' (L' U' L U) (L F' L2 U L U2 L')

(column 6)
R' F' (R U R' U') (R' F R2 U' R' U2 R)
U (R U R2' F') (R U R' U') (R2 F' R F)
U' (L' U L U') (L' U L)
(F' L F L2' U' L)

S

(column 1)
R U R' U R U2' R'
U' R' U2' R U R' U R

(column 2)
R' F R2 F' U' R' U'
R2 U R' *

(column 3)
(F R' F' R)
(U2 R U2' R')

(column 4)
R U' R' (F R' F' R)

(column 5)
(R' F' R2 U R' F')
(R' F R2 U' R')

(column 6)
(L' U2 L U2)
(R U' R' F)

AS

(column 1)
R' U' R U' R' U2 R
U R U2' R' U' R U' R'

(column 2)
L F' L2 F U L U
L2 U' L *

(column 3)
(F' R U R')
(U2' L' U2 L)

(column 4)
(R' F R F') R U R'

(column 5)
(R U R2' F' R F)
(R U' R2' F R)

(column 6)
(R U2' R' U2)
(R' F R F')

$\sqrt[3]{}$ CubeR oot

2x2 EG1 Algorithms

	1	2	3	4	5	6

H

R' F (R2 U' R2' U') F U R

F' U (R U' R2' F2) R U' F

(R' U' R' F2) U F' R F'
U2 (L U L F2) U' F L' F
U (R' F R F') U2
(F R U2' R' F)

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

[R] denotes putting D-bar in DR. Mirror.

Pi

R2 B2 (R' U R' U') (R U2 R' U' R2') F2 (R U R' U2') (R U R' U' F)

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

F R' F U' (F2 R U R)

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

(R U R' U) (R U' R2' F' R) (F R' F' R)
U2 F U' (R U2 R' F') (R U R' F')
U (R U' R2' F R U) (R U' R' U') (R' F R F')

(R' F R F') (R' F R2 U R' U') R U' R'
U F (R U' R' F) (R U2' R' U) F'

U

(R U' R2' F) (R2 U R' U') R U' R'
(L' U L2 F') (L2' U' L U) L' U L
(R U R' U) (R U R2' F R2 U' R')

(R U' R' U) (R U' R' F) (R U2' R') (F R' F' R)
U2 (R' F R U') (R' F R F') (R' F2 R F') R U R'
[R] U2 (R' U R' U') (R U' R' U') F2 R2

(R U' R2' F2 R F') (U R U R')
U2 F' U2 (R U2' R' U2) F

(R' F R F') (R' F R2 U' R')
U2 (R U' R' F) (R U' R2 F R)

(R U' R' U) (R U' R' U') (F R U' R')
(L F' L2 U L) (D' L' U' L)

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

T

F (R U' R2' F' R U) R' F' R
U' (R U' R2' F) (R2 U R' U2) (R' F R F')

F' (R' F R2 U R' U') R U R'
U (R U' R' U2) (R U2' R' F) R U' R'

(R U' R2' F) (R U R U2' R')
U2 (R' F R2 U' R' U') R' F2 R

(R U R2' F' R F R' F') (R2 U' R' F R F' R)
U R2 B2 U' (R' U' R U) R' U R'

(R U R2' F' R) (F R' F' R)
U2 (R' F' R2 U R') (F' R U R')

(R U' R' U2) (F R U2' R' F)
U (R U R' F)2 (U' R U' R')

L

(R U' R' U) (R U' R2' F' R F)
U (R U R' F') (R U2' R' U2) R U R'

(R' F R U') (R' F R2 U R' F')
U (R' F R F') (R' F R U) R U2' R'

R' U (R2 U' R2' U') (F R2 U' R')

(R' F R2 U R') (F' R U2' R')
U (R' F2 R F') (R' F R2 U R')

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

(R' F' R F) (R' F' R U) (F' R U R')
U R' U2' F (R U2 R' U' R2' F)

S

B' U L2 F2' U F'
U' (R U R' U) F R U' R2' F' R

(R U R') (F2 U F) (R U R')
U2 F (R2 U' R2' F) U' F2 U' R

(F R' F' R) U (R' F' R2 U R')
U (R' F R U2 R U') (R2' F2 R F')

F' (R' F R2 U R' U') (F R' F' R)
U' F' U (R U' R' U) (F R U R')

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

(R' F R2 U' R' U) (R U' R' F)

AS

B U' R2' F2 U' F
U2 R' F (R2 U R' F') (U' R U' R')

(R U' R' F' U') (F2 R U' R')
U' R U' (F2 R U2 R U' B)

F' (R U R' U')
(R U R2' F' R)

F (R U' R2' F' R U)
(F' R U R')
U' (R U' R' F' U')
(R U R' U' F)

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

(R U' R2' F R U') (R' F R F')

³√ CubeR oot

2x2 EG2 Algorithms

	1	2	3	4	5	6

H
1. **(R2' F U2' F2) R2 F' R2'**
2. **R2 U2 R U2' B2 R2'**
3. **(R' U' R U2' R2' F' R) U' F R**
4. **R U2' B2 (R' U R U') B R'**

5/6. Anti-CLL [12] (cancelling into R2 B2 R2', etc.), R2 B2 R2', etc. [6] (cancelling into CLL). Start thumb from back.

Pi
1. F U' (R U2 R U') (R' U R' F')
2. (R' U2' R2 U' R') F2 R2 F'
3. R' F' U (R' F R2 U2' R' U R)
4. (R' F U' R U R') F2 U2' R
5. (L U2' L' U) (L2 F2' L' F' L') (R' U' R' F2 R2 U) R') F2 R
6. (R' U2 R U') (R2' F2 R F R)

U
1. (R' U R' F U') (R U' R' U2' R2)
2. (F R U R' U' F) R2 B2
3. (R U R' U' R) B2 (R' U R U' R')
4. (R2' F2 R U R U2') (R2' F R F' R)
5. (R U' R' U2) (L U L' U2') R U' R'
6. (L' U L U2') (R' U' R U2) L' U L

T
1. (F R F' R U R' U') R B2 R2'
2. (R U R' U' R' F R F') R2 B2 R2'
3. (R' U R' F) (U' R U R2) U' (R' U R' F) (R2 U2' R' U' R)
4. R2' F2 (R U' F R' F' R U R) U2 R2 B2 R2' (F R U R' U' F')
5. (R' U R U2' R2' F R F') R' F2 R2 U (R' F2 R U') (R' U R' F R U' R)
6. (R' U2 R' F2 R) F2 R

L
1. R2 B2 R2' F (R' F' R U R U' R')
2. R2 B2 R2' (F' R U R' U' R' F R)
3. R' U' F2 (R U2 R' U2') F R
4. R' U' (R U R' F') (R U R' U') R' F' R2
5. (F R' F' R U R U') R B2 R2'
6. (F' R U R' U' R' F) R' F2 R2

S
1. F U' (R2 U' R' U2) (R U' R2' F')
2. R U R' U R U2 R B2 R2' U' R' U2 R U R' U R' F2 R2
3. (R U' R' F R' F') R' F2 R2
4. F (R2 F' R2' F') R U' R
5. (L U L' U L U) (L F2' L' F L') (R' F R' F2) (R U R U R' U R)
6. R2 B2 (R' U' R' F) R' F' R

AS
1. (R' U R U') (R2' F R F') (R U R' U') R' F2 R2
2. R' U' R U' R' U2 R' F2 R2 U' R U2 R' U' R U' R B2 R2
3. (R' F R F') (R U R B2 R2')
4. (R' U R' F) (R2 F R2' F')
5. (R' U' R U' R' U') (R' F2 R F' R)
6. R2' F2 R (F R F' R U R')