

About

- This table and document was made by cmowla from Speedsolving.com. Feel free to contact me at chrismdisciple@yahoo.com.
- This is a “Times Table” form of all 57 OLL cases. I made it with the intent for speed cubers to have an organized OLL sheet so that they can identify and memorize all cases easier (in my opinion).
- By looking at this chart, it is clear to see why there are only 57 cases instead of, say, 63 (64 if you count the correct case).
- “Set Up” means the algorithm to generate that particular OLL case. The y rotations at the end of the “Set Up” moves do need to be executed in order to fully set up the case. I originally had the end y rotations for the algorithms themselves, but I omitted them since they are not necessary.

How to Use

- [1] With the last layer being the top face, identify which corner orientation you have on your cube and then find its match by looking at the figures on the first row. Rotate the cube in your hands until it matches one of those corner orientation pictures exactly.
- [2] Identify which edge orientation you have on your cube and, while staying in the same column of the corner case you have, scroll down until you find the edge orientation case you have by looking in the first column. Perform the corresponding algorithm.

Algorithm Sources

All algorithms (except for one) are from:

<http://www.cubezone.be/oll.html>

They make have initial cube rotations about y to fit into the table. In addition, Lars Vandenberg made one incomplete algorithm and accidentally substituted the wrong algorithm for one of the cases (that case's algorithm is below).

The algorithm not from Lars Vandenberg's site is $((M' U' M) U^2 (M' U' M))$; set up: $(M' U M) U^2 (M' U M)$, which is from:

<http://www.cubewhiz.com/oll.html>

I have included 5 forms of this table for convenience:

complete (no finger tricks)

algs only (no finger tricks)

set ups only (no finger tricks)

algs only (finger tricks)

blank table for custom algorithms

Orientation Last Layer (OLL) Cases: 57								
	y' F R U R' U' F' SET UP: y' F U R U' R' F' y	y R U R' U' B' R' F R S z' SET UP: y z S' R' F' R B U R U' R' y'	y R B' R' U' R U B U' R' SET UP: y R U B' U' R' U R B R' y'	y' r U r' R U R' U' r U' r' SET UP: y' r U r' U R U' R' r U' r' y	y F U R U 2 R' U' R U R' F' SET UP: y F R U' R' U R U 2 R' U' F' y'	y 2 R' U' R U' R' U y' R' U R B SET UP: y B' R' U' R y U' R U R' U R y 2	R U 2 R 2 U' R U' R' U 2 F R F' SET UP: F R' F' U 2 R U' R' U 2 U 2 R'	
	y R' U' R' F R F' U R SET UP: y R' U' F R' F' R U R y'	R U R' U' R' F R F' SET UP: F R' F' R U R U' R'	y 2 R' F R U R' U' F' U R SET UP: y 2 R' U' F' U R U' R' F' R y 2	R' F R U R' F' R F U' F' SET UP: F U F' R' F R U' R' F' R	y 2 R' F' R r' F' r U R' F R SET UP: y 2 R' F' R U' r' F r R' F R y 2	y 2 F U R U' R' U R U' R' F' SET UP: y 2 F R U R' U' R U R' U' F' y 2	F R U R' U' R F' r U R' U' F' r' SET UP: r U R U' r' F R' U R U' R' F'	R U R' U' r R' U R U' r' SET UP: r U R' U' R r' U R U' R'
	y B' U' R' U R B SET UP: y B' R' U' R U B y'	R U B' U' R' U R B R' SET UP: R B' R' U' R U B U' R'	R U 2 R 2 F R F' R U 2 R' SET UP: R U 2 R' F R' F' R 2 U 2 R'	y' r U 2 R' U' R U' r' SET UP: y' r U' R' U R U 2 r' y	r' U 2 R U R' U r SET UP: r' U' R' U' R' U 2 r	y 2 R' F R 2 B' R 2 F' R 2 B R' SET UP: y 2 R B' R 2 F R 2 B R 2 F' R y 2	y r' U 2 R U R' U' R U R' U r SET UP: y r' U' R U' R' U R U' R' U 2 r y'	
	y F U R U' R' F' SET UP: y F R U R' U' F' y'	y' R 2 U R' B' R U' R 2 U R B R' SET UP: y' R B' R' U' R 2 U R' B R U' R 2 y	R' U' R U' R' U R U R B' R' B SET UP: B' R B R' U' R' U' R U R' U R	y 2 r R 2 U' R U' R' U 2 R U' R' r' SET UP: y 2 r R' U' R' U 2 R U R' U R 2 r' y 2	y r U R' U R U 2 r' SET UP: y r U 2 R' U' R U' r' y'	B' R' U' R U R' U' R U B SET UP: B' U' R' U R U' R' U R B	y r U 2 R' U' R U R' U' R U' r' SET UP: y r U R' U R U' R' U R U 2 r' y'	M' U' M U 2 M' U' M SETUP: (M' U M) U 2 (M' U M)
	y 2 R' U' R U F R U R' U' R' U R U' F' SET UP: y 2 F U R' U' R U R' U' R' F' U' R' U R y 2	R' U' F U R U' R' F' R SET UP: R' F R U R' U' F' U R	y' R U R' U R U' R' U' R' F R F' SET UP: y' F R' F' R U R U' R' U' R' y	y 2 r' U' R U' R' U 2 r SET UP: y 2 r' U 2 R U R' U r y 2	y r' R 2 U R' U R U 2 R' U R' r SET UP: y r' R U' R U 2 R' U' R U' R 2 r y'	y 2 R B' R 2 F R 2 B R 2 F' R SET UP: y 2 R' F R 2 B' R 2 F' R 2 B R' y 2		
	R U R' U R U 2 R' F R U R' U' F' SET UP: F U R U' R' F' R U 2 R' U' R U' R'	R U R' U' R U' R' F' U' F R U R' SET UP: R U' R' F' U F R U' R' U' R' U' R'	F R U' R' U' R U R' F' SET UP: F R U' R' U R U' R' F'	R' U' R F R' F' U F R F' SET UP: F R' F' U' F R F' R' U R	y' R U R' x' U' R U' F' U' R' U x SET UP: y' x' U' R U F U' R' U x R U' R' y	F R U R' U' R U R' U' F' SET UP: F U R U' R' U R U' R' F'		
	y 2 r U R' U R U 2 r 2 U' R U' R' U 2 r SET UP: y 2 r' U 2 R U R' U r 2 U 2 R' U' R U' r' y 2	y' r' U 2 R U' R' U r 2 U 2 R' U' R U' r' SET UP: y' r U R' U R U' r 2 U' R U' R' y 2	y 2 R U R' U R' F R F' U 2 R' F R F' SET UP: y 2 F R' F' R U 2 F R' F' R U' R' U' R' y 2	r' R U' r U 2 r' U' R U' R 2 r SET UP: r' R 2 U R' U r U 2 r' U' R' r	y r' R 2 U R' U r U 2 r' U R' r SET UP: y r' R U' r U 2 r' U' R U' R 2 r y'	F R U R' U' F' f R U R' U' f' SET UP: f U R U' R' f' F U R U' R' F'	R U 2 R 2 F R F' U 2 R' F R F' SET UP: F R' F' R U 2 F R' F' R 2 U 2 R'	r' R U R U R' U' r 2 R 2 U R U' r' SET UP: r U R' U' R 2 r 2 U R U' R' U' R' r U
	R' U 2 R F U' R' U' R U F' SET UP: F U' R' U R U F' R' U 2 R	r U R' U' r' F R F' SET UP: F R' F' r U R U' r'	y F' r U R' U' r' F R SET UP: y R' F' r U R U' r' F y'	y' R U 2 R' U' R U' R' SET UP: y' R U R' U R U 2 R' y	y R U R' U R U 2 R' SET UP: y R U 2 R' U' R U' R' y'	R U 2 R 2 U' R 2 U' R 2 U 2 R SET UP: R' U 2 R 2 U R 2 U R 2 U 2 R'	y R U 2 R' U' R U R' U' R U' R' SET UP: y R U R' U R U' R' U R U 2 R' y'	

Orientation Last Layer (OLL) Cases: 57								
	y' F R U R' U' F'	y R U R' U' B' R' F R S z'	y R B' R' U' R U B U' R'	y' r U r' R U R' U' r U' r'	y F U R U2 R' U' R U R' F'	y2 R' U' R U' R' U y' R' U R B	R U2 R2 U' R U' R' U2 F R F'	
	y R' U' R' F R F' U R	R U R' U' R' F R F'	y2 R' F R U R' U' F' U R	R' F R U R' F' R F U' F'	y2 R' F' R r' F' r U R' F R	y2 F U R U' R' U R U' R' F'	F R U R' U' R F' r U R' U' r'	R U R' U' r R' U R U' r'
	y B' U' R' U R B	R U B' U' R' U R B R'	R U2 R2 F R F' R U2 R'	y' r U2 R' U' R U' r'	r' U2 R U R' U r	y2 R' F R2 B' R2 F' R2 B R'	y r' U2 R U R' U' R U R' U r	
	y F U R U' R' F'	y' R2 U R' B' R U' R2 U R B R'	R' U' R U' R' U R U R B' R' B	y2 r R2 U' R U' R' U2 R U' R r'	y r U R' U R U2 r'	B' R' U' R U R' U' R U B	y r U2 R' U' R U R' U' R U' r'	M' U' M U2 M' U' M
	y2 R' U' R U F R U R' U' R' U R U' F'	R' U' F U R U' R' F' R	y' R U R' U R U' R' U' R' F R F'	y2 r' U' R U' R' U2 r	y r' R2 U R' U R U2 R' U R' r	y2 R B' R2 F R2 B R2 F' R		
	R U R' U R U2 R' F R U R' U' F'	R U R' U' R U' R' F' U' F R U R'	F R U' R' U' R U R' F'	R' U' R F R' F' U F R F'	y' R U R' x' U' R U F' U' R' U x	F R U R' U' R U R' U' F'		
	y2 r U R' U R U2 r2 U' R U' R' U2 r	y' r' U2 R U R' U r2 U2 R' U' R U' r'	y2 R U R' U R' F R F' U2 R' F R F'	r' R U' r U2 r' U' R U' R2 r	y r' R2 U R' U r U2 r' U R' r	F R U R' U' F' f R U R' U' f'	R U2 R2 F R F' U2 R' F R F'	r' R U R U R' U' r2 R2 U R U' r'
	R' U2 R F U' R' U' R U F'	r U R' U' r' F R F'	y F' r U R' U' r' F R	y' R U2 R' U' R U' R'	y R U R' U R U2 R'	R U2 R2 U' R2 U' R2 U2 R	y R U2 R' U' R U R' U' R U' R'	

Orientation Last Layer (OLL) Cases: 57								
	SET UP: y' F U R U' R' F' y	SET UP: y z S' R' F' R B U R U' R' y'	SET UP: y R U B' U' R' U R B R' y'	SET UP: y' r U r' U R U' R' r U' r' y	SET UP: y F R U' R' U R U2 R' U' F' y'	SET UP: y B' R' U' R y U' R U R' U R y2	SET UP: F R' F' U2 R U R' U R2 U2 R'	
	SET UP: y R' U' F R' F' R U R y'	SET UP: F R' F' R U R U' R'	SET UP: y2 R' U' F U R U' R' F' R y2	SET UP: F U F' R' F R U' R' F' R	SET UP: y2 R' F' R U' r' F r R' F R y2	SET UP: y2 F R U R' U' R U R' U' F' y2	SET UP: r U R U' r' F R' U R U' R' F'	SET UP: r U R' U' R r' U R U' R'
	SET UP: y B' R' U' R U B y'	SET UP: R B' R' U' R U B U' R'	SET UP: R U2 R' F R' F' R2 U2 R'	SET UP: y' r U R' U R U2 r' y	SET UP: r' U' R U' R' U2 r	SET UP: y2 R B' R2 F R2 B R2 F' R y2	SET UP: y r' U' R U' R' U R U' R' U2 r y'	
	SET UP: y F R U R' U' F' y'	SET UP: y' R B' R' U' R2 U R' B R U' R2 y	SET UP: B' R B R' U' R' U' R U R' U R	SET UP: y2 r R' U R' U2 R U R' U R2 r' y2	SET UP: y r U2 R' U' R U' r' y'	SET UP: B' U' R' U R U' R' U R B	SET UP: y r U R' U R U' R' U R U2 r' y'	SETUP: M' U M U2 M' U M
	SET UP: y2 F U R' U' R U R U' R' F' U' R' U R y2	SET UP: R' F R U R' U' F' U R	SET UP: y' F R' F' R U R U R' U' R U' R' y	SET UP: y2 r' U2 R U R' U r y2	SET UP: y r' R U' R U2 R' U' R U' R2 r y'	SET UP: y2 R' F R2 B' R2 F' R2 B R' y2		
	SET UP: F U R U' R' F' R U2 R' U' R U' R'	SET UP: R U' R' F' U F R U R' U R U' R'	SET UP: F R U' R' U R U R' F'	SET UP: F R' F' U' F R F' R' U R	SET UP: y' x' U' R U F U' R' U x R U' R' y	SET UP: F U R U' R' U R U' R' F'		
	SET UP: y2 r' U2 R U R' U r2 U2 R' U' R U' r' y2	SET UP: y' r U R' U R U2 r2 U' R U' R' U2 r y	SET UP: y2 F R' F' R U2 F R' F' R U' R U' R' y2	SET UP: r' R2 U R' U r U2 r' U R' r	SET UP: y r' R U' r U2 r' U' R U' R2 r y'	SET UP: f U R U' R' f F U R U' R' F'	SET UP: F R' F' R U2 F R' F' R2 U2 R'	SET UP: r U R' U' R2 r2 U R U' R' U' R' r U
	SET UP: F U' R' U R U F' R' U2 R	SET UP: F R' F' r U R U' r'	SET UP: y R' F' r U R U' r' F y'	SET UP: y' R U R' U R U2 R' y	SET UP: y R U2 R' U' R U' R' y'	SET UP: R' U2 R2 U R2 U R2 U2 R'	SET UP: y R U R' U R U' R' U R U2 R' y'	

Orientation Last Layer (OLL) Cases: 57								
	y' F R (U R') U' F'	y R (U R') U' B' (R' F) R S z'	y (R B') R' U' R U B U' R'	y' r U r' R (U R') U' (r U') r'	y F U (R U') U' R' U' R (U R') F'	y2 R' U' (R U') (R' U) y' (R' U) R B	(R U') U' (R2 U') (R U') (R' U) U F (R F')	
	y R' U' (R' F) (R F') U R	R U R' U' (R' F) (R F')	y2 (R' F) R (U R') U' F' U R	(R' F) R (U R') F' R F U' F'	y2 R' (F' R) r' F' r U (R' F) R	y2 F U (R U') (R' U) (R U') R' F'	F R (U R') U' (R F') r (U R') U' r'	R (U R') U' r (R' U) (R U') r'
	y B' U' (R' U) R B	R U B' U' (R' U) R (B R')	(R U') U' (R2 F) (R F') (R U') U' R'	y' r U2 R' U' (R U') r'	r' U2 R (U R' U) r	y2 (R' F) (R2 B') (R2 F') R2	y r' U2 R (U R') U' R (U R' U) r	
	y F U (R U') R' F'	y' R2 (U R') B' (R U') (R2 U) R (B R')	R' U' (R U') (R' U) (R U) (R B') (R' B)	y2 r (R2 U') (R U') (R' U) U (R U' R) r'	y r (U R' U) (R U') U' r'	B' R' U' R (U R') U' R U B	y r U2 R' U' R (U R') U' (R U') r'	(M' U' M) U2 (M' U' M)
	y2 R' U' R U F R (U R') U' (R' U) (R U') F'	R' U' F U (R U') R' (F' R)	y' R (U R' U) (R U') R' U' (R' F) (R F')	y2 r' U' (R U') (R' U) U r	y r' R2 (U R' U) (R U') U' (R' U R') r	y2 (R B') (R2 F) R2 (B R2) (F' R)		
	R (U R' U) (R U') U' (R' F) R (U R') U' F'	R (U R') U' (R U') R' F' U' F R (U R')	F (R U') R' U' R (U R') F'	R' U' R F R' F' U F (R F')	y' R (U R') x' U' R U F' U' (R' U) x	F R (U R') U' R (U R') U' F'		
	y2 r (U R' U) (R U') U' r2 U' (R U') (R' U) U r	y' r' U2 R (U R' U) r2 U2 R' U' (R U') r'	y2 R (U R' U) (R' F) (R F') U2 (R' F) (R F')	r' (R U') r U2 r' U' (R U') R2 r	y r' R2 (U R' U) r U2 (r' U R') r	F R (U R') U' F' f R (U R') U' f'	(R U') U' (R2 F) (R F') U2 (R' F) (R F')	r' R U R (U R') U' r2 R2 U (R U') r'
	R' U2 R F U' R' U' R U F'	r (U R') U' (r' F) (R F')	y F' r (U R') U' (r' F) R	y' R U (U R') U' (R U') R'	y R (U R' U) (R U') U' R'	(R U') U' (R2 U') (R2 U') (R2 U') U' R	y (R U') U' R' U' R U R' U' (R U') R'	

Orientation
Last Layer
(OLL)
Cases: 57



