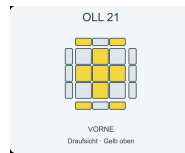


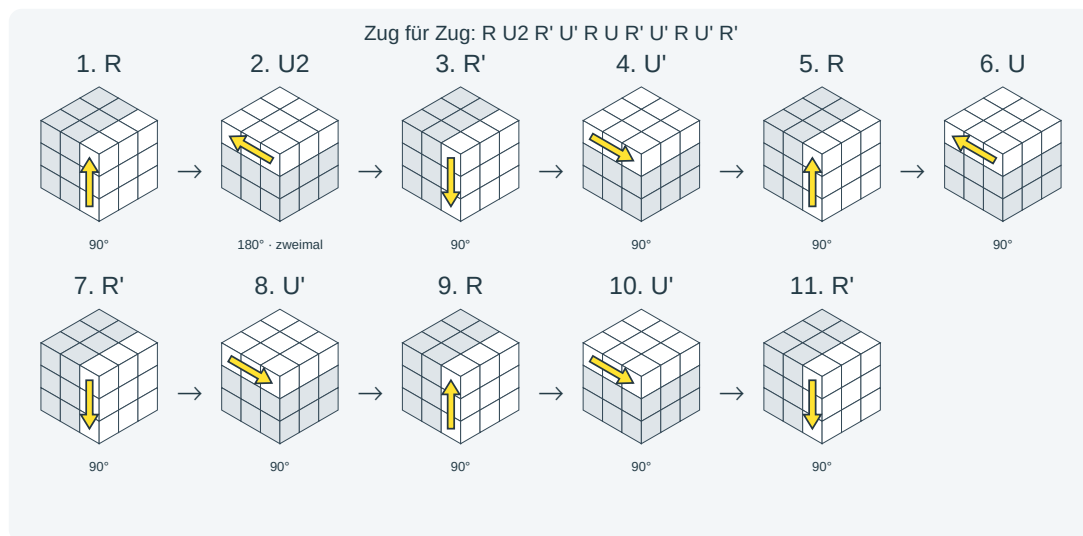
OLL · alle 57 Fälle · Spickzettel

Weiß unten, Gelb oben. VORNE liegt im Bild unten. Strich = Gegenrichtung, 2 = halbe Drehung. r/l/f = zwei Ebenen, M wie L, x/y/z = ganze Würfelrotation wie R/U/F. Immer exakt die gezeigte Fallhaltung verwenden.

OLL 21



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

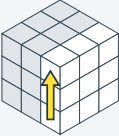
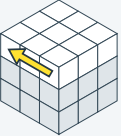
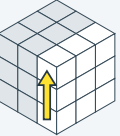
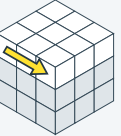
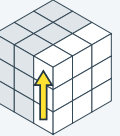
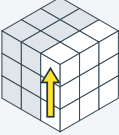
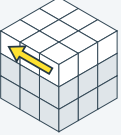
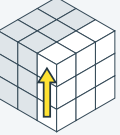


OLL 22

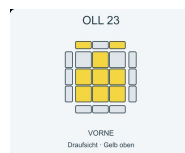


R U2 R2 U' R2 U' R2 U2 R

Zug für Zug: R U2 R2 U' R2 U' R2 U2 R

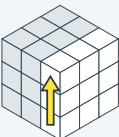
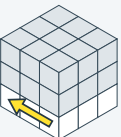
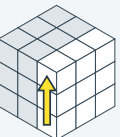
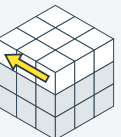
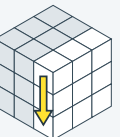
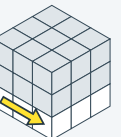
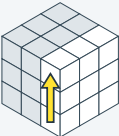
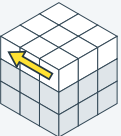
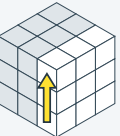
1. R  90°	→	2. U2  180° · zweimal	→	3. R2  180° · zweimal	→	4. U'  90°	→	5. R2  180° · zweimal	→	6. U'  90°
7. R2  180° · zweimal	→	8. U2  180° · zweimal	→	9. R  90°						

OLL 23

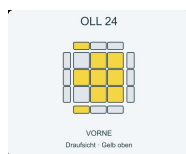


R2 D' R U2 R' D R U2 R

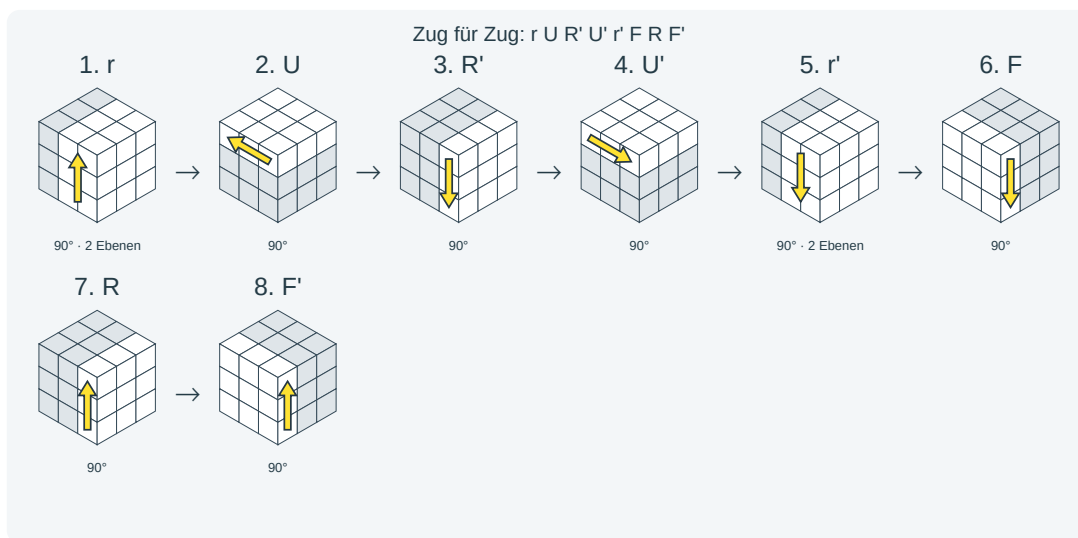
Zug für Zug: R2 D' R U2 R' D R U2 R

1. R2  180° · zweimal	→	2. D'  90°	→	3. R  90°	→	4. U2  180° · zweimal	→	5. R'  90°	→	6. D  90°
7. R  90°	→	8. U2  180° · zweimal	→	9. R  90°						

OLL 24



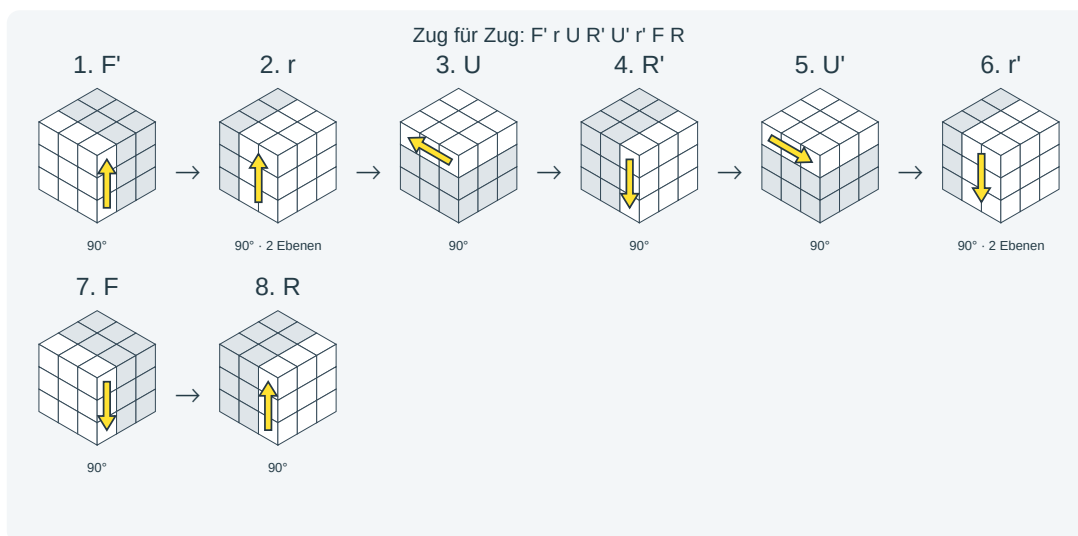
$r \ U \ R' \ U' \ r' \ F \ R \ F'$



OLL 25



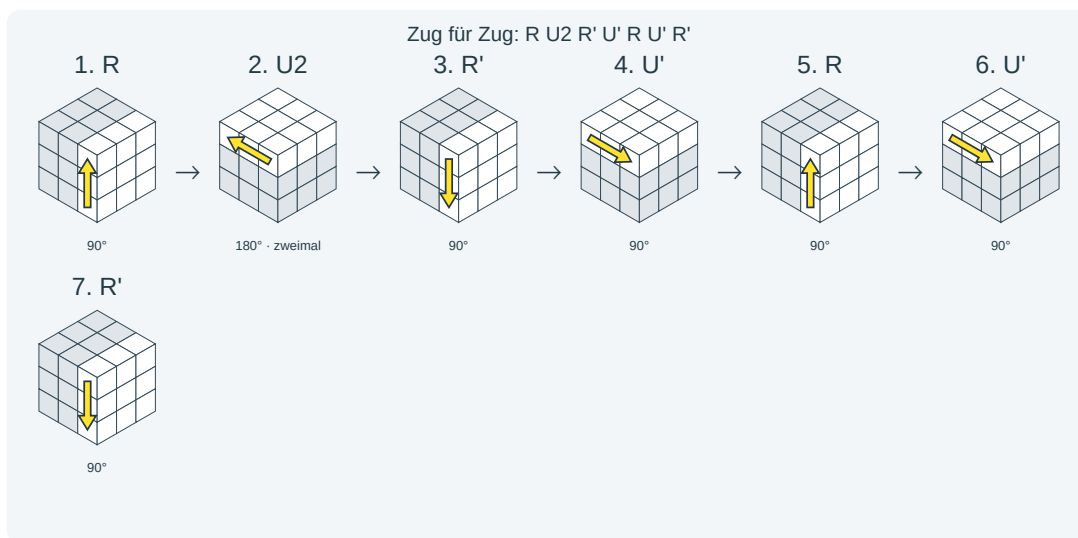
$F' \ r \ U \ R' \ U' \ r' \ F \ R$



OLL 26



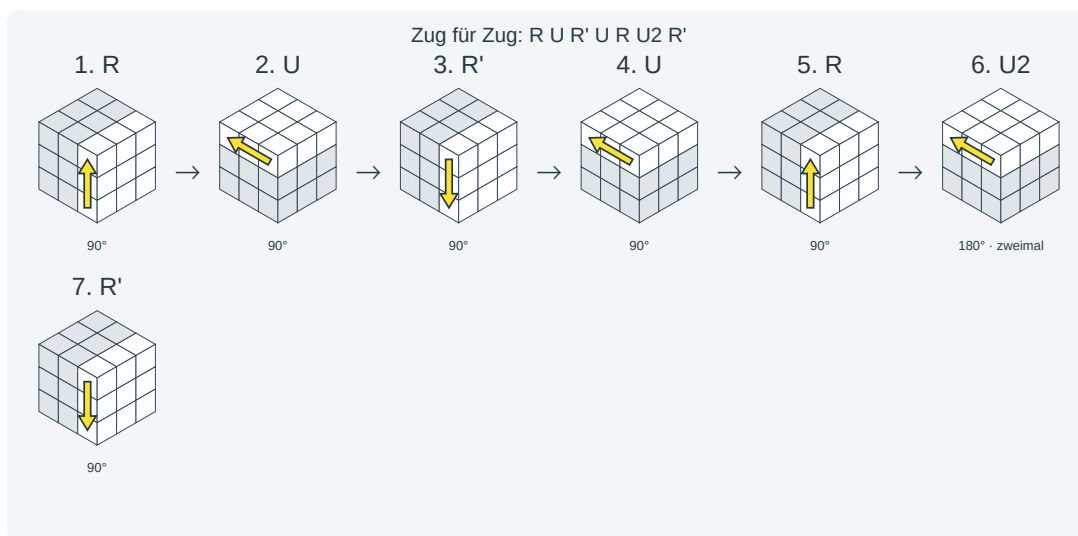
R U2 R' U' R U' R'



OLL 27



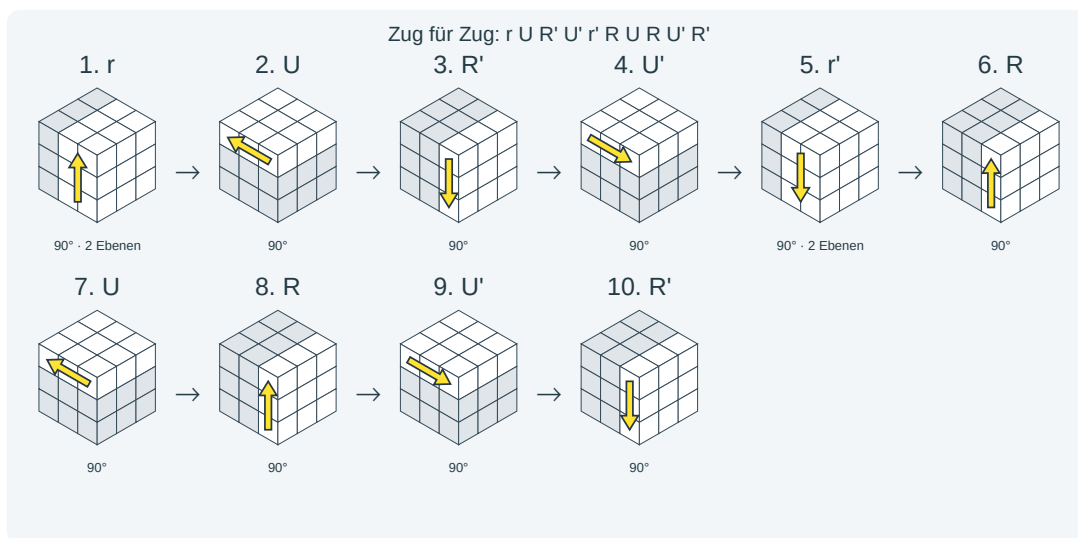
R U R' U R U2 R'



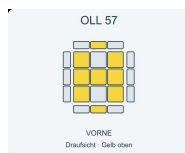
OLL 28



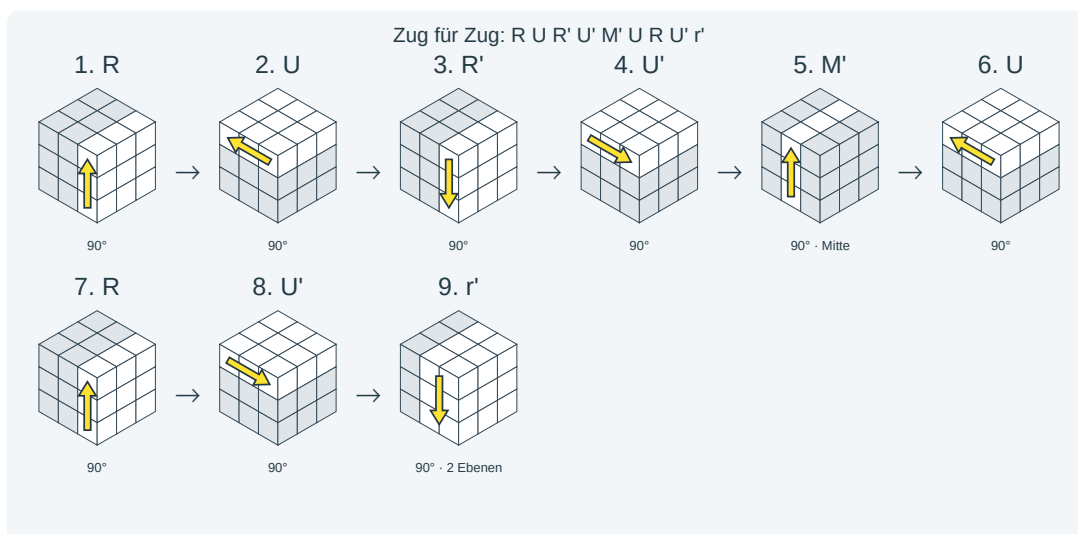
$r \ U \ R' \ U' \ r' \ R \ U \ R' \ U' \ R'$



OLL 57



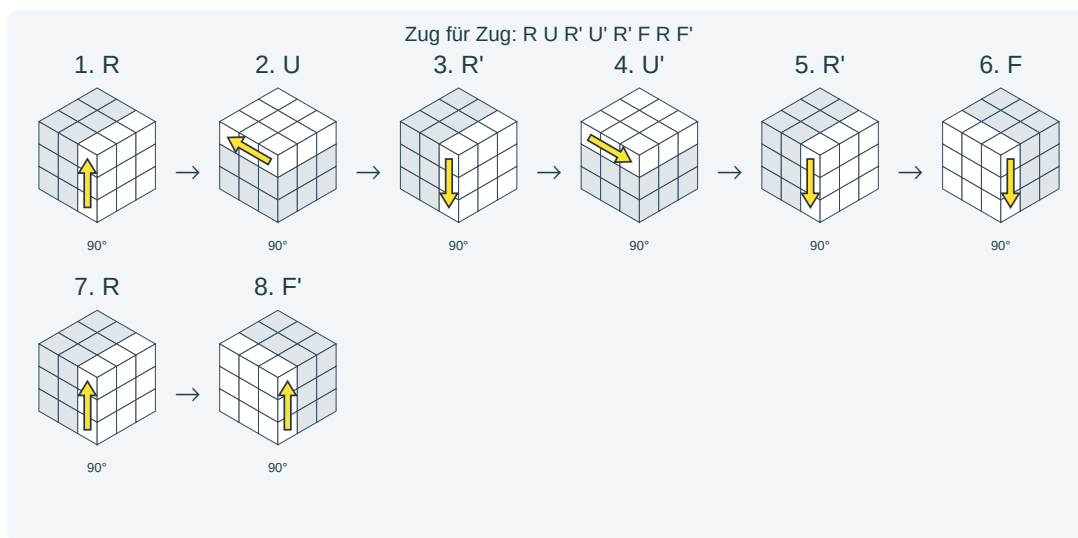
$R \ U \ R' \ U' \ M' \ U \ R \ U' \ r'$



OLL 33



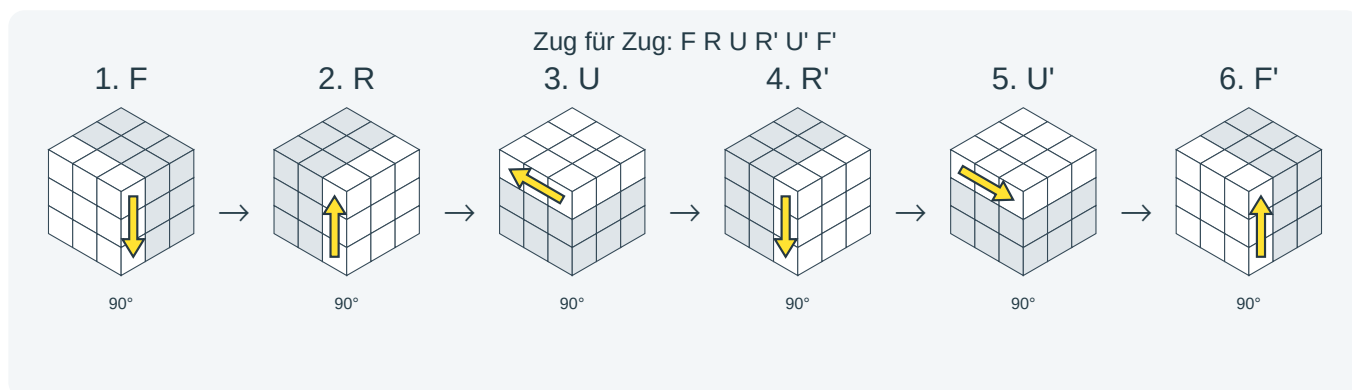
R U R' U' R' F R F'



OLL 45



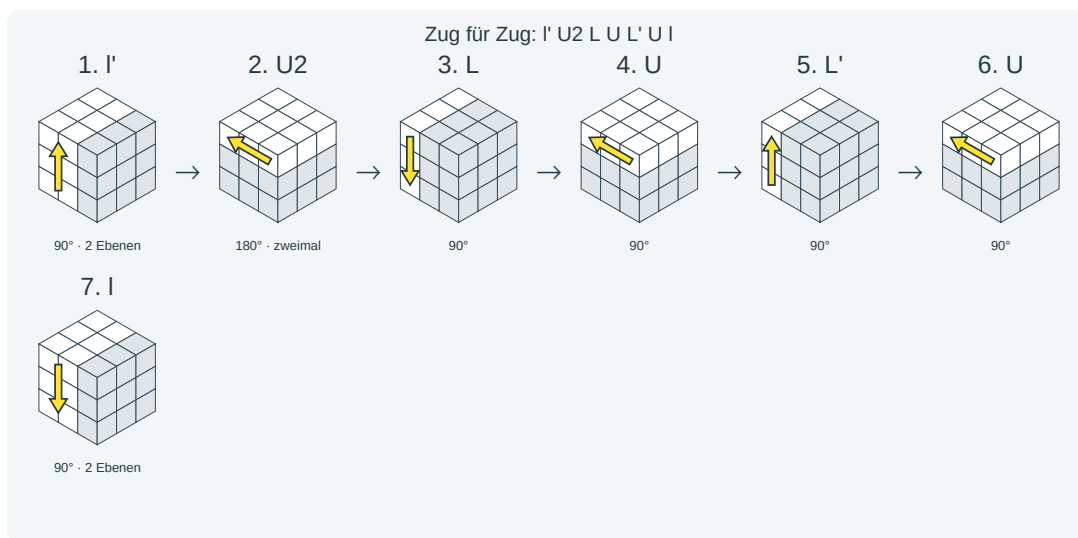
F R U R' U' F'



OLL 5



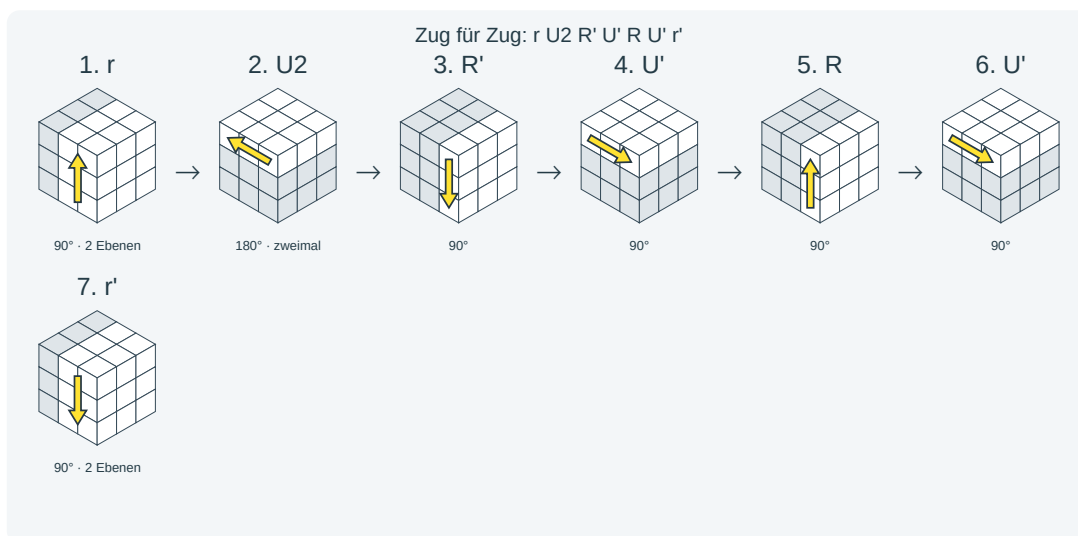
$\ell' \ U2 \ \ell \ U \ \ell' \ U \ \ell$



OLL 6



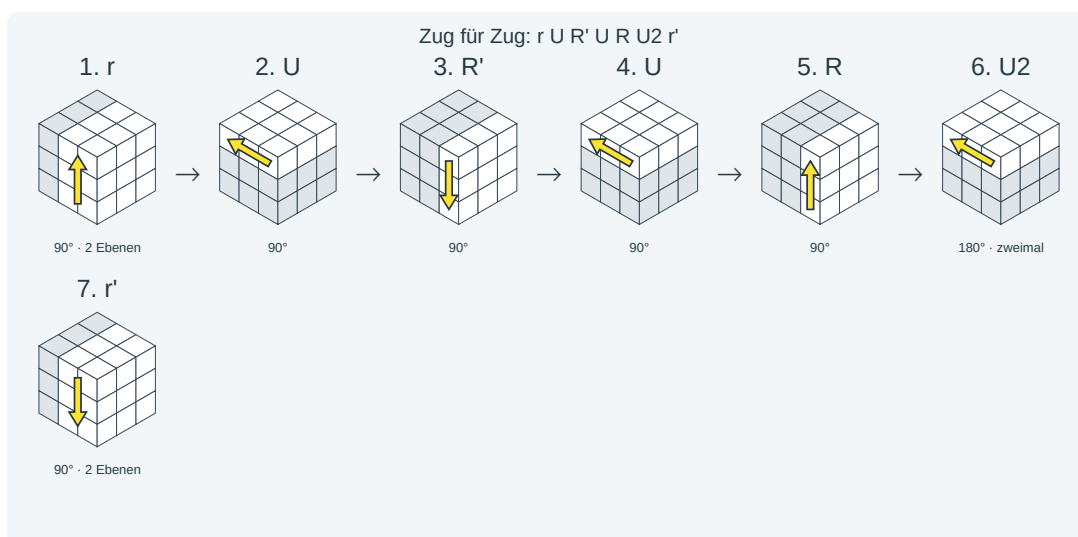
$r \ U2 \ R' \ U' \ R \ U' \ r'$



OLL 7



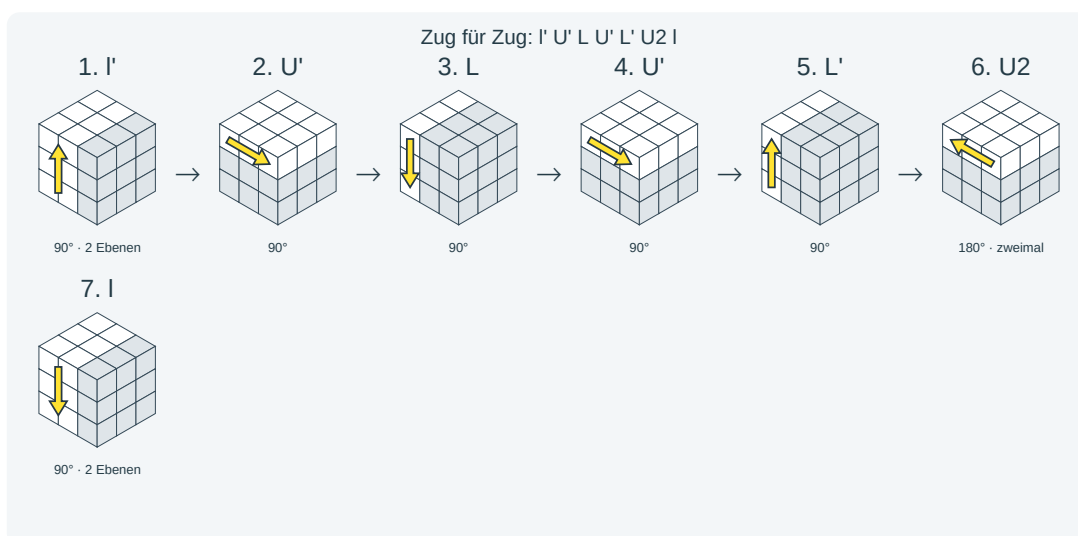
$r \ U \ R' \ U \ R \ U^2 \ r'$



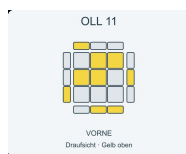
OLL 8



$\ell' \ U' \ L \ U' \ L' \ U^2 \ \ell$

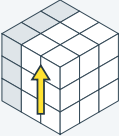
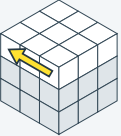
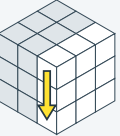
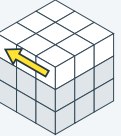
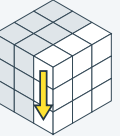
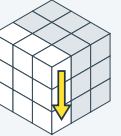


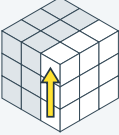
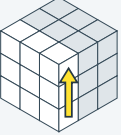
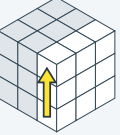
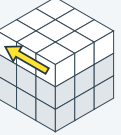
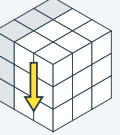
OLL 11



$r \ U \ R' \ U \ R' \ F \ R \ F' \ R \ U^2 \ r'$

Zug für Zug: $r \ U \ R' \ U \ R' \ F \ R \ F' \ R \ U^2 \ r'$

1. r	→	2. U	→	3. R'	→	4. U	→	5. R'	→	6. F
										
90° · 2 Ebenen		90°		90°		90°		90°		90°

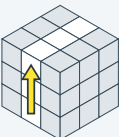
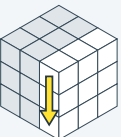
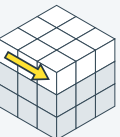
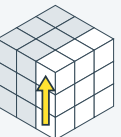
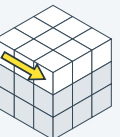
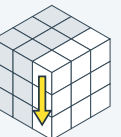
7. R	→	8. F'	→	9. R	→	10. U^2	→	11. r'
								
90°		90°		90°		180° · zweimal		90° · 2 Ebenen

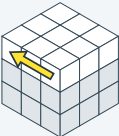
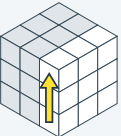
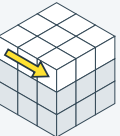
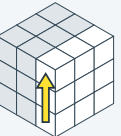
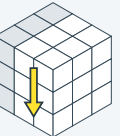
OLL 12



$M' \ R' \ U' \ R \ U' \ R' \ U^2 \ R \ U' \ R \ r'$

Zug für Zug: $M' \ R' \ U' \ R \ U' \ R' \ U^2 \ R \ U' \ R \ r'$

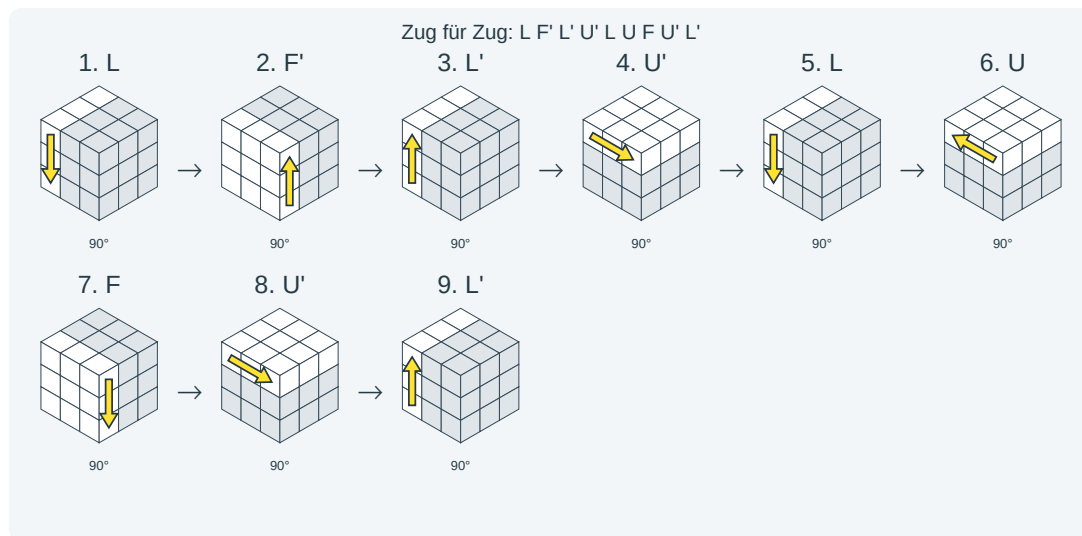
1. M'	→	2. R'	→	3. U'	→	4. R	→	5. U'	→	6. R'
										
90° · Mitte		90°		90°		90°		90°		90°

7. U^2	→	8. R	→	9. U'	→	10. R	→	11. r'
								
180° · zweimal		90°		90°		90°		90° · 2 Ebenen

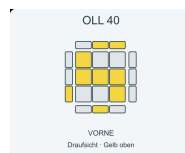
OLL 39



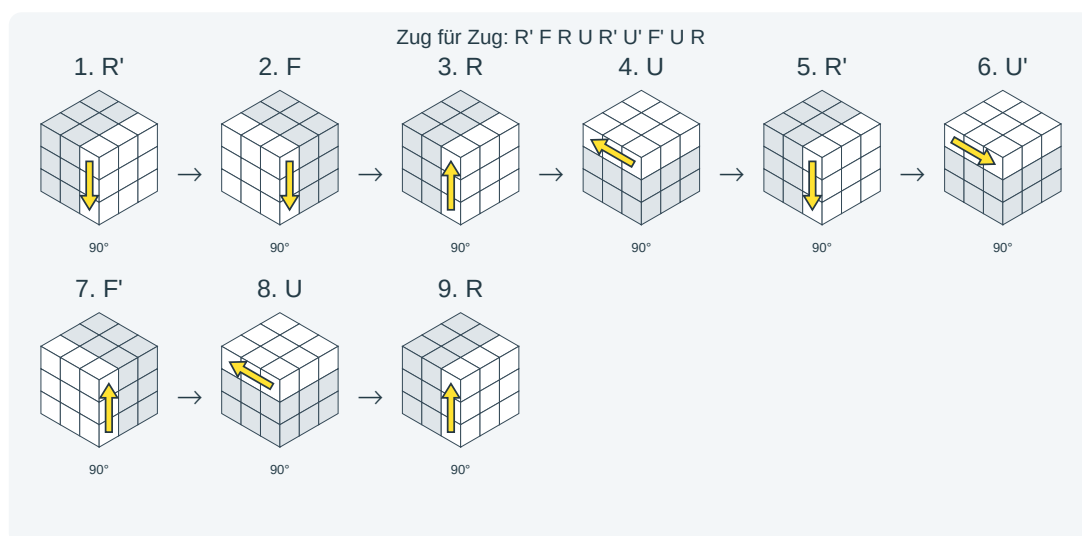
L F' L' U' L U F U' L'



OLL 40



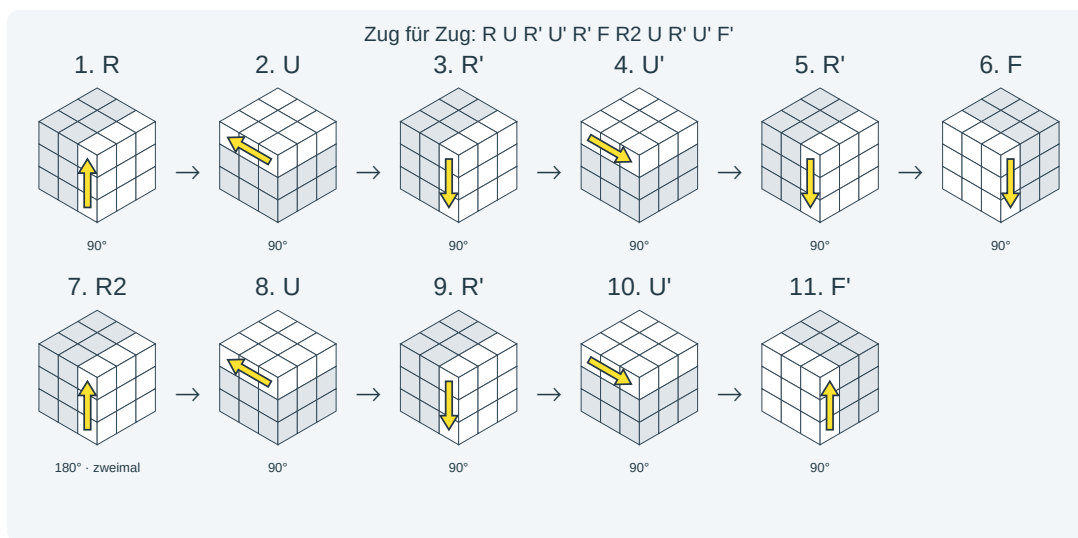
R' F R U R' U' F' U R



OLL 9



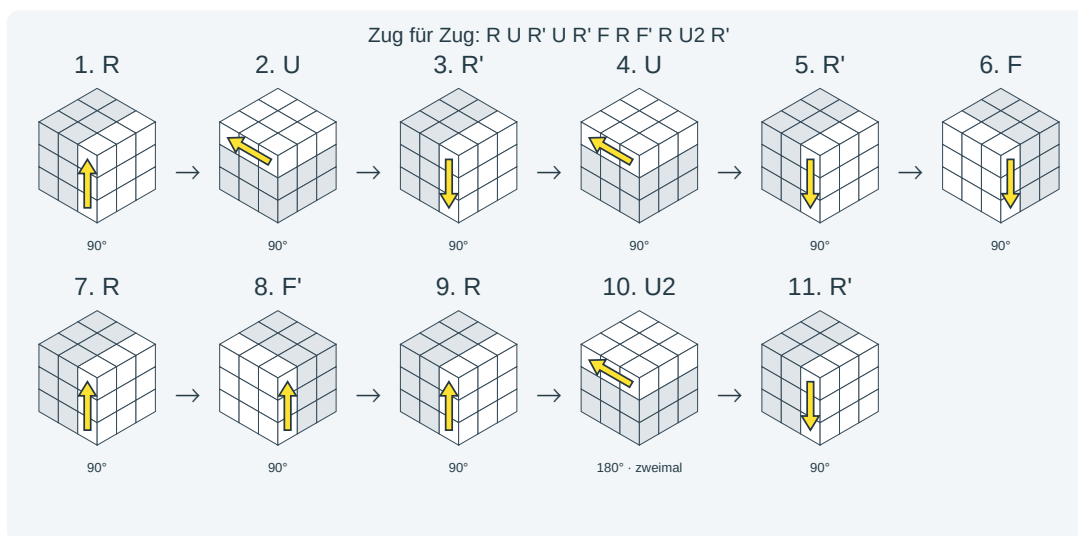
R U R' U' R' F R2 U R' U' F'



OLL 10



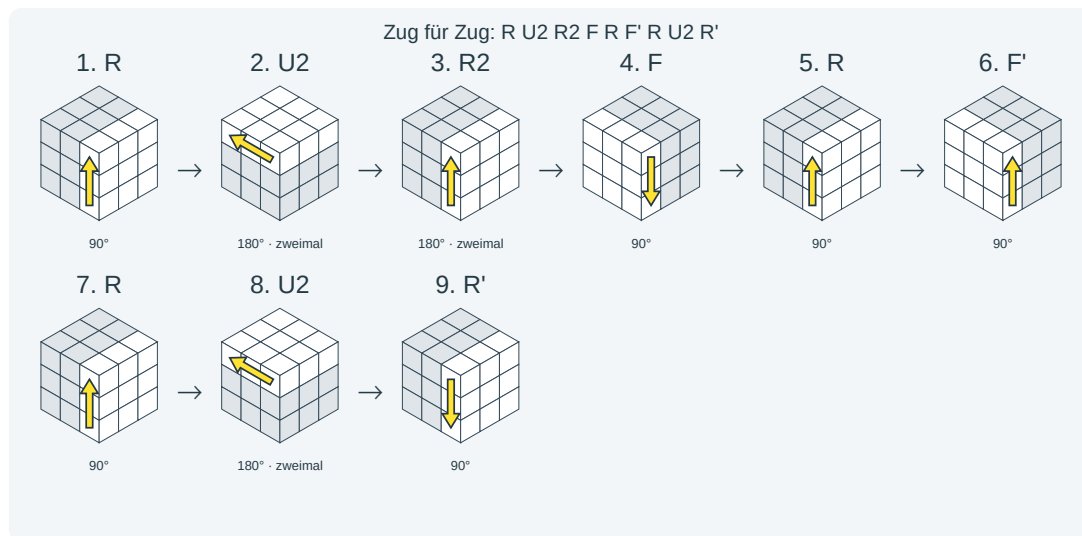
R U R' U R' F R F' R U2 R'



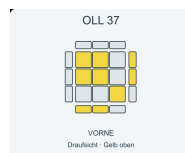
OLL 35



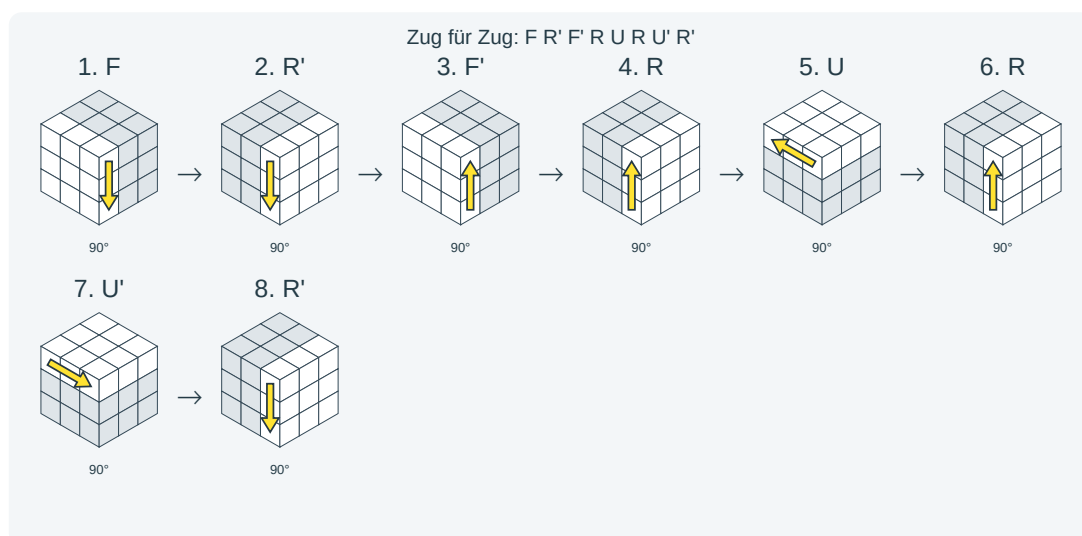
R U2 R2 F R F' R U2 R'



OLL 37



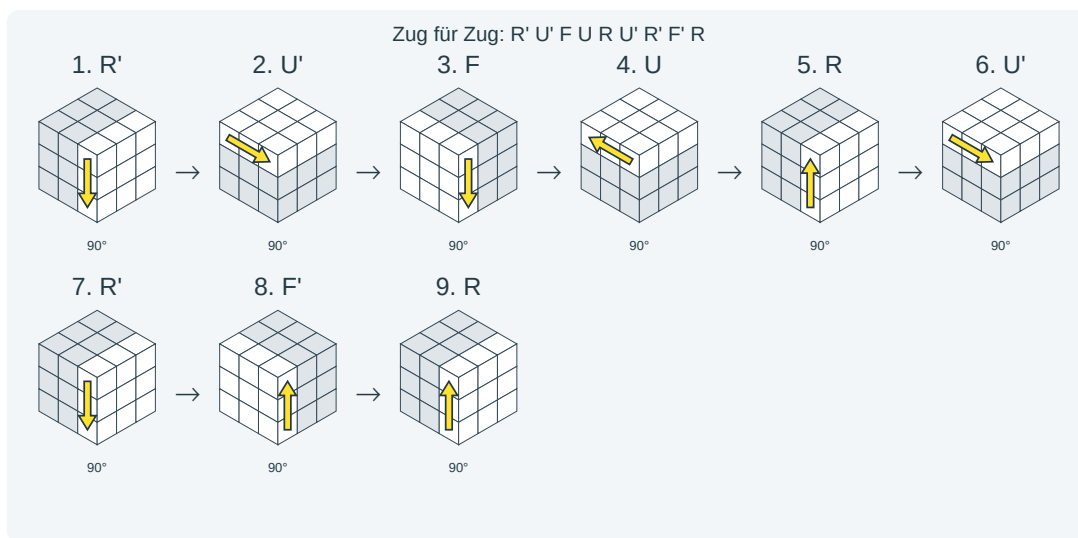
F R' F' R U R U' R'



OLL 31



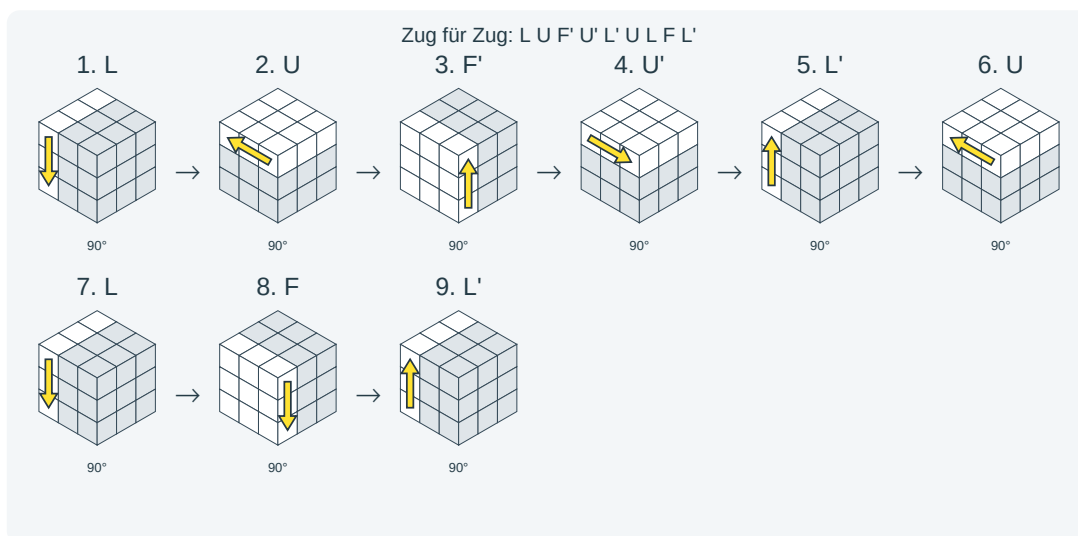
R' U' F U R U' R' F' R



OLL 32



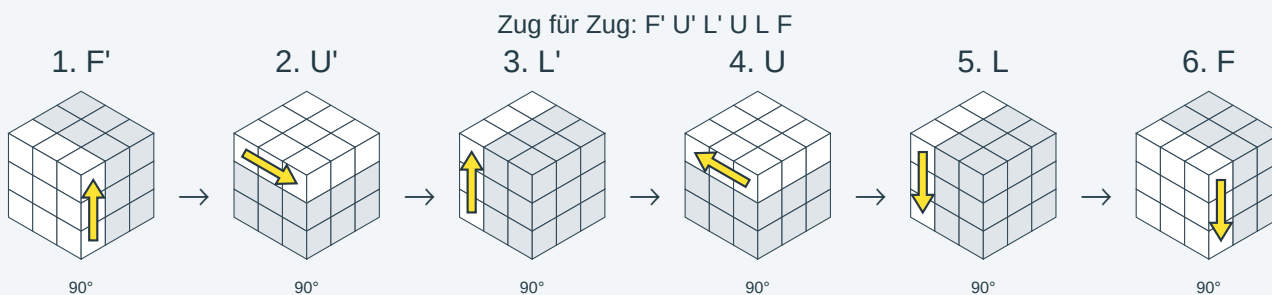
L U F' U' L' U L F L'



OLL 43



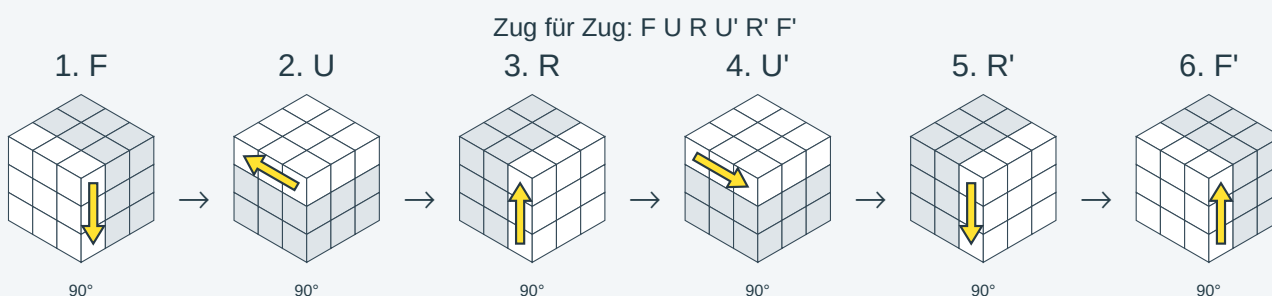
F' U' L' U L F



OLL 44



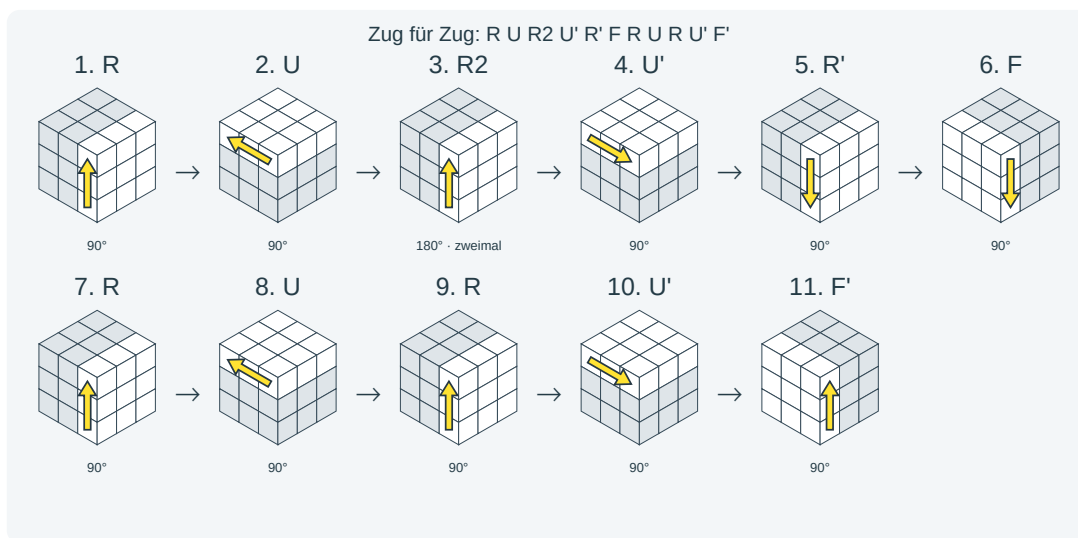
F U R U' R' F'



OLL 34



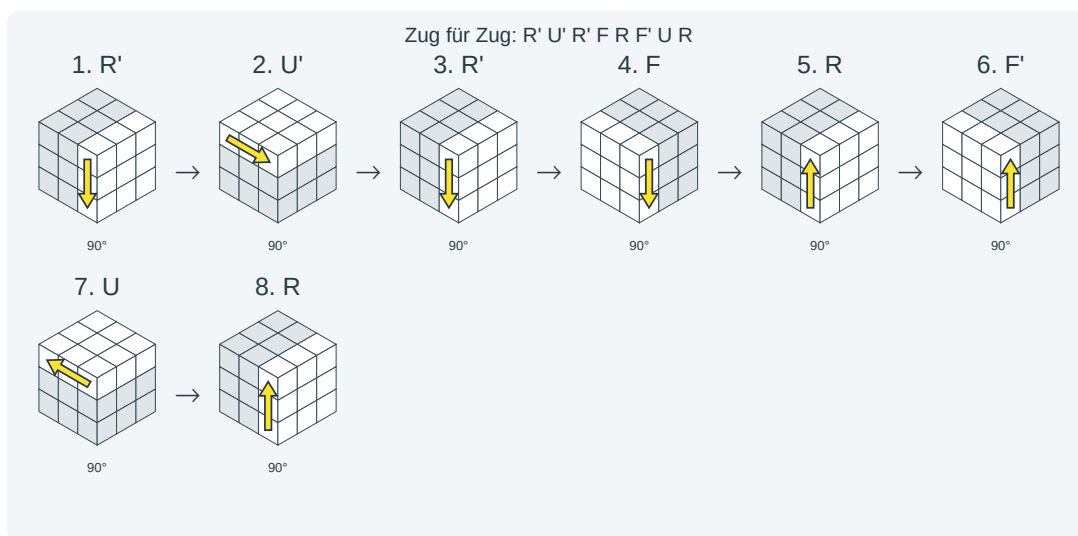
R U R2 U' R' F R U R U' F'



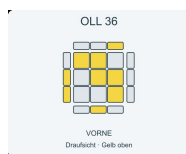
OLL 46



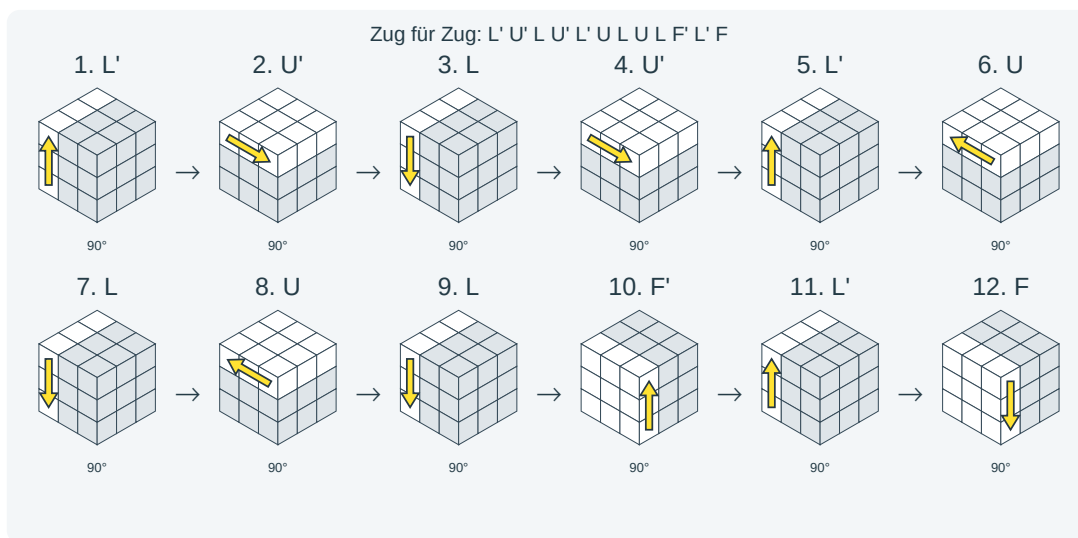
R' U' R' F R F' U R



OLL 36



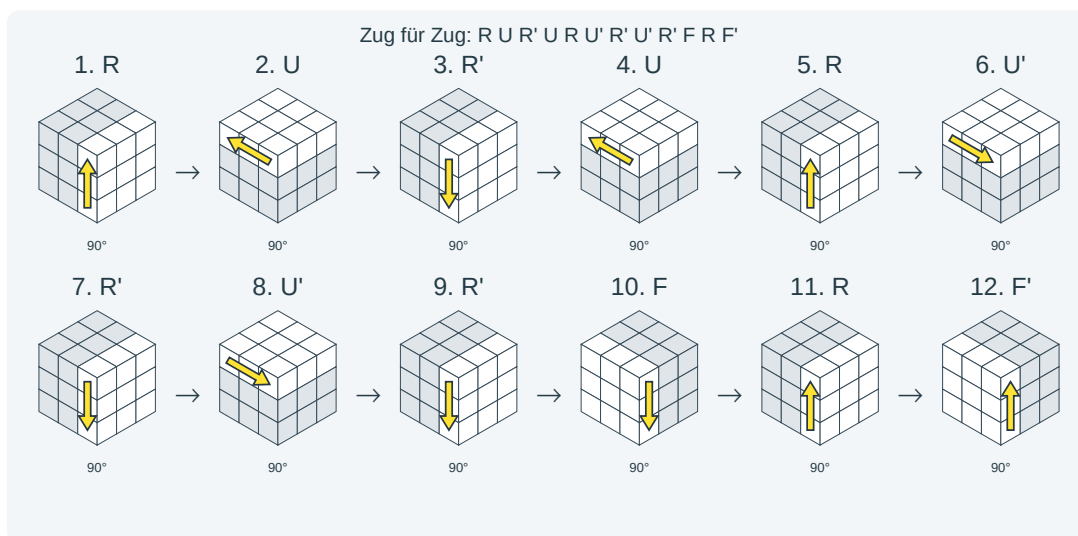
L' U' L U' L' U L U L F' L' F



OLL 38



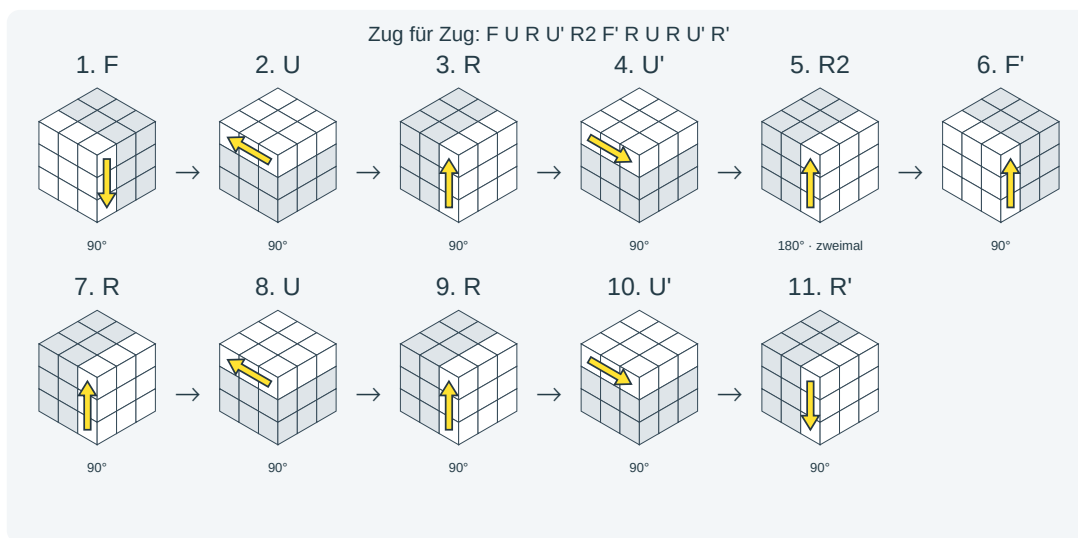
R U R' U R U' R' U' R' F R F'



OLL 13



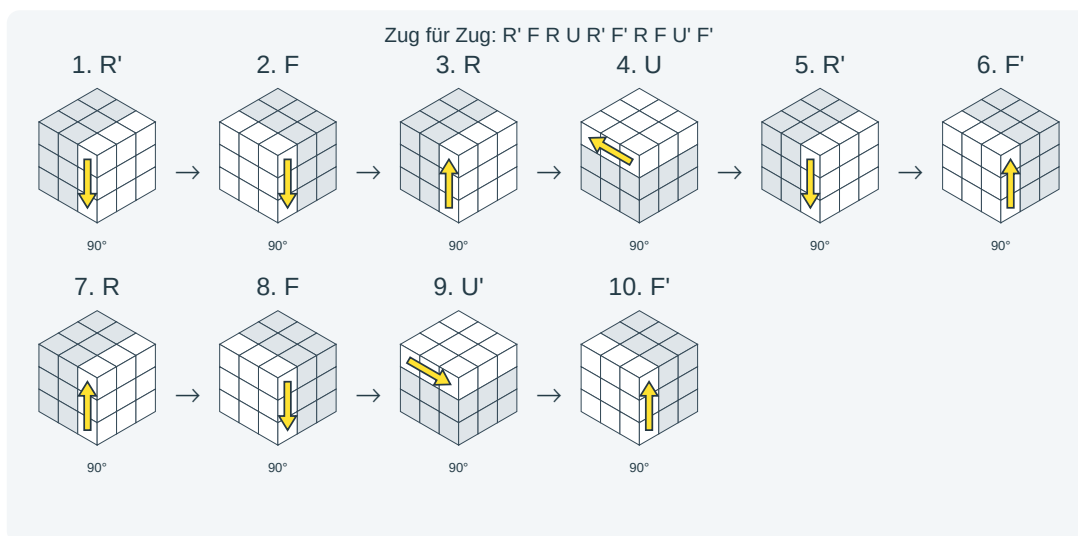
F U R U' R2 F' R U R U' R'



OLL 14



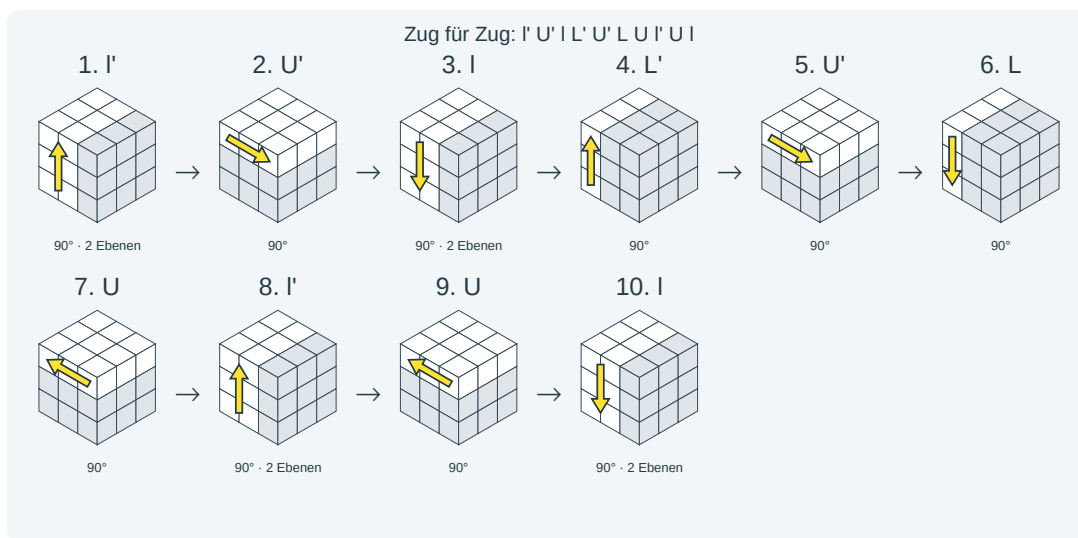
R' F R U R' F' R F U' F'



OLL 15



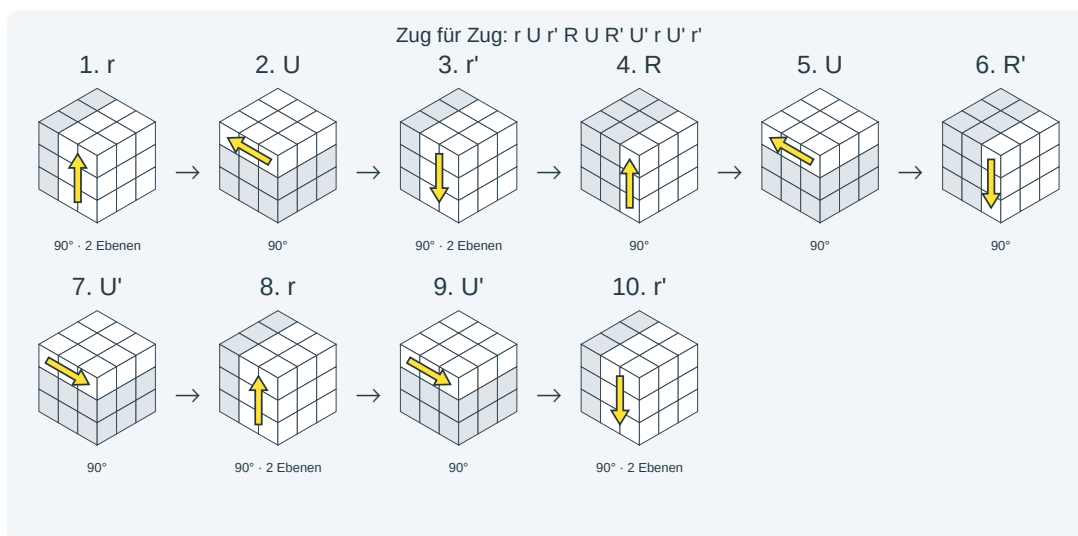
$\ell' \ U' \ \ell \ \ell' \ U' \ L \ U \ \ell' \ U \ \ell$



OLL 16



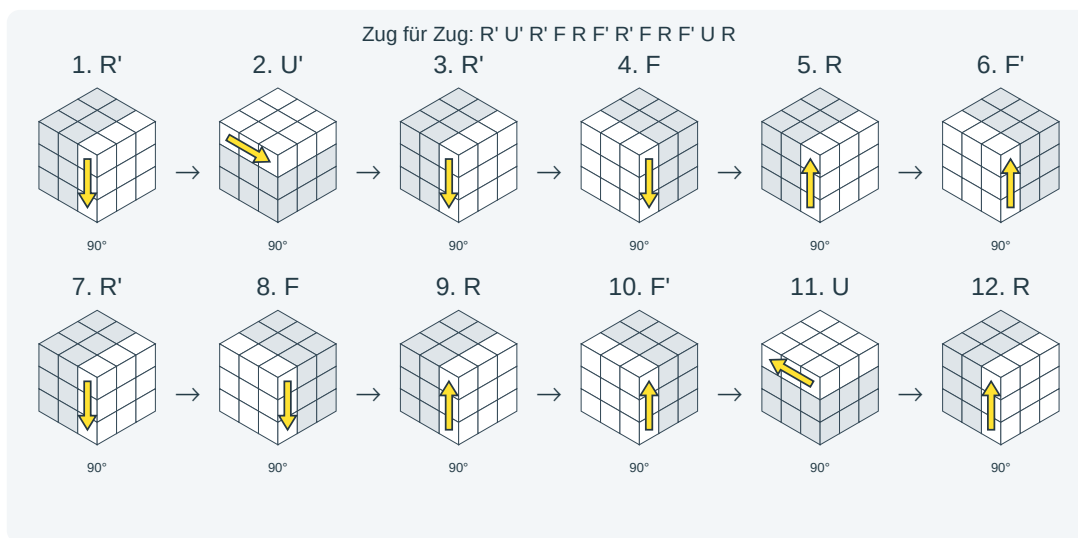
$r \ U \ r' \ R \ U \ R' \ U' \ r \ U' \ r'$



OLL 47



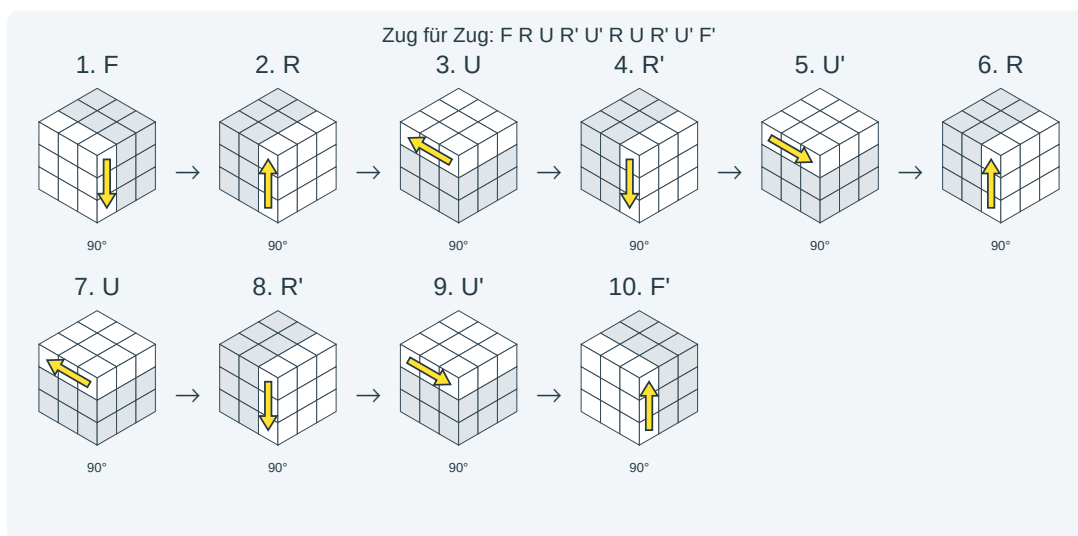
R' U' R' F R F' R' F R F' U R



OLL 48



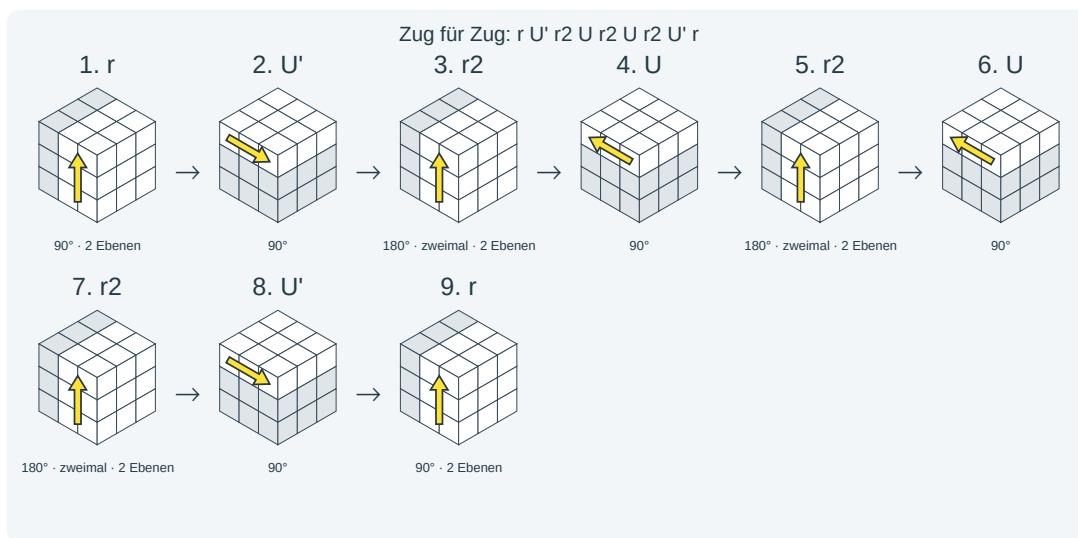
F R U R' U' R U R' U' F'



OLL 49



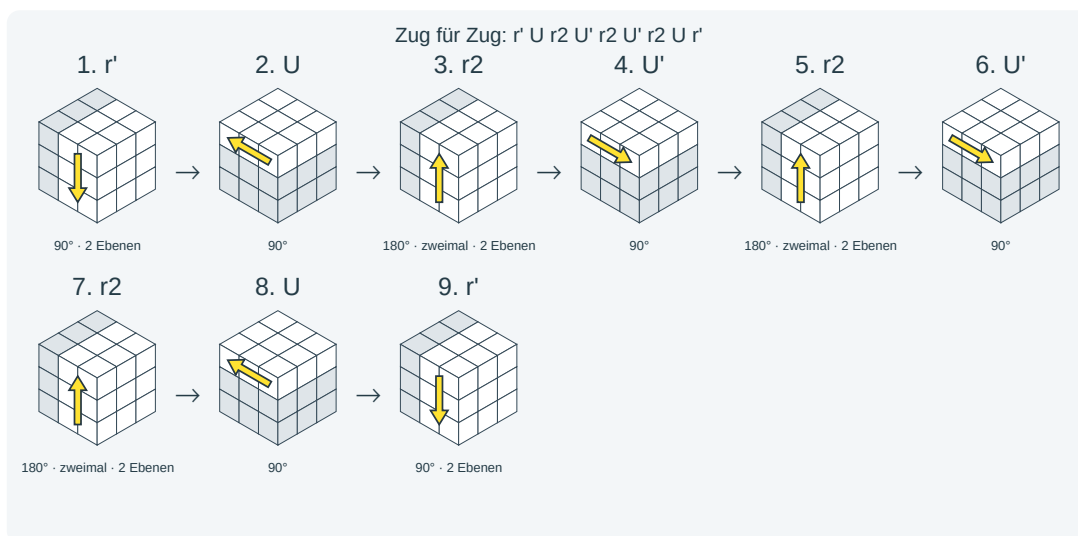
$r \ U' \ r^2 \ U \ r^2 \ U \ r^2 \ U' \ r$



OLL 50



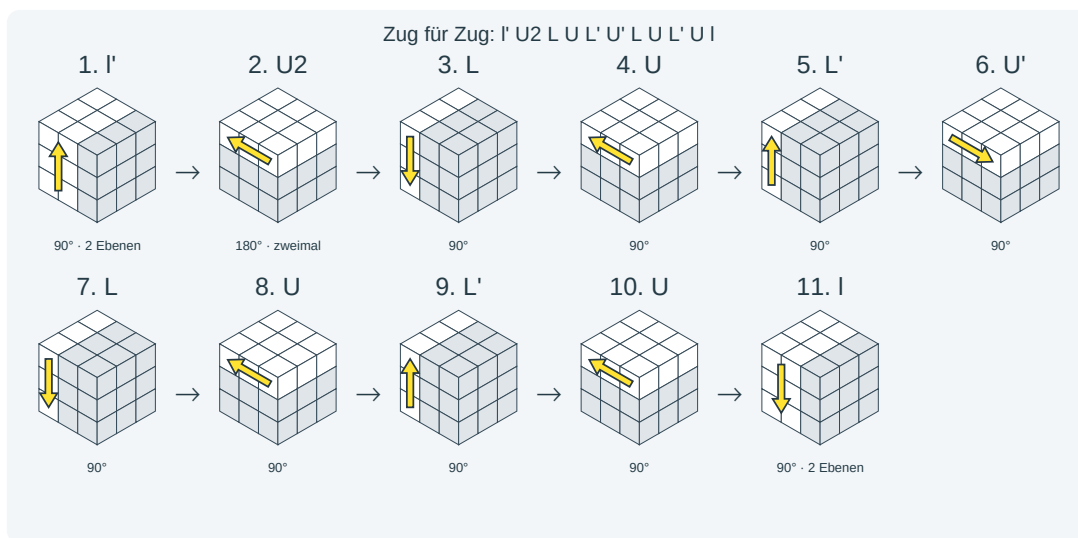
$r' \ U \ r^2 \ U' \ r^2 \ U' \ r^2 \ U \ r'$



OLL 53



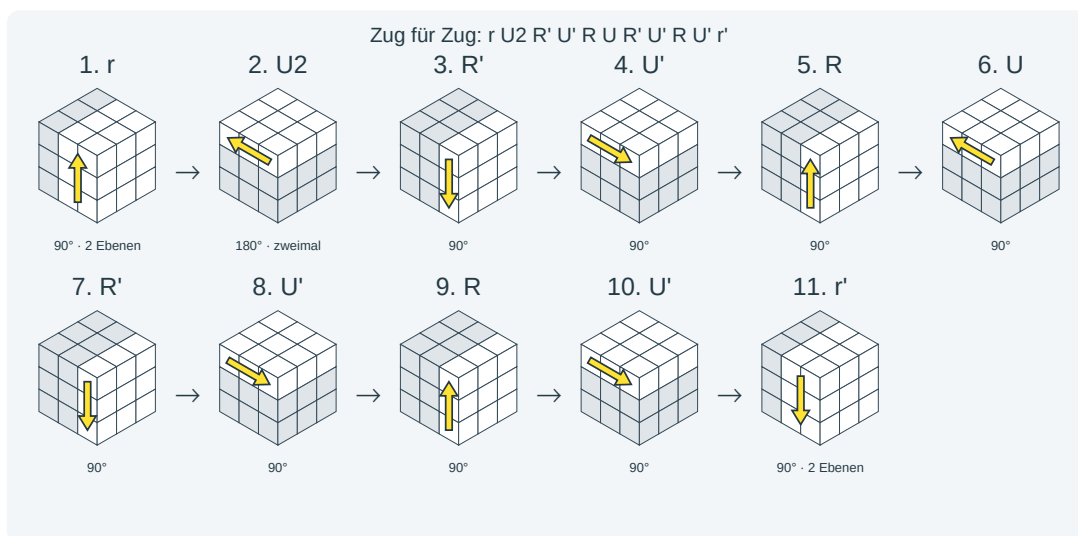
$\ell' U^2 \ell U \ell' U' \ell U \ell' U \ell$



OLL 54



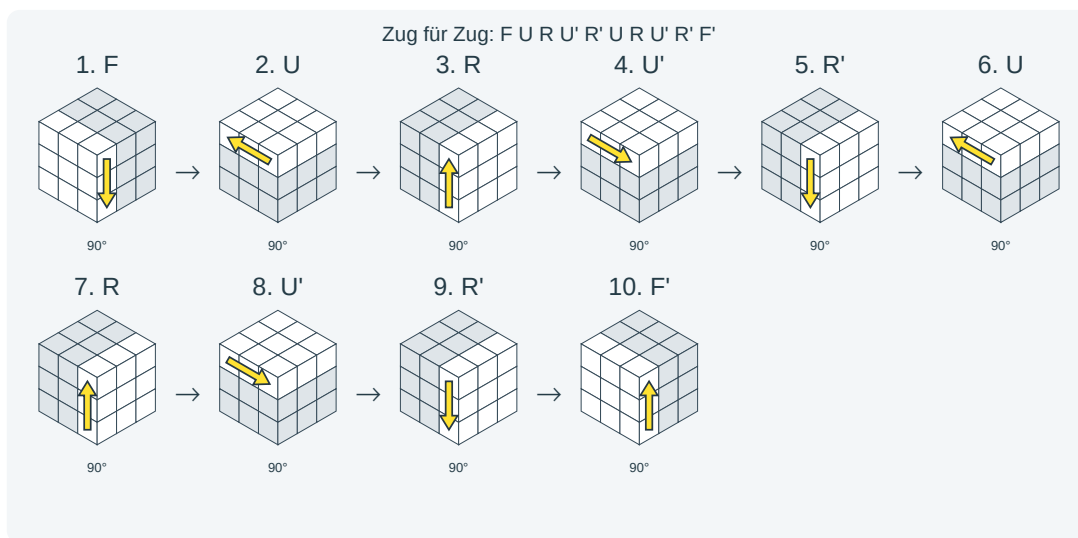
$r U^2 R' U' R U R' U' R U' r'$



OLL 51



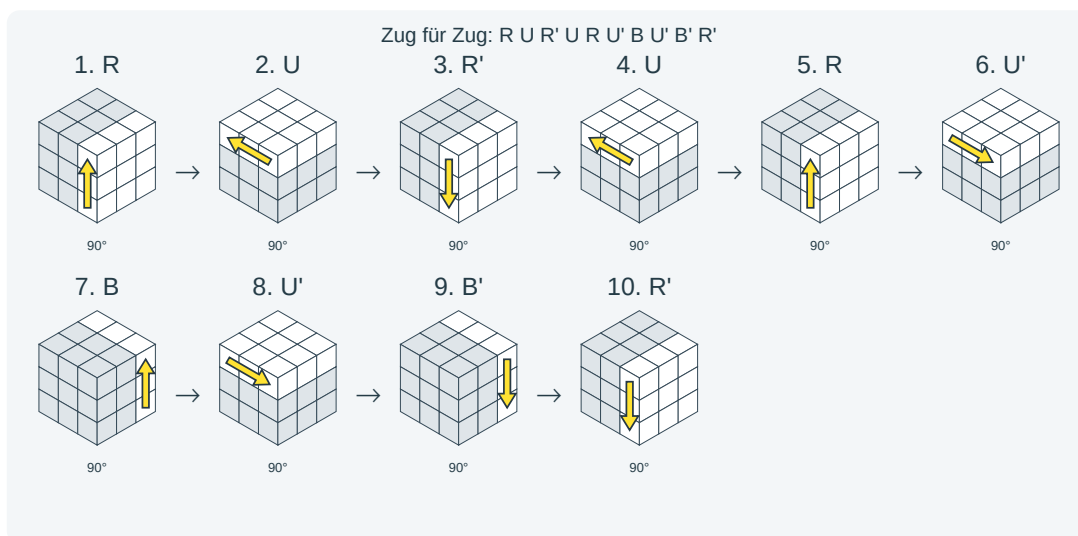
F U R U' R' U R U' R' F'



OLL 52



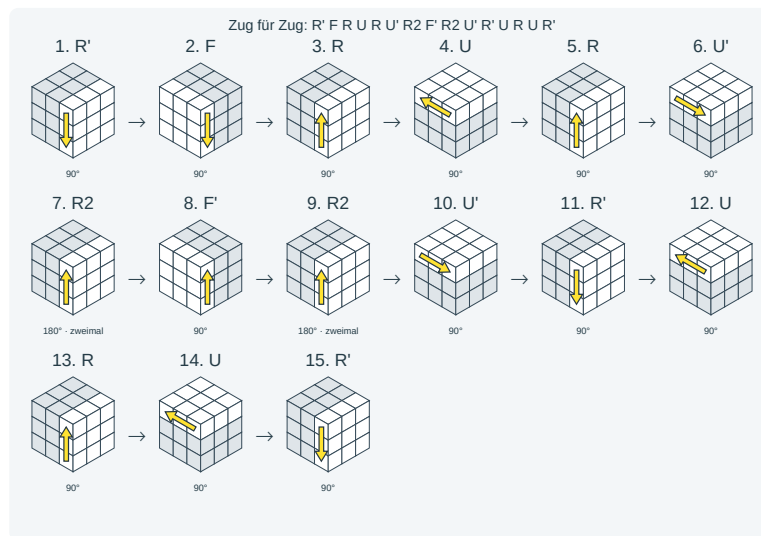
R U R' U R U' B U' B' R'



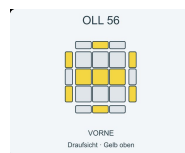
OLL 55



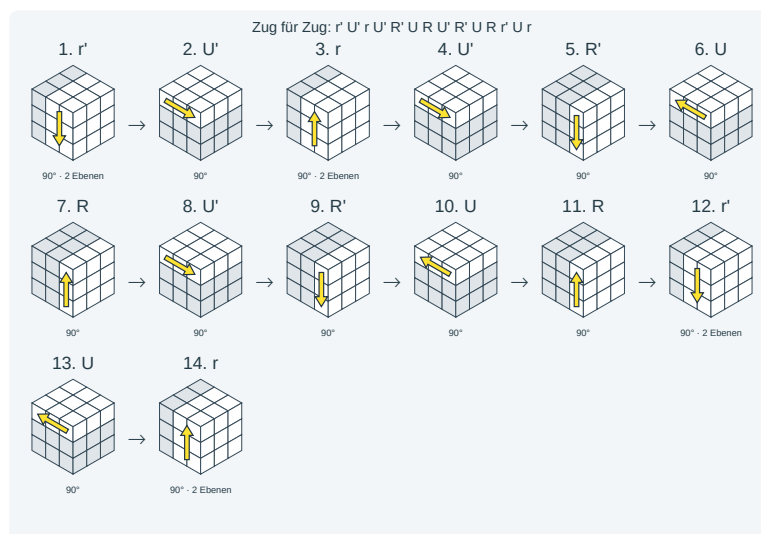
$R' F R U R U' R^2 F' R^2 U' R' U R U R'$



OLL 56



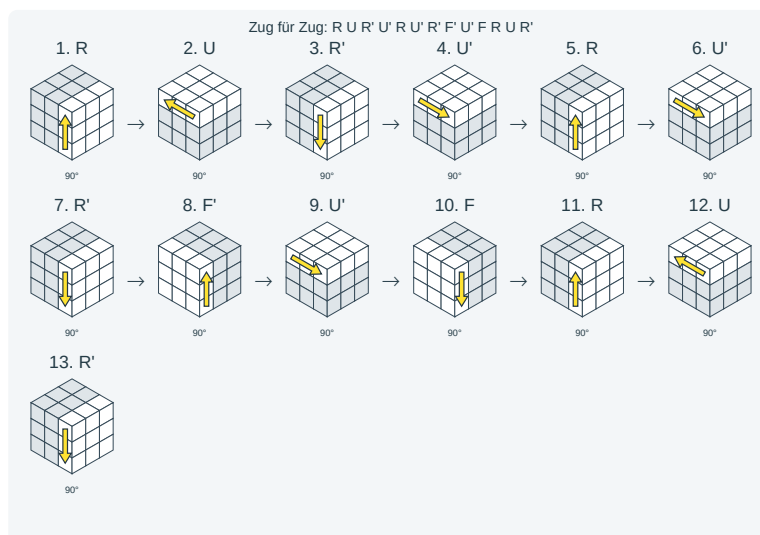
$r' U' r U' R' U R U' R' U R r' U r$



OLL 29



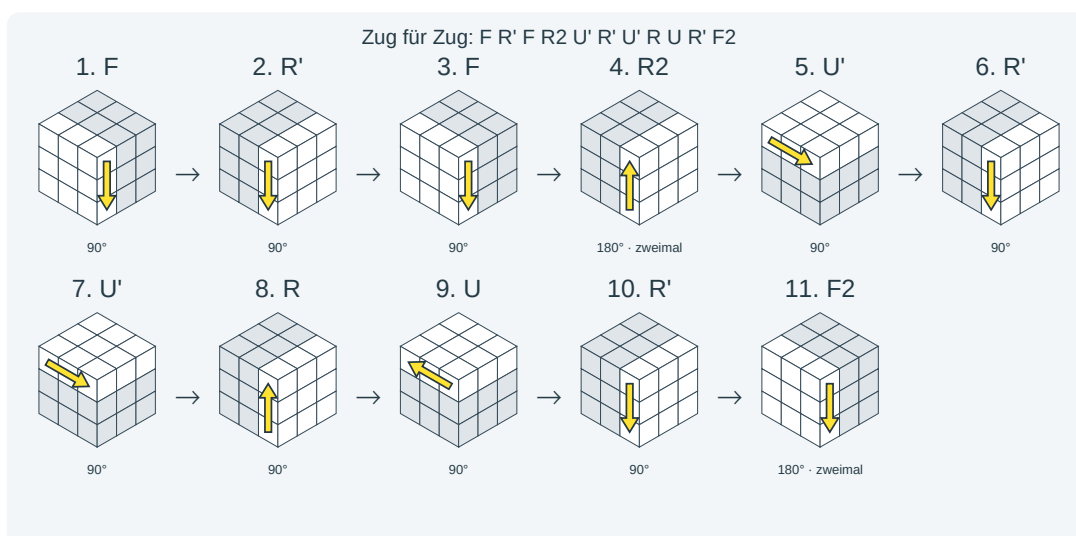
R U R' U' R U' R' F' U' F R U R'



OLL 30



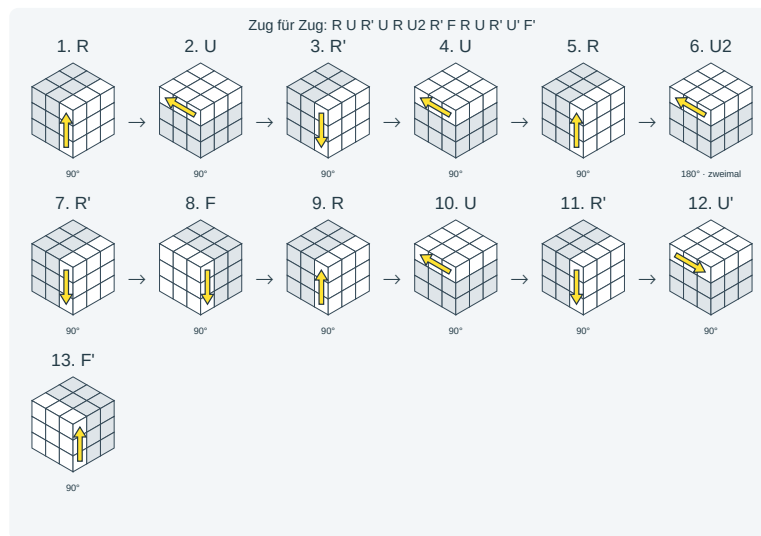
F R' F R2 U' R' U' R U R' F2



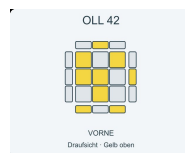
OLL 41



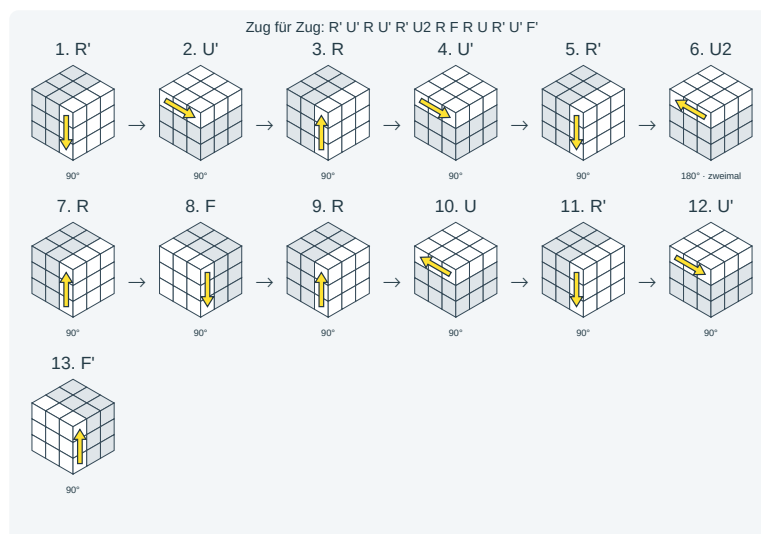
R U R' U R U2 R' F R U R' U' F'



OLL 42



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

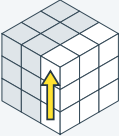
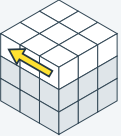
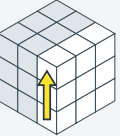
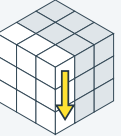
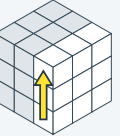
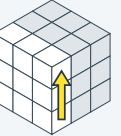
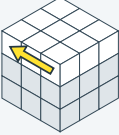
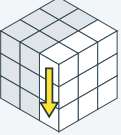
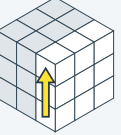


OLL 1



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

Zug für Zug: R U2 R2 F R F' U2 R' F R F'

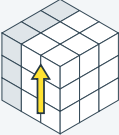
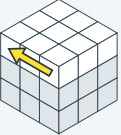
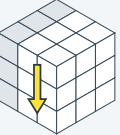
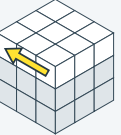
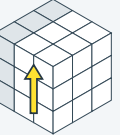
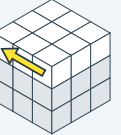
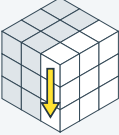
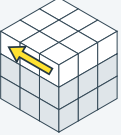
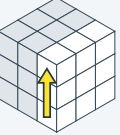
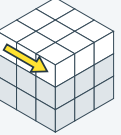
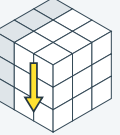
1. R  90°	→	2. U2  180° · zweimal	→	3. R2  180° · zweimal	→	4. F  90°	→	5. R  90°	→	6. F'  90°
7. U2  180° · zweimal	→	8. R'  90°	→	9. F  90°	→	10. R  90°	→	11. F'  90°		

OLL 2



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

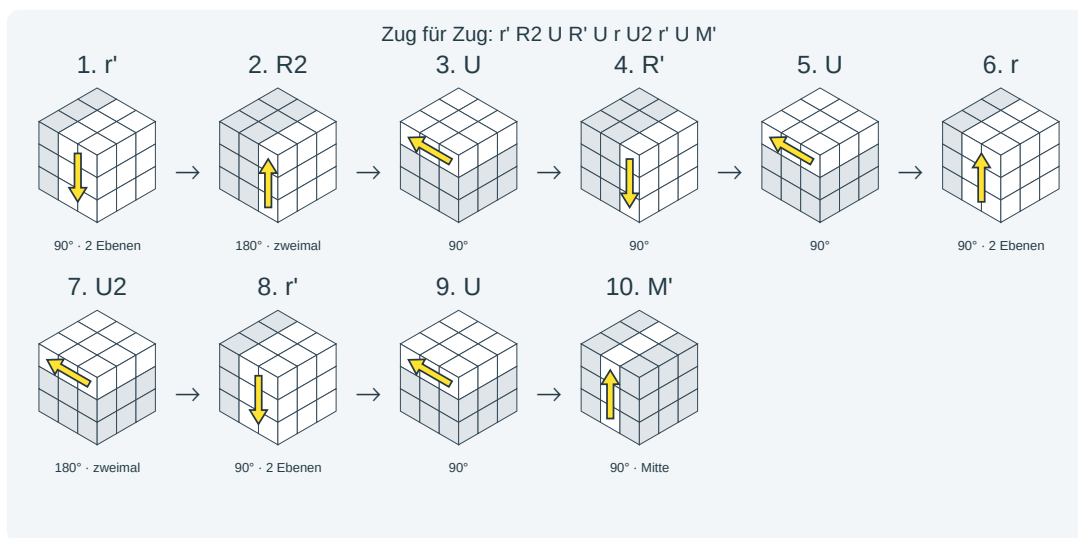
Zug für Zug: r U r' U2 r U2 R' U2 R U' r'

1. r  90° · 2 Ebenen	→	2. U  90°	→	3. r'  90° · 2 Ebenen	→	4. U2  180° · zweimal	→	5. r  90° · 2 Ebenen	→	6. U2  180° · zweimal
7. R'  90°	→	8. U2  180° · zweimal	→	9. R  90°	→	10. U'  90°	→	11. r'  90° · 2 Ebenen		

OLL 3



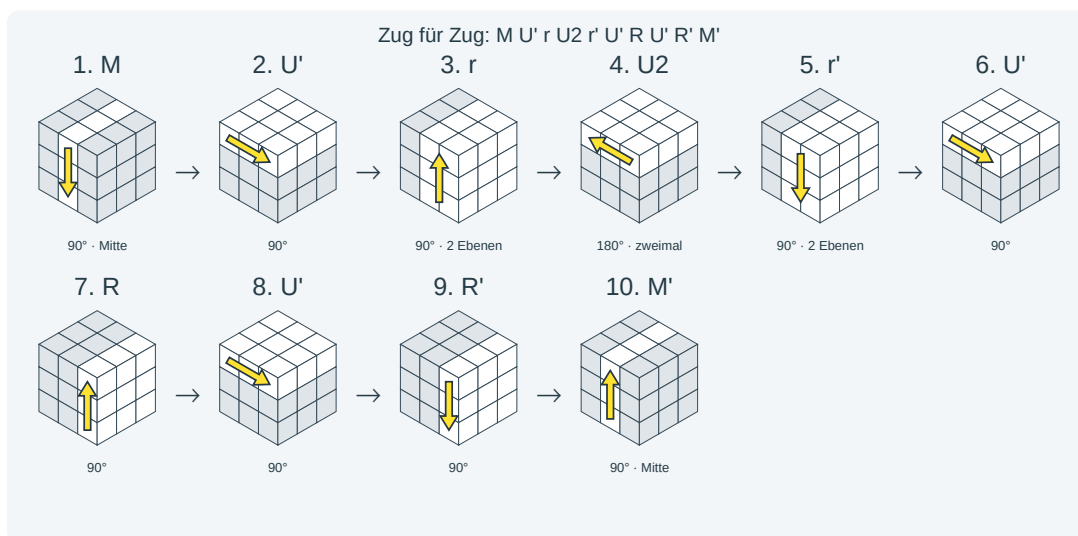
$r' R^2 U R' U r U^2 r' U M'$



OLL 4



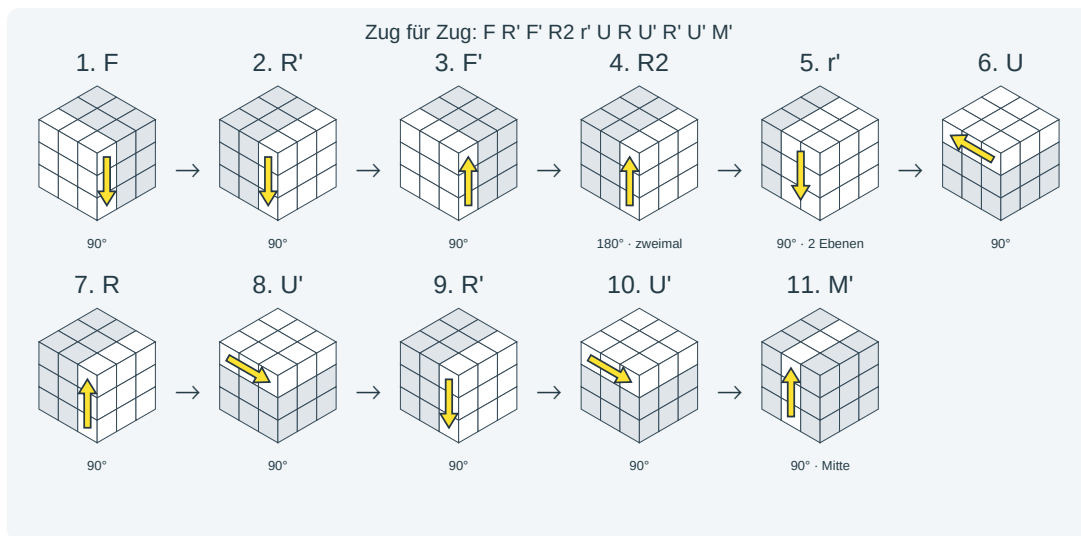
$M U' r U^2 r' U' R U' R' M'$



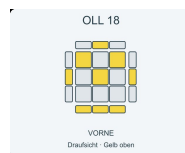
OLL 17



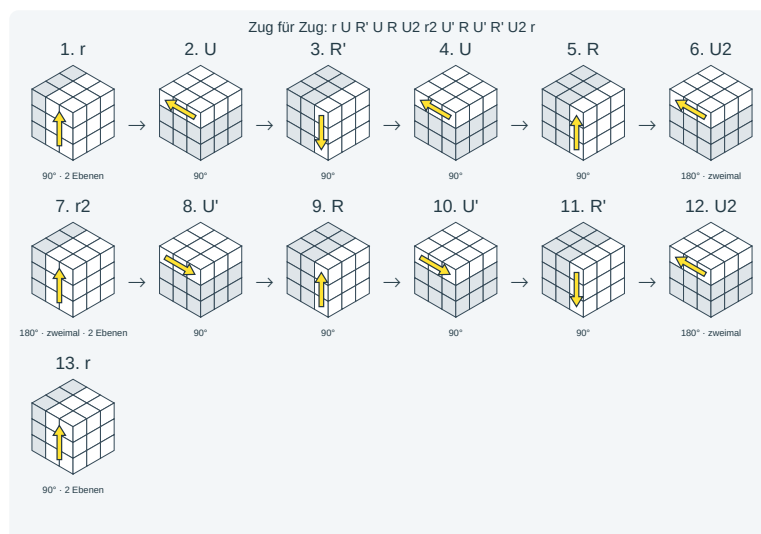
F R' F' R2 r' U R U' R' U' M'



OLL 18



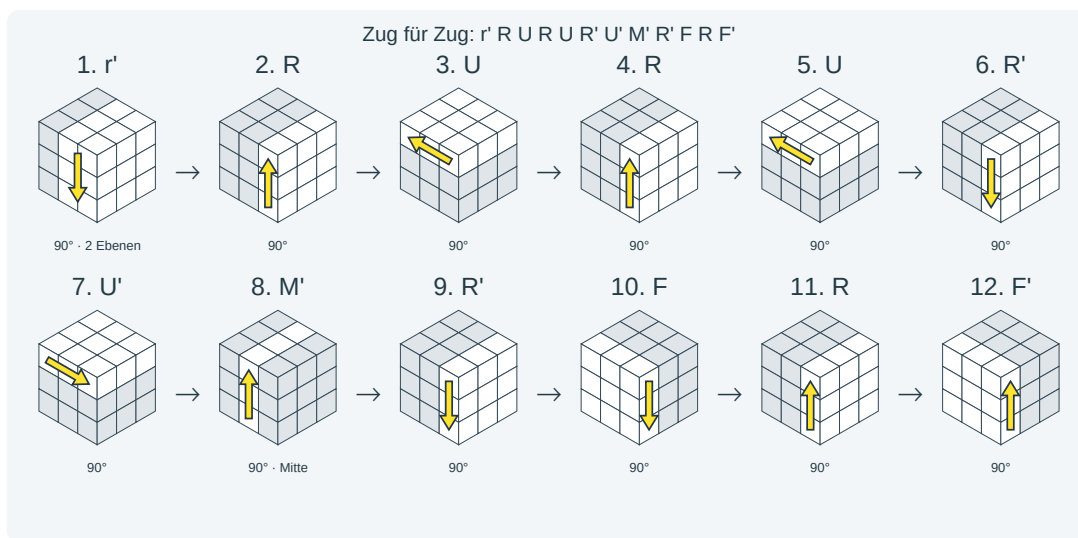
r U R' U R U2 r2 U' R U' R' U2 r



OLL 19



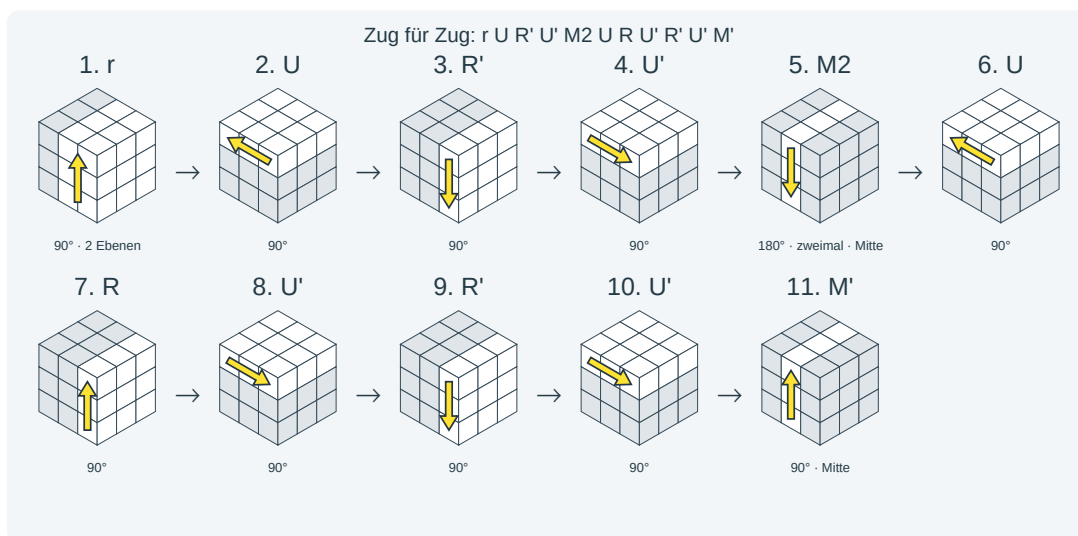
$r' R U R U R' U' M' R' F R F'$



OLL 20



$r U R' U' M^2 U R U' R' U' M'$



Eigene Fallgrafiken für groods.de. Diese Übersicht ergänzt die ausführliche Erklärung. Bei OLL auch die gelben Seitenfelder, bei PLL alle Seitenstreifen vergleichen.