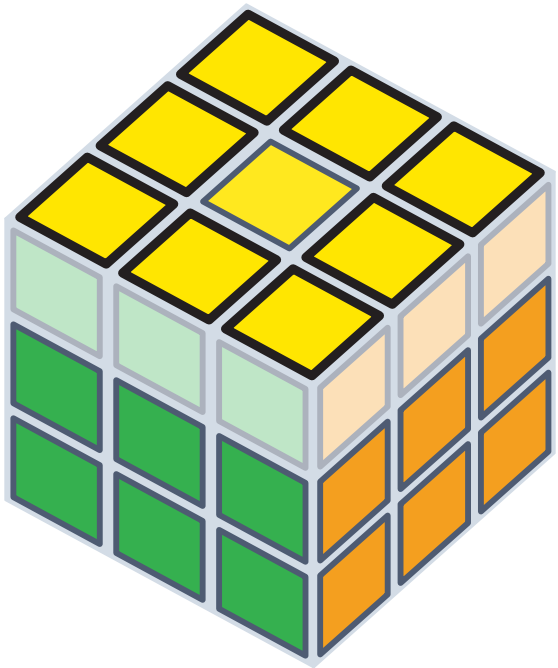
LEVEL 0 STORE

OLL ALL 57 CASES

ORIENTATION OF THE LAST LAYER · ALL 57 CASES · + 2-LOOK OLL



PRINTABLE GUIDE TO THE VIDEO SERIES

Start with 2-LOOK OLL (10 algorithms) and move on to the 57 cases when you want to do it in one go. The cases are grouped by the shape the yellow makes on top (crosses, dots, lines, Ts, Zs…) so you can recognise them at a glance. Each page shows the same scenes as its video: the case with its diagram, the cube before each move with its card, and the finished yellow face. White cross on the bottom · green in front · orange on the right · first two layers already solved.

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HOW TO READ THIS GUIDE

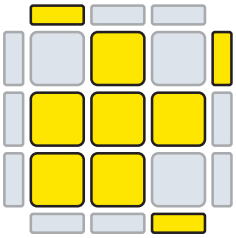
WHAT OLL IS

The third step of CFOP: with the first two layers solved, OLL turns ALL the yellow stickers to face up (orientation). It doesn't matter whether the pieces are in their places: that's PLL, the next step. Hold the cube with the white cross on the BOTTOM, green in front and orange on the right.

THE COLOURS ARE AN EXAMPLE

In OLL only the yellow counts: the side colours don't matter. Green in front and orange on the right in the drawings are an example; you can have any side face in front.

RECOGNISING THE CASE: THE DIAGRAM



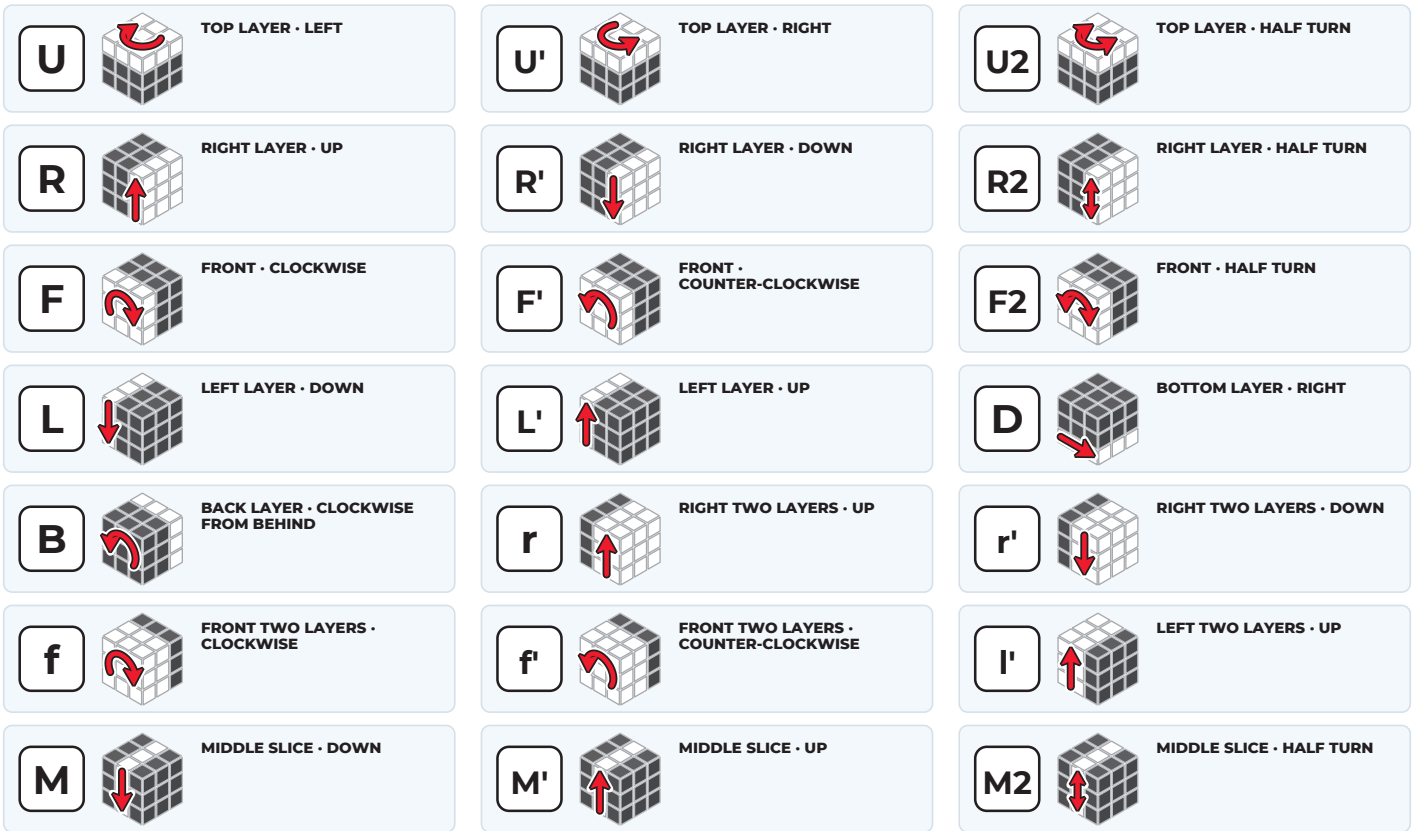
The last layer seen from above: yellow squares already face up; the bars around the edge show where the yellow is on the pieces that don't yet. Turn the top layer (U) until your cube matches the diagram and do the algorithm without rotating the cube. Dashed outline: corners that don't matter (2-look only).

STICKER BRIGHTNESS

The yellow stickers of the last layer are in full colour with a black outline; the other stickers of that layer are heavily faded (their colour doesn't count); the first two layers in normal colour.

NOTATION AND ARROWS

Each move: the letter, a small cube with the turning layer in white, and the red arrow showing the direction. Apostrophe (') = opposite turn; 2 = half turn; lower case (r, f, l) = two layers at once; M = the middle layer, which follows L.



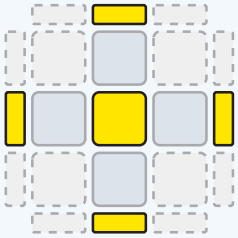
2-LOOK OLL · START HERE

10 ALGORITHMS INSTEAD OF 57

Before learning the 57 cases, solve OLL in two looks: STEP 1 orients the edges (make the yellow cross; the corners don't matter) with three algorithms, and STEP 2 orients the corners with the seven cross cases (1–7). It's slower than full OLL, but with ten algorithms you can already solve any case.

STEP 1 · EDGES · THE YELLOW CROSS

p.4



DOT

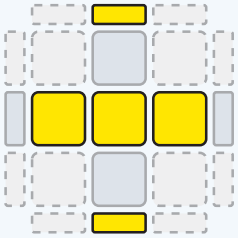
EDGES · DOT · CORNERS DON'T MATTER

F (R U R' U') F'

f (R U R' U') f'

video · rubik-oll-2look-punto

p.5



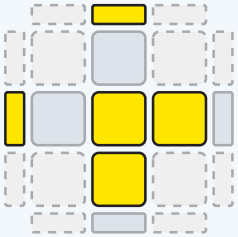
LINE

EDGES · LINE · CORNERS DON'T MATTER

F (R U R' U') F'

video · rubik-oll-2look-linea

p.6



L

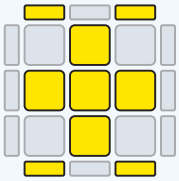
EDGES · L SHAPE · CORNERS DON'T MATTER

f (R U R' U') f'

video · rubik-oll-2look-ele

Dot = no yellow edge on top (both algorithms in a row) · Line = two opposite edges · L = two adjacent edges. Turn U until your cube matches the diagram and ignore the corners.

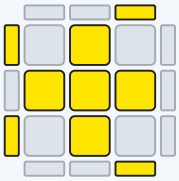
STEP 2 · CORNERS · THE SEVEN CROSS CASES 1–7 (OLL 21–27)



1 H

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

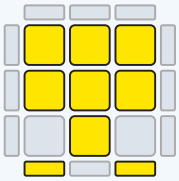
OLL 21 p.10



2 PI

R U2 R2 U' R2 U' R2 U2 R

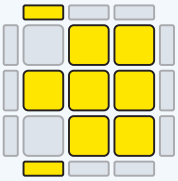
OLL 22 p.11



3 HEADLIGHTS

R2 D (R' U2 R) D' R' U2 R'

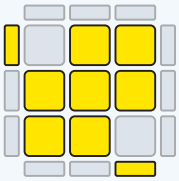
OLL 23 p.12



4 T

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

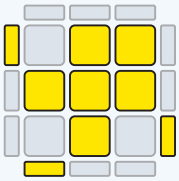
OLL 24 p.13



5 BOWTIE

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

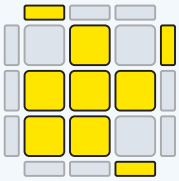
OLL 25 p.14



6 ANTI-SUNE

R U2 R' U' R U' R'

OLL 26 p.15



7 SUNE

R U R' U R U2 R'

OLL 27 p.16

With the cross done, turn U until the corners match one of these seven diagrams and do its algorithm. Sune and Anti-Sune (7, 6) have one corner done; H and Pi (1, 2) none; T, L and U (4, 5, 3) two.

OLL 2-LOOK

STEP 1 · EDGES

Video on YouTube
scan the QR
levelcero.com · drawings

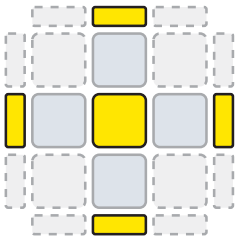
LEVEL 0

DOT

EDGES · DOT · CORNERS DON'T MATTER



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



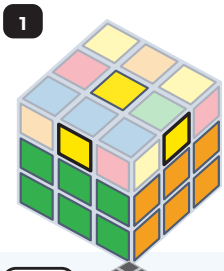
ALG F (R U R' U') F' f (R U R' U') f'

CASE



EDGES · DOT · CORNERS DON'T MATTER

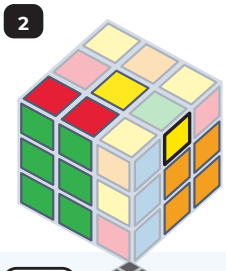
1



F

FRONT · CLOCKWISE

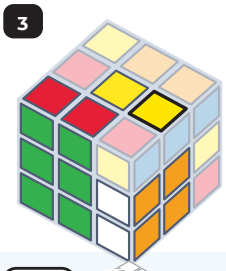
2



R

RIGHT LAYER · UP

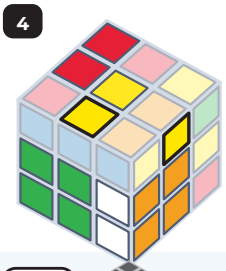
3



U

TOP LAYER · LEFT

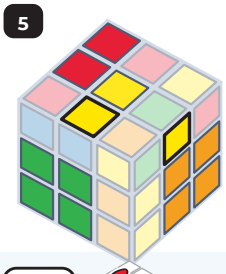
4



R'

RIGHT LAYER · DOWN

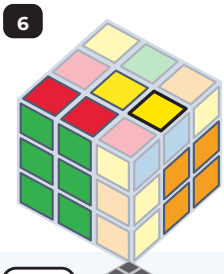
5



U'

TOP LAYER · RIGHT

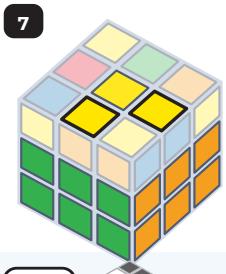
6



F'

FRONT · COUNTER-CLOCKWISE

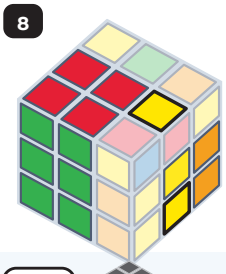
7



f

FRONT TWO LAYERS · CLOCKWISE

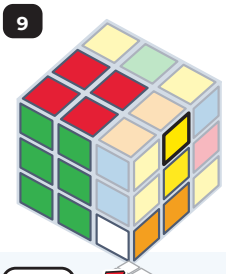
8



R

RIGHT LAYER · UP

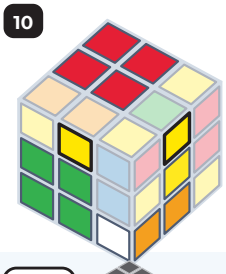
9



U

TOP LAYER · LEFT

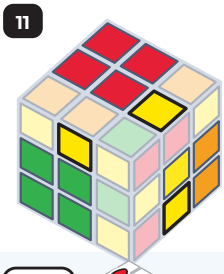
10



R'

RIGHT LAYER · DOWN

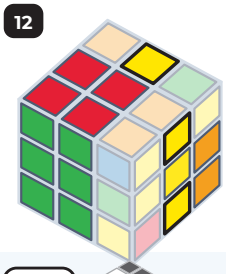
11



U'

TOP LAYER · RIGHT

12



f'

FRONT TWO LAYERS · COUNTER-CLOCKWISE

END



CROSS DONE

YELLOW CROSS · NOW STEP 2 (#7)

OLL 2-LOOK

STEP 1 · EDGES

Video on YouTube
scan the QR
levelcero.com · drawings

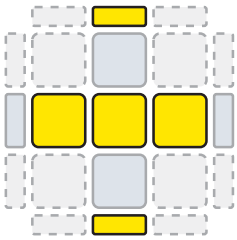
LEVEL 0

LINE

EDGES · LINE · CORNERS DON'T MATTER



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



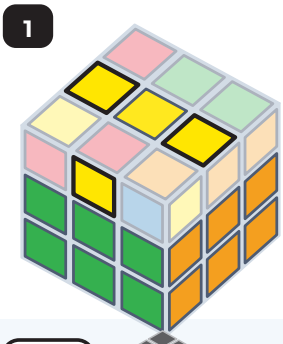
ALG F (R U R' U') F'

CASE



EDGES · LINE · CORNERS DON'T MATTER

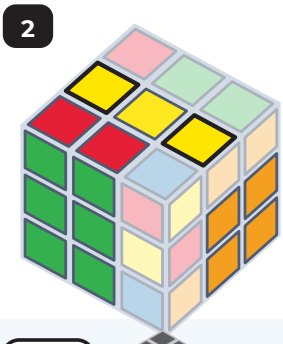
1



F 

FRONT · CLOCKWISE

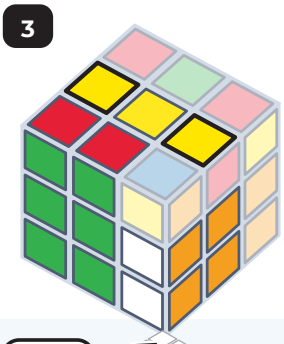
2



R 

RIGHT LAYER · UP

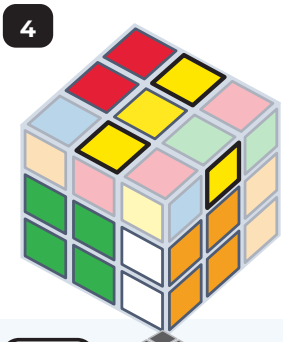
3



U 

TOP LAYER · LEFT

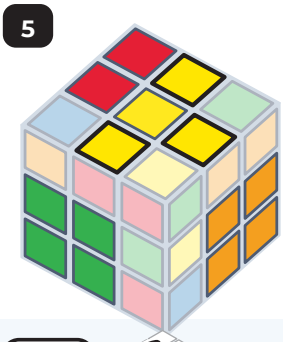
4



R' 

RIGHT LAYER · DOWN

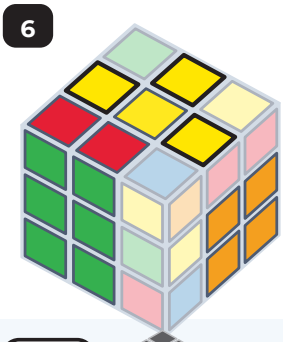
5



U' 

TOP LAYER · RIGHT

6



F' 

FRONT · COUNTER-CLOCKWISE

END



CROSS DONE

YELLOW CROSS · NOW STEP 2 (#6)

OLL 2-LOOK

STEP 1 · EDGES

Video on YouTube
scan the QR
levelcero.com · drawings

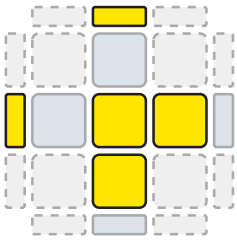
LEVEL 0

L

EDGES · L SHAPE · CORNERS DON'T MATTER



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



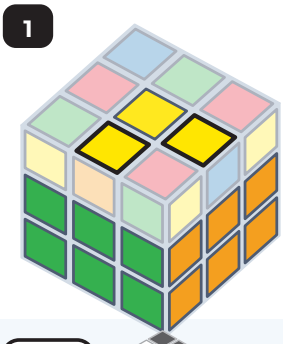
ALG f (R U R' U') f'

CASE



EDGES · L SHAPE · CORNERS DON'T MATTER

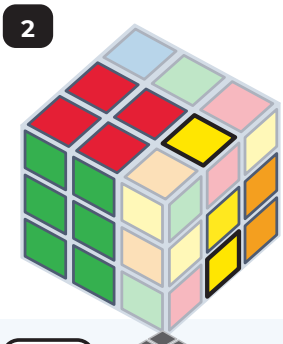
1



f 

FRONT TWO LAYERS · CLOCKWISE

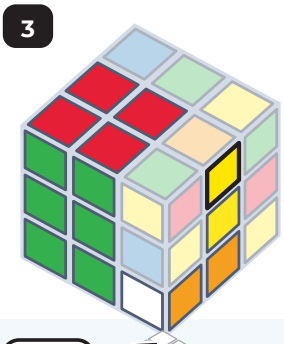
2



R 

RIGHT LAYER · UP

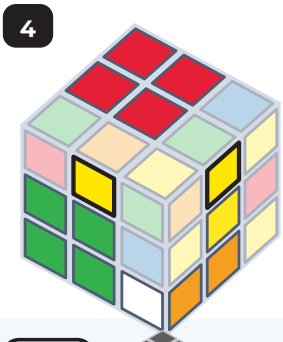
3



U 

TOP LAYER · LEFT

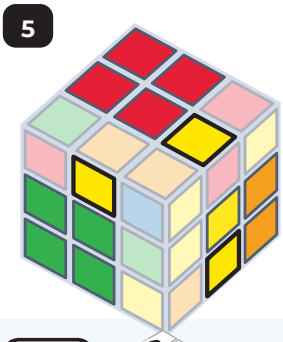
4



R' 

RIGHT LAYER · DOWN

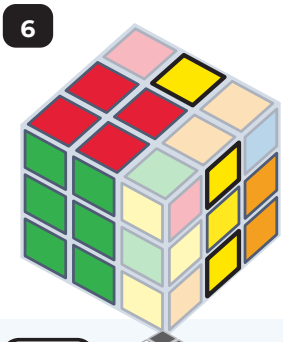
5



U' 

TOP LAYER · RIGHT

6



f' 

FRONT TWO LAYERS · COUNTER-CLOCKWISE

END



CROSS DONE

YELLOW CROSS · NOW STEP 2 (#1)

INDEX BY SHAPE

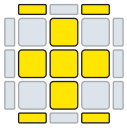
CROSSES … LINES · 1/3

The big number (1 to 57) is the order of this guide, the cheat sheet and the videos: the cases go by the shape of the yellow. The small one, "OLL 27", is the official OLL number every chart uses.

2-LOOK OLL ↑

CROSSES 7

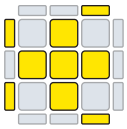
Yellow cross done, only the corners are left: the seven 2-look cases.



1 OLL 21 — **H** p.10

CROSS · 4 CORNERS TWISTED · H

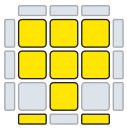
R U2 R' U' (R U R' U') R U' R'



2 OLL 22 — **PI** p.11

CROSS · 4 CORNERS TWISTED · PI

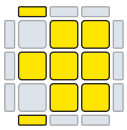
R U2 R2 U' R2 U' R2 U2 R



3 OLL 23 — **HEADLIGHTS** p.12

CROSS · 2 CORNERS · HEADLIGHTS

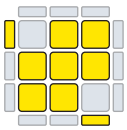
R2 D (R' U2 R) D' R' U2 R'



4 OLL 24 — **T** p.13

CROSS · 2 CORNERS · T

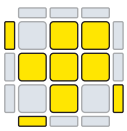
r U R' U' r' F R F'



5 OLL 25 — **BOWTIE** p.14

CROSS · 2 DIAGONAL CORNERS · BOWTIE

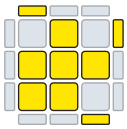
F' r U R' U' r' F R



6 OLL 26 — **ANTI-SUNE** p.15

3 CORNERS TWISTED · MIRROR OF SUNE

R U2 R' U' R U' R'



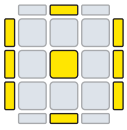
7 OLL 27 — **SUNE** p.16

3 CORNERS TWISTED

R U R' U R U2 R'

DOTS 8

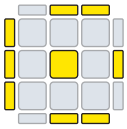
No edge up: only the yellow centre.



8 OLL 1 — **RUNWAY** p.17

DOT · 2 FULL SIDE BARS

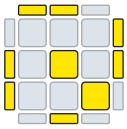
R U2 R2 F R F' U2 (R' F R F')



9 OLL 2 — **ZAMBONI** p.18

DOT · 1 FULL BAR

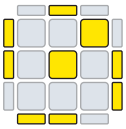
F (R U R' U') F' f (R U R' U') f'



10 OLL 3 — **DOT** p.19

DOT · 1 CORNER UP · MIRRORS 4

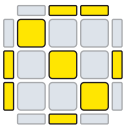
f (R U R' U') f' U' F (R U R' U') F'



11 OLL 4 — **DOT** p.20

DOT · 1 CORNER UP · MIRRORS 3

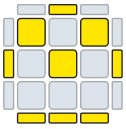
f (R U R' U') f' U F (R U R' U') F'



12 OLL 17 — **SLASH** p.21

DOT · 2 DIAGONAL CORNERS UP

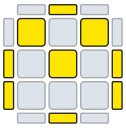
(R U R') U (R' F R F') U2 (R' F R F')



13 OLL 18 — **CROWN** p.22

DOT · 2 ADJACENT CORNERS · CROWN

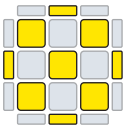
r U (R' U R) U2 r2 U' (R U' R') U2 r



14 OLL 19 — **BUNNY** p.23

DOT · 2 ADJACENT CORNERS · BUNNY

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



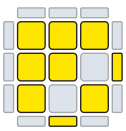
15 OLL 20 — **CHECKERS** p.24

DOT · 4 CORNERS UP · X

r U R' U' M2 U (R U' R') U' M'

CORNERS 2

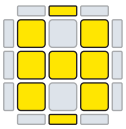
All four corners already face up: only edges are left.



16 OLL 28 — **STEALTH** p.25

2 ADJACENT EDGES FLIPPED · ARROW

r U R' U' M U (R U' R')



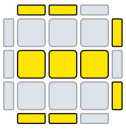
17 OLL 57 — **MUMMY** p.26

2 OPPOSITE EDGES FLIPPED · H

(R U R' U') M' U R U' r'

LINES 4

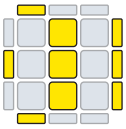
Two opposite edges up: a bar through the centre.



18 OLL 51 — **BOTTLECAP** p.27

LINE · BOTTLECAP

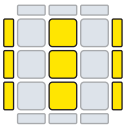
F U (R U' R') U (R U' R') F'



19 OLL 52 — **LINE** p.28

LINE · 52

(R U R') U R U' (B U' B') R'



20 OLL 55 — **HIGHLIGHTER** p.29

LINE · HIGHLIGHTER

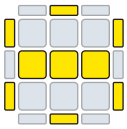
R U2 R2 U' (R U' R') U2 F R F'

INDEX BY SHAPE

Ts ... Ps · 2/3

The big number (1 to 57) is the order of this guide, the cheat sheet and the videos: the cases go by the shape of the yellow. The small one, "OLL 27", is the official OLL number every chart uses.

LEVEL 0



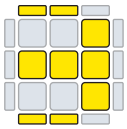
21 OLL 56 — **STREETLIGHTS** — p.30

LINE · STREETLIGHTS

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

Ts 2

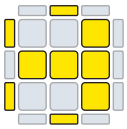
A full column plus the middle row.



22 OLL 33 — **KEY** — p.31

T SHAPE · KEY

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



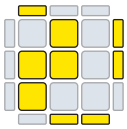
23 OLL 45 — **SUIT UP** — p.32

T SHAPE · SUIT UP

F R U R' U' F'

Zs 6

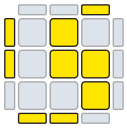
Lightning: a diagonal step (small) or a bar with two opposite corners (big).



24 OLL 7 — **LIGHTNING** — p.33

SMALL LIGHTNING

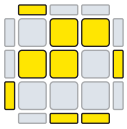
r U R' U R U2 r'



25 OLL 8 — **REVERSE LIGHTNING** — p.34

SMALL LIGHTNING · MIRROR

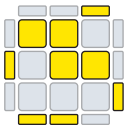
l' U' L U' L' U2 l



26 OLL 11 — **DOWNSTAIRS** — p.35

SMALL LIGHTNING · DOWNSTAIRS

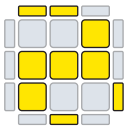
r U R' U
R' F R F' R U2 r'



27 OLL 12 — **UPSTAIRS** — p.36

SMALL LIGHTNING · UPSTAIRS

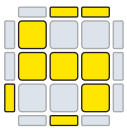
M' R' U' R U'
R' U2 R U' R r'



28 OLL 39 — **FUNG** — p.37

BIG LIGHTNING · FUNG

L F' L' U' L U F U' L'



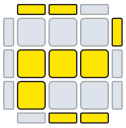
29 OLL 40 — **ANTI-FUNG** — p.38

BIG LIGHTNING · MIRROR OF 39

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

BIG Ls 4

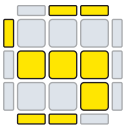
Middle row plus one corner at one end.



30 OLL 13 — **GUN** — p.39

KNIGHT · GUN

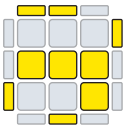
F U R U' R2 F'
R U R U' R'



31 OLL 14 — **ANTI-GUN** — p.40

KNIGHT · ANTI-GUN

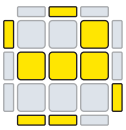
R' F R U R' F' R F U' F'



32 OLL 15 — **SQUEEGEE** — p.41

KNIGHT · SQUEEGEE

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



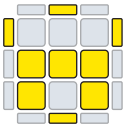
33 OLL 16 — **ANTI-SQUEEGEE** — p.42

KNIGHT · ANTI-SQUEEGEE

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

Cs 2

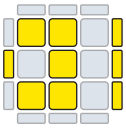
Middle row plus both corners of one side.



34 OLL 34 — **CITY** — p.43

C SHAPE · CITY

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



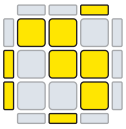
35 OLL 46 — **C** — p.44

C SHAPE · 46

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

Ws 2

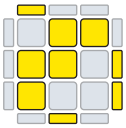
A diagonal staircase of three plus one square.



36 OLL 36 — **WARIO** — p.45

W SHAPE · WARIO

L' U' L U' L' U L
U L F' L' F



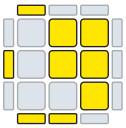
37 OLL 38 — **MARIO** — p.46

W SHAPE · MARIO

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

Ps 4

A 2x2 square plus one edge.



38 OLL 31 — **COUCH** — p.47

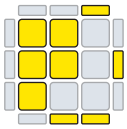
P SHAPE · COUCH

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

INDEX BY SHAPE

SQUARES … OTHERS · 3/3

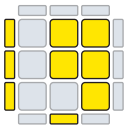
The big number (1 to 57) is the order of this guide, the cheat sheet and the videos: the cases go by the shape of the yellow. The small one, "OLL 27", is the official OLL number every chart uses.



39 OLL 32 — **ANTI-COUCH** — p.48

P SHAPE · MIRROR OF 31

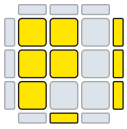
L U F' U' L' U L F L'



40 OLL 43 — **P** — p.49

P SHAPE · 43

F' U' L' U L F



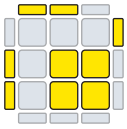
41 OLL 44 — **P** — p.50

P SHAPE · MIRROR OF 43

F U R U' R' F'

SQUARES 2

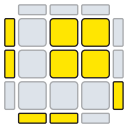
A 2x2 square in one corner.



42 OLL 5 — **LEFTY SQUARE** — p.51

SQUARE · LEFTY

r' U2 R U R' U r



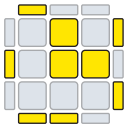
43 OLL 6 — **RIGHTY SQUARE** — p.52

SQUARE · RIGHTY

r U2 R' U' R U' r'

LITTLE Ls 6

Centre plus two adjacent edges.

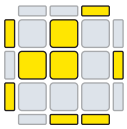


44 OLL 47 — **BREAKNECK** — p.53

SMALL L · BREAKNECK

R' U' R' F R F'

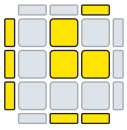
R' F R F' U R



45 OLL 48 — **ANTI-BREAKNECK** — p.54

SMALL L · MIRROR OF 47

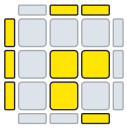
F R U R' U' R U R' U' F'



46 OLL 49 — **L** — p.55

SMALL L · 49

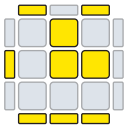
r U' r2 U r2 U r2 U' r



47 OLL 50 — **L** — p.56

SMALL L · MIRROR OF 49

r' U r2 U' r2 U' r2 U r'

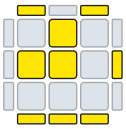


48 OLL 53 — **L** — p.57

SMALL L · 53

l' U2 L U L' U'

L U L' U l



49 OLL 54 — **L** — p.58

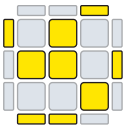
SMALL L · MIRROR OF 53

r U2 R' U' R U

R' U' R U' r'

OTHERS 8

Fish (50–53) and awkward shapes (54–57).

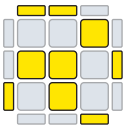


50 OLL 9 — **KITE** — p.59

FISH · KITE

R U R' U' R F

R2 U R' U' F'

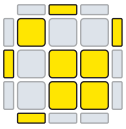


51 OLL 10 — **ANTI-KITE** — p.60

FISH · ANTI-KITE

R U R' U

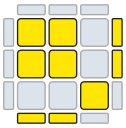
R' F R F' R U2 R'



52 OLL 35 — **FISH SALAD** — p.61

FISH · FISH SALAD

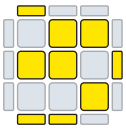
R U2 R2 F R F' R U2 R'



53 OLL 37 — **MOUNTED FISH** — p.62

FISH · MOUNTED FISH

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

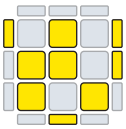


54 OLL 29 — **SPOTTED CHAMELEON** — p.63

AWKWARD SHAPE · SPOTTED CHAMELEON

R U R' U' R U' R'

F' U' F R U R'

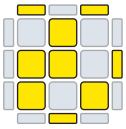


55 OLL 30 — **ANTI-SPOTTED CHAMELEON** — p.64

AWKWARD SHAPE · MIRROR OF 29

F R' F R2 U'

R' U' R U R' F2

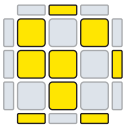


56 OLL 41 — **AWKWARD** — p.65

AWKWARD SHAPE · 41

R U R' U R U2 R'

F R U R' U' F'



57 OLL 42 — **AWKWARD** — p.66

AWKWARD SHAPE · MIRROR OF 41

R' U' R U' R' U2 R

F R U R' U' F'

OLL #1 OFFICIAL: OLL 21

CROSSES · 1 OF 7

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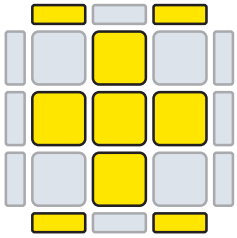
LEVEL 0

H

CROSS · 4 CORNERS TWISTED · H



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



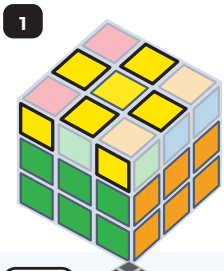
ALG (R U2 R') U' (R U R' U') (R U' R')

CASE



CROSS · 4 CORNERS TWISTED · H

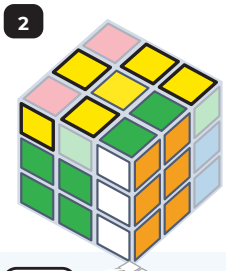
1



R

RIGHT LAYER · UP

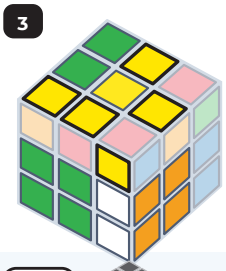
2



U2

TOP LAYER · HALF TURN

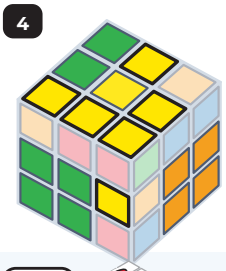
3



R'

RIGHT LAYER · DOWN

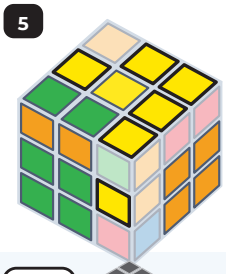
4



U'

TOP LAYER · RIGHT

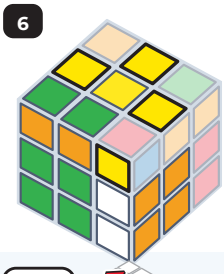
5



R

RIGHT LAYER · UP

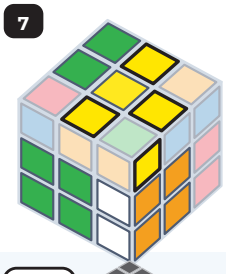
6



U

TOP LAYER · LEFT

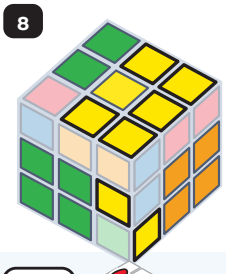
7



R'

RIGHT LAYER · DOWN

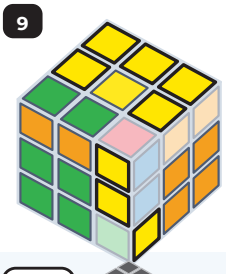
8



U'

TOP LAYER · RIGHT

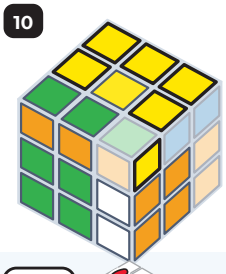
9



R

RIGHT LAYER · UP

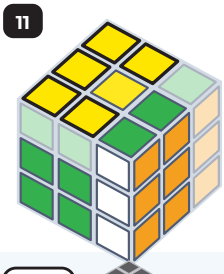
10



U'

TOP LAYER · RIGHT

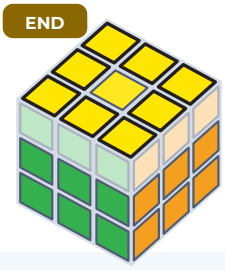
11



R'

RIGHT LAYER · DOWN

END



DONE

YELLOW FACE DONE

OLL #2 OFFICIAL: OLL 22

CROSSES · 2 OF 7

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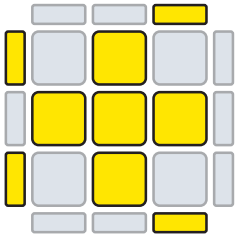
LEVEL 0

PI

CROSS · 4 CORNERS TWISTED · PI



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



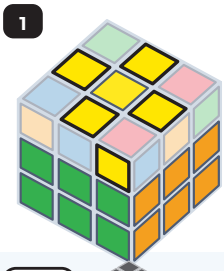
ALG R U2 R2 U' R2 U' R2 U2 R

CASE



CROSS · 4 CORNERS TWISTED · PI

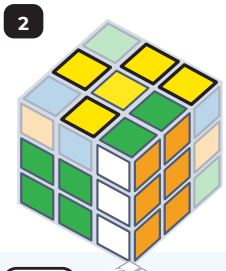
1



R

RIGHT LAYER · UP

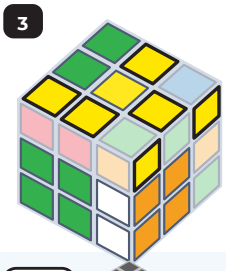
2



U2

TOP LAYER · HALF TURN

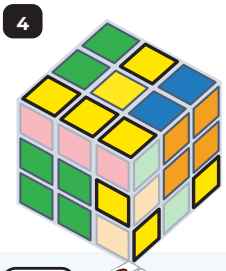
3



R2

RIGHT LAYER · HALF TURN

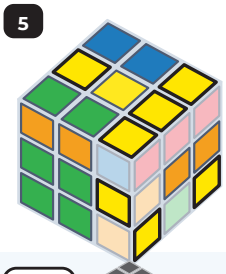
4



U'

TOP LAYER · RIGHT

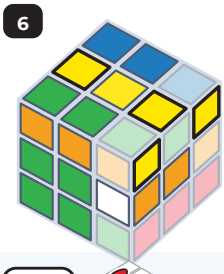
5



R2

RIGHT LAYER · HALF TURN

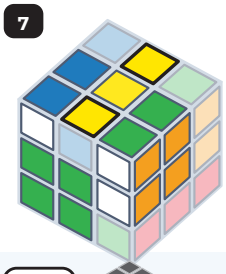
6



U'

TOP LAYER · RIGHT

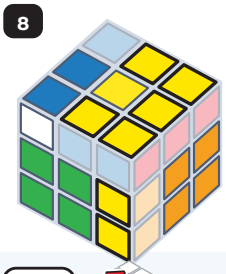
7



R2

RIGHT LAYER · HALF TURN

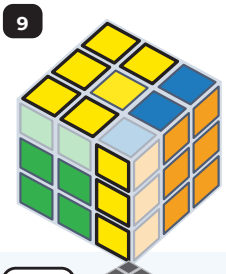
8



U2

TOP LAYER · HALF TURN

9



R

RIGHT LAYER · UP

END



DONE

YELLOW FACE DONE

OLL #3 OFFICIAL: OLL 23

CROSSES · 3 OF 7

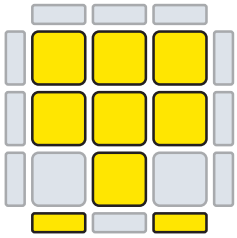
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HEADLIGHTS

CROSS · 2 CORNERS · HEADLIGHTS



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



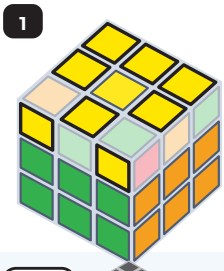
ALG R2 D (R' U2 R) D' R' U2 R'

CASE



CROSS · 2 CORNERS · HEADLIGHTS

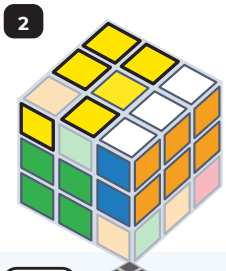
1



R2

RIGHT LAYER · HALF TURN

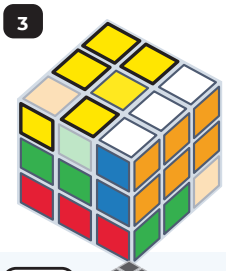
2



D

BOTTOM LAYER · RIGHT

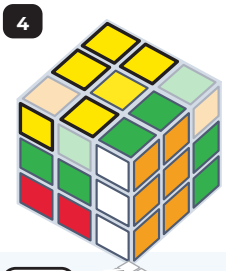
3



R'

RIGHT LAYER · DOWN

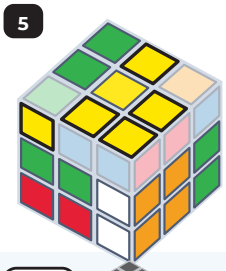
4



U2

TOP LAYER · HALF TURN

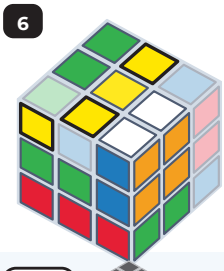
5



R

RIGHT LAYER · UP

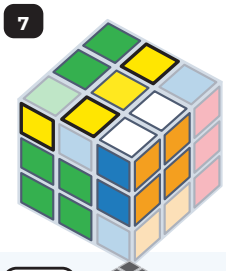
6



D'

BOTTOM LAYER · LEFT

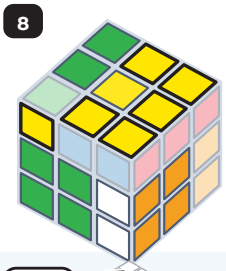
7



R'

RIGHT LAYER · DOWN

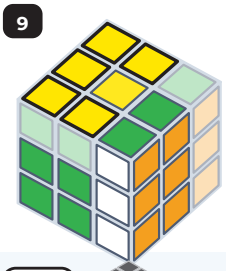
8



U2

TOP LAYER · HALF TURN

9



R'

RIGHT LAYER · DOWN

END



DONE

YELLOW FACE DONE

OLL #4 OFFICIAL: OLL 24

CROSSES · 4 OF 7

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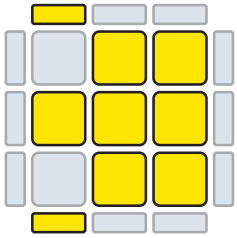
LEVEL 0

T

CROSS · 2 CORNERS · T



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



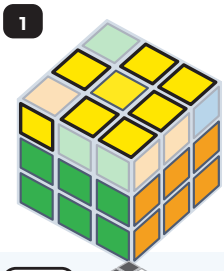
ALG r U R' U' r' F R F'

CASE



CROSS · 2 CORNERS · T

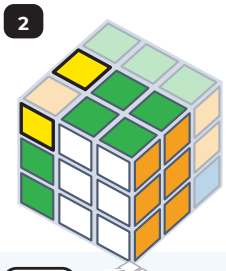
1



r 

RIGHT TWO LAYERS · UP

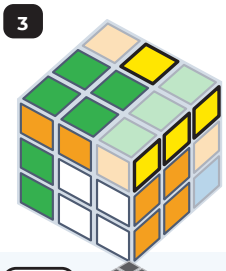
2



U 

TOP LAYER · LEFT

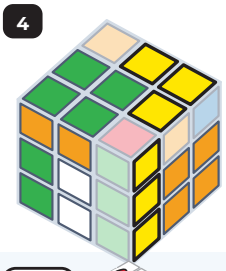
3



R' 

RIGHT LAYER · DOWN

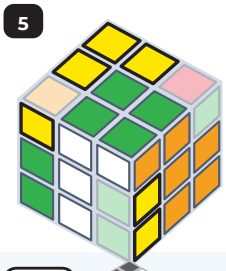
4



U' 

TOP LAYER · RIGHT

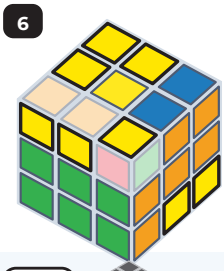
5



r' 

RIGHT TWO LAYERS · DOWN

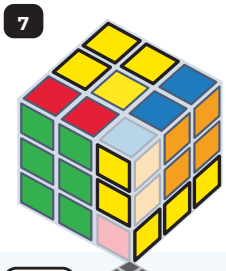
6



F 

FRONT · CLOCKWISE

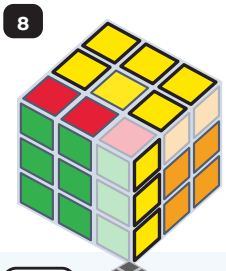
7



R 

RIGHT LAYER · UP

8



F' 

FRONT · COUNTER-CLOCKWISE

END



DONE

YELLOW FACE DONE

OLL #5 OFFICIAL: OLL 25

CROSSES · 5 OF 7

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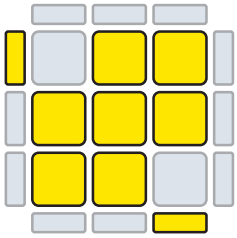
LEVEL 0

BOWTIE

CROSS · 2 DIAGONAL CORNERS · BOWTIE



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



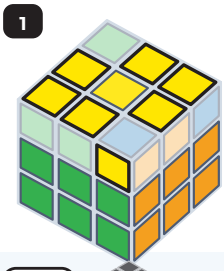
ALG F' r U R' U' r' F R

CASE



CROSS · 2 DIAGONAL CORNERS · BOWTIE

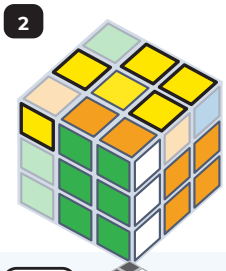
1



F'

FRONT · COUNTER-CLOCKWISE

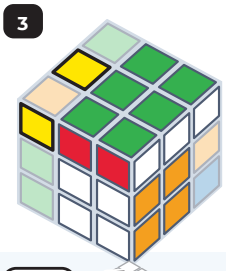
2



r

RIGHT TWO LAYERS · UP

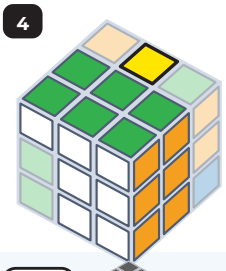
3



U

TOP LAYER · LEFT

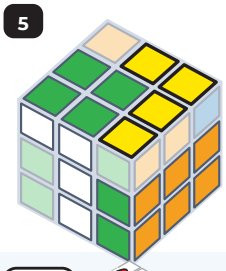
4



R'

RIGHT LAYER · DOWN

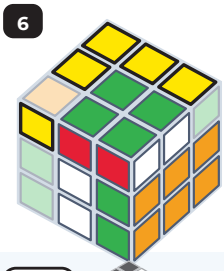
5



U'

TOP LAYER · RIGHT

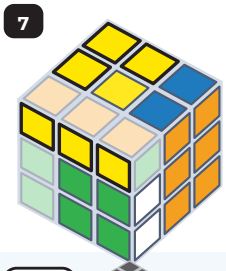
6



r'

RIGHT TWO LAYERS · DOWN

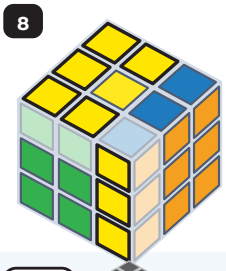
7



F

FRONT · CLOCKWISE

8



R

RIGHT LAYER · UP

END



DONE

YELLOW FACE DONE

OLL #6 OFFICIAL: OLL 26

CROSSES · 6 OF 7

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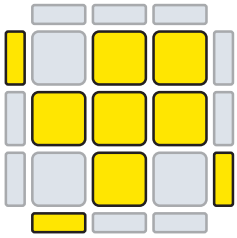
LEVEL 0

ANTI-SUNE

3 CORNERS TWISTED · MIRROR OF SUNE



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



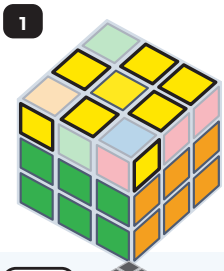
ALG R U2 R' U' R U' R'

CASE



3 CORNERS TWISTED · MIRROR OF SUNE

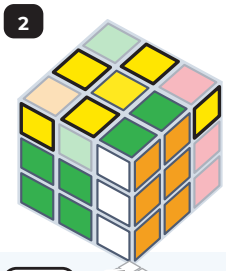
1



R

RIGHT LAYER · UP

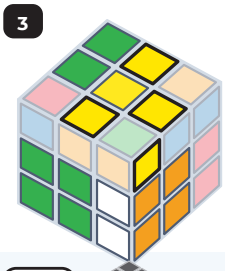
2



U2

TOP LAYER · HALF TURN

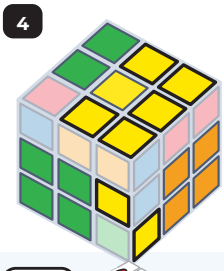
3



R'

RIGHT LAYER · DOWN

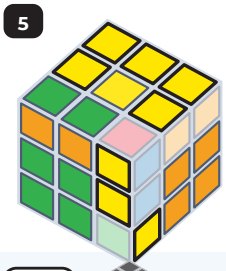
4



U'

TOP LAYER · RIGHT

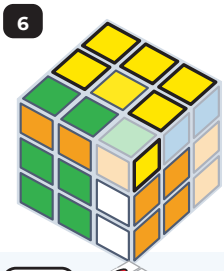
5



R

RIGHT LAYER · UP

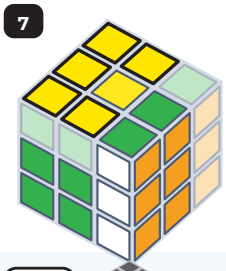
6



U'

TOP LAYER · RIGHT

7



R'

RIGHT LAYER · DOWN

END



DONE

YELLOW FACE DONE

OLL #7

OFFICIAL: OLL 27

CROSSES · 7 OF 7

Video on YouTube
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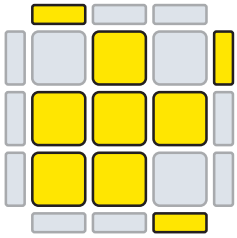
LEVEL 0

SUNE

3 CORNERS TWISTED



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



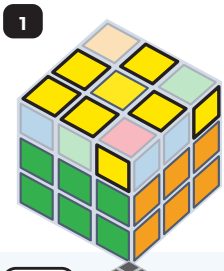
ALG R U R' U R U2 R'

CASE



3 CORNERS TWISTED

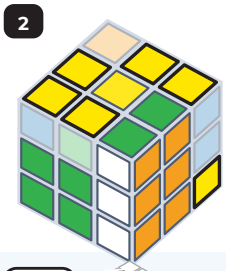
1



R

RIGHT LAYER · UP

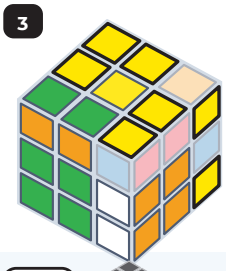
2



U

TOP LAYER · LEFT

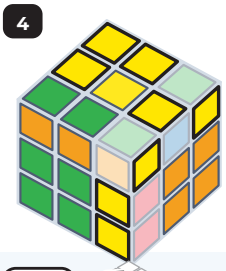
3



R'

RIGHT LAYER · DOWN

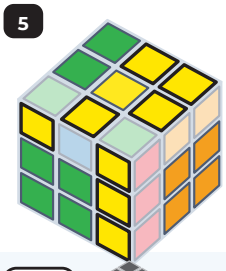
4



U

TOP LAYER · LEFT

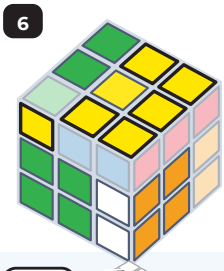
5



R

RIGHT LAYER · UP

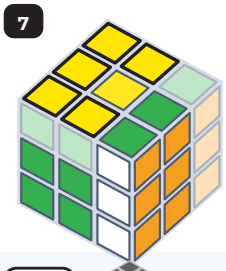
6



U2

TOP LAYER · HALF TURN

7



R'

RIGHT LAYER · DOWN

END



DONE

YELLOW FACE DONE

OLL #8 OFFICIAL: OLL 1

DOTS · 1 OF 8

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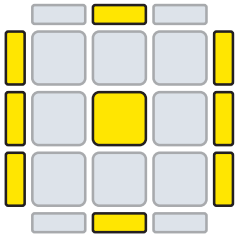
LEVEL 0

RUNWAY

DOT · 2 FULL SIDE BARS



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



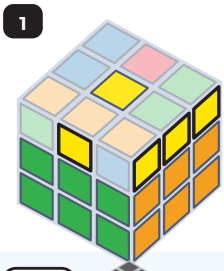
ALG R U2 R2 F R F' U2 (R' F R F')

CASE



DOT · 2 FULL SIDE BARS

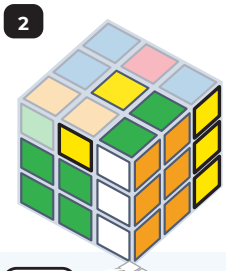
1



R

RIGHT LAYER · UP

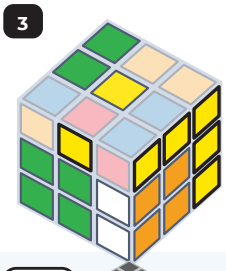
2



U2

TOP LAYER · HALF TURN

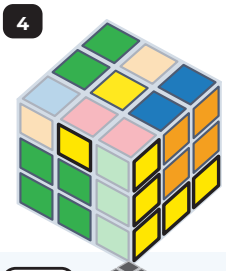
3



R2

RIGHT LAYER · HALF TURN

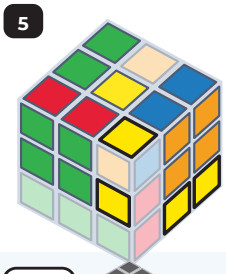
4



F

FRONT · CLOCKWISE

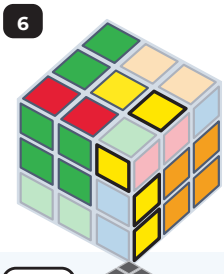
5



R

RIGHT LAYER · UP

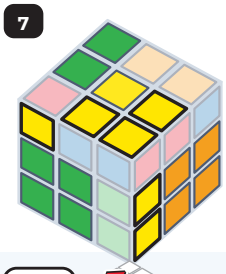
6



F'

FRONT · COUNTER-CLOCKWISE

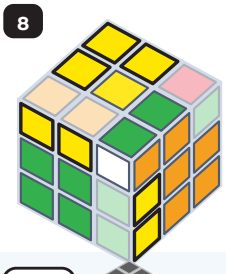
7



U2

TOP LAYER · HALF TURN

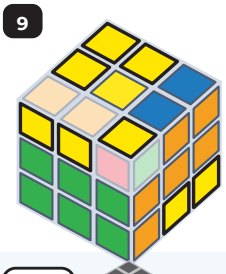
8



R'

RIGHT LAYER · DOWN

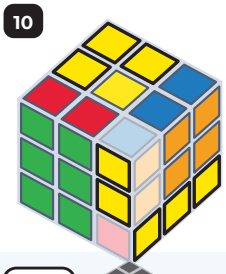
9



F

FRONT · CLOCKWISE

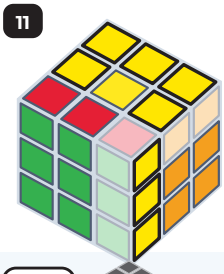
10



R

RIGHT LAYER · UP

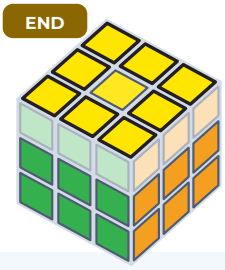
11



F'

FRONT · COUNTER-CLOCKWISE

END



DONE

YELLOW FACE DONE

OLL #9 OFFICIAL: OLL 2

DOTS · 2 OF 8

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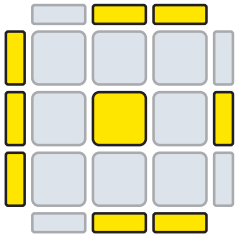
LEVEL 0

ZAMBONI

DOT · 1 FULL BAR



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



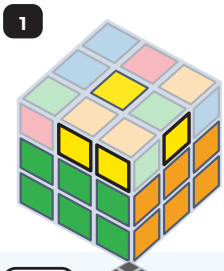
ALG F (R U R' U') F' f (R U R' U') f'

CASE



DOT · 1 FULL BAR

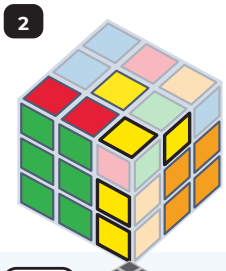
1



F

FRONT · CLOCKWISE

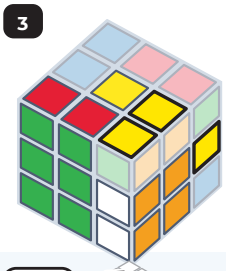
2



R

RIGHT LAYER · UP

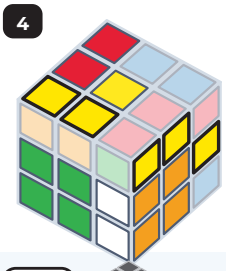
3



U

TOP LAYER · LEFT

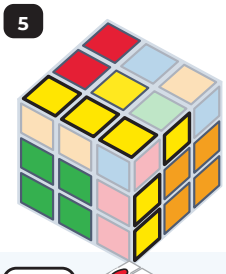
4



R'

RIGHT LAYER · DOWN

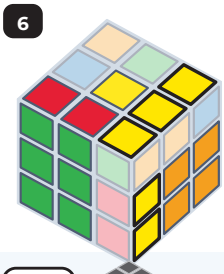
5



U'

TOP LAYER · RIGHT

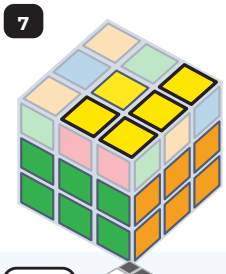
6



F'

FRONT · COUNTER-CLOCKWISE

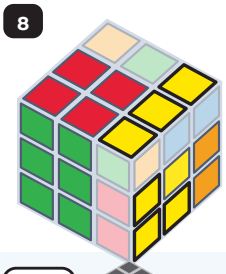
7



f

FRONT TWO LAYERS · CLOCKWISE

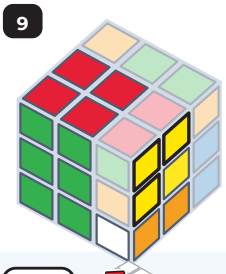
8



R

RIGHT LAYER · UP

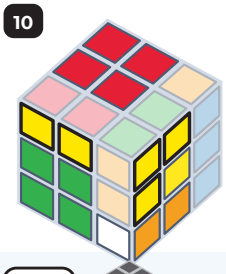
9



U

TOP LAYER · LEFT

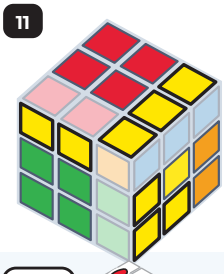
10



R'

RIGHT LAYER · DOWN

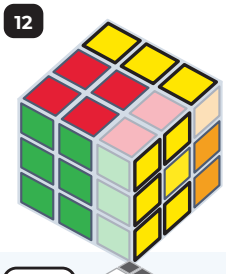
11



U'

TOP LAYER · RIGHT

12



f'

FRONT TWO LAYERS · COUNTER-CLOCKWISE

END



DONE

YELLOW FACE DONE

OLL #10 OFFICIAL: OLL 3

DOTS · 3 OF 8

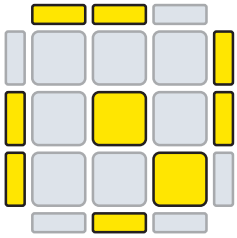
Video on YouTube
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DOT

DOT · 1 CORNER UP · MIRRORS 4



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



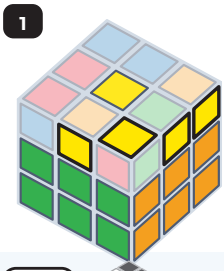
ALG f (R U R' U') f' U' F (R U R' U') F'

CASE



DOT · 1 CORNER UP · MIRRORS 4

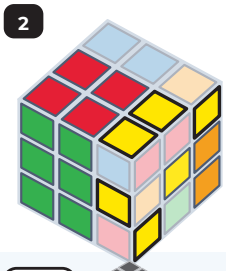
1



f

FRONT TWO LAYERS · CLOCKWISE

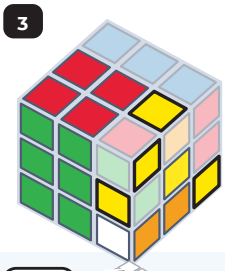
2



R

RIGHT LAYER · UP

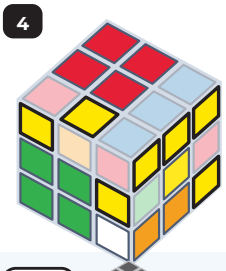
3



U

TOP LAYER · LEFT

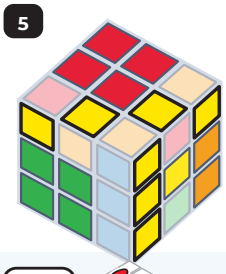
4



R'

RIGHT LAYER · DOWN

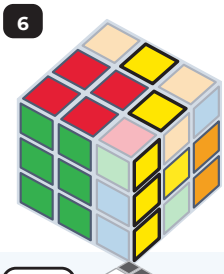
5



U'

TOP LAYER · RIGHT

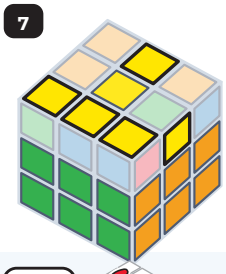
6



f'

FRONT TWO LAYERS · COUNTER-CLOCKWISE

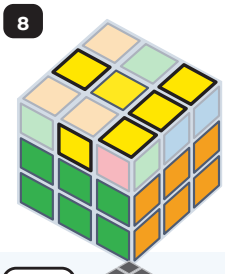
7



U'

TOP LAYER · RIGHT

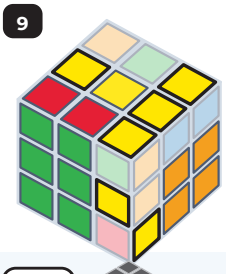
8



F

FRONT · CLOCKWISE

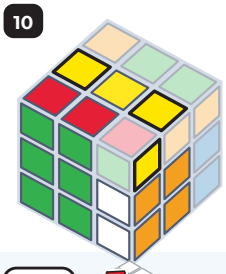
9



R

RIGHT LAYER · UP

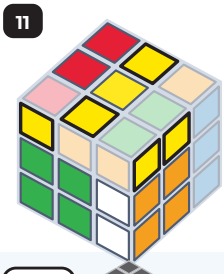
10



U

TOP LAYER · LEFT

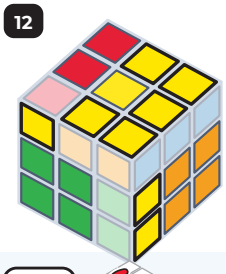
11



R'

RIGHT LAYER · DOWN

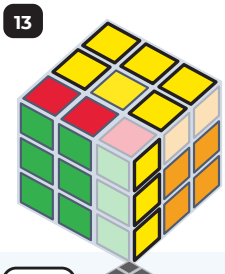
12



U'

TOP LAYER · RIGHT

13



F'

FRONT · COUNTER-CLOCKWISE

END



DONE

YELLOW FACE DONE

OLL #11 OFFICIAL: OLL 4

DOTS · 4 OF 8

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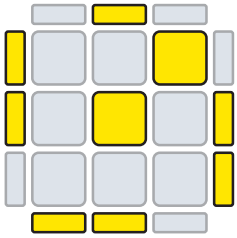
LEVEL 0

DOT

DOT · 1 CORNER UP · MIRRORS 3



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



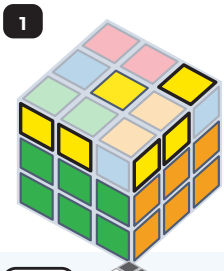
ALG f (R U R' U') f' U F (R U R' U') F'

CASE



DOT · 1 CORNER UP · MIRRORS 3

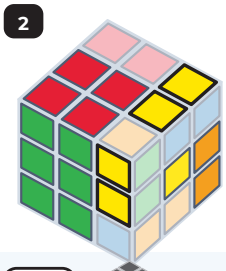
1



f

FRONT TWO LAYERS · CLOCKWISE

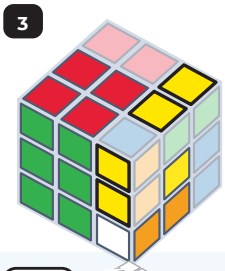
2



R

RIGHT LAYER · UP

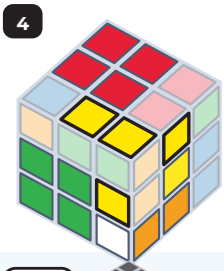
3



U

TOP LAYER · LEFT

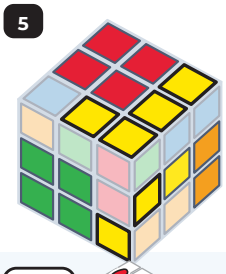
4



R'

RIGHT LAYER · DOWN

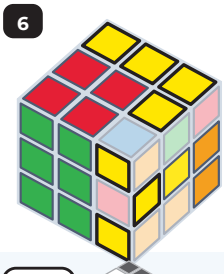
5



U'

TOP LAYER · RIGHT

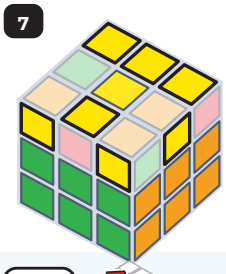
6



f'

FRONT TWO LAYERS · COUNTER-CLOCKWISE

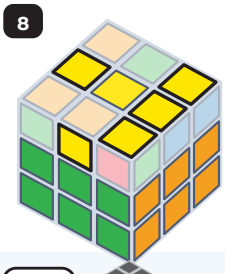
7



U

TOP LAYER · LEFT

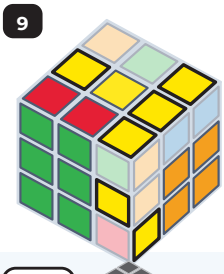
8



F

FRONT · CLOCKWISE

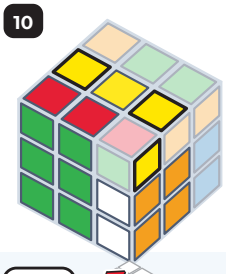
9



R

RIGHT LAYER · UP

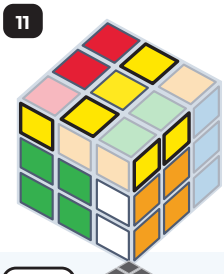
10



U

TOP LAYER · LEFT

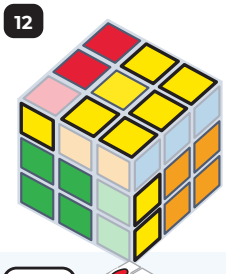
11



R'

RIGHT LAYER · DOWN

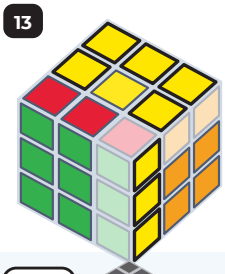
12



U'

TOP LAYER · RIGHT

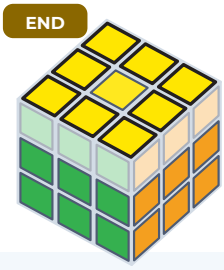
13



F'

FRONT · COUNTER-CLOCKWISE

END



DONE

YELLOW FACE DONE

OLL #12 OFFICIAL: OLL 17

DOTS · 5 OF 8

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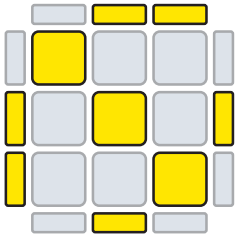
LEVEL 0

SLASH

DOT · 2 DIAGONAL CORNERS UP



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



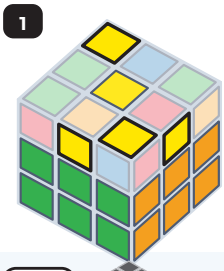
ALG (R U R') U (R' F R F') U2 (R' F R F')

CASE



DOT · 2 DIAGONAL CORNERS UP

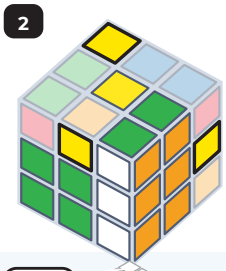
1



R

RIGHT LAYER · UP

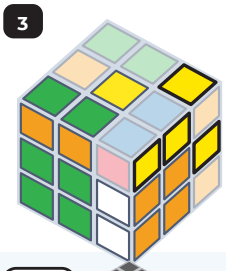
2



U

TOP LAYER · LEFT

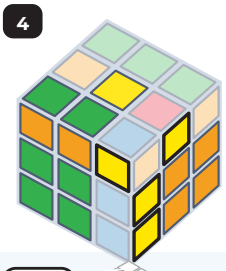
3



R'

RIGHT LAYER · DOWN

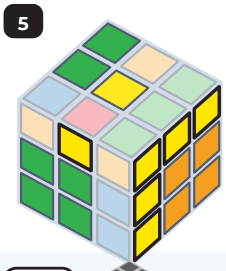
4



U

TOP LAYER · LEFT

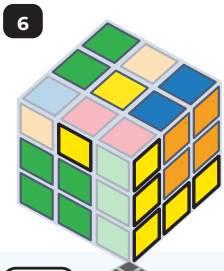
5



R'

RIGHT LAYER · DOWN

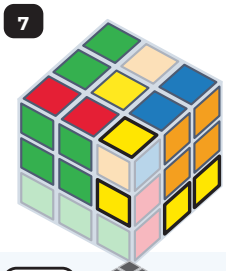
6



F

FRONT · CLOCKWISE

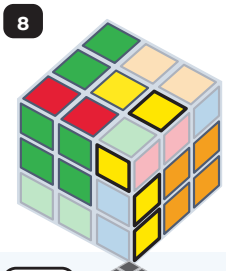
7



R

RIGHT LAYER · UP

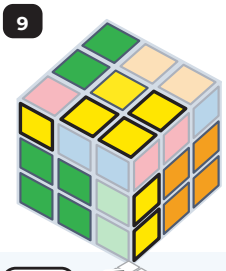
8



F'

FRONT · COUNTER-CLOCKWISE

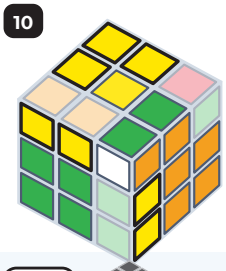
9



U2

TOP LAYER · HALF TURN

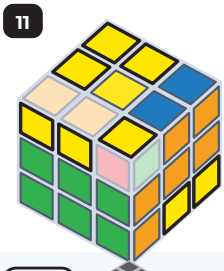
10



R'

RIGHT LAYER · DOWN

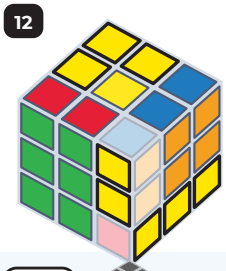
11



F

FRONT · CLOCKWISE

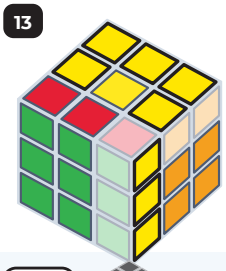
12



R

RIGHT LAYER · UP

13



F'

FRONT · COUNTER-CLOCKWISE

END



DONE

YELLOW FACE DONE

OLL #13 OFFICIAL: OLL 18

DOTS · 6 OF 8

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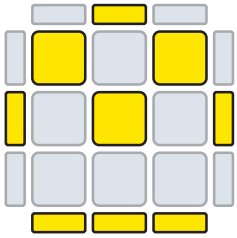
LEVEL 0

CROWN

DOT · 2 ADJACENT CORNERS · CROWN



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



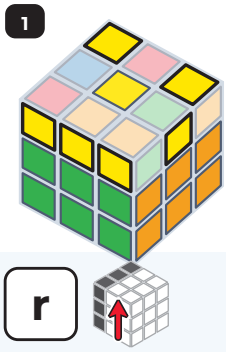
ALG r U (R' U R) U2 r2 U' (R U' R') U2 r

CASE



DOT · 2 ADJACENT CORNERS · CROWN

1



r

RIGHT TWO LAYERS · UP

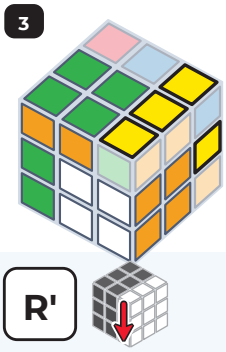
2



U

TOP LAYER · LEFT

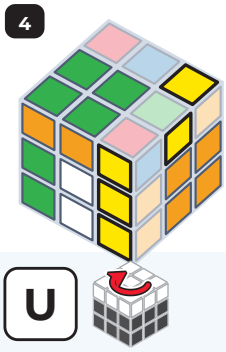
3



R'

RIGHT LAYER · DOWN

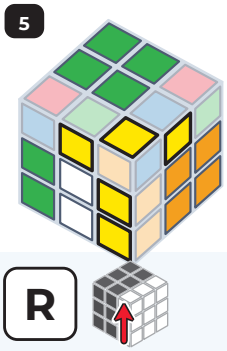
4



U

TOP LAYER · LEFT

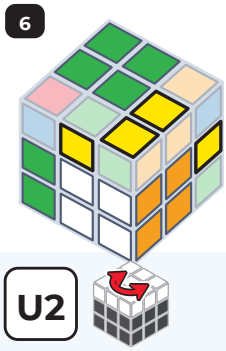
5



R

RIGHT LAYER · UP

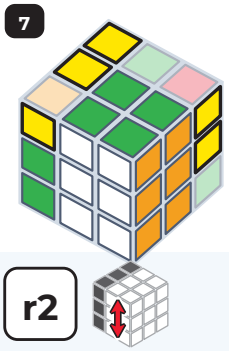
6



U2

TOP LAYER · HALF TURN

7



r2

RIGHT TWO LAYERS · HALF TURN

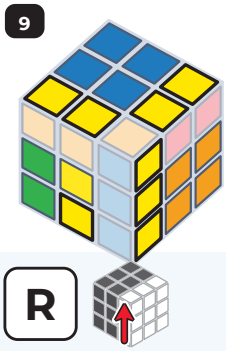
8



U'

TOP LAYER · RIGHT

9



R

RIGHT LAYER · UP

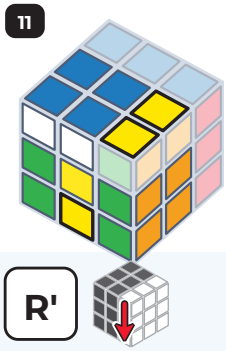
10



U'

TOP LAYER · RIGHT

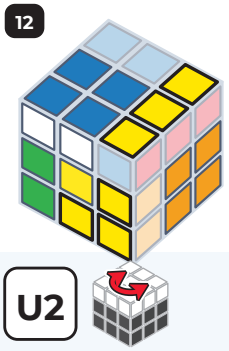
11



R'

RIGHT LAYER · DOWN

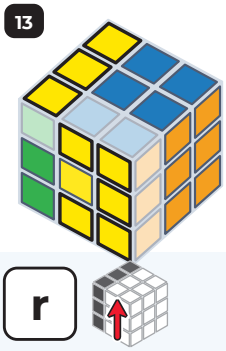
12



U2

TOP LAYER · HALF TURN

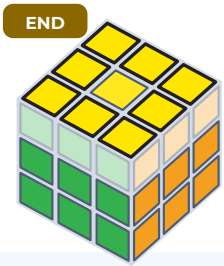
13



r

RIGHT TWO LAYERS · UP

END



DONE

YELLOW FACE DONE

OLL #14 OFFICIAL: OLL 19

DOTS · 7 OF 8

Video on YouTube
scan the QR
levelcero.com · drawings

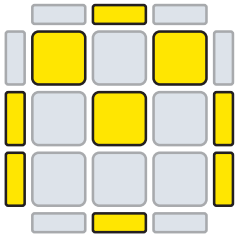
LEVEL 0

BUNNY

DOT · 2 ADJACENT CORNERS · BUNNY



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



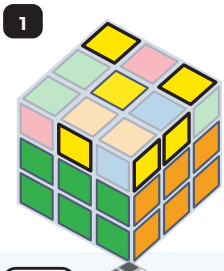
ALG M U (R U R' U') M' (R' F R F')

CASE



DOT · 2 ADJACENT CORNERS · BUNNY

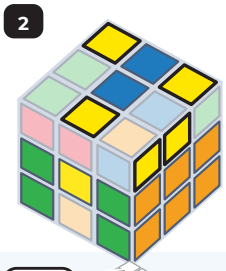
1



M

MIDDLE SLICE · DOWN

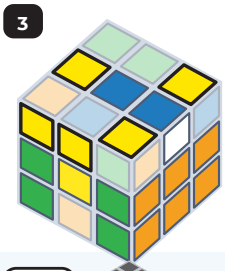
2



U

TOP LAYER · LEFT

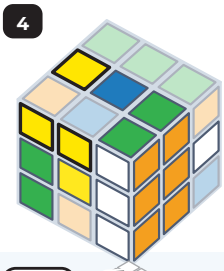
3



R

RIGHT LAYER · UP

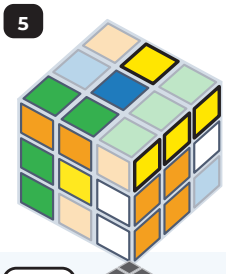
4



U

TOP LAYER · LEFT

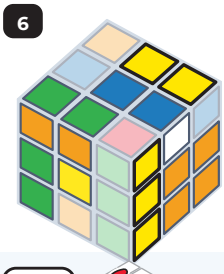
5



R'

RIGHT LAYER · DOWN

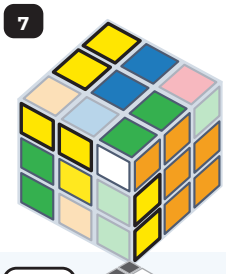
6



U'

TOP LAYER · RIGHT

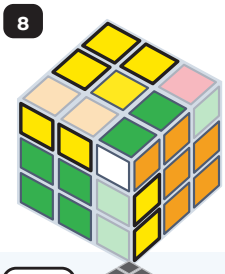
7



M'

MIDDLE SLICE · UP

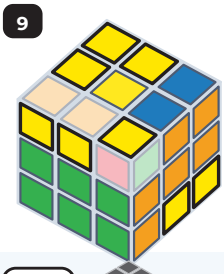
8



R'

RIGHT LAYER · DOWN

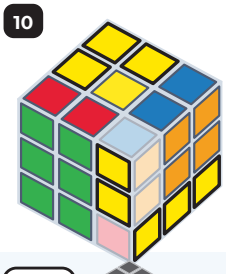
9



F

FRONT · CLOCKWISE

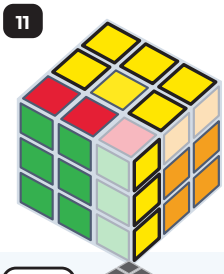
10



R

RIGHT LAYER · UP

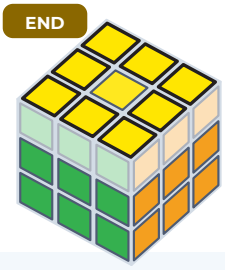
11



F'

FRONT · COUNTER-CLOCKWISE

END



DONE

YELLOW FACE DONE

OLL #15 OFFICIAL: OLL 20

DOTS · 8 OF 8

Video on YouTube
scan the QR
levelcero.com · drawings

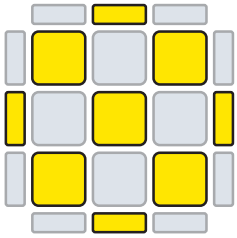
LEVEL 0

CHECKERS

DOT · 4 CORNERS UP · X



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



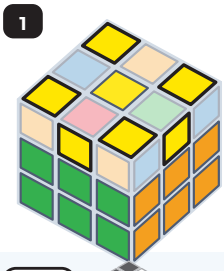
ALG r U R' U' M2 U (R U' R') U' M'

CASE



DOT · 4 CORNERS UP · X

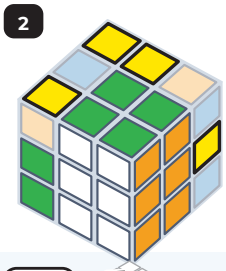
1



r

RIGHT TWO LAYERS · UP

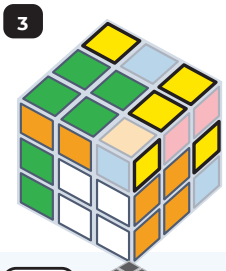
2



U

TOP LAYER · LEFT

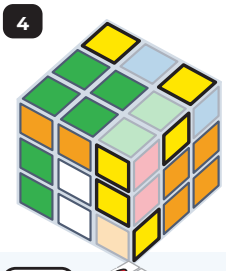
3



R'

RIGHT LAYER · DOWN

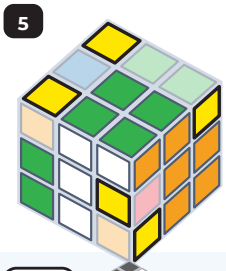
4



U'

TOP LAYER · RIGHT

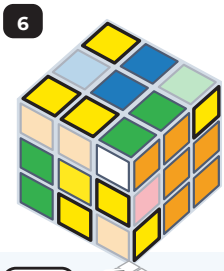
5



M2

MIDDLE SLICE · HALF TURN

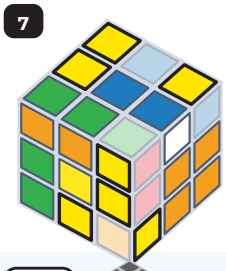
6



U

TOP LAYER · LEFT

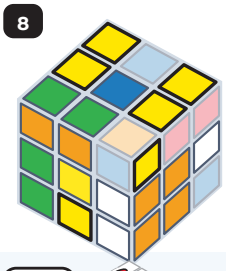
7



R

RIGHT LAYER · UP

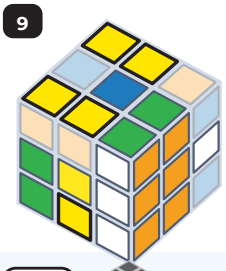
8



U'

TOP LAYER · RIGHT

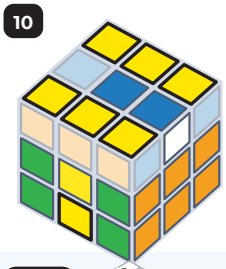
9



R'

RIGHT LAYER · DOWN

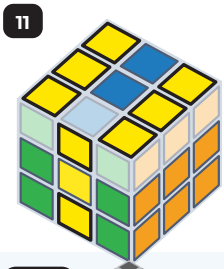
10



U'

TOP LAYER · RIGHT

11



M'

MIDDLE SLICE · UP

END



DONE

YELLOW FACE DONE

OLL #16 OFFICIAL: OLL 28

CORNERS · 1 OF 2

Video on YouTube
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levelcero.com · drawings

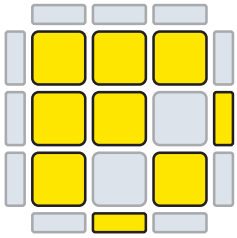
LEVEL 0

STEALTH

2 ADJACENT EDGES FLIPPED · ARROW



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



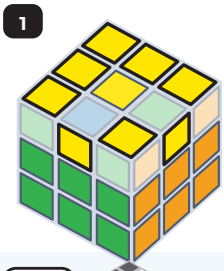
ALG r U R' U' M U (R U' R')

CASE



2 ADJACENT EDGES FLIPPED · ARROW

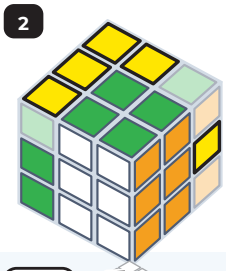
1



r

RIGHT TWO LAYERS · UP

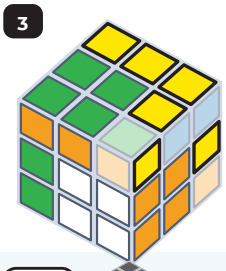
2



U

TOP LAYER · LEFT

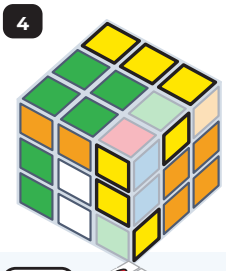
3



R'

RIGHT LAYER · DOWN

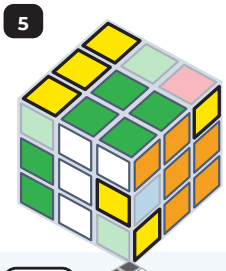
4



U'

TOP LAYER · RIGHT

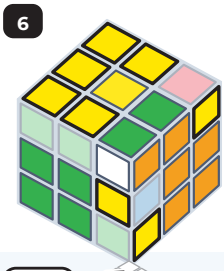
5



M

MIDDLE SLICE · DOWN

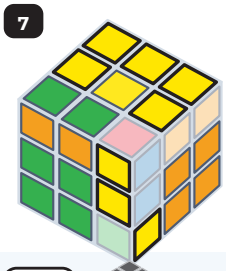
6



U

TOP LAYER · LEFT

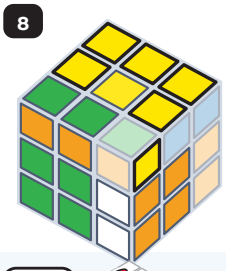
7



R

RIGHT LAYER · UP

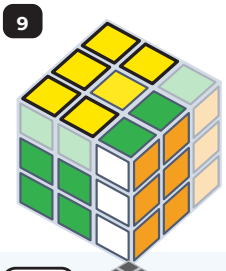
8



U'

TOP LAYER · RIGHT

9



R'

RIGHT LAYER · DOWN

END



DONE

YELLOW FACE DONE

OLL #17 OFFICIAL: OLL 57

CORNERS · 2 OF 2

Video on YouTube
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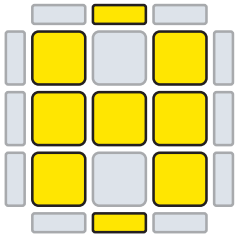
LEVEL 0

MUMMY

2 OPPOSITE EDGES FLIPPED · H



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



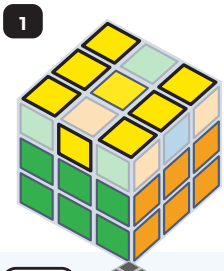
ALG (R U R' U') M' U R U' r'

CASE



2 OPPOSITE EDGES FLIPPED · H

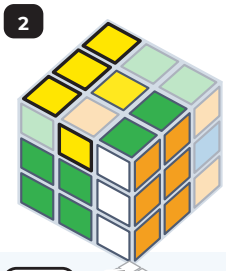
1



R

RIGHT LAYER · UP

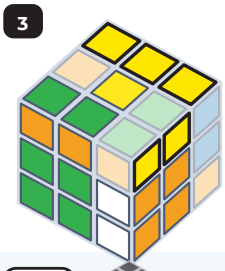
2



U

TOP LAYER · LEFT

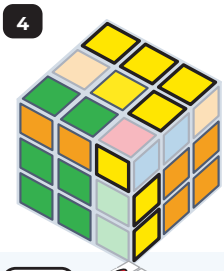
3



R'

RIGHT LAYER · DOWN

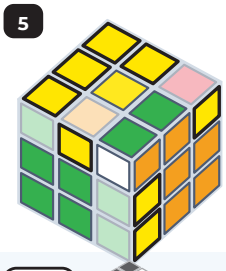
4



U'

TOP LAYER · RIGHT

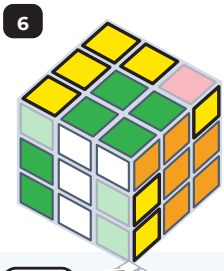
5



M'

MIDDLE SLICE · UP

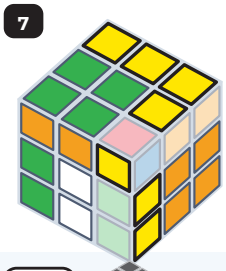
6



U

TOP LAYER · LEFT

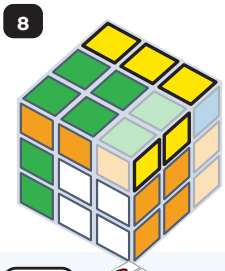
7



R

RIGHT LAYER · UP

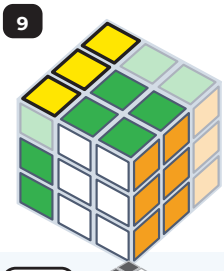
8



U'

TOP LAYER · RIGHT

9



r'

RIGHT TWO LAYERS · DOWN

END



DONE

YELLOW FACE DONE

OLL #18 OFFICIAL: OLL 51

LINES · 1 OF 4

Video on YouTube
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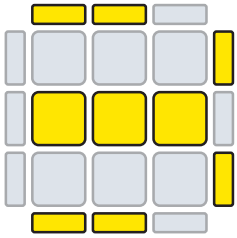
LEVEL 0

BOTTLECAP

LINE · BOTTLECAP



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



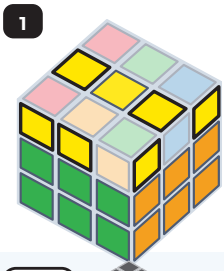
ALG F U (R U' R') U (R U' R') F'

CASE



LINE · BOTTLECAP

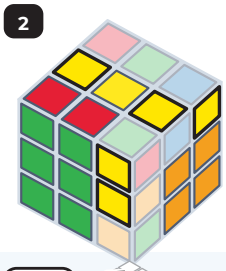
1



F

FRONT · CLOCKWISE

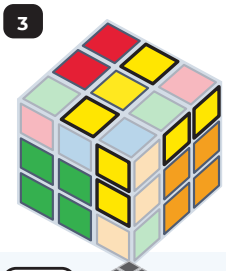
2



U

TOP LAYER · LEFT

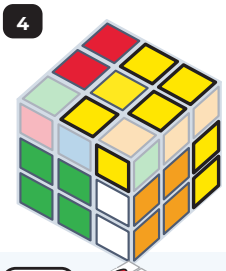
3



R

RIGHT LAYER · UP

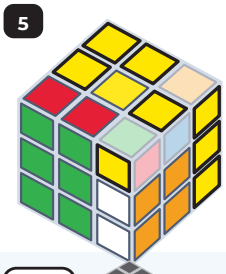
4



U'

TOP LAYER · RIGHT

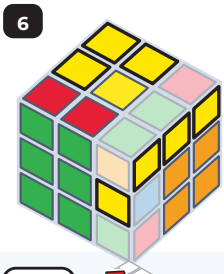
5



R'

RIGHT LAYER · DOWN

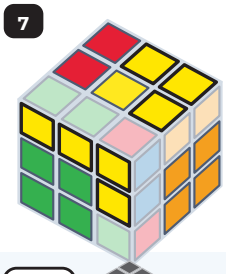
6



U

TOP LAYER · LEFT

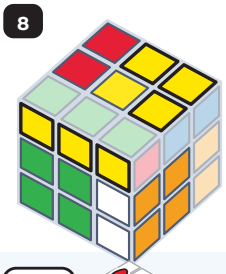
7



R

RIGHT LAYER · UP

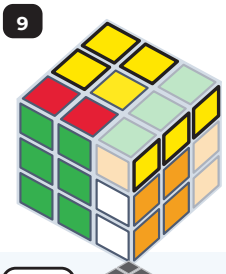
8



U'

TOP LAYER · RIGHT

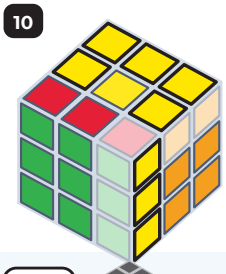
9



R'

RIGHT LAYER · DOWN

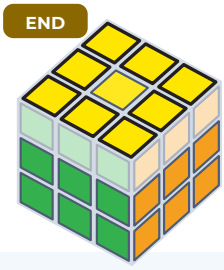
10



F'

FRONT · COUNTER-CLOCKWISE

END



DONE

YELLOW FACE DONE

OLL #19 OFFICIAL: OLL 52

LINES · 2 OF 4

Video on YouTube
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levelcero.com · drawings

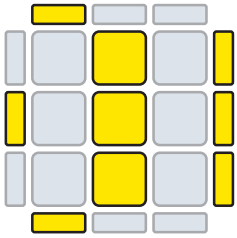
LEVEL 0

LINE

LINE · 52



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



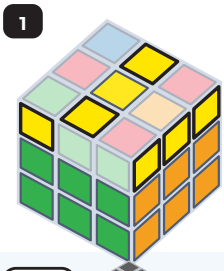
ALG (R U R') U R U' (B U' B') R'

CASE



LINE · 52

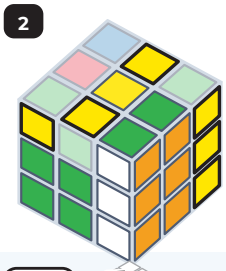
1



R

RIGHT LAYER · UP

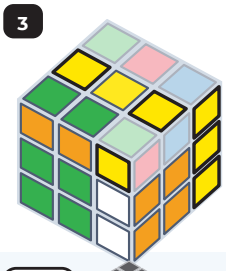
2



U

TOP LAYER · LEFT

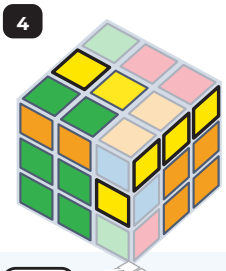
3



R'

RIGHT LAYER · DOWN

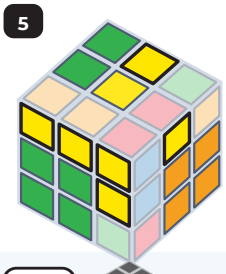
4



U

TOP LAYER · LEFT

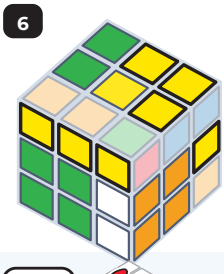
5



R

RIGHT LAYER · UP

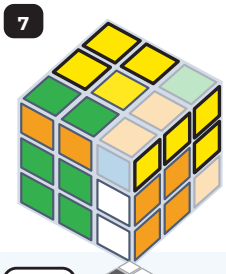
6



U'

TOP LAYER · RIGHT

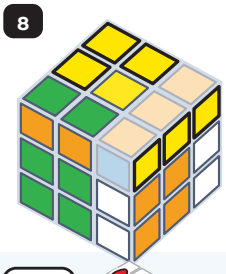
7



B

BACK LAYER · CLOCKWISE FROM BEHIND

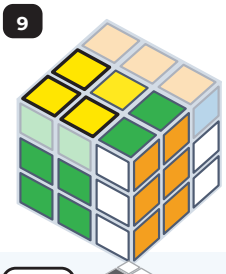
8



U'

TOP LAYER · RIGHT

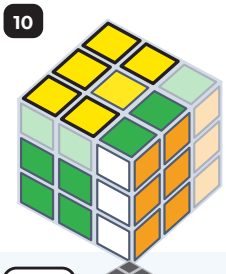
9



B'

BACK LAYER · COUNTER-CLOCKWISE FROM BEHIND

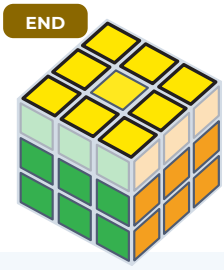
10



R'

RIGHT LAYER · DOWN

END



DONE

YELLOW FACE DONE

OLL #20 OFFICIAL: OLL 55

LINES · 3 OF 4

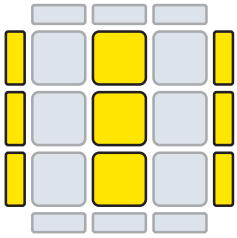
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HIGHLIGHTER

LINE · HIGHLIGHTER



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right

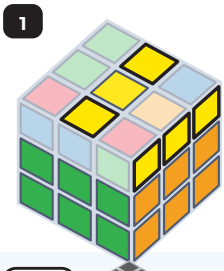


ALG **R** **U2** **R2** **U'** (**R** **U'** **R'**) **U2** **F** **R** **F'**



CASE

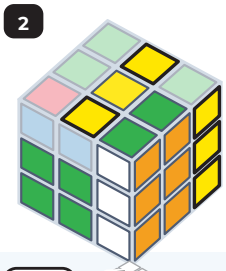
LINE · HIGHLIGHTER



1

R

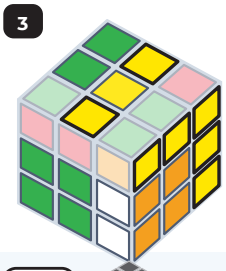
RIGHT LAYER · UP



2

U2

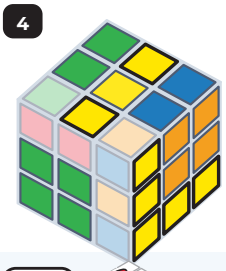
TOP LAYER · HALF TURN



3

R2

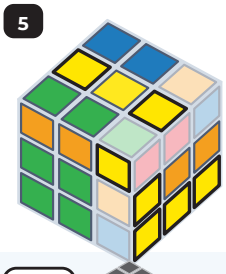
RIGHT LAYER · HALF TURN



4

U'

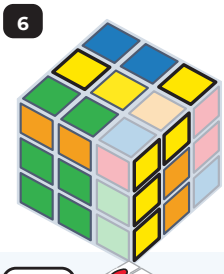
TOP LAYER · RIGHT



5

R

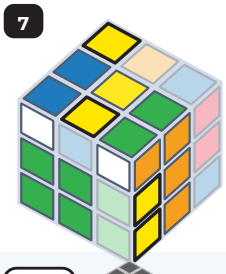
RIGHT LAYER · UP



6

U'

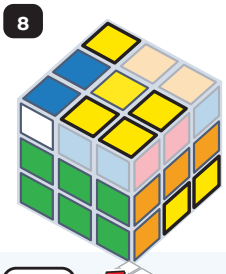
TOP LAYER · RIGHT



7

R'

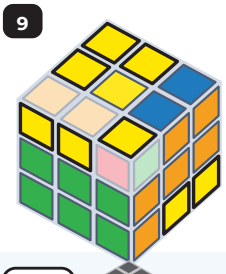
RIGHT LAYER · DOWN



8

U2

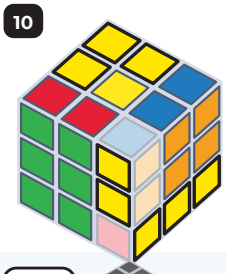
TOP LAYER · HALF TURN



9

F

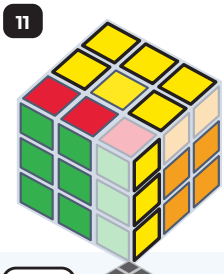
FRONT · CLOCKWISE



10

R

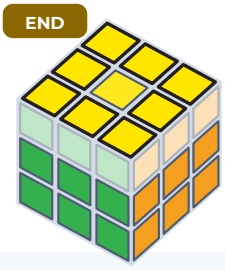
RIGHT LAYER · UP



11

F'

FRONT · COUNTER-CLOCKWISE



END

DONE

YELLOW FACE DONE

OLL #21 OFFICIAL: OLL 56

LINES · 4 OF 4

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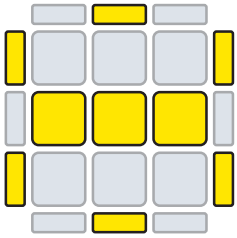
LEVEL 0

STREETLIGHTS

LINE · STREETLIGHTS



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



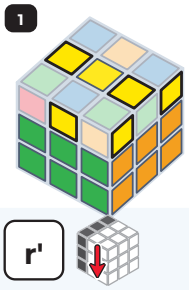
ALG (r' U' r) U' (R' U R) U' (R' U R) (r' U r)

CASE



LINE · STREETLIGHTS

1



r'

RIGHT TWO LAYERS · DOWN

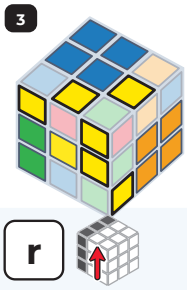
2



U'

TOP LAYER · RIGHT

3



r

RIGHT TWO LAYERS · UP

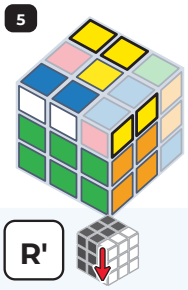
4



U'

TOP LAYER · RIGHT

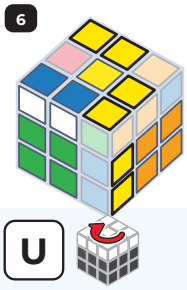
5



R'

RIGHT LAYER · DOWN

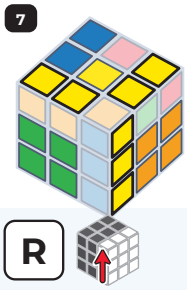
6



U

TOP LAYER · LEFT

7



R

RIGHT LAYER · UP

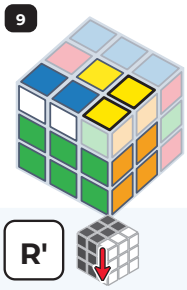
8



U'

TOP LAYER · RIGHT

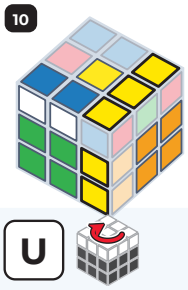
9



R'

RIGHT LAYER · DOWN

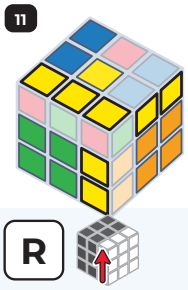
10



U

TOP LAYER · LEFT

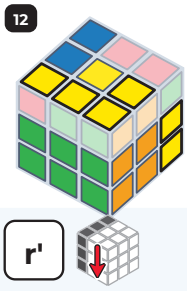
11



R

RIGHT LAYER · UP

12



r'

RIGHT TWO LAYERS · DOWN

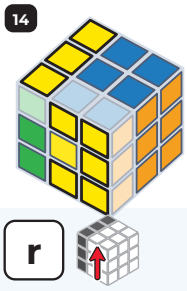
13



U

TOP LAYER · LEFT

14



r

RIGHT TWO LAYERS · UP

END



DONE

YELLOW FACE DONE

OLL #22 OFFICIAL: OLL 33

Ts · 1 OF 2

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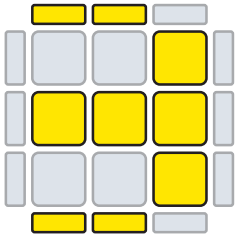
LEVEL 0

KEY

T SHAPE · KEY



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



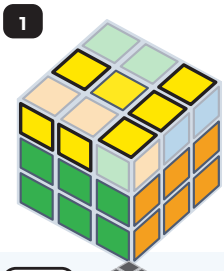
ALG (R U R' U') (R' F R F')

CASE



T SHAPE · KEY

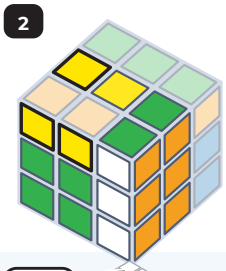
1



R

RIGHT LAYER · UP

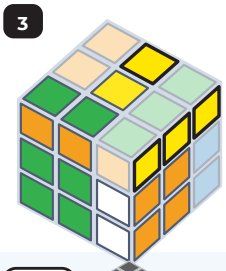
2



U

TOP LAYER · LEFT

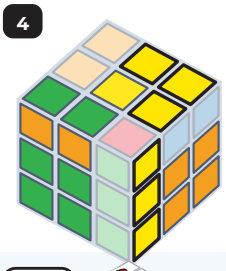
3



R'

RIGHT LAYER · DOWN

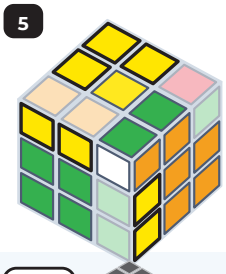
4



U'

TOP LAYER · RIGHT

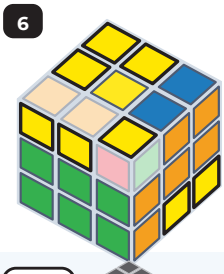
5



R'

RIGHT LAYER · DOWN

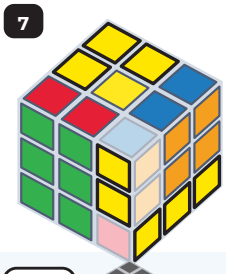
6



F

FRONT · CLOCKWISE

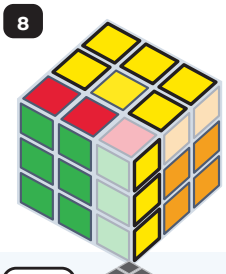
7



R

RIGHT LAYER · UP

8



F'

FRONT · COUNTER-CLOCKWISE

END



DONE

YELLOW FACE DONE

OLL #23

OFFICIAL: OLL 45

Ts · 2 OF 2

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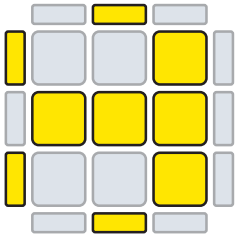
LEVEL 0

SUIT UP

T SHAPE · SUIT UP



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



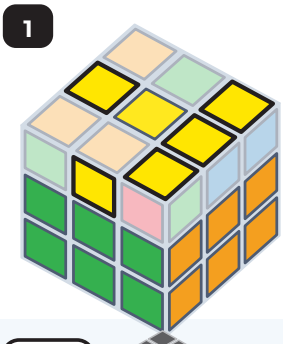
ALG F (R U R' U') F'

CASE



T SHAPE · SUIT UP

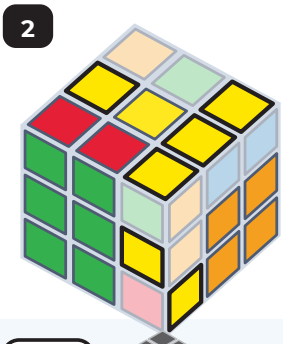
1



F 

FRONT · CLOCKWISE

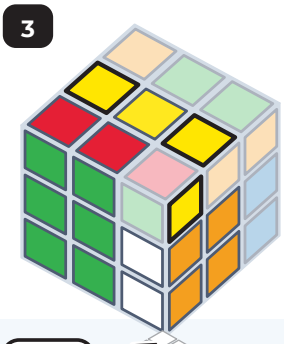
2



R 

RIGHT LAYER · UP

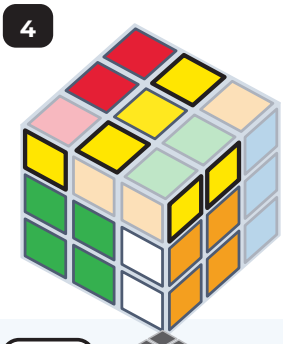
3



U 

TOP LAYER · LEFT

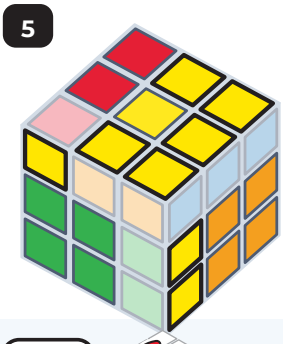
4



R' 

RIGHT LAYER · DOWN

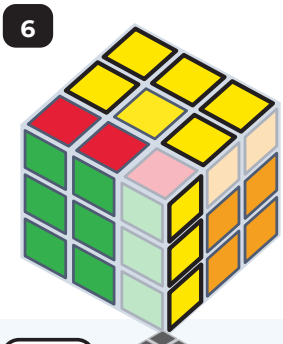
5



U' 

TOP LAYER · RIGHT

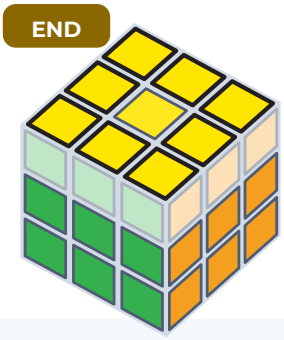
6



F' 

FRONT · COUNTER-CLOCKWISE

END



DONE

YELLOW FACE DONE

OLL #24 OFFICIAL: OLL 7

Zs · 1 OF 6

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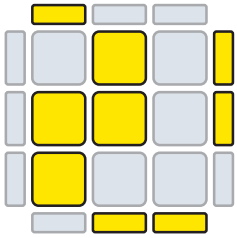
LEVEL 0

LIGHTNING

SMALL LIGHTNING



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



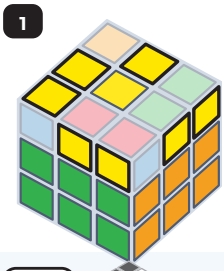
ALG `r U (R' U R) U2 r'`

CASE



SMALL LIGHTNING

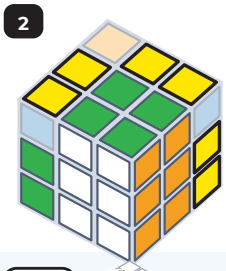
1



`r` 

RIGHT TWO LAYERS · UP

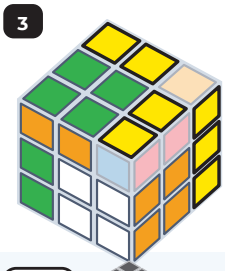
2



`U` 

TOP LAYER · LEFT

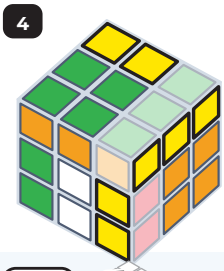
3



`R'` 

RIGHT LAYER · DOWN

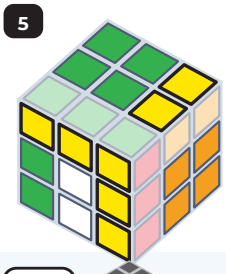
4



`U` 

TOP LAYER · LEFT

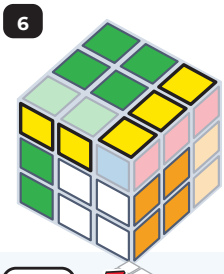
5



`R` 

RIGHT LAYER · UP

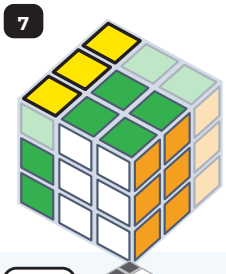
6



`U2` 

TOP LAYER · HALF TURN

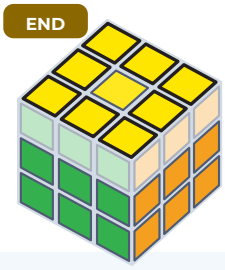
7



`r'` 

RIGHT TWO LAYERS · DOWN

END



DONE

YELLOW FACE DONE

OLL #25 OFFICIAL: OLL 8

Zs · 2 OF 6

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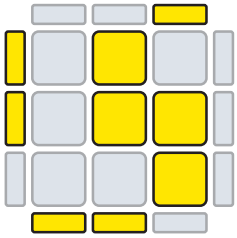
LEVEL 0

REVERSE LIGHTNING

SMALL LIGHTNING · MIRROR



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



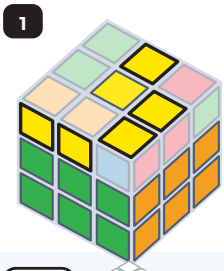
ALG l' U' (L U' L') U2 l

CASE



SMALL LIGHTNING · MIRROR

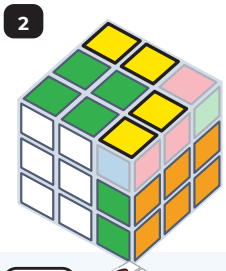
1



l' 

LEFT TWO LAYERS · UP

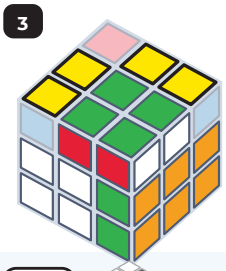
2



U' 

TOP LAYER · RIGHT

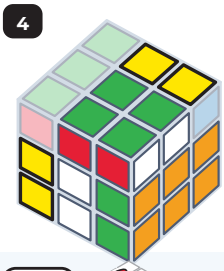
3



L 

LEFT LAYER · DOWN

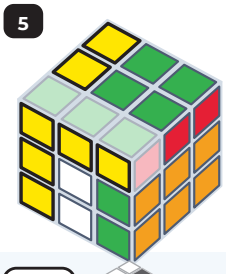
4



U' 

TOP LAYER · RIGHT

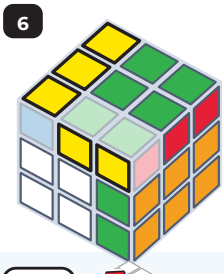
5



L' 

LEFT LAYER · UP

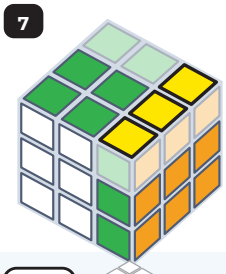
6



U2 

TOP LAYER · HALF TURN

7



l 

LEFT TWO LAYERS · DOWN

END



DONE

YELLOW FACE DONE

OLL #26 OFFICIAL: OLL 11

Zs · 3 OF 6

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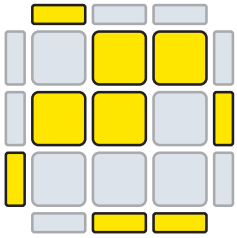
LEVEL 0

DOWNSTAIRS

SMALL LIGHTNING · DOWNSTAIRS



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



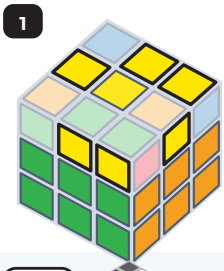
ALG r U R' U (R' F R F') R U2 r'

CASE



SMALL LIGHTNING · DOWNSTAIRS

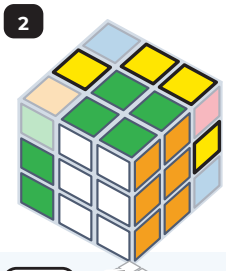
1



r

RIGHT TWO LAYERS · UP

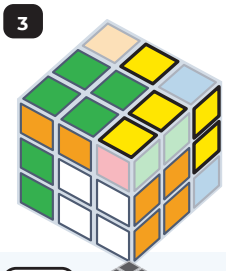
2



U

TOP LAYER · LEFT

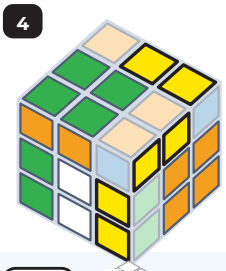
3



R'

RIGHT LAYER · DOWN

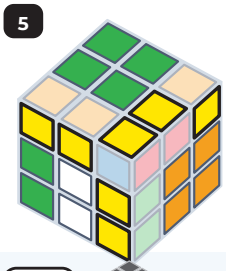
4



U

TOP LAYER · LEFT

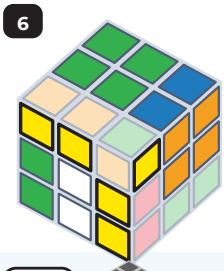
5



R'

RIGHT LAYER · DOWN

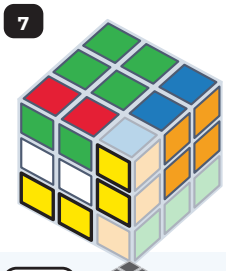
6



F

FRONT · CLOCKWISE

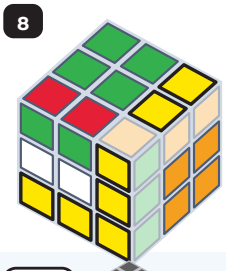
7



R

RIGHT LAYER · UP

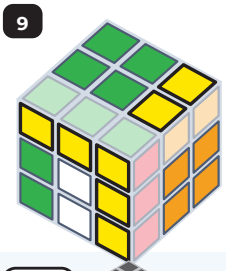
8



F'

FRONT · COUNTER-CLOCKWISE

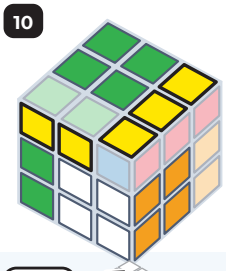
9



R

RIGHT LAYER · UP

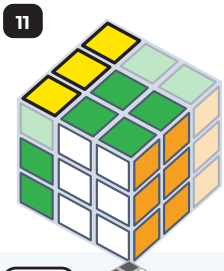
10



U2

TOP LAYER · HALF TURN

11



r'

RIGHT TWO LAYERS · DOWN

END



DONE

YELLOW FACE DONE

OLL #27 OFFICIAL: OLL 12

Zs · 4 OF 6

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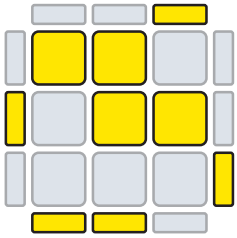
LEVEL 0

UPSTAIRS

SMALL LIGHTNING · UPSTAIRS



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



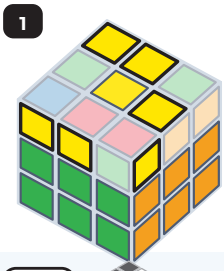
ALG M' (R' U' R) U' (R' U2 R) U' R r'

CASE



SMALL LIGHTNING · UPSTAIRS

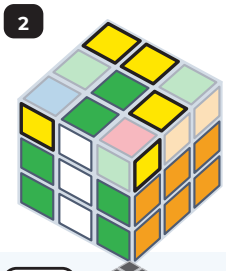
1



M'

MIDDLE SLICE · UP

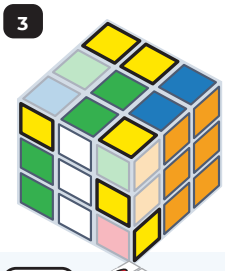
2



R'

RIGHT LAYER · DOWN

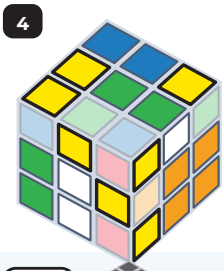
3



U'

TOP LAYER · RIGHT

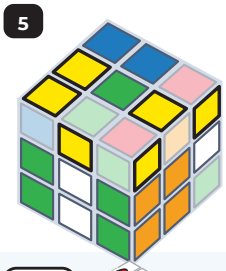
4



R

RIGHT LAYER · UP

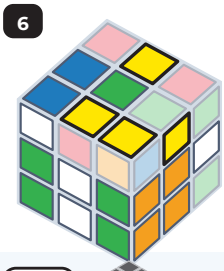
5



U'

TOP LAYER · RIGHT

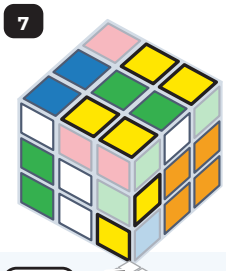
6



R'

RIGHT LAYER · DOWN

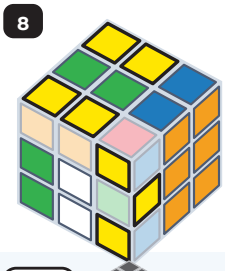
7



U2

TOP LAYER · HALF TURN

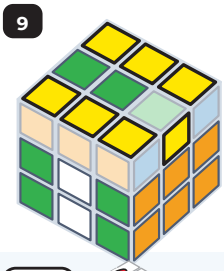
8



R

RIGHT LAYER · UP

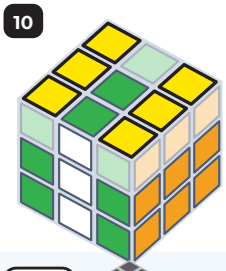
9



U'

TOP LAYER · RIGHT

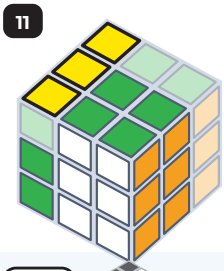
10



R

RIGHT LAYER · UP

11



r'

RIGHT TWO LAYERS · DOWN

END



DONE

YELLOW FACE DONE

OLL #28 OFFICIAL: OLL 39

Zs · 5 OF 6

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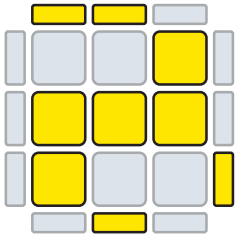
LEVEL 0

FUNG

BIG LIGHTNING · FUNG



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



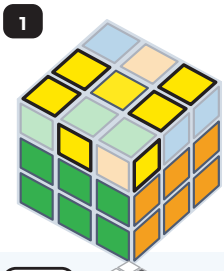
ALG **L F' (L' U' L U) F U' L'**

CASE



BIG LIGHTNING · FUNG

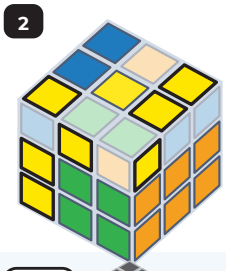
1



L

LEFT LAYER · DOWN

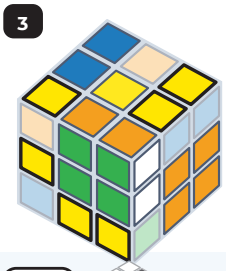
2



F'

FRONT · COUNTER-CLOCKWISE

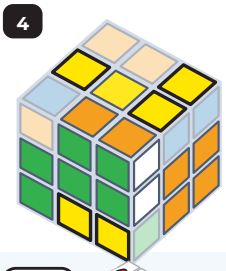
3



L'

LEFT LAYER · UP

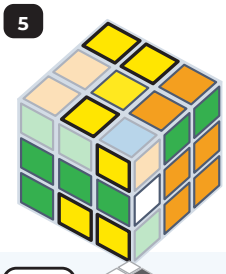
4



U'

TOP LAYER · RIGHT

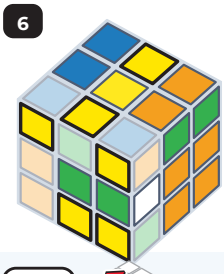
5



L

LEFT LAYER · DOWN

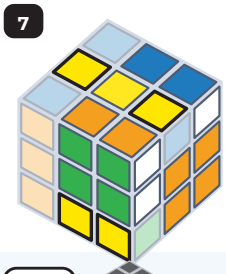
6



U

TOP LAYER · LEFT

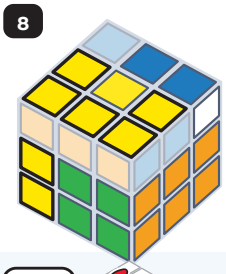
7



F

FRONT · CLOCKWISE

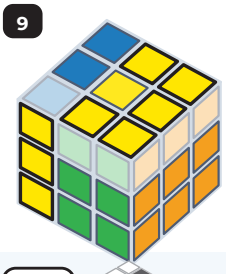
8



U'

TOP LAYER · RIGHT

9



L'

LEFT LAYER · UP

END



DONE

YELLOW FACE DONE

OLL #29 OFFICIAL: OLL 40

Zs · 6 OF 6

Video on YouTube
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levelcero.com · drawings

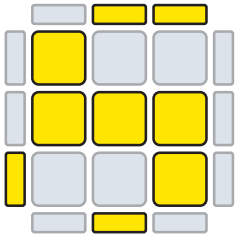
LEVEL 0

ANTI-FUNG

BIG LIGHTNING · MIRROR OF 39



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



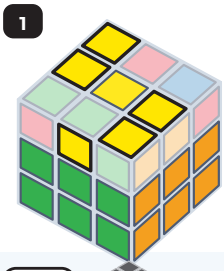
ALG R' F (R U R' U') F' U R

CASE



BIG LIGHTNING · MIRROR OF 39

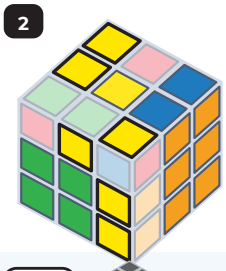
1



R'

RIGHT LAYER · DOWN

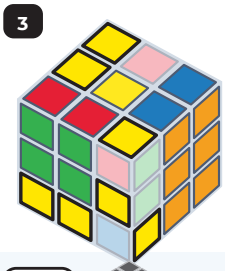
2



F

FRONT · CLOCKWISE

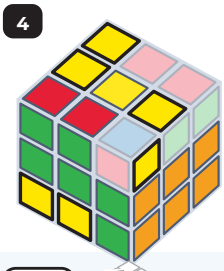
3



R

RIGHT LAYER · UP

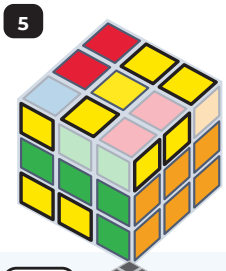
4



U

TOP LAYER · LEFT

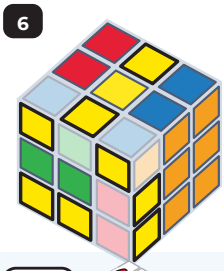
5



R'

RIGHT LAYER · DOWN

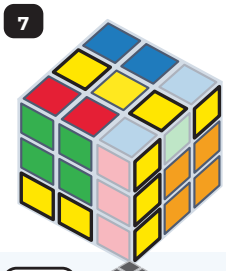
6



U'

TOP LAYER · RIGHT

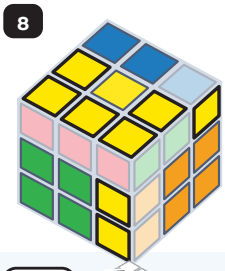
7



F'

FRONT · COUNTER-CLOCKWISE

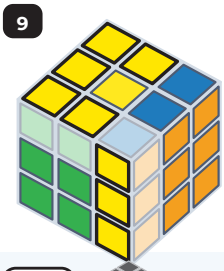
8



U

TOP LAYER · LEFT

9



R

RIGHT LAYER · UP

END



DONE

YELLOW FACE DONE

OLL #30 OFFICIAL: OLL 13

BIG Ls · 1 OF 4

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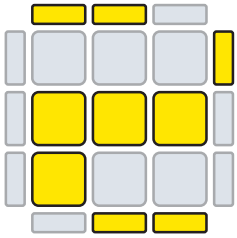
LEVEL 0

GUN

KNIGHT · GUN



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



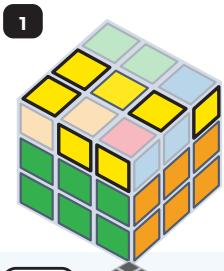
ALG F U R U' R2 F' R U (R U' R')

CASE



KNIGHT · GUN

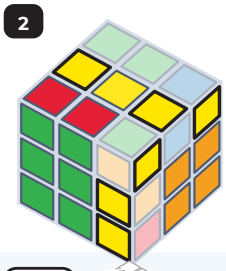
1



F

FRONT · CLOCKWISE

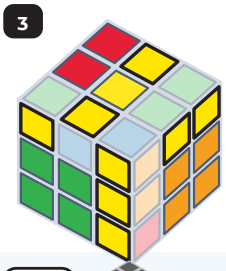
2



U

TOP LAYER · LEFT

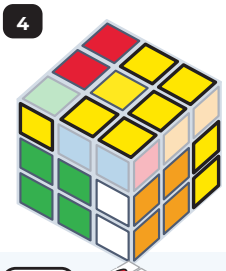
3



R

RIGHT LAYER · UP

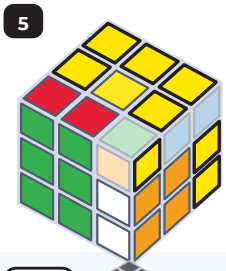
4



U'

TOP LAYER · RIGHT

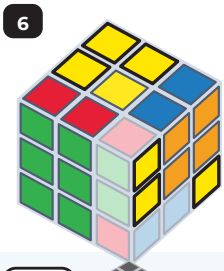
5



R2

RIGHT LAYER · HALF TURN

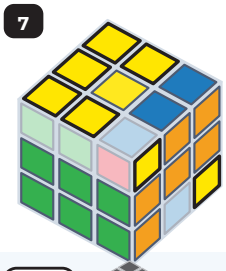
6



F'

FRONT · COUNTER-CLOCKWISE

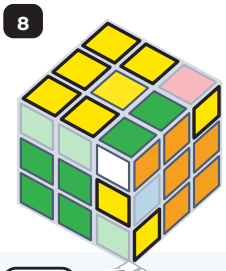
7



R

RIGHT LAYER · UP

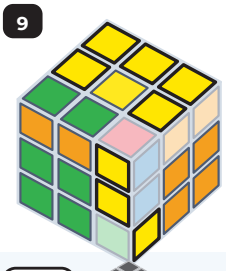
8



U

TOP LAYER · LEFT

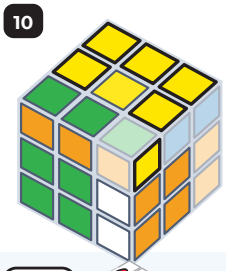
9



R

RIGHT LAYER · UP

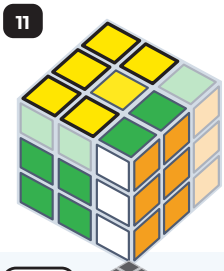
10



U'

TOP LAYER · RIGHT

11



R'

RIGHT LAYER · DOWN

END



DONE

YELLOW FACE DONE

OLL #31 OFFICIAL: OLL 14

BIG Ls · 2 OF 4

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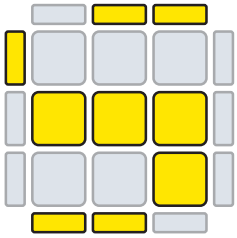
LEVEL 0

ANTI-GUN

KNIGHT · ANTI-GUN



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



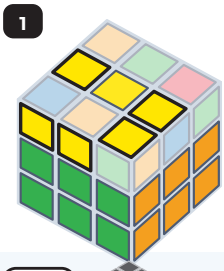
ALG R' F (R U R') F' R (F U' F')

CASE



KNIGHT · ANTI-GUN

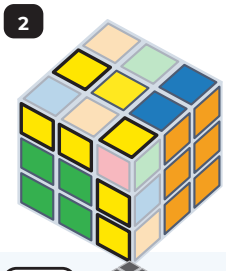
1



R'

RIGHT LAYER · DOWN

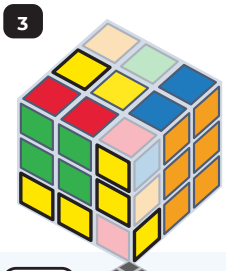
2



F

FRONT · CLOCKWISE

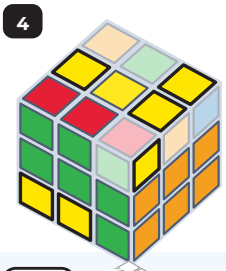
3



R

RIGHT LAYER · UP

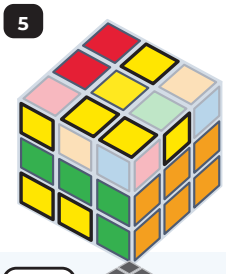
4



U

TOP LAYER · LEFT

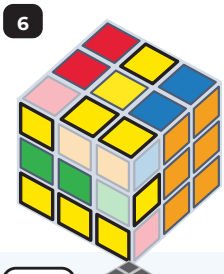
5



R'

RIGHT LAYER · DOWN

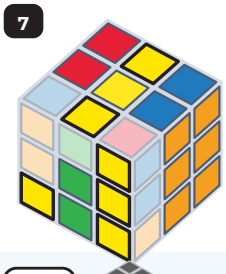
6



F'

FRONT · COUNTER-CLOCKWISE

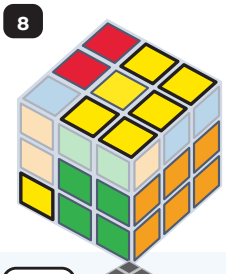
7



R

RIGHT LAYER · UP

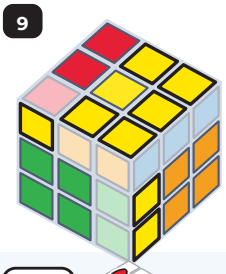
8



F

FRONT · CLOCKWISE

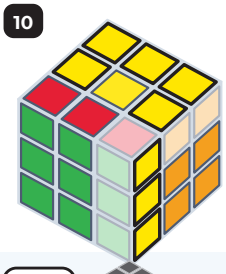
9



U'

TOP LAYER · RIGHT

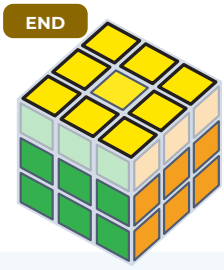
10



F'

FRONT · COUNTER-CLOCKWISE

END



DONE

YELLOW FACE DONE

OLL #32 OFFICIAL: OLL 15

BIG Ls · 3 OF 4

Video on YouTube
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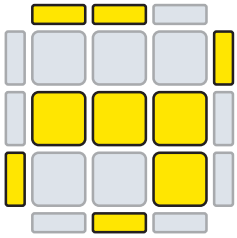
LEVEL 0

SQUEEGEE

KNIGHT · SQUEEGEE



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



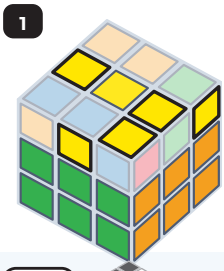
ALG (r' U' r) (R' U' R) U (r' U r)

CASE



KNIGHT · SQUEEGEE

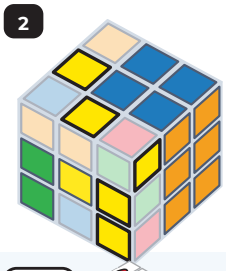
1



r' 

RIGHT TWO LAYERS · DOWN

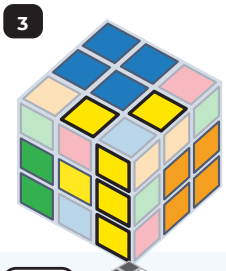
2



U' 

TOP LAYER · RIGHT

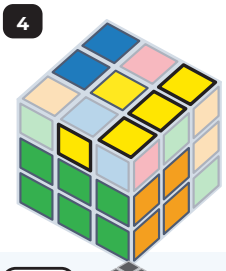
3



r 

RIGHT TWO LAYERS · UP

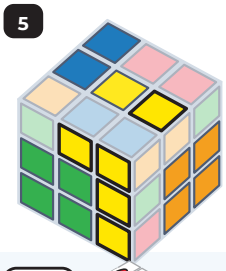
4



R' 

RIGHT LAYER · DOWN

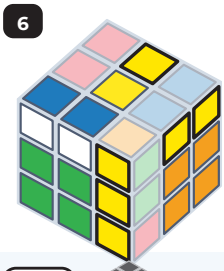
5



U' 

TOP LAYER · RIGHT

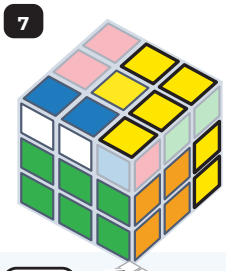
6



R 

RIGHT LAYER · UP

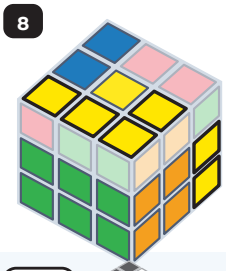
7



U 

TOP LAYER · LEFT

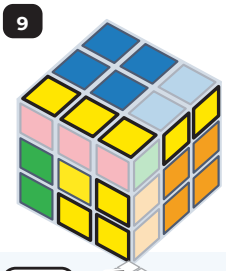
8



r' 

RIGHT TWO LAYERS · DOWN

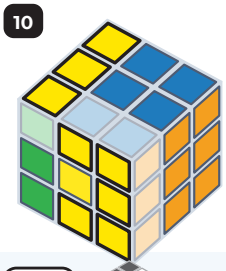
9



U 

TOP LAYER · LEFT

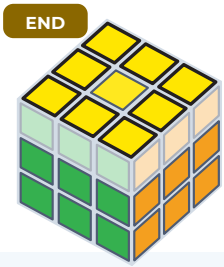
10



r 

RIGHT TWO LAYERS · UP

END



DONE

YELLOW FACE DONE

OLL #33 OFFICIAL: OLL 16

BIG Ls · 4 OF 4

Video on YouTube
scan the QR
levelcero.com · drawings

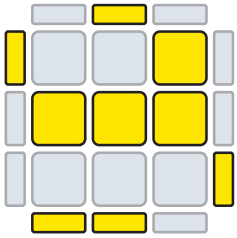
LEVEL 0

ANTI-SQUEEGEE

KNIGHT · ANTI-SQUEEGEE



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



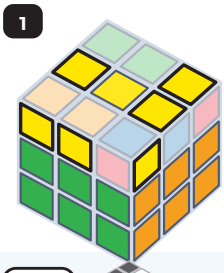
ALG (r U r') (R U R' U') (r U' r')

CASE



KNIGHT · ANTI-SQUEEGEE

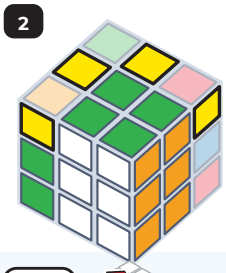
1



r 

RIGHT TWO LAYERS · UP

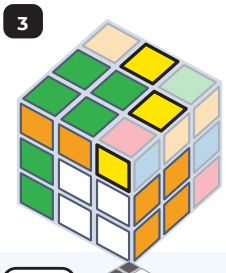
2



U 

TOP LAYER · LEFT

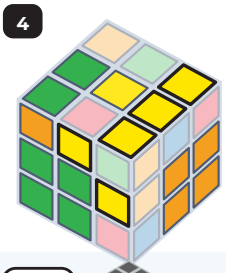
3



r' 

RIGHT TWO LAYERS · DOWN

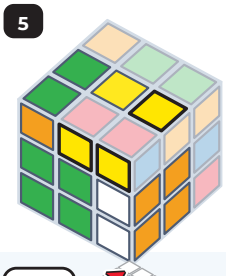
4



R 

RIGHT LAYER · UP

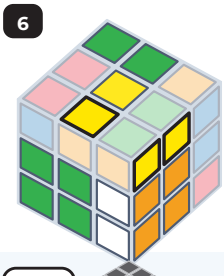
5



U 

TOP LAYER · LEFT

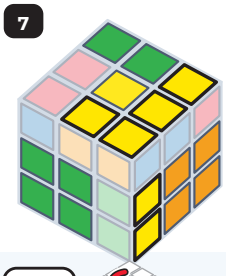
6



R' 

RIGHT LAYER · DOWN

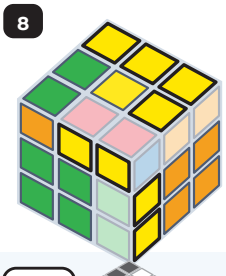
7



U' 

TOP LAYER · RIGHT

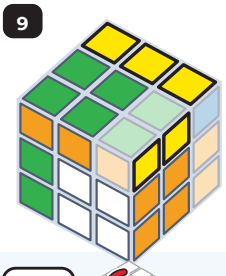
8



r 

RIGHT TWO LAYERS · UP

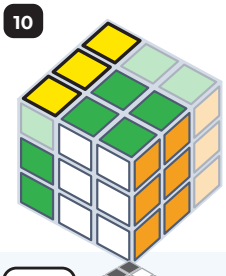
9



U' 

TOP LAYER · RIGHT

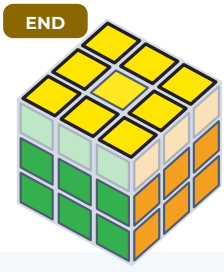
10



r' 

RIGHT TWO LAYERS · DOWN

END



DONE

YELLOW FACE DONE

OLL #34 OFFICIAL: OLL 34

Cs · 1 OF 2

Video on YouTube
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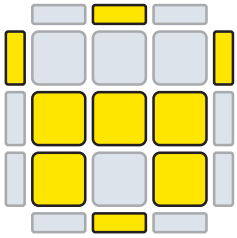
LEVEL 0

CITY

C SHAPE · CITY



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



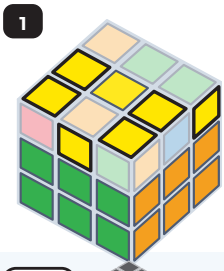
ALG R U R2 U' R' F R U R U' F'

CASE



C SHAPE · CITY

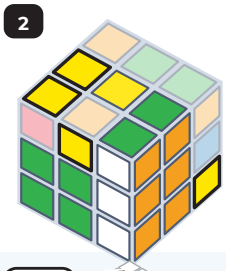
1



R

RIGHT LAYER · UP

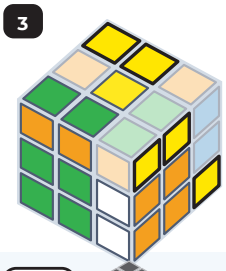
2



U

TOP LAYER · LEFT

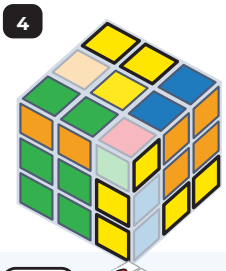
3



R2

RIGHT LAYER · HALF TURN

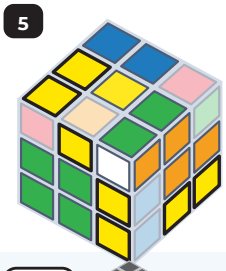
4



U'

TOP LAYER · RIGHT

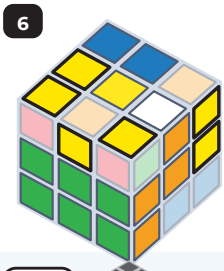
5



R'

RIGHT LAYER · DOWN

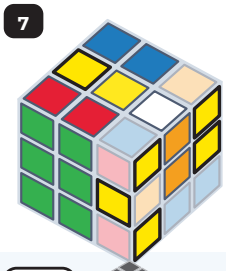
6



F

FRONT · CLOCKWISE

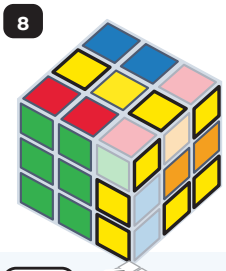
7



R

RIGHT LAYER · UP

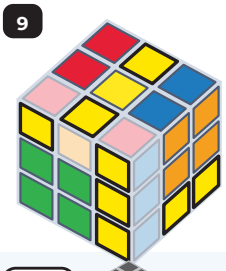
8



U

TOP LAYER · LEFT

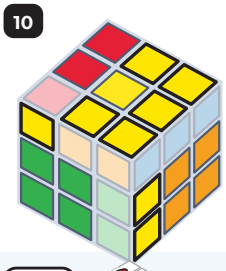
9



R

RIGHT LAYER · UP

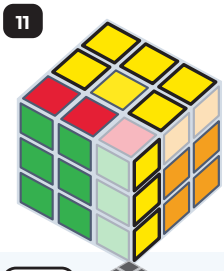
10



U'

TOP LAYER · RIGHT

11



F'

FRONT · COUNTER-CLOCKWISE

END



DONE

YELLOW FACE DONE

OLL #35 OFFICIAL: OLL 46

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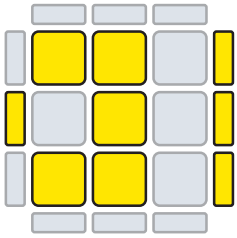
LEVEL 0

C

C SHAPE · 46



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right

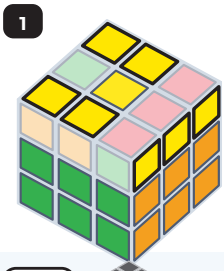


ALG R' U' (R' F R F') U R



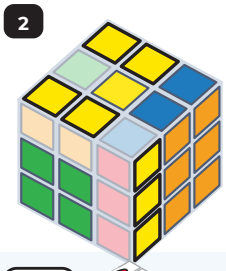
CASE

C SHAPE · 46



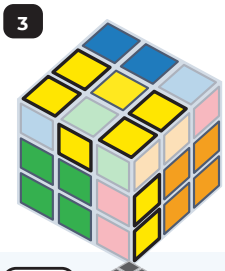
1 R'

RIGHT LAYER · DOWN



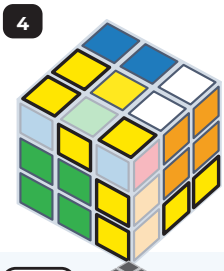
2 U'

TOP LAYER · RIGHT



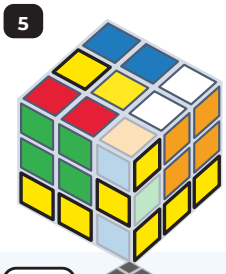
3 R'

RIGHT LAYER · DOWN



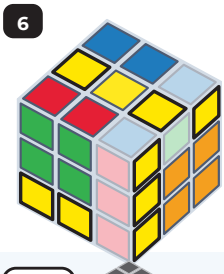
4 F

FRONT · CLOCKWISE



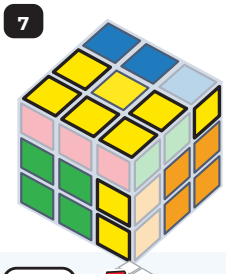
5 R

RIGHT LAYER · UP



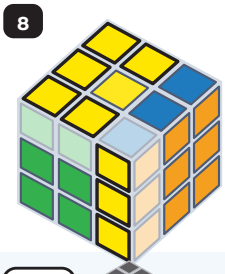
6 F'

FRONT · COUNTER-CLOCKWISE



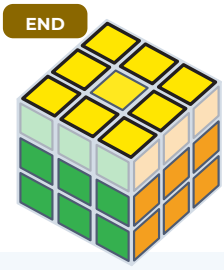
7 U

TOP LAYER · LEFT



8 R

RIGHT LAYER · UP



END

DONE

YELLOW FACE DONE

OLL #36 OFFICIAL: OLL 36

Ws · 1 OF 2

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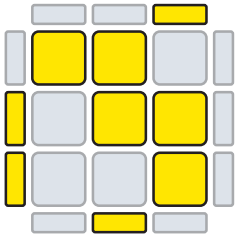
LEVEL 0

WARIO

W SHAPE · WARIO



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



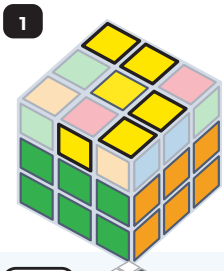
ALG (L' U' L) U' (L' U L) U (L F' L' F)

CASE



W SHAPE · WARIO

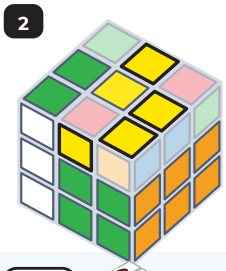
1



L'

LEFT LAYER · UP

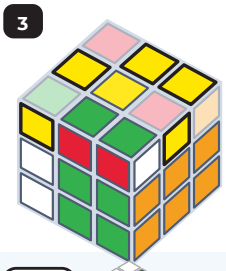
2



U'

TOP LAYER · RIGHT

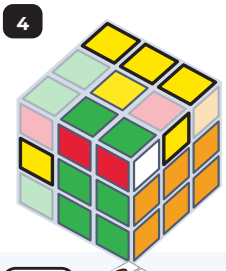
3



L

LEFT LAYER · DOWN

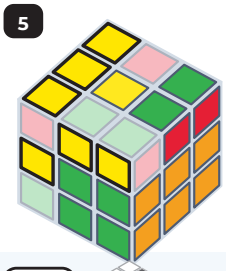
4



U'

TOP LAYER · RIGHT

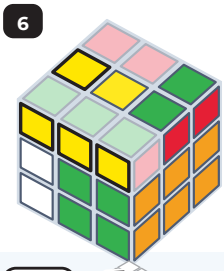
5



L'

LEFT LAYER · UP

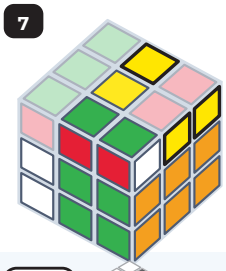
6



U

TOP LAYER · LEFT

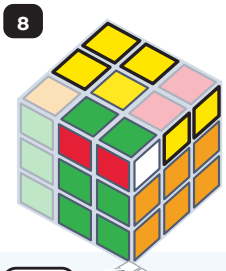
7



L

LEFT LAYER · DOWN

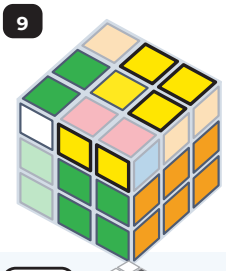
8



U

TOP LAYER · LEFT

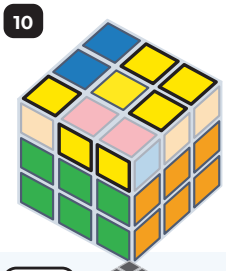
9



L

LEFT LAYER · DOWN

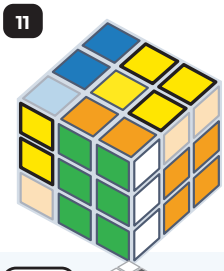
10



F'

FRONT · COUNTER-CLOCKWISE

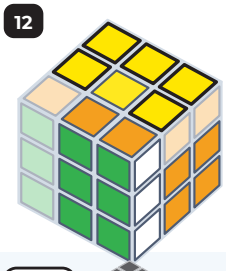
11



L'

LEFT LAYER · UP

12



F

FRONT · CLOCKWISE

END



DONE

YELLOW FACE DONE

OLL #37 OFFICIAL: OLL 38

Ws · 2 OF 2

Video on YouTube
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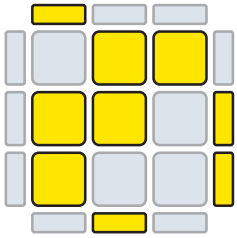
LEVEL 0

MARIO

W SHAPE · MARIO



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right

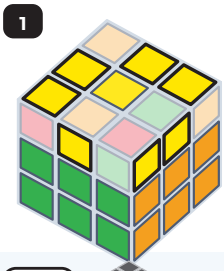


ALG (R U R') U (R U' R') U' (R' F R F')



CASE

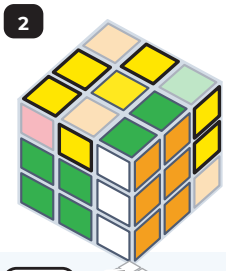
W SHAPE · MARIO



1

R

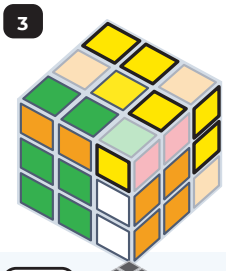
RIGHT LAYER · UP



2

U

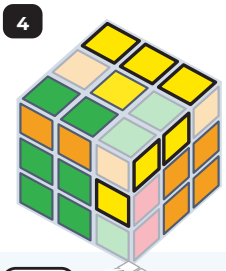
TOP LAYER · LEFT



3

R'

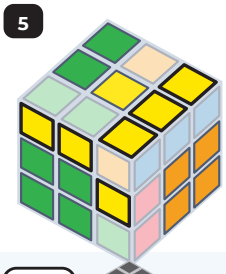
RIGHT LAYER · DOWN



4

U

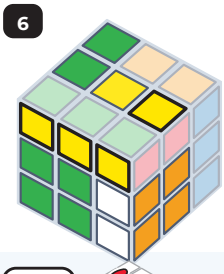
TOP LAYER · LEFT



5

R

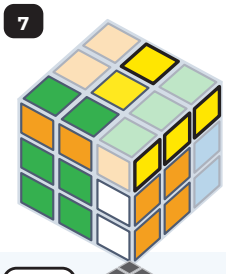
RIGHT LAYER · UP



6

U'

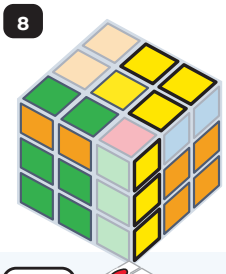
TOP LAYER · RIGHT



7

R'

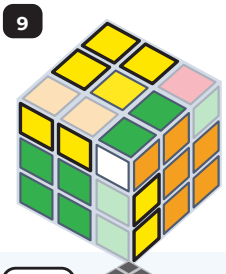
RIGHT LAYER · DOWN



8

U'

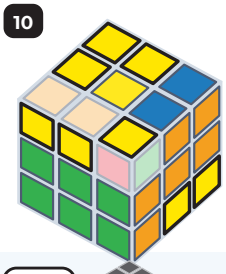
TOP LAYER · RIGHT



9

R'

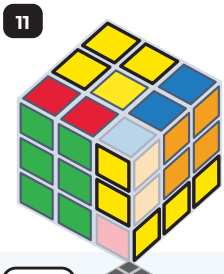
RIGHT LAYER · DOWN



10

F

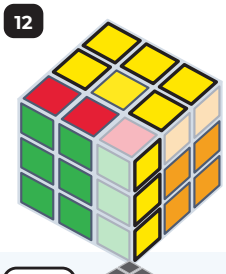
FRONT · CLOCKWISE



11

R

RIGHT LAYER · UP



12

F'

FRONT · COUNTER-CLOCKWISE



END

DONE

YELLOW FACE DONE

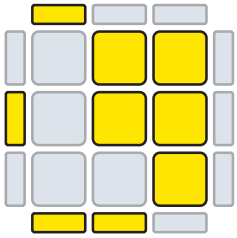
OLL #38 OFFICIAL: OLL 31

Video on YouTube
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levelcero.com · drawings

COUCH

P SHAPE · COUCH

HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



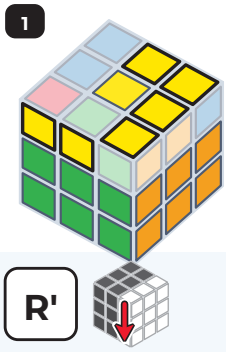
ALG **R' U' F U (R U' R') F' R**

CASE



P SHAPE · COUCH

1



R'

RIGHT LAYER · DOWN

2



U'

TOP LAYER · RIGHT

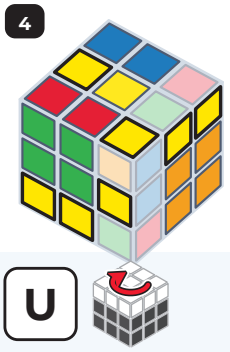
3



F

FRONT · CLOCKWISE

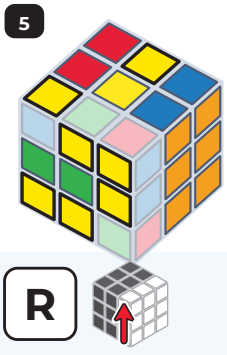
4



U

TOP LAYER · LEFT

5



R

RIGHT LAYER · UP

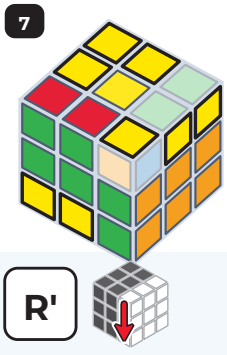
6



U'

TOP LAYER · RIGHT

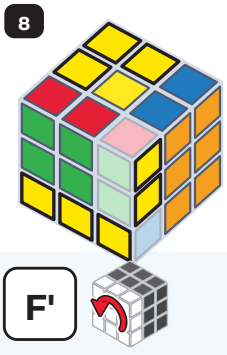
7



R'

RIGHT LAYER · DOWN

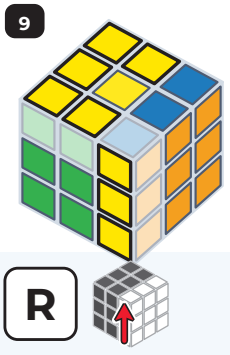
8



F'

FRONT · COUNTER-CLOCKWISE

9



R

RIGHT LAYER · UP

END



DONE

YELLOW FACE DONE

OLL #39 OFFICIAL: OLL 32

Ps · 2 OF 4

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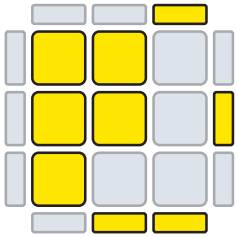
LEVEL 0

ANTI-COUCH

P SHAPE · MIRROR OF 31



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



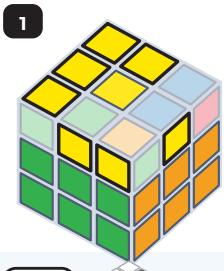
ALG **L U F' U' (L' U L) F L'**

CASE



P SHAPE · MIRROR OF 31

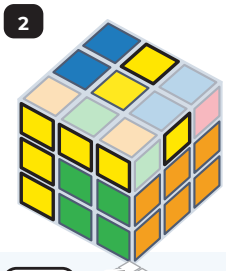
1



L

LEFT LAYER · DOWN

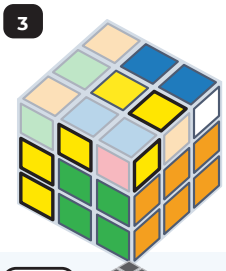
2



U

TOP LAYER · LEFT

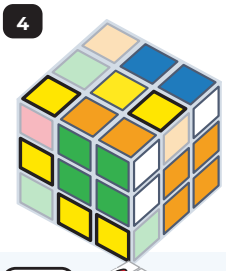
3



F'

FRONT · COUNTER-CLOCKWISE

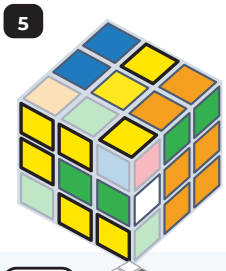
4



U'

TOP LAYER · RIGHT

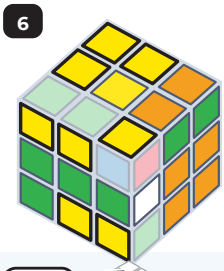
5



L'

LEFT LAYER · UP

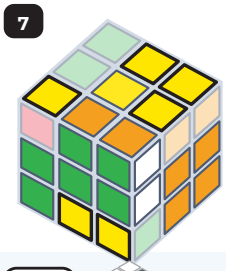
6



U

TOP LAYER · LEFT

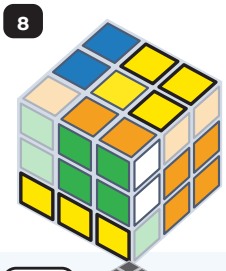
7



L

LEFT LAYER · DOWN

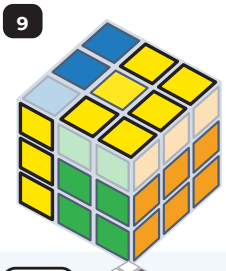
8



F

FRONT · CLOCKWISE

9



L'

LEFT LAYER · UP

END



DONE

YELLOW FACE DONE

OLL #40 OFFICIAL: OLL 43

Ps · 3 OF 4

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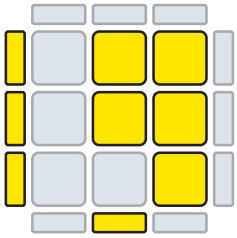
LEVEL 0

P

P SHAPE · 43



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



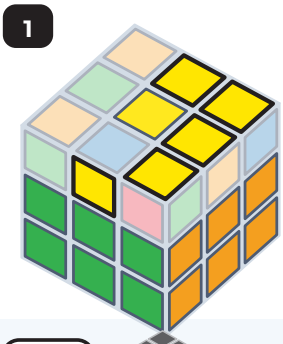
ALG **F' U' (L' U L) F**

CASE



P SHAPE · 43

1

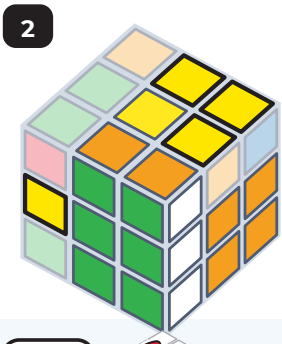


F'



FRONT · COUNTER-CLOCKWISE

2

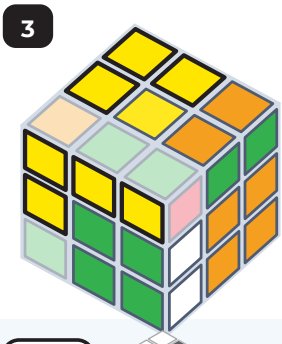


U'

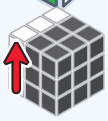


TOP LAYER · RIGHT

3

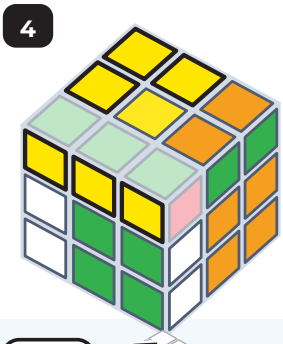


L'



LEFT LAYER · UP

4

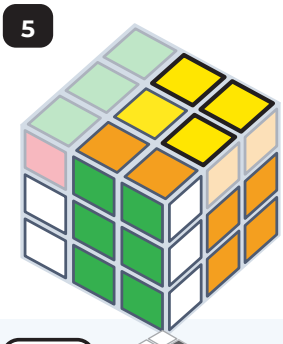


U



TOP LAYER · LEFT

5

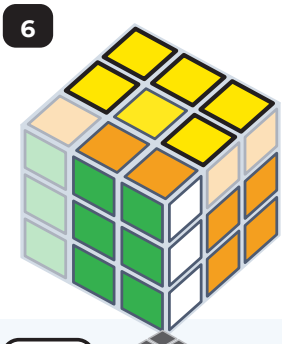


L



LEFT LAYER · DOWN

6

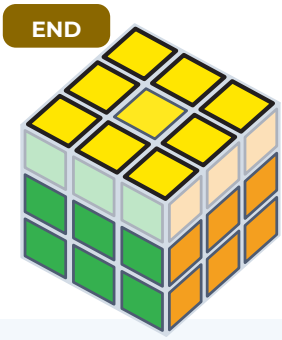


F



FRONT · CLOCKWISE

END



DONE

YELLOW FACE DONE

OLL #41 OFFICIAL: OLL 44

Ps · 4 OF 4

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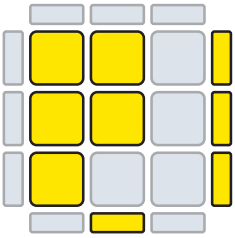
LEVEL 0

P

P SHAPE · MIRROR OF 43



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



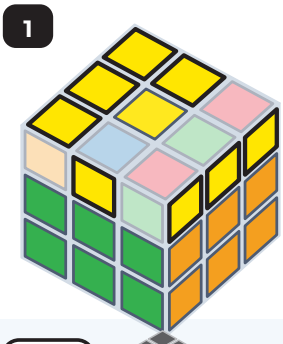
ALG F U (R U' R') F'

CASE



P SHAPE · MIRROR OF 43

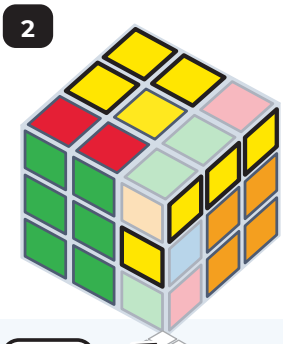
1



F

FRONT · CLOCKWISE

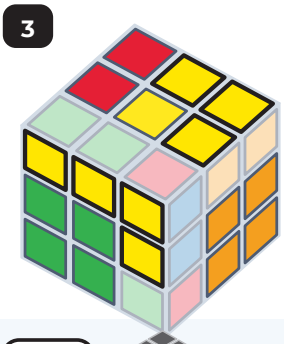
2



U

TOP LAYER · LEFT

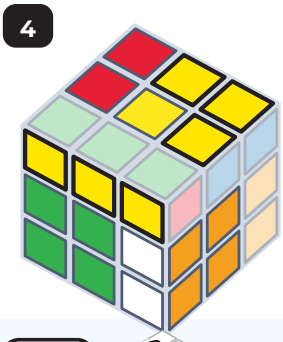
3



R

RIGHT LAYER · UP

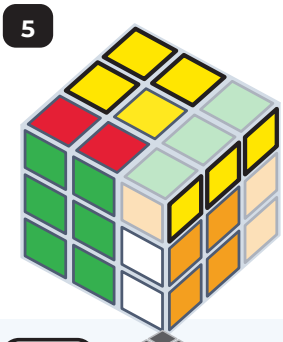
4



U'

TOP LAYER · RIGHT

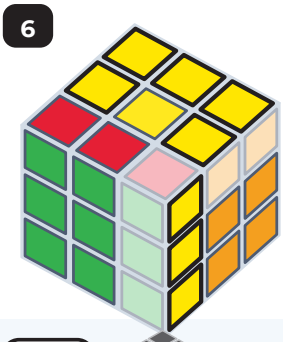
5



R'

RIGHT LAYER · DOWN

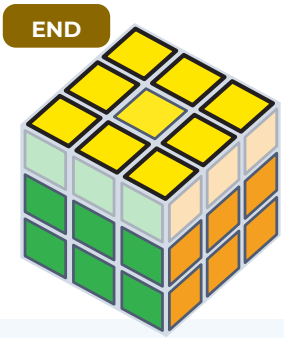
6



F'

FRONT · COUNTER-CLOCKWISE

END



DONE

YELLOW FACE DONE

OLL #42 OFFICIAL: OLL 5

SQUARES · 1 OF 2

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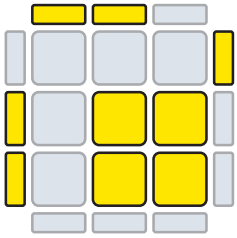
LEVEL 0

LEFTY SQUARE

SQUARE · LEFTY



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



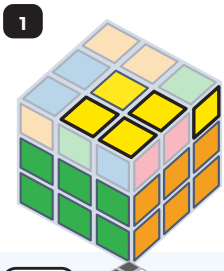
ALG r' U2 (R U R') U r

CASE



SQUARE · LEFTY

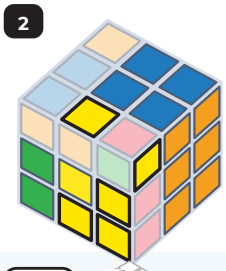
1



r'

RIGHT TWO LAYERS · DOWN

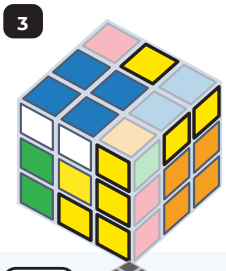
2



U2

TOP LAYER · HALF TURN

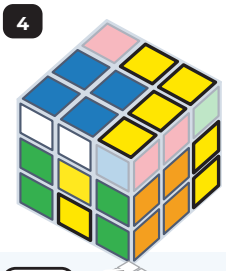
3



R

RIGHT LAYER · UP

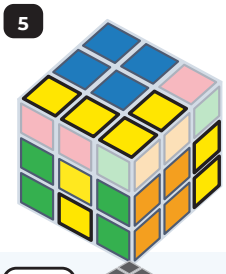
4



U

TOP LAYER · LEFT

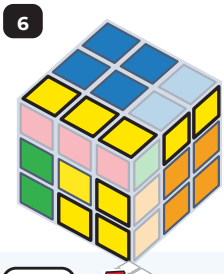
5



R'

RIGHT LAYER · DOWN

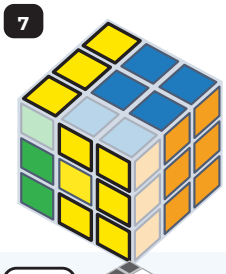
6



U

TOP LAYER · LEFT

7



r

RIGHT TWO LAYERS · UP

END



DONE

YELLOW FACE DONE

OLL #43 OFFICIAL: OLL 6

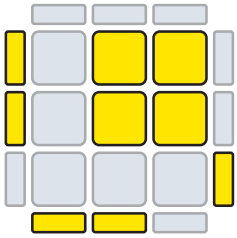
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RIGHTY SQUARE

SQUARE · RIGHTY



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



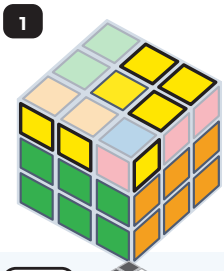
ALG r U2 (R' U' R) U' r'

CASE



SQUARE · RIGHTY

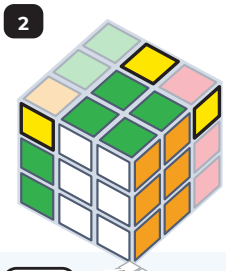
1



r

RIGHT TWO LAYERS · UP

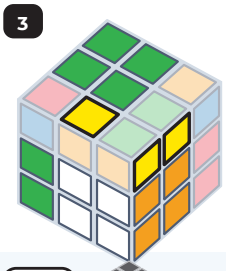
2



U2

TOP LAYER · HALF TURN

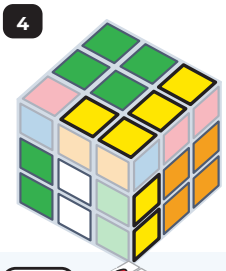
3



R'

RIGHT LAYER · DOWN

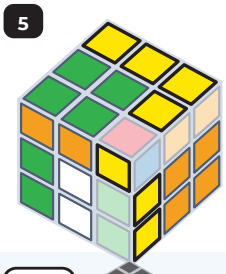
4



U'

TOP LAYER · RIGHT

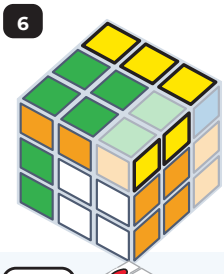
5



R

RIGHT LAYER · UP

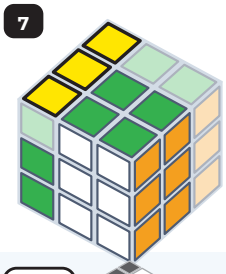
6



U'

TOP LAYER · RIGHT

7



r'

RIGHT TWO LAYERS · DOWN

END



DONE

YELLOW FACE DONE

OLL #44 OFFICIAL: OLL 47

LITTLE Ls · 1 OF 6

Video on YouTube
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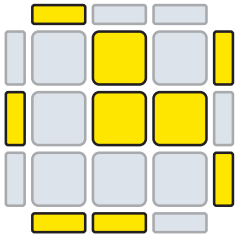
LEVEL 0

BREAKNECK

SMALL L · BREAKNECK



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right

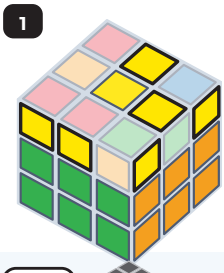


ALG R' U' (R' F R F') (R' F R F') U R



CASE

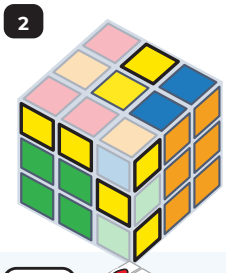
SMALL L · BREAKNECK



1

R'

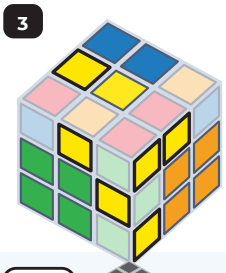
RIGHT LAYER · DOWN



2

U'

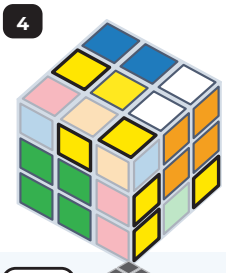
TOP LAYER · RIGHT



3

R'

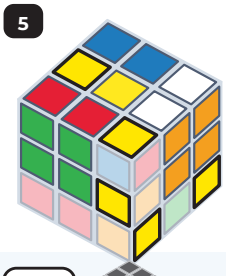
RIGHT LAYER · DOWN



4

F

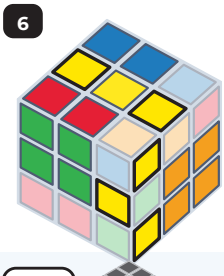
FRONT · CLOCKWISE



5

R

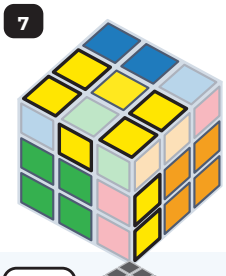
RIGHT LAYER · UP



6

F'

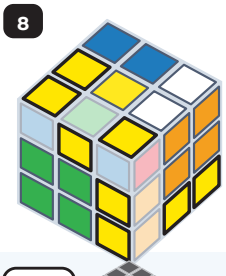
FRONT · COUNTER-CLOCKWISE



7

R'

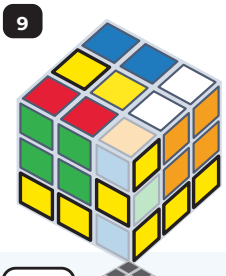
RIGHT LAYER · DOWN



8

F

FRONT · CLOCKWISE



9

R

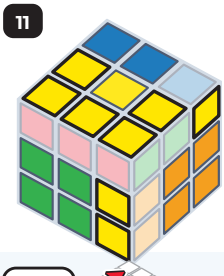
RIGHT LAYER · UP



10

F'

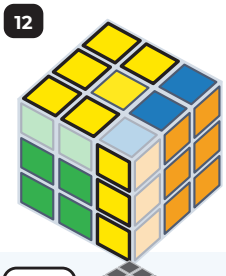
FRONT · COUNTER-CLOCKWISE



11

U

TOP LAYER · LEFT



12

R

RIGHT LAYER · UP



END

DONE

YELLOW FACE DONE

OLL #45 OFFICIAL: OLL 48

LITTLE Ls · 2 OF 6

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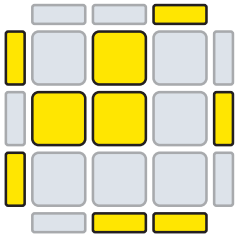
LEVEL 0

ANTI-BREAKNECK

SMALL L · MIRROR OF 47



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



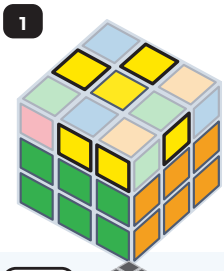
ALG F (R U R' U') (R U R' U') F'

CASE



SMALL L · MIRROR OF 47

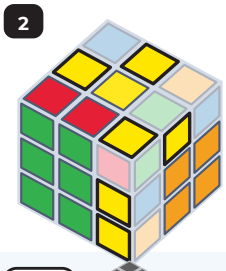
1



F

FRONT · CLOCKWISE

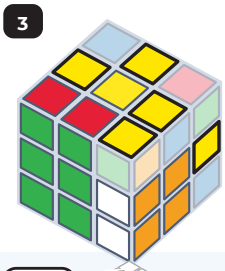
2



R

RIGHT LAYER · UP

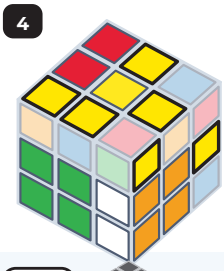
3



U

TOP LAYER · LEFT

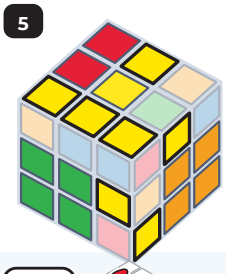
4



R'

RIGHT LAYER · DOWN

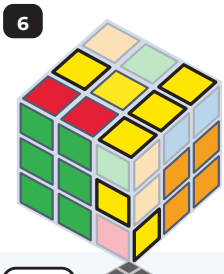
5



U'

TOP LAYER · RIGHT

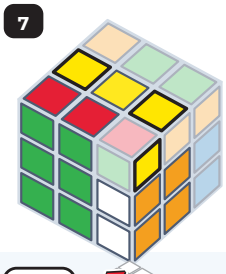
6



R

RIGHT LAYER · UP

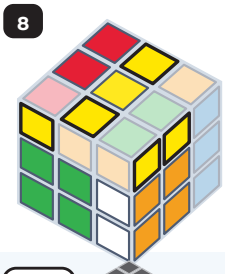
7



U

TOP LAYER · LEFT

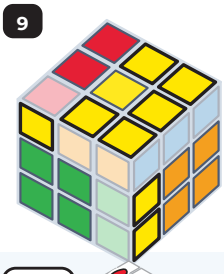
8



R'

RIGHT LAYER · DOWN

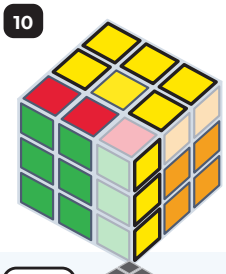
9



U'

TOP LAYER · RIGHT

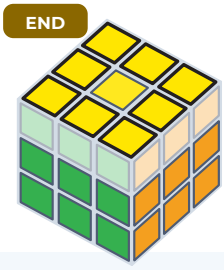
10



F'

FRONT · COUNTER-CLOCKWISE

END



DONE

YELLOW FACE DONE

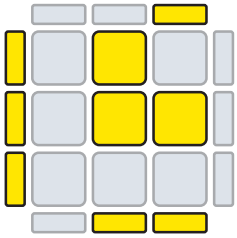
OLL #46 OFFICIAL: OLL 49

Video on YouTube
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L

SMALL L · 49

HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



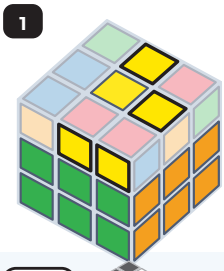
ALG r U' r2 U r2 U r2 U' r

CASE



SMALL L · 49

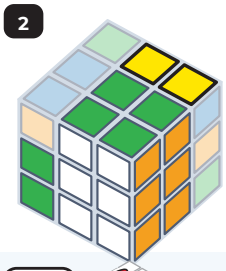
1



r

RIGHT TWO LAYERS · UP

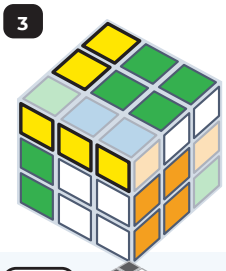
2



U'

TOP LAYER · RIGHT

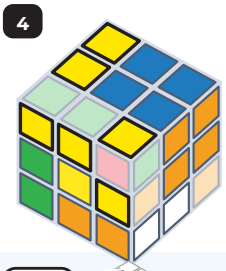
3



r2

RIGHT TWO LAYERS · HALF TURN

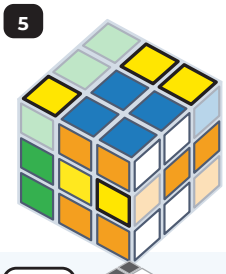
4



U

TOP LAYER · LEFT

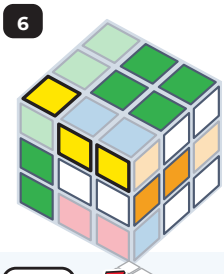
5



r2

RIGHT TWO LAYERS · HALF TURN

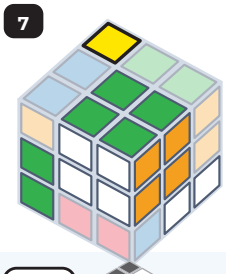
6



U

TOP LAYER · LEFT

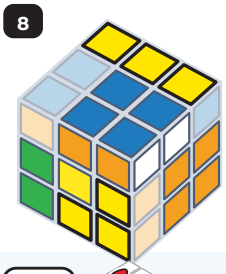
7



r2

RIGHT TWO LAYERS · HALF TURN

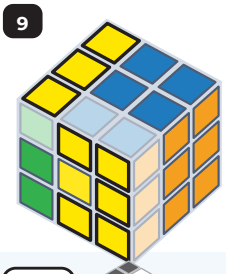
8



U'

TOP LAYER · RIGHT

9



r

RIGHT TWO LAYERS · UP

END



DONE

YELLOW FACE DONE

OLL #47 OFFICIAL: OLL 50

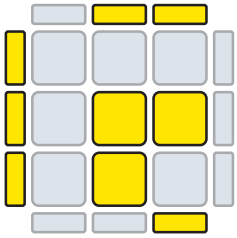
Video on YouTube
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levelcero.com · drawings

L

SMALL L · MIRROR OF 49



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



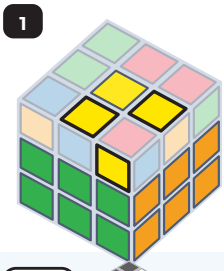
ALG r' U r2 U' r2 U' r2 U r'

CASE



SMALL L · MIRROR OF 49

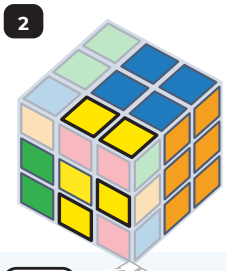
1



r'

RIGHT TWO LAYERS · DOWN

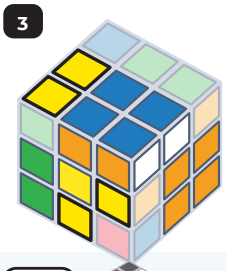
2



U

TOP LAYER · LEFT

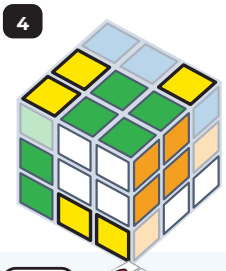
3



r2

RIGHT TWO LAYERS · HALF TURN

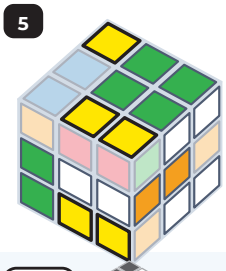
4



U'

TOP LAYER · RIGHT

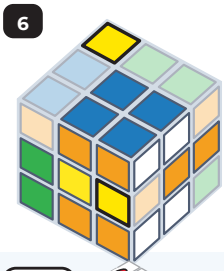
5



r2

RIGHT TWO LAYERS · HALF TURN

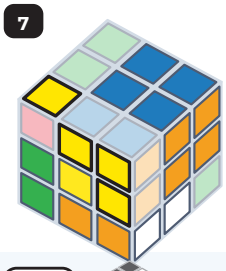
6



U'

TOP LAYER · RIGHT

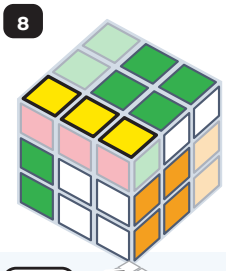
7



r2

RIGHT TWO LAYERS · HALF TURN

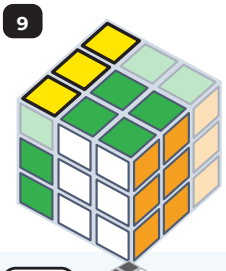
8



U

TOP LAYER · LEFT

9



r'

RIGHT TWO LAYERS · DOWN

END



DONE

YELLOW FACE DONE

OLL #48 OFFICIAL: OLL 53

LITTLE Ls · 5 OF 6

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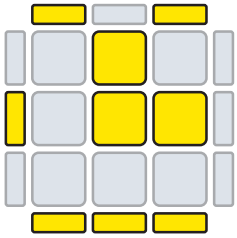
LEVEL 0

L

SMALL L · 53



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



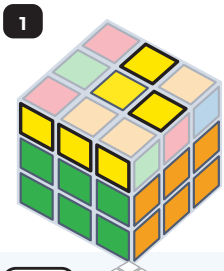
ALG l' U2 (L U L') U' (L U L') U l

CASE



SMALL L · 53

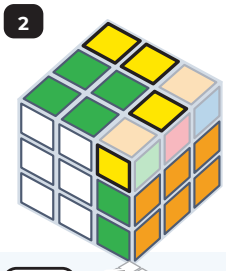
1



l'

LEFT TWO LAYERS · UP

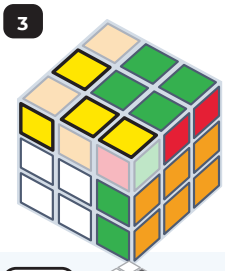
2



U2

TOP LAYER · HALF TURN

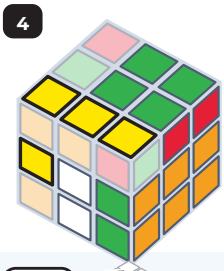
3



L

LEFT LAYER · DOWN

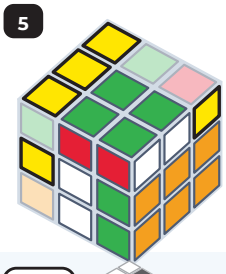
4



U

TOP LAYER · LEFT

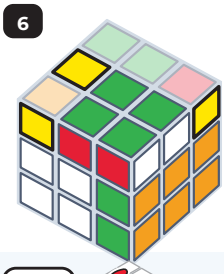
5



L'

LEFT LAYER · UP

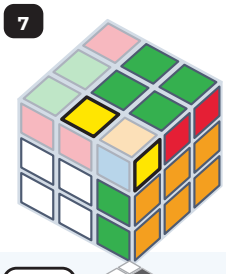
6



U'

TOP LAYER · RIGHT

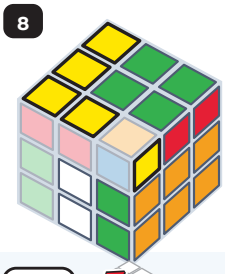
7



L

LEFT LAYER · DOWN

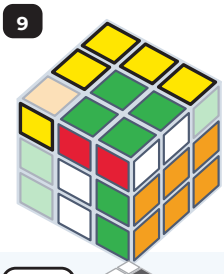
8



U

TOP LAYER · LEFT

9



L'

LEFT LAYER · UP

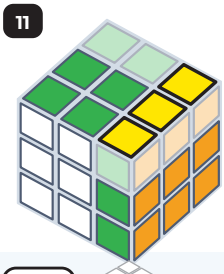
10



U

TOP LAYER · LEFT

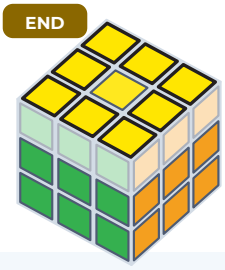
11



l

LEFT TWO LAYERS · DOWN

END



DONE

YELLOW FACE DONE

OLL #49 OFFICIAL: OLL 54

LITTLE Ls · 6 OF 6

Video on YouTube
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levelcero.com · drawings

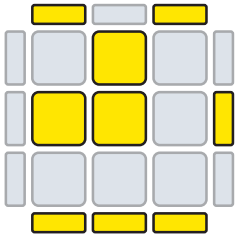
LEVEL 0

L

SMALL L · MIRROR OF 53



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



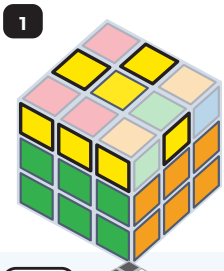
ALG r U2 (R' U' R) U (R' U' R) U' r'

CASE



SMALL L · MIRROR OF 53

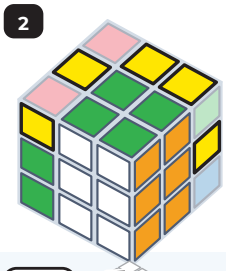
1



r

RIGHT TWO LAYERS · UP

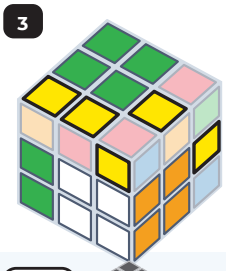
2



U2

TOP LAYER · HALF TURN

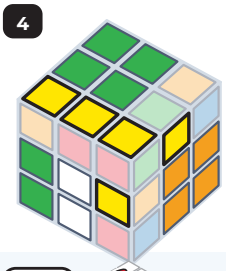
3



R'

RIGHT LAYER · DOWN

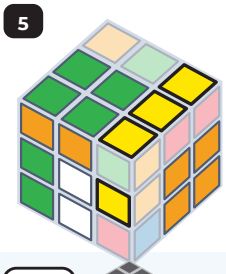
4



U'

TOP LAYER · RIGHT

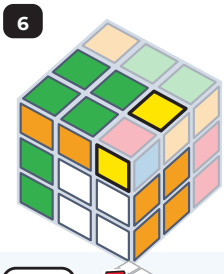
5



R

RIGHT LAYER · UP

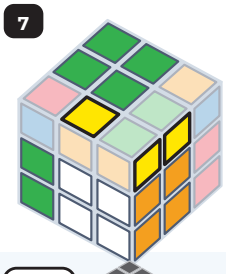
6



U

TOP LAYER · LEFT

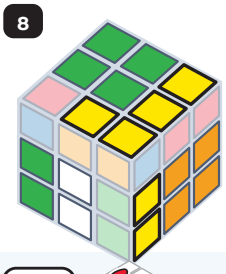
7



R'

RIGHT LAYER · DOWN

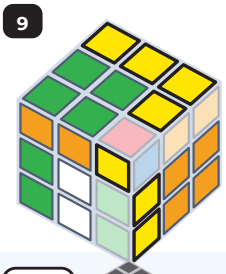
8



U'

TOP LAYER · RIGHT

9



R

RIGHT LAYER · UP

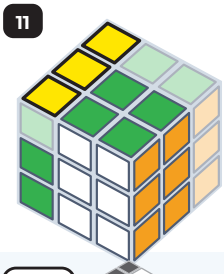
10



U'

TOP LAYER · RIGHT

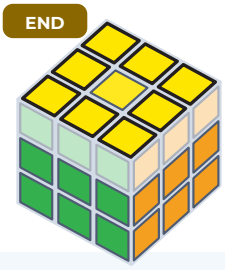
11



r'

RIGHT TWO LAYERS · DOWN

END



DONE

YELLOW FACE DONE

OLL #50 OFFICIAL: OLL 9

OTHERS · 1 OF 8

Video on YouTube
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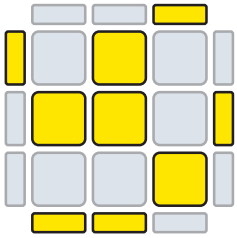
LEVEL 0

KITE

FISH · KITE



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



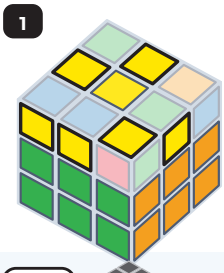
ALG (R U R' U') R' F R2 U R' U' F'

CASE



FISH · KITE

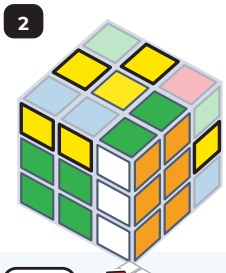
1



R

RIGHT LAYER · UP

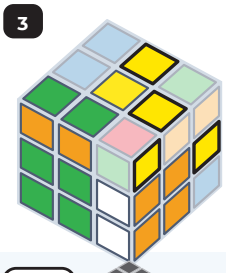
2



U

TOP LAYER · LEFT

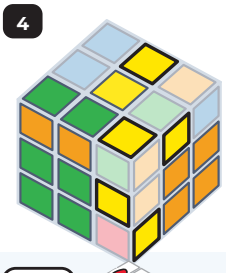
3



R'

RIGHT LAYER · DOWN

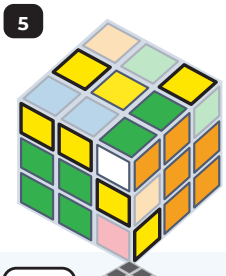
4



U'

TOP LAYER · RIGHT

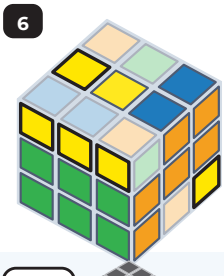
5



R'

RIGHT LAYER · DOWN

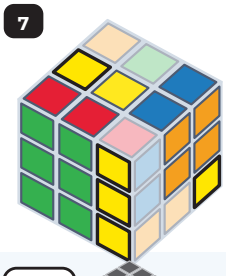
6



F

FRONT · CLOCKWISE

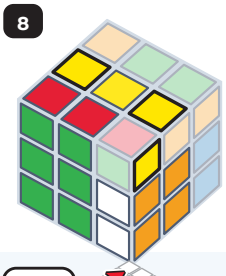
7



R2

RIGHT LAYER · HALF TURN

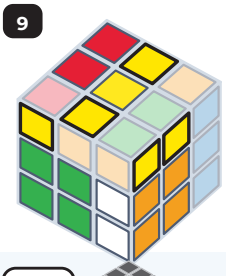
8



U

TOP LAYER · LEFT

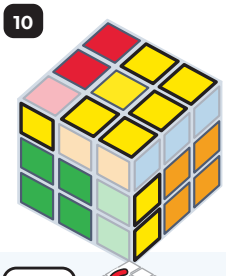
9



R'

RIGHT LAYER · DOWN

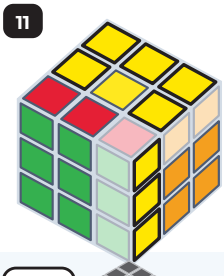
10



U'

TOP LAYER · RIGHT

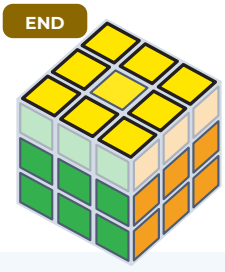
11



F'

FRONT · COUNTER-CLOCKWISE

END



DONE

YELLOW FACE DONE

OLL #51 OFFICIAL: OLL 10

OTHERS · 2 OF 8

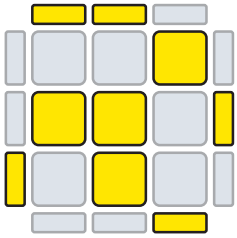
Video on YouTube
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ANTI-KITE

FISH · ANTI-KITE



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



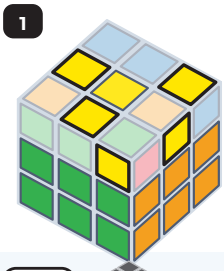
ALG (R U R') U (R' F R F') (R U2 R')

CASE



FISH · ANTI-KITE

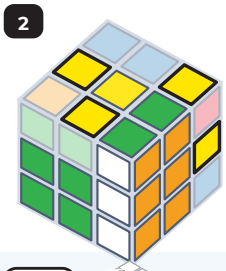
1



R

RIGHT LAYER · UP

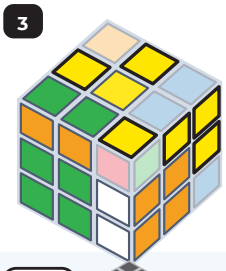
2



U

TOP LAYER · LEFT

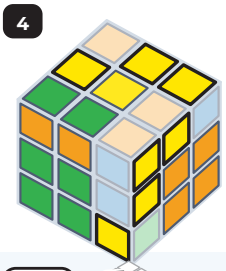
3



R'

RIGHT LAYER · DOWN

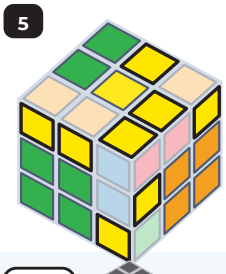
4



U

TOP LAYER · LEFT

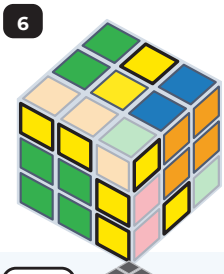
5



R'

RIGHT LAYER · DOWN

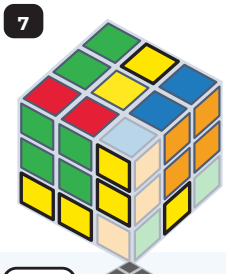
6



F

FRONT · CLOCKWISE

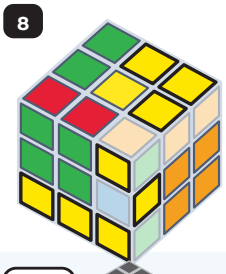
7



R

RIGHT LAYER · UP

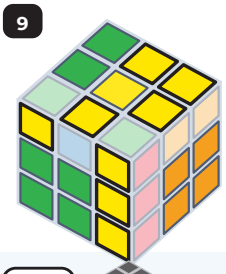
8



F'

FRONT · COUNTER-CLOCKWISE

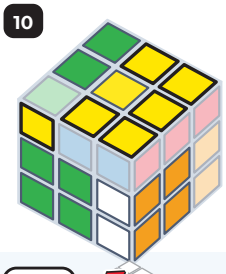
9



R

RIGHT LAYER · UP

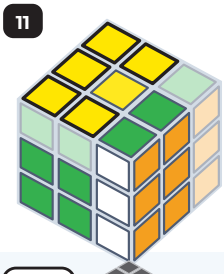
10



U2

TOP LAYER · HALF TURN

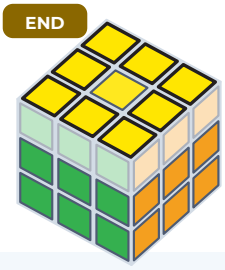
11



R'

RIGHT LAYER · DOWN

END



DONE

YELLOW FACE DONE

OLL #52 OFFICIAL: OLL 35

OTHERS · 3 OF 8

Video on YouTube
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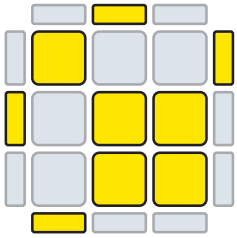
LEVEL 0

FISH SALAD

FISH · FISH SALAD



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



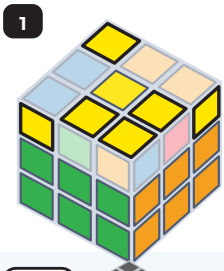
ALG R U2 R2 F R F' (R U2 R')

CASE



FISH · FISH SALAD

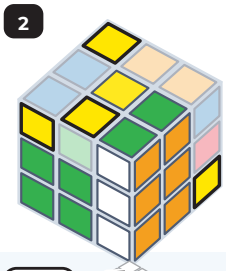
1



R

RIGHT LAYER · UP

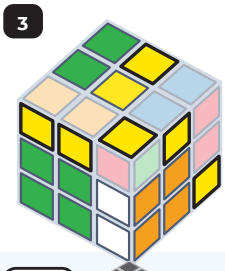
2



U2

TOP LAYER · HALF TURN

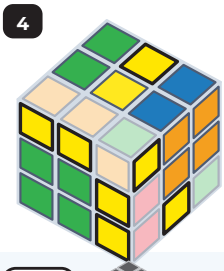
3



R2

RIGHT LAYER · HALF TURN

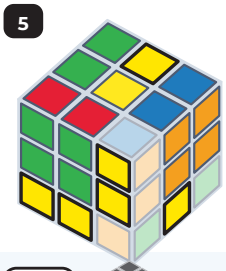
4



F

FRONT · CLOCKWISE

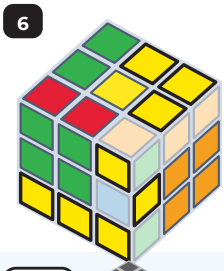
5



R

RIGHT LAYER · UP

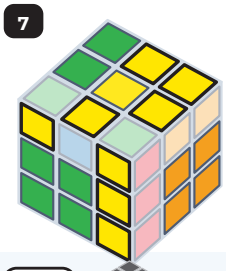
6



F'

FRONT · COUNTER-CLOCKWISE

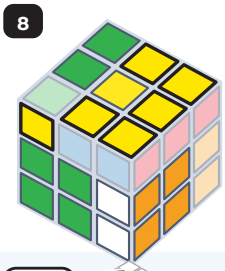
7



R

RIGHT LAYER · UP

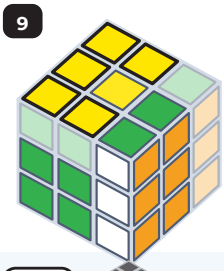
8



U2

TOP LAYER · HALF TURN

9



R'

RIGHT LAYER · DOWN

END



DONE

YELLOW FACE DONE

OLL #53 OFFICIAL: OLL 37

OTHERS · 4 OF 8

Video on YouTube
scan the QR
levelcero.com · drawings

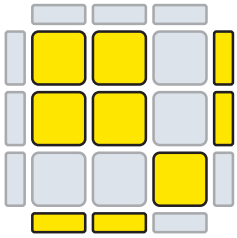
LEVEL 0

MOUNTED FISH

FISH · MOUNTED FISH



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



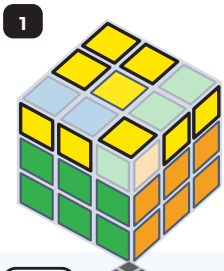
ALG (F R' F' R) U (R U' R')

CASE



FISH · MOUNTED FISH

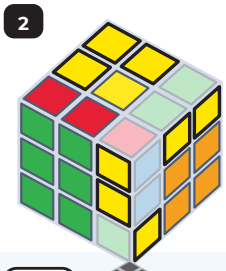
1



F

FRONT · CLOCKWISE

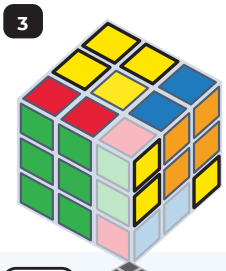
2



R'

RIGHT LAYER · DOWN

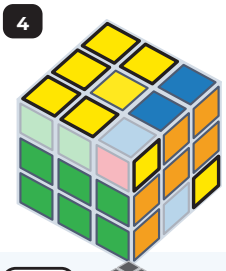
3



F'

FRONT · COUNTER-CLOCKWISE

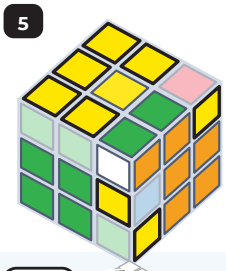
4



R

RIGHT LAYER · UP

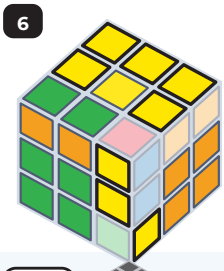
5



U

TOP LAYER · LEFT

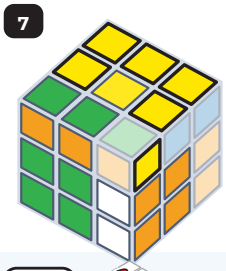
6



R

RIGHT LAYER · UP

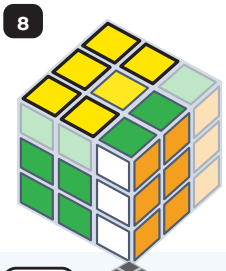
7



U'

TOP LAYER · RIGHT

8



R'

RIGHT LAYER · DOWN

END



DONE

YELLOW FACE DONE

OLL #54 OFFICIAL: OLL 29

OTHERS · 5 OF 8

Video on YouTube
scan the QR
levelcero.com · drawings

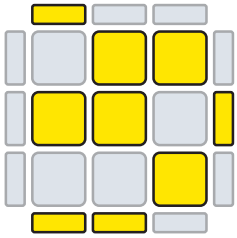
LEVEL 0

SPOTTED CHAMELEON

AWKWARD SHAPE · SPOTTED CHAMELEON



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right

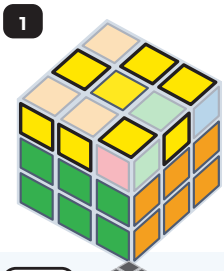


ALG (R U R' U') (R U' R') (F' U' F) (R U R')



CASE

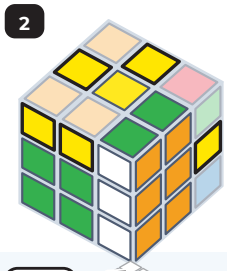
AWKWARD SHAPE · SPOTTED CHAMELEON



1

R

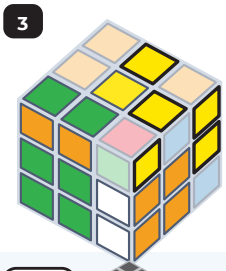
RIGHT LAYER · UP



2

U

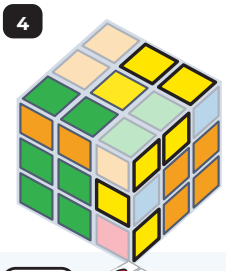
TOP LAYER · LEFT



3

R'

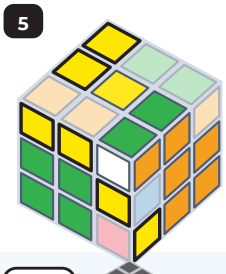
RIGHT LAYER · DOWN



4

U'

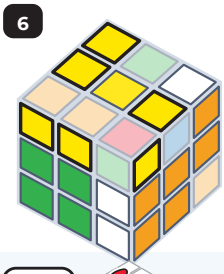
TOP LAYER · RIGHT



5

R

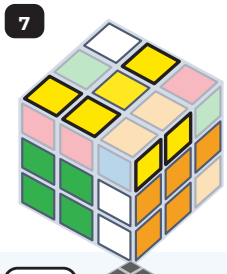
RIGHT LAYER · UP



6

U'

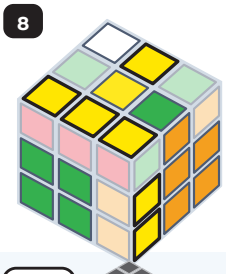
TOP LAYER · RIGHT



7

R'

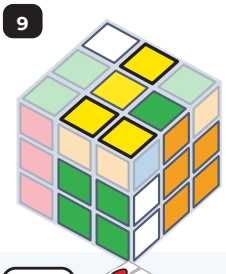
RIGHT LAYER · DOWN



8

F'

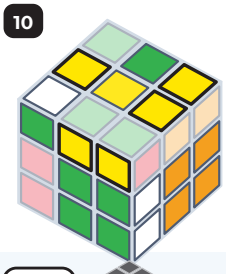
FRONT · COUNTER-CLOCKWISE



9

U'

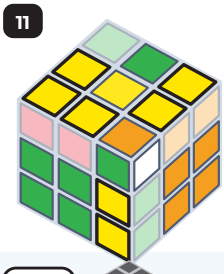
TOP LAYER · RIGHT



10

F

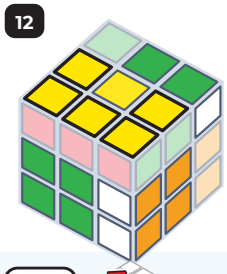
FRONT · CLOCKWISE



11

R

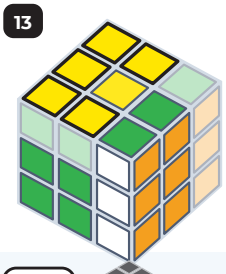
RIGHT LAYER · UP



12

U

TOP LAYER · LEFT



13

R'

RIGHT LAYER · DOWN



END

DONE

YELLOW FACE DONE

OLL #55 OFFICIAL: OLL 30

OTHERS · 6 OF 8

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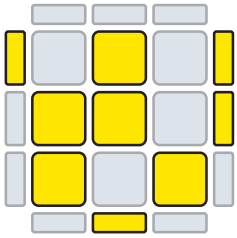
LEVEL 0

ANTI-SPOTTED CHAMELEON

AWKWARD SHAPE · MIRROR OF 29



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



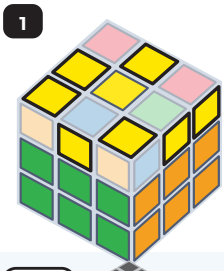
ALG F | R' | F | R2 | U' | (R' | U' | R) | U | R' | F2

CASE



AWKWARD SHAPE · MIRROR OF 29

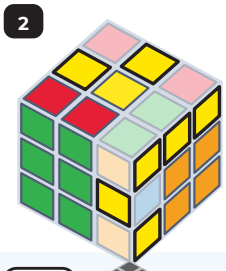
1



F

FRONT · CLOCKWISE

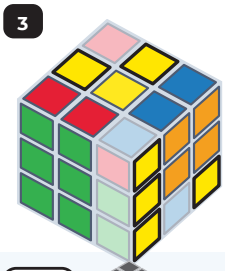
2



R'

RIGHT LAYER · DOWN

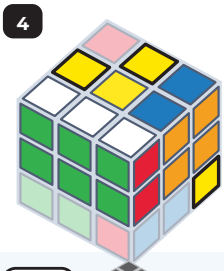
3



F

FRONT · CLOCKWISE

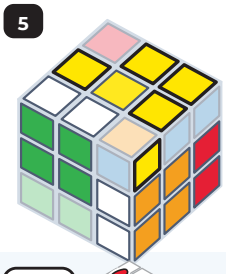
4



R2

RIGHT LAYER · HALF TURN

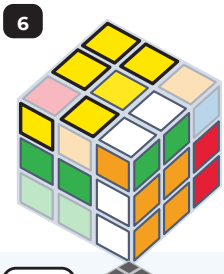
5



U'

TOP LAYER · RIGHT

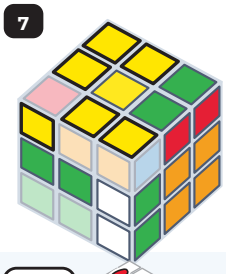
6



R'

RIGHT LAYER · DOWN

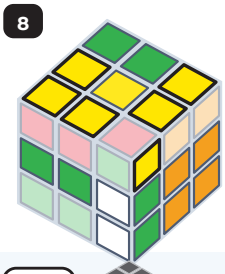
7



U'

TOP LAYER · RIGHT

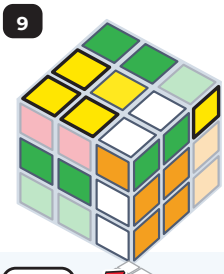
8



R

RIGHT LAYER · UP

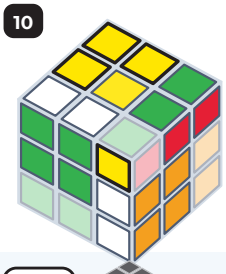
9



U

TOP LAYER · LEFT

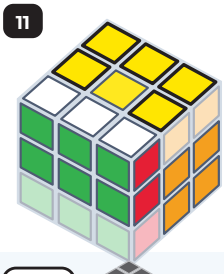
10



R'

RIGHT LAYER · DOWN

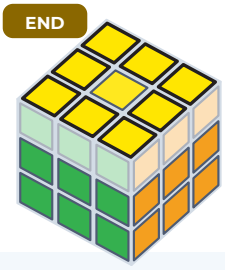
11



F2

FRONT · HALF TURN

END



DONE

YELLOW FACE DONE

OLL #56 OFFICIAL: OLL 41

OTHERS · 7 OF 8

Video on YouTube
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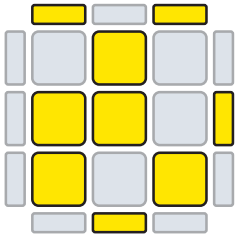
LEVEL 0

AWKWARD

AWKWARD SHAPE · 41



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right



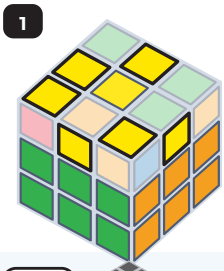
ALG (R U R' U R U2 R') F (R U R' U') F'

CASE



AWKWARD SHAPE · 41

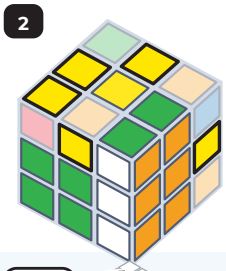
1



R

RIGHT LAYER · UP

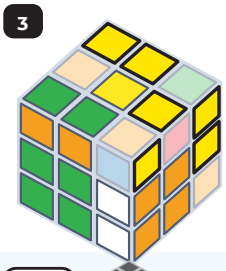
2



U

TOP LAYER · LEFT

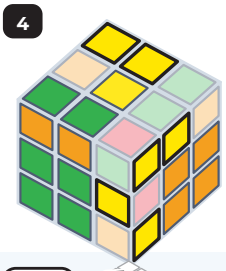
3



R'

RIGHT LAYER · DOWN

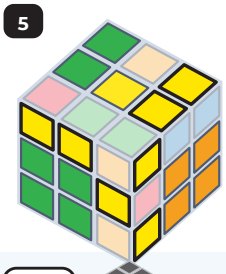
4



U

TOP LAYER · LEFT

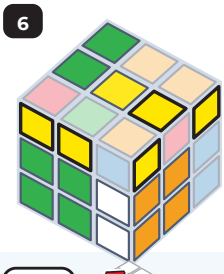
5



R

RIGHT LAYER · UP

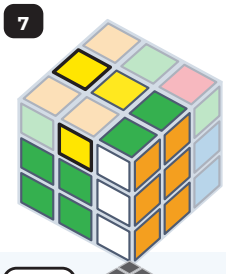
6



U2

TOP LAYER · HALF TURN

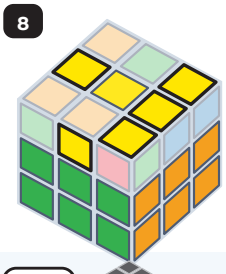
7



R'

RIGHT LAYER · DOWN

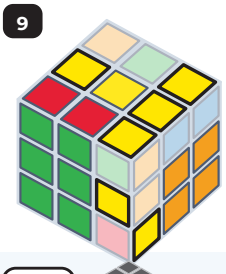
8



F

FRONT · CLOCKWISE

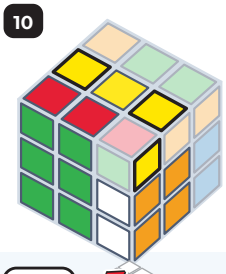
9



R

RIGHT LAYER · UP

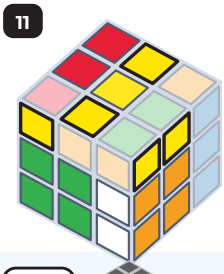
10



U

TOP LAYER · LEFT

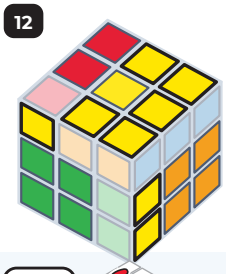
11



R'

RIGHT LAYER · DOWN

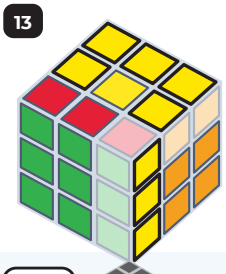
12



U'

TOP LAYER · RIGHT

13



F'

FRONT · COUNTER-CLOCKWISE

END



DONE

YELLOW FACE DONE

OLL #57 OFFICIAL: OLL 42

OTHERS · 8 OF 8

Video on YouTube
scan the QR
levelcero.com · drawings

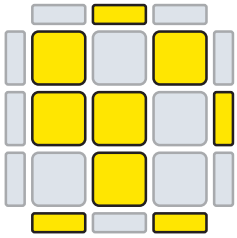
LEVEL 0

AWKWARD

AWKWARD SHAPE · MIRROR OF 41



HOLD IT (example colours)
- yellow on top
- green: facing you
- orange on the right

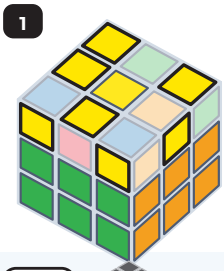


ALG (R' U' R) U' (R' U2 R) F (R U R' U' F')



CASE

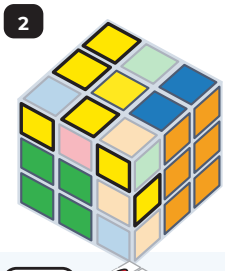
AWKWARD SHAPE · MIRROR OF 41



1

R'

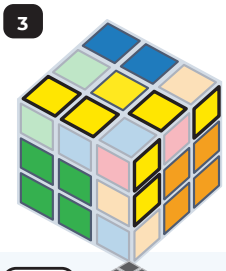
RIGHT LAYER · DOWN



2

U'

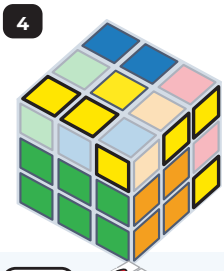
TOP LAYER · RIGHT



3

R

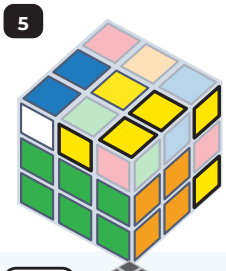
RIGHT LAYER · UP



4

U'

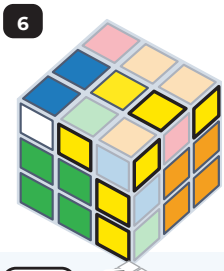
TOP LAYER · RIGHT



5

R'

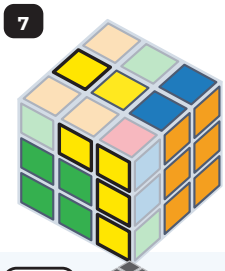
RIGHT LAYER · DOWN



6

U2

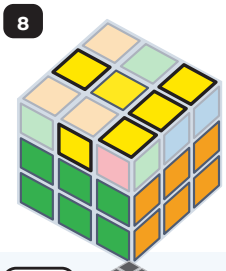
TOP LAYER · HALF TURN



7

R

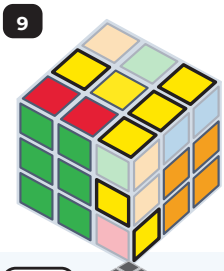
RIGHT LAYER · UP



8

F

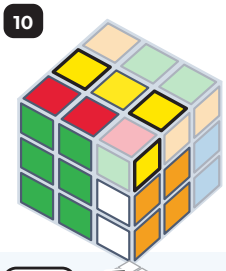
FRONT · CLOCKWISE



9

R

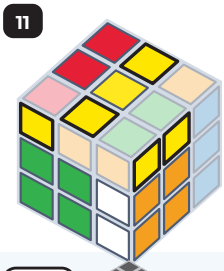
RIGHT LAYER · UP



10

U

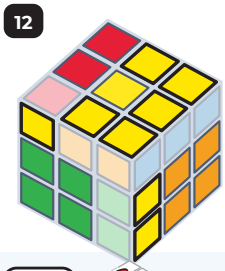
TOP LAYER · LEFT



11

R'

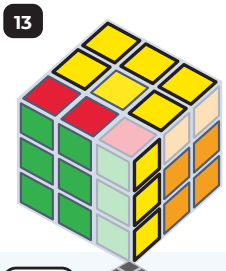
RIGHT LAYER · DOWN



12

U'

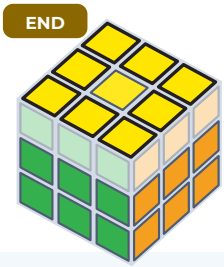
TOP LAYER · RIGHT



13

F'

FRONT · COUNTER-CLOCKWISE



END

DONE

YELLOW FACE DONE