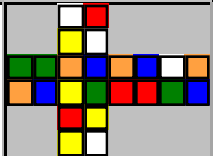


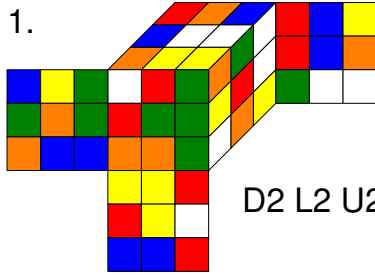
Number of scrambles: Minimum scramble length: Colours (DLBURF): [Help!](#)

1.	RFU2 R' F R2 F' U' R' U'	
2.	UF2 U2 R' F R2 FR' U'	
3.	U' F R U2 R U R2 F2	
4.	U' R2 U F2 R' U' R' FR'	
5.	R' F' U F2 R2 F' R' F2	

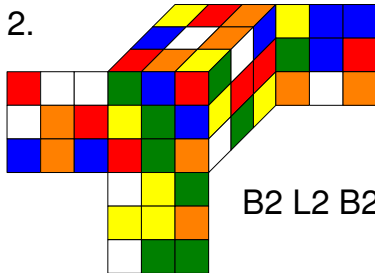
version: August 17, 2010

2x2 Round 1

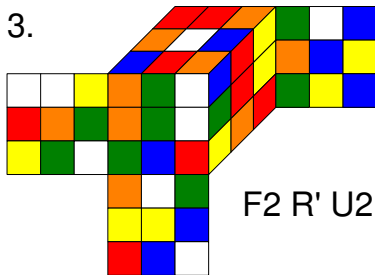
3x3 Blindfolded



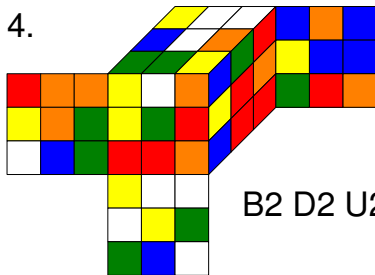
D2 L2 U2 F2 L D2 L F2 L' D2 L U2 B' D' F2 R F2 R U' L B (21f)



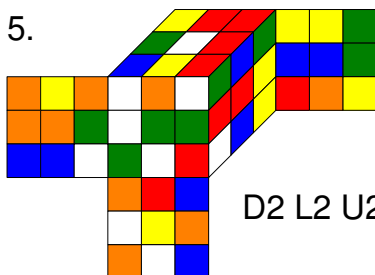
B2 L2 B2 F2 D B2 U F2 D2 L2 B2 R2 F' D2 L' D' R B U R' U (21f)



F2 R' U2 B2 U2 L2 U2 L R2 B D' R2 F U2 L' D U2 L D2 F R (21f)

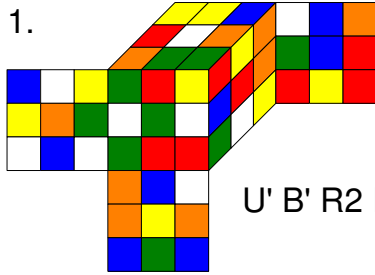


B2 D2 U2 R2 D2 R' U2 L' D2 L2 F2 D' L B D2 U' L U2 R' F2 L2 (21f)

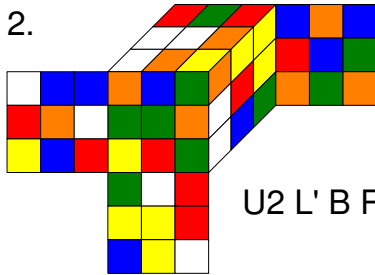


D2 L2 U2 F' U2 B2 L2 F D2 L2 B' R B2 U F D' U F' L2 F' U (21f)

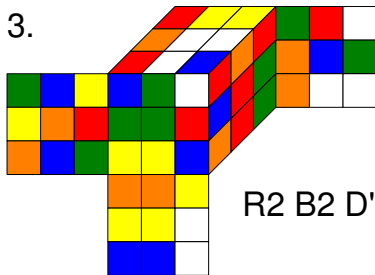
3x3 One-Handed



U' B' R2 F R' F L2 D' U L2 R D' R2 B' R' D' L' D' (18f*)

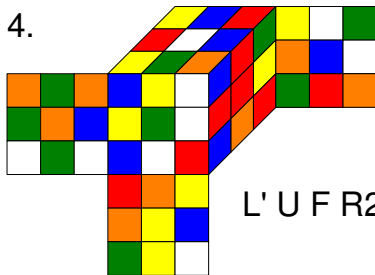


U2 L' B R2 F2 R' D2 F' R D U' F' L' B' L' B' D2 R (18f*)

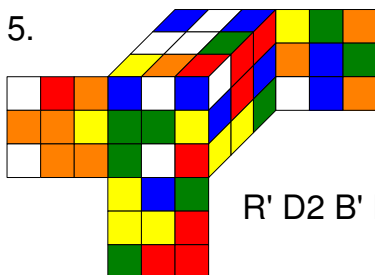


3x3 Speedsolve Round 1

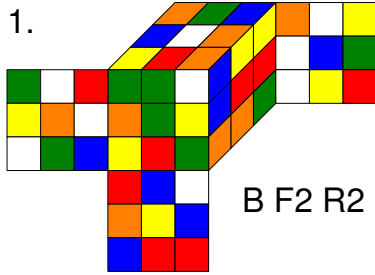
R2 B2 D' B R B D' B F L U2 B2 D2 F2 U' R F (17f*)



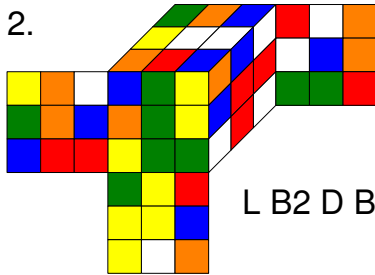
L' U F R2 D B' F2 D L' R2 U2 R2 B2 D' F2 L' U' B2 (18f*)



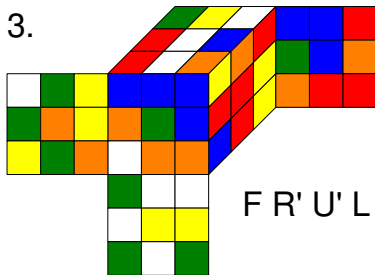
R' D2 B' D F2 U2 L F' R' U2 F L2 R' F2 D B R' (17f*)



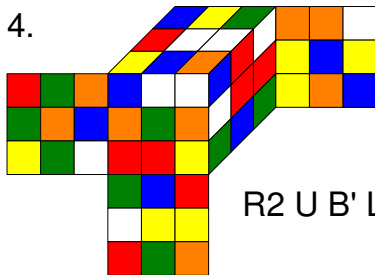
B F2 R2 B F' R2 U L R' B' U F2 L U2 R2 F2 R2 U2 (18f*)



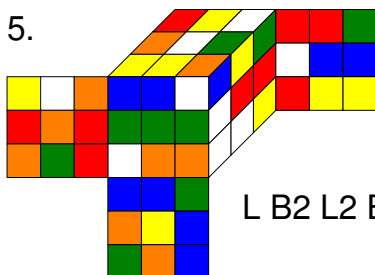
L B2 D B2 L' U2 F2 L' D R' B R2 B L F' L2 F2 (17f*)



F R' U' L B L' R' B' U2 L F2 U' L2 F' D U2 R (17f*)

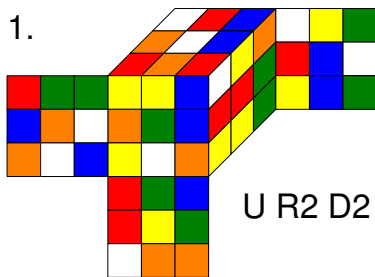


R2 U B' L' U L U2 B' U2 L2 B2 D' F U2 F L D U' (18f*)



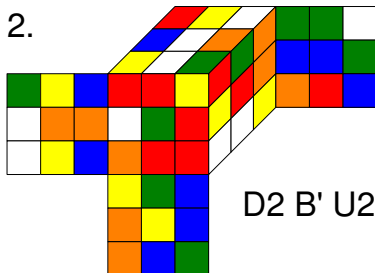
L B2 L2 B L F L' B D2 B U L U L R2 U F2 R2 (18f*)

1.



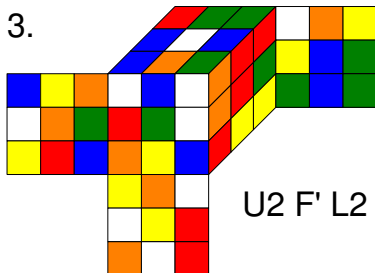
U R2 D2 B' R D2 F' L' B R' D2 U B D' B D U' (17f*)

2.



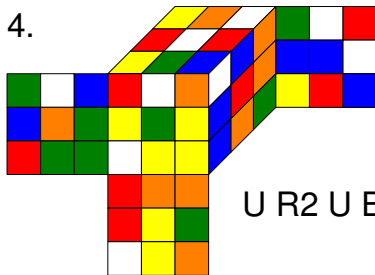
D2 B' U2 F U' F D B2 L' F' D B L' U' L' D L U (18f*)

3.



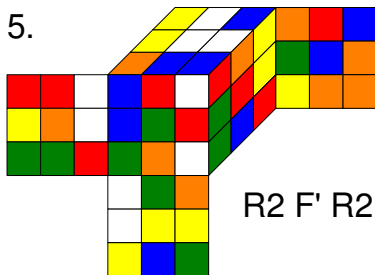
U2 F' L2 U' F' U2 F2 R' B2 R' D R B L D' B2 (16f*)

4.



U R2 U B' L F' R D2 R2 D' B2 D2 F' D2 R2 U' F U' (18f*)

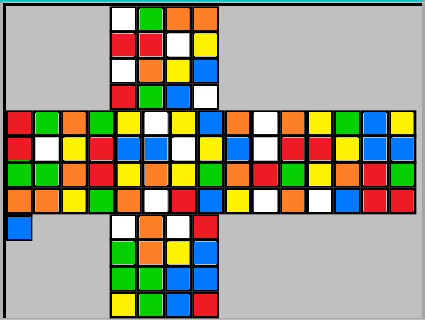
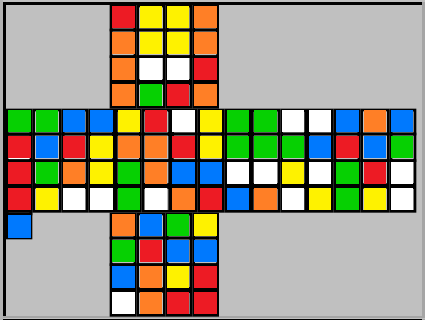
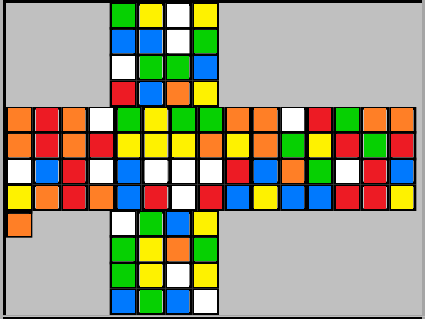
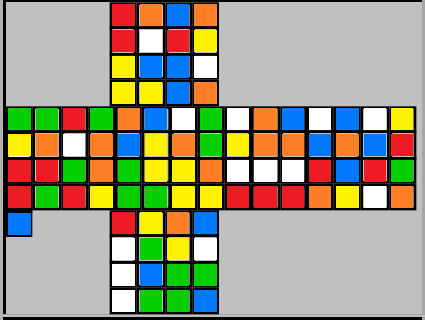
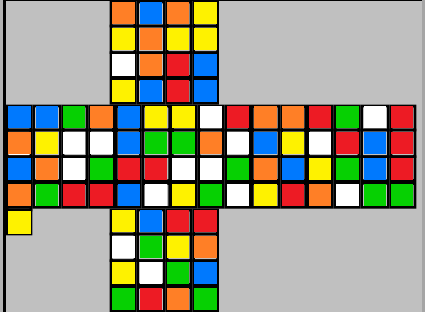
5.



R2 F' R2 D' U2 L' D U B2 D' R' D2 B' D2 B' D' U' F' (18f*)

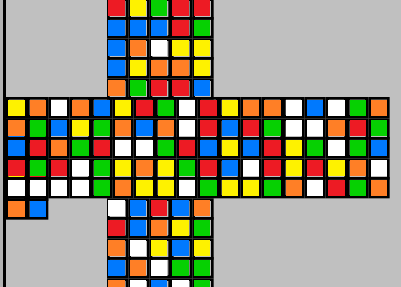
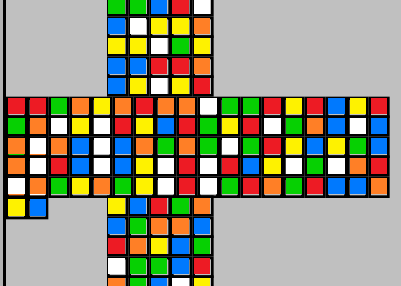
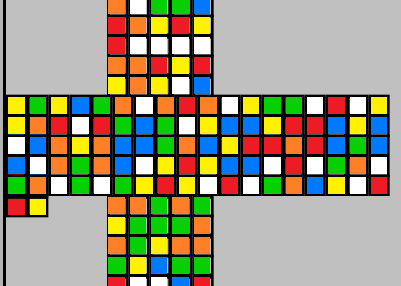
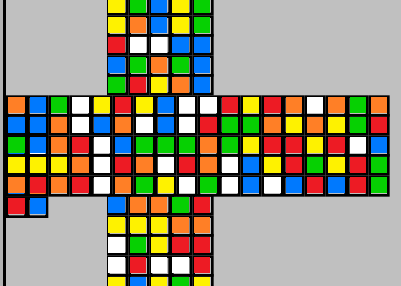
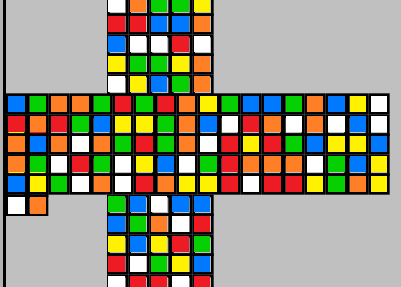
Cube size:
 Number of scrambles:
 Scramble length:
 Colours (DLBURF):
 Multi Slice:
 Cube Orient:

[Help!](#)

<p>1. Fw' D Uw' U2 L2 Uw2 L' D' Rw' B' U' F Uw U2 L' F2 L Rw R B' Fw2 D2 Uw' R F Uw' F2 U Rw' B Rw' D' L' Uw' L2 FL' F Uw R'</p>	
<p>2. Fw2 F D R2 FR' B2 L2 Rw R U' L2 B2 L2 Fw2 F2 L B' D2 Uw2 Rw2 U2 L' Rw2 R2 B2 Fw Rw2 R2 Uw U2 R2 B' D Rw F2 U Rw' Fw2 L'</p>	
<p>3. Rw' Fw L' Rw2 R' F' Uw U' L2 Fw U2 B F' Uw2 B' Fw' F2 Rw' R' Uw2 L U B Fw' D' B2 L' Uw' U Fw R2 Fw' L2 U' R F D2 Rw' Uw' U2</p>	
<p>4. Uw2 R Uw' B2 L U2 R2 D B' DR' B Uw' R U Rw' F D F2 Uw' F Uw' L' Fw2 R B L Rw' R2 Uw Fw2 F' D2 U2 B2 Rw' D2 B' Uw R2</p>	
<p>5. B2 Fw2 R U Rw' B R B U' R2 B' Fw' L2 D2 FD' U2 Rw Fw Rw B Uw Fw' Rw2 B2 Fw2 F2 L2 Uw Rw2 Fw2 R Fw Rw' Uw U R D U R'</p>	

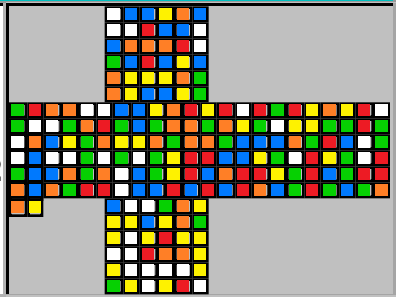
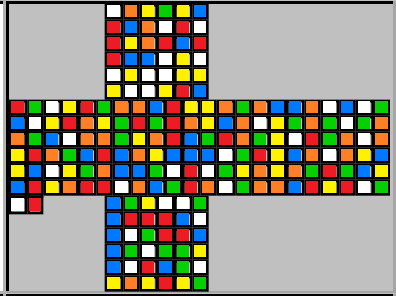
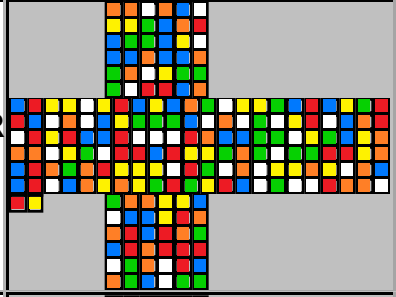
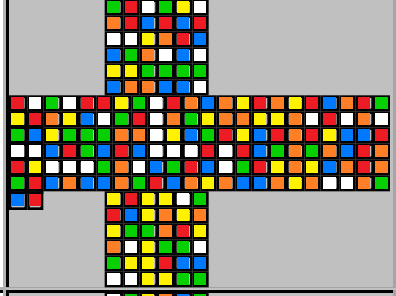
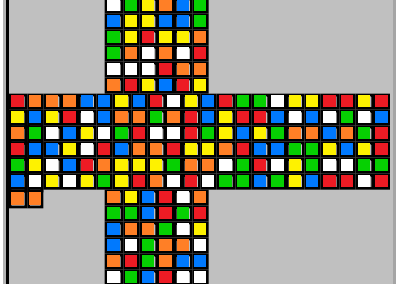
Cube size:
 Number of scrambles:
 Scramble length:
 Colours (DLBURF):
 Multi Slice:
 Cube Orient:

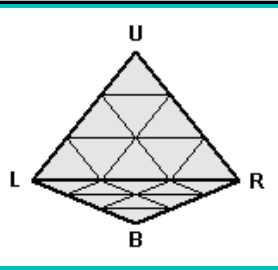
[Help!](#)

1.	<p> Rw Fw' R Uw' R2 F2 Uw2 B Uw2 Rw R' B2 U Fw U2 Lw2 Dw2 Rw Fw Uw' B2 Uw' U Bw' F Dw' Uw L R Fw Dw' L2 Bw L Lw' Dw2 B D Uw2 L' F' Rw R B' Uw' F2 Dw' Bw Lw' D R2 B2 Rw F Lw' D Rw Bw2 Dw2 Uw </p>	
2.	<p> Rw2 Fw' Lw D Uw' R2 Fw2 L U F' Lw' Rw B Bw2 Fw' F2 U' L D' Bw2 Uw2 Fw R' Bw Uw2 B2 D' F2 U2 Bw L Uw2 Lw Rw Dw' B Lw Rw2 Fw Lw Uw' B2 Fw2 Lw2 U Bw' D2 B2 Bw2 Dw Uw' F2 Lw' D' Dw2 U' L' U2 Bw Dw2 </p>	
3.	<p> Fw D2 F' R2 U' Bw' F2 Lw U' L2 Rw2 Uw2 B' U' Bw2 F L' B F' R' Fw D2 L' Fw' D' Dw2 U2 F2 D2 Dw' U' L2 F Uw2 U' B Bw' Rw2 Dw B Bw' Fw' D' Dw Uw U2 L' B2 Fw F2 Uw Rw R B2 Lw Uw2 Lw D' Lw' F </p>	
4.	<p> B2 Bw2 F2 D' U' Bw Rw' R' Bw U2 Rw2 U L2 R' Bw2 Fw L R2 F Lw2 B' Fw U2 Bw Lw' Rw D2 Fw2 Rw2 Bw' L' R2 B Bw F Rw2 D B2 Rw' D' Uw U B' D2 Dw2 F Rw R2 Uw2 R2 U2 Lw2 R Fw2 F Dw' U2 Lw B Bw2 </p>	
5.	<p> Fw' D2 R2 Bw Rw' Bw D L' Lw Bw2 Uw2 U2 Lw2 Uw2 L2 Dw' B' F2 R2 F2 L' Bw' U' Bw2 Fw Uw' L2 Bw L Fw Rw' D' L2 Lw2 Bw' Fw F2 D Lw Rw2 D' Dw Rw' R' Bw' L2 Dw' Fw2 Dw R Uw' Rw' R' D2 Dw' Bw' R' Fw' R Uw2 </p>	

Cube size:
 Number of scrambles:
 Scramble length:
 Colours (DLBURF):
 Multi Slice:
 Cube Orient:

[Help!](#)

1.	<p>D' 2U' 3R B 2D2 3F 3R U2 2L' D' 2U' 3F 2D' 2B2 F 2U' B 3F F' D2 2F D' U' R2 2B 2L 2D U 3R B F2 R2 U2 2B' D 2U2 L2 2B 3F 2F2 L 2D' 2B2 D' 3U2 B2 2B2 3F' 2L' U' 2B' F2 2R D 2U2 U' L' 3R2 2D 2B2 2F2 3R D' 2D U2 2B2 D2 3U2 2B' R 2U2 2B R' U R2 B' 2D 3R 3U' B2</p>	
2.	<p>2L' U2 R B' R 2F2 2U' U2 3F2 2F' 2D2 3U 2U F' 2L 3F2 2D' 3R' D' 2B2 2D' B 3F2 D 2U2 U' 2L B2 3R' 3U' F2 U2 B' 2U2 2B 2R' 2D' 3R2 R F' D' B' L' 2L2 2R 2D' 2R 2D 3U U' B R' D F 2U R' 2F2 3U 2R2 3F2 2U' 2F F2 R 2D 3U' U2 B2 2D 2R 2B 3R 3F' 3U 2R' 2D U L' R B</p>	
3.	<p>2U' B 3F' 2FR 2U' 3R' 2U 2L2 3R' R' 2F2 D2 3U2 F2 D U' B2 2U' L 3F' D L2 2R2 2F' 3U' 2U2 R' 2B R B' 3R2 D 2D' 3F F' 2R' D2 2B' F' 3R B 3U 2U' 2L' B' 2L' 2B 3F 2F' U' 2R' 2B2 2R 3F' U2 2R2 R' 2B2 F' 2U U' L' 2D 2U F' 3R2 2R' B2 2R' 3U2 2F2 3R B' F2 2D2 B R2 2F 2R2</p>	
4.	<p>D 2D' B2 3F' L' 2B 2F U' 2L2 2R2 2B' 3F 2D 2R 3F2 2D 3U 3R2 D2 3R 2R' F D2 2F' 3R' D2 U' 2L2 D' 3F' 2L' R 3F2 F' 2D2 3U' 2L' R D' 3U' 2U L 2L2 R 2B 2F2 3R' 2R2 B2 2R' 3U2 2F2 R' B' L' 2D U2 3F2 2U2 L 3R' R2 2U 2F D B2 R 2D2 L2 B2 D' 2U2 L' 2L 2U' L 3R 2B U2 2R'</p>	
5.	<p>F2 R' D' 2L D' 2U' 2F2 2D2 L2 2F' L' 3R' F 2D2 2U 3R2 R2 2D2 R' B' 2R' U L 2U 2L2 U2 L2 2L 3R R2 B' D 3U U' 2L2 2D U R2 B 3U2 B 2D B' F2 L2 2R2 F' 3U2 R' 2B' 3F D U2 F' 2L2 2R 2B2 F' U' 3F2 F R2 2F' 2D' 3U2 2F 2R R' 2D' 3R' 2U 3R2 3F 2R 2B F 2L U2 3F' 2F2</p>	



Number of scrambles:

Optimal Random-State Scrambles
Generated Wed, 08 Jun 2011 22:59:20 GMT

Colours (LFRD):

Note:
Small letter: Rotate a vertex piece, Capital letter: Rotate two layers at once.

1.	UR' B' R' U' LBR' L' r' b u	
2.	RL' UR' B' U' B' l b u'	
3.	L' B' L' R' U' BL' l b	
4.	U' LR' BRBUR' b	
5.	L' U' RU' BR' B' L r u'	