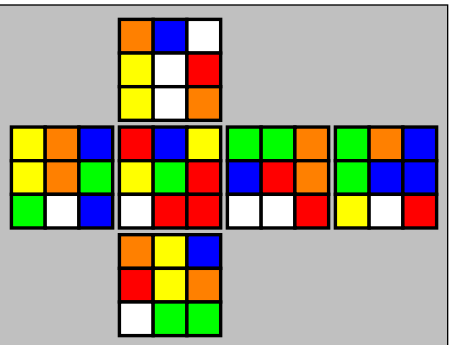
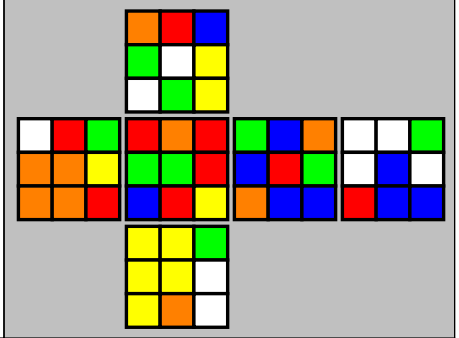
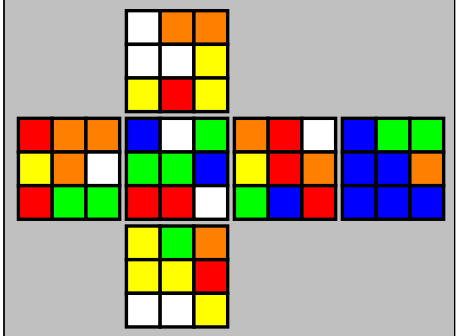
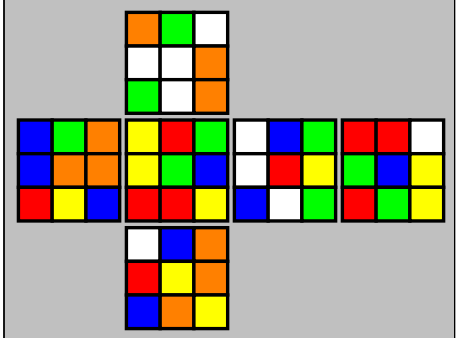
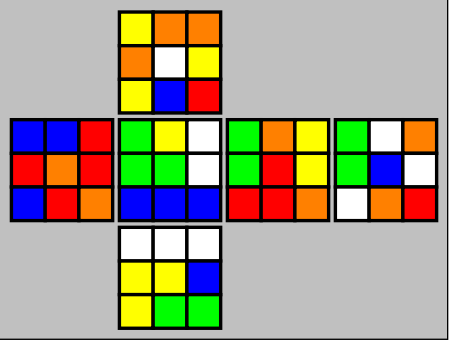
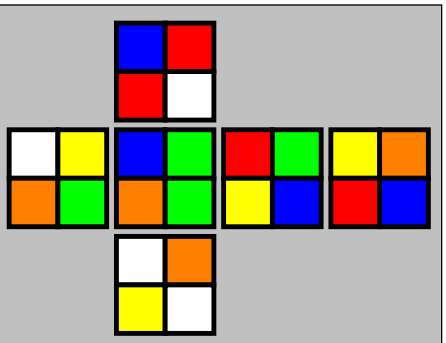
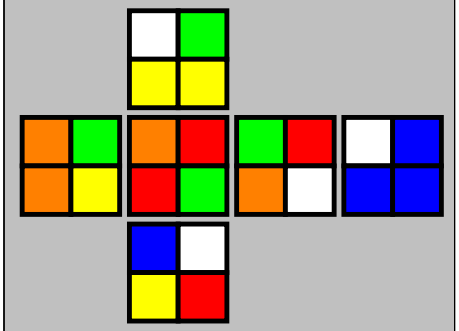
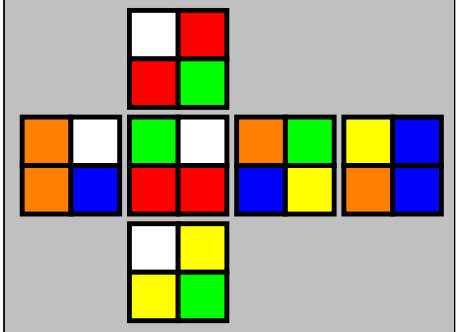
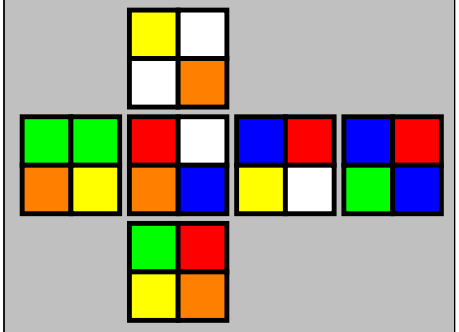
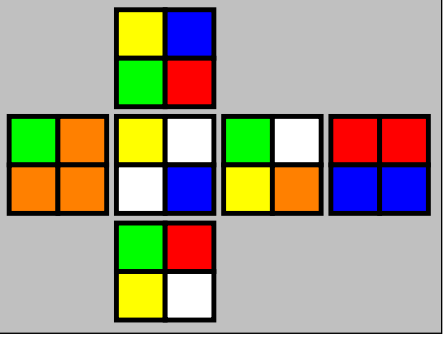
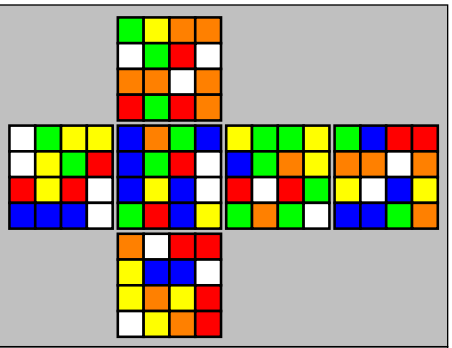
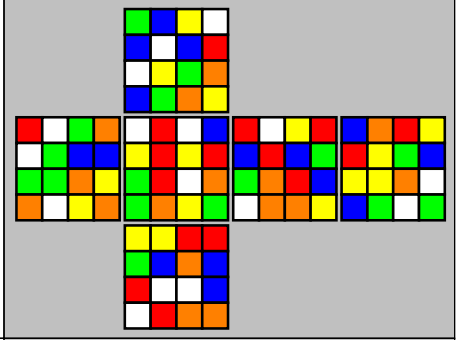
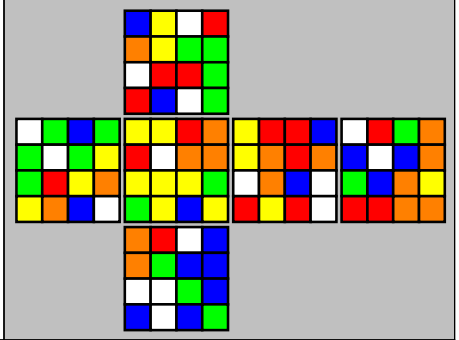
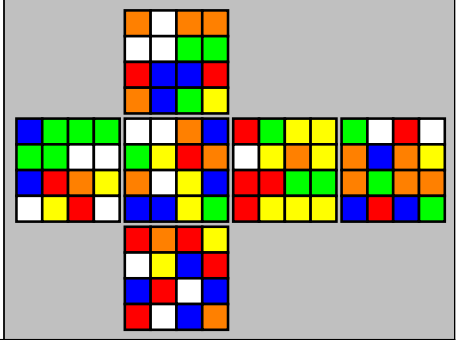
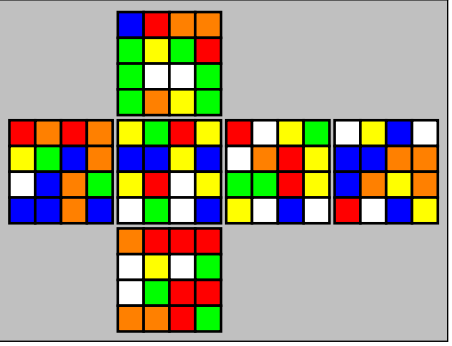
Scrambles for 2019-05-22

1.	L2 U F2 L2 D2 F2 R2 U' R2 U' B D' L' U F D2 R' U2 B L2 U2	
2.	R' D2 F2 U2 F2 L D2 L F2 D F R' U' R U' R' D2 U' F2 L'	
3.	U2 B2 D2 L' D2 R U2 F2 R F2 D2 B L2 F U2 B' D B' U2	
4.	D B' L' B2 U B' D R B' R2 L2 B2 L2 D B2 D R2 D R2	
5.	U2 D2 L D' B2 L D2 F' R' D R2 D2 F' U2 F B2 R2 F' B'	

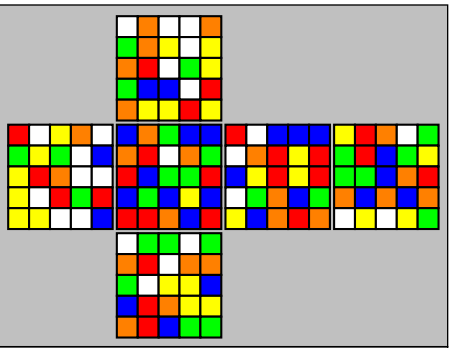
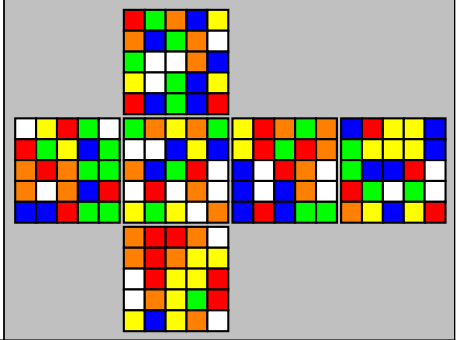
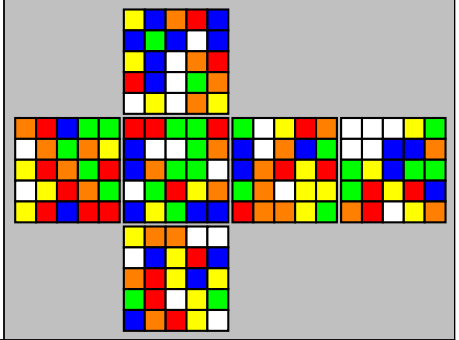
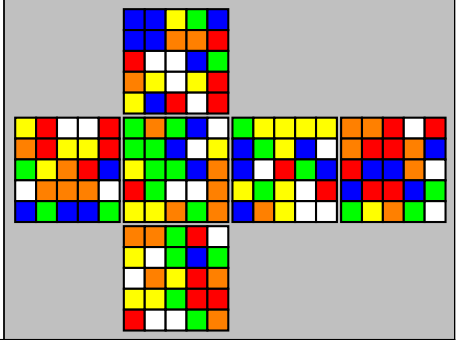
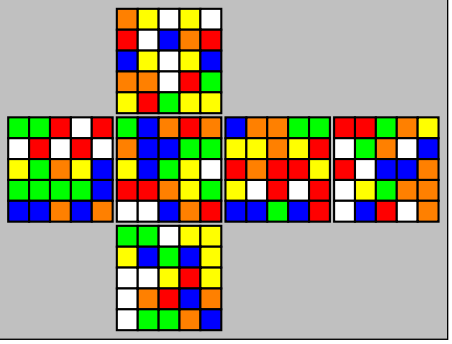
Scrambles for 2019-05-22

1.	R' F U' R' F U2 F U' R U R'	
2.	R U' F' R2 U' R U2 F R U R'	
3.	R U' F' R' U2 R' U' F U F R	
4.	U R' F R U' R' U' F U2 R' U'	
5.	U' R' U2 F R U2 R' U2 R' U' R2	

Scrambles for 2019-05-22

1.	L' F R' D2 R F' U' Fw2 U2 R B F' R' Fw' Rw D R2 Uw' U2 Rw' Fw2 B2 Rw2 R Uw L R2 Fw' R2 Fw2 Uw Fw2 R Fw2 Rw2 Fw' U Rw' L' D2	
2.	U2 B R Uw U' L' F R' Uw' R Rw' U' L' Rw2 D Fw R2 Uw B2 F U F Fw2 Uw B' Fw Uw Fw' U2 Fw' L' Uw' R2 F' Rw' R B Fw' L Uw	
3.	D2 B' Uw B' L Uw U' R2 Fw F2 Uw2 L' R2 F2 Uw2 Rw L Uw2 Rw' F' D B' L' R2 U R Rw F U Rw' L' Fw2 Uw R D2 Rw F2 D Uw R'	
4.	D' U' Uw' Rw' F Rw2 D2 R' L Fw D' L' Rw2 D' U' R U' Rw U D Rw' L2 D U2 Rw R2 B Rw B L2 B2 L R2 U2 F' D2 L2 Uw2 B2 D2	
5.	L Uw2 R' Uw' Fw D Fw U2 L' Uw2 U' D L' B2 D2 Fw B' Uw' U2 R D2 U L D Rw' F R L F Uw' D2 B' Uw D' U R L F2 Rw D'	

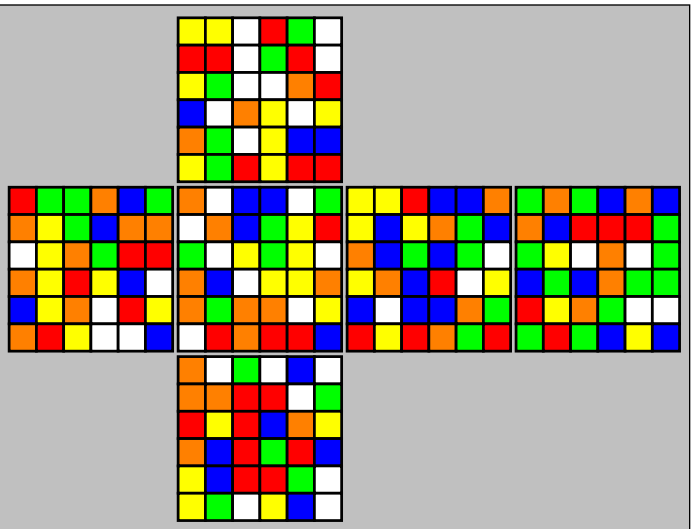
555
Scrambles for 2019-05-22

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

Scrambles for 2019-05-22

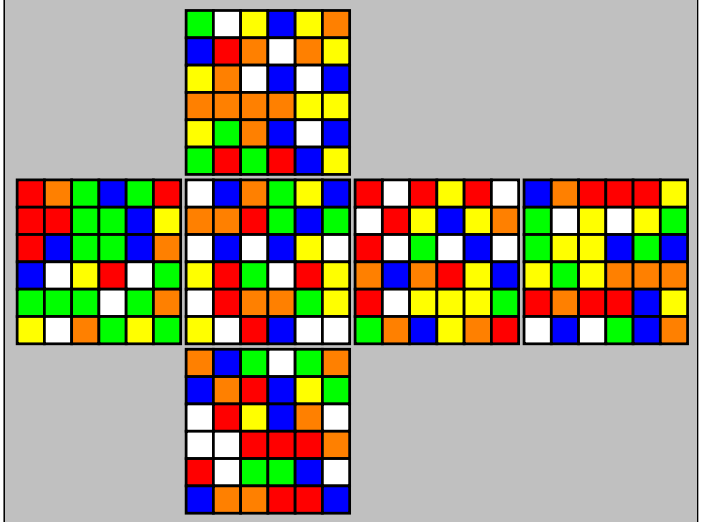
1.

Dw2 Bw' D2 B' 3Fw2 Fw'
3Rw Fw' 3Rw' B2 R' L'
Uw' Fw2 Uw2 R' D2 L
Lw' B' 3Fw' 3Rw2 3Fw' Bw2
3Uw' Rw B 3Fw Fw2 U2
Rw 3Uw2 U2 Bw2 Lw D2
3Uw Bw' U2 D 3Uw2 3Fw2
L U 3Fw' B' Fw 3Rw
Uw2 D' 3Uw' 3Rw' Uw2 D'
B Bw R Dw' Rw 3Fw
Uw2 B D2 L' F B2
Bw' 3Fw2 Lw F2 L2 U
Lw Rw2 3Fw Fw2 Lw2 Fw'
3Rw' D2



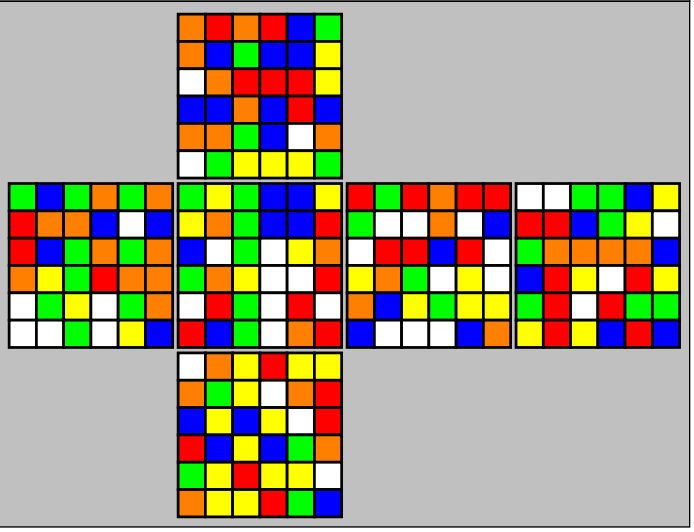
2.

U2 D2 B2 Lw2 Fw2 R
D2 Dw2 F L Uw' U
D R2 Bw2 L' 3Uw' 3Fw2
R2 D2 Lw2 Rw2 3Uw' F'
Dw' 3Fw Lw Rw2 B2 R'
L2 Fw' U' L2 Fw F2
Dw 3Rw2 Rw' L 3Uw Fw
R U2 Dw L' 3Rw' 3Uw'
Dw2 B 3Uw Fw 3Uw2 L2
Rw' 3Rw2 B2 Fw' 3Fw2 U
L2 F2 3Uw' 3Fw' Fw2 L
F 3Uw' R 3Uw B Rw2
B2 F Dw' U Rw 3Uw2
L 3Uw



3.

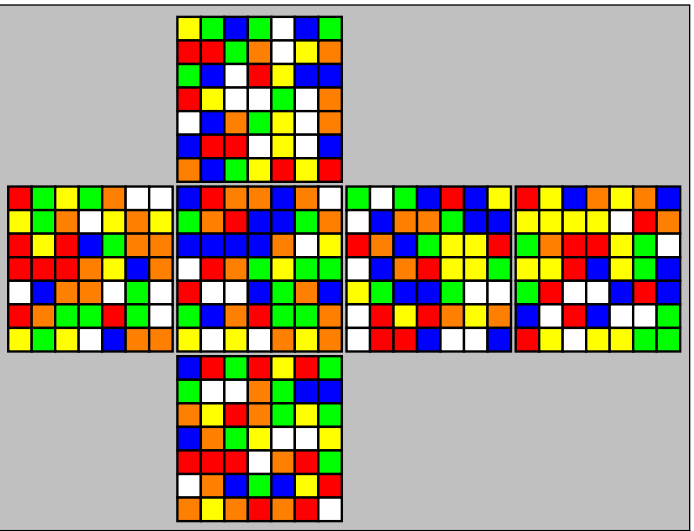
B' D2 3Rw2 D' U Lw
3Uw2 Rw2 Bw R Bw' Uw
Fw2 L2 U2 Rw' B' D2
3Fw' 3Uw' Dw' Bw U' 3Fw'
Uw' Rw' Bw 3Uw Lw 3Fw'
D' Bw Fw 3Fw B2 U2
F2 Bw D B2 Fw 3Fw2
F Uw' U' Lw D' Bw2
Uw Dw2 Lw F U' Rw
Fw2 L2 3Uw' Uw U F2
Dw2 Uw' D2 Bw Rw2 Fw
R2 3Uw' R 3Fw' L2 3Rw
Fw' U' F' 3Uw' D' F2
D' Fw'



Scrambles for 2019-05-22

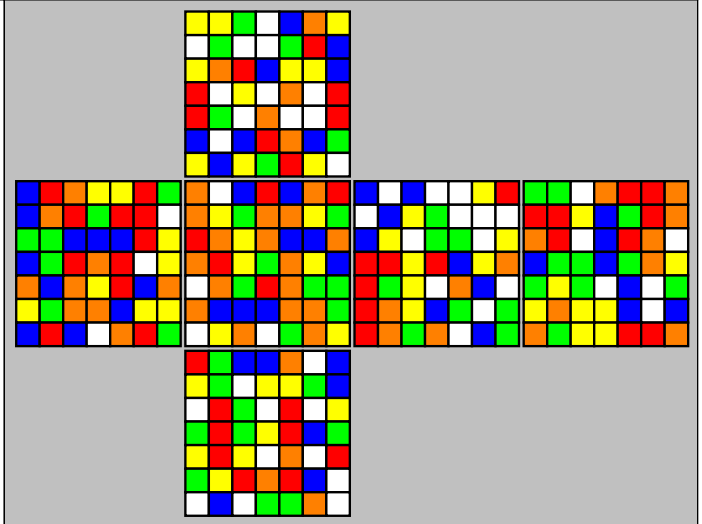
1.

B2 3Uw' Rw' Lw2 Fw2 R2 3Fw2
Fw L' U2 D Fw2 Bw2 3Dw'
3Uw D2 3Bw2 Lw2 3Lw2 3Dw' Rw
3Uw' U' Rw2 3Uw' Bw' 3Fw' F'
B' 3Uw' R2 Lw F2 D 3Rw'
3Dw' Uw Fw R2 L2 D2 B2
Lw' 3Uw 3Dw B2 3Fw2 3Lw' 3Dw'
Bw2 3Fw Lw2 B Rw2 F' Bw'
B' 3Fw' 3Lw2 Dw 3Lw 3Uw' F'
R 3Lw2 Fw 3Lw' 3Bw B2 3Dw'
Fw' B2 R' 3Rw2 3Uw2 Rw2 D
Lw2 Dw' U' 3Fw' 3Lw2 3Uw 3Rw'
B' Rw' U2 3Uw' Lw Dw B'
3Rw' B 3Uw Uw2 3Lw2 U2 Bw2
3Fw2 Rw



2.

3Uw' U2 Rw 3Bw' U Bw2 R2
Dw Fw D Dw' Uw F' 3Lw'
Uw2 3Bw' L' 3Bw R' 3Rw B2
Rw Fw 3Lw B2 L2 3Bw Bw'
Uw D2 R2 3Bw Fw2 Rw' 3Bw
B Bw2 Lw' U2 Dw2 Uw2 3Bw2
D' Dw2 F U2 Lw2 Uw' R2
3Rw2 3Dw' F D2 3Bw2 U' 3Lw2
Fw2 D' 3Dw2 L2 D' R2 L2
3Uw2 F R B' Uw' 3Bw R2
Bw' 3Uw2 F' 3Fw2 3Lw' 3Rw L2
D F' 3Uw F' D' 3Dw2 R'
3Fw2 Fw' F' D' L' 3Uw' 3Bw2
Lw Fw2 D 3Fw2 R' Lw2 3Dw2
Lw2 B2



3.

3Lw2 L2 Uw 3Rw2 L Dw' R'
F 3Lw Fw' 3Bw' 3Fw' Uw Rw2
L2 Uw2 L2 B2 Bw' D2 3Bw
3Fw' Dw 3Dw' 3Rw' 3Bw' Dw2 3Fw
3Dw2 F B2 Bw2 3Rw2 Lw' 3Dw2
U' 3Bw' R B' 3Fw2 3Rw' L'
U' 3Uw Bw 3Fw' Rw B2 Lw
L' Rw U F2 3Fw' 3Dw2 3Bw'
L2 U' Bw2 L' Dw2 Fw' Dw
3Dw' U' F 3Rw2 F' L' Rw2
Dw' 3Fw' L' R2 U2 3Uw2 3Dw2
3Fw' Dw' 3Fw D Rw 3Bw2 D2
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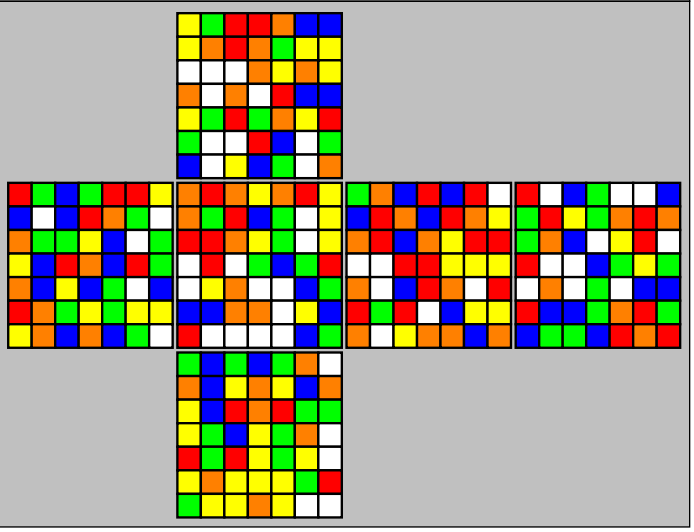
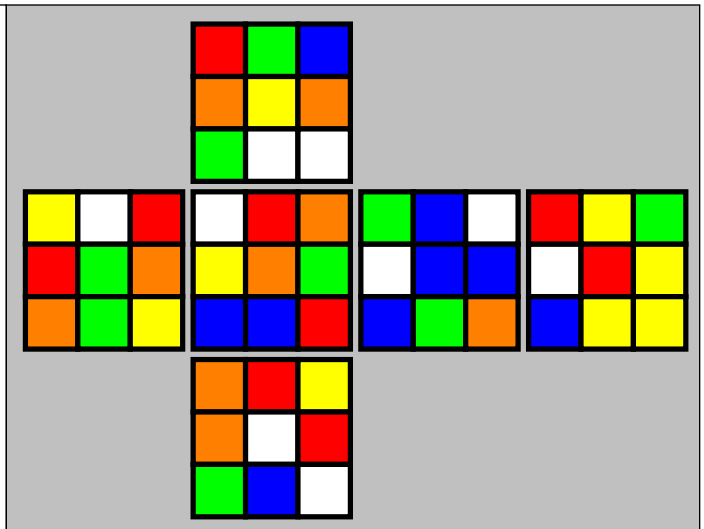
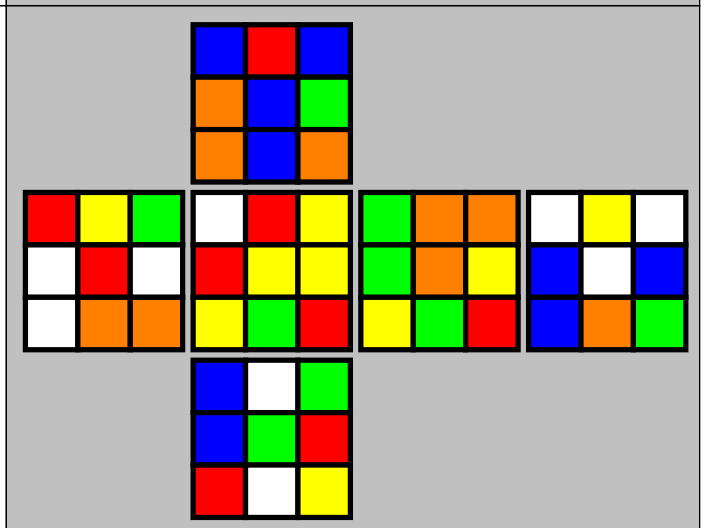
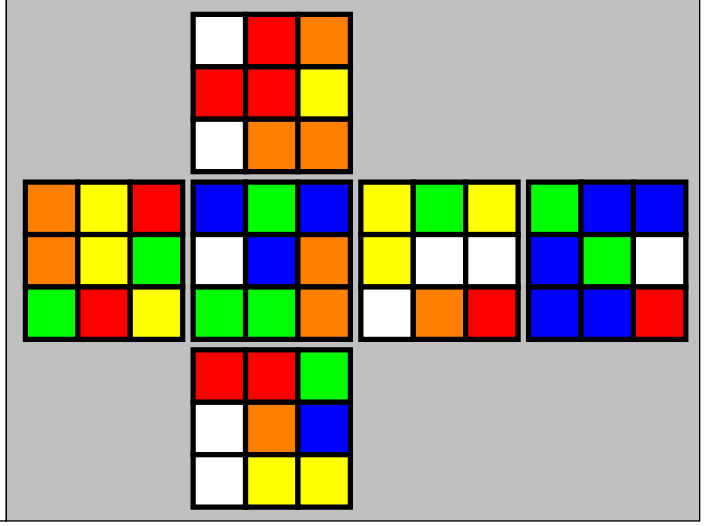
3Lw' 3Rw2

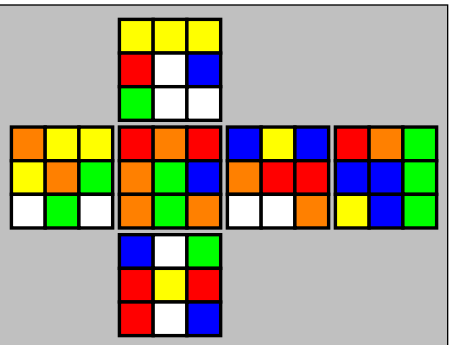
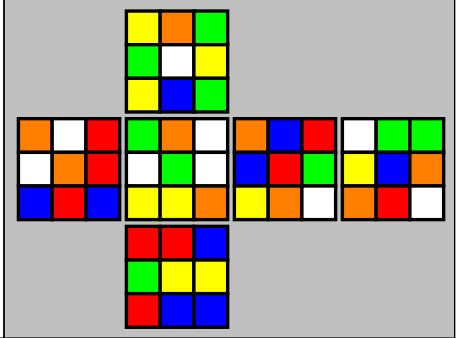
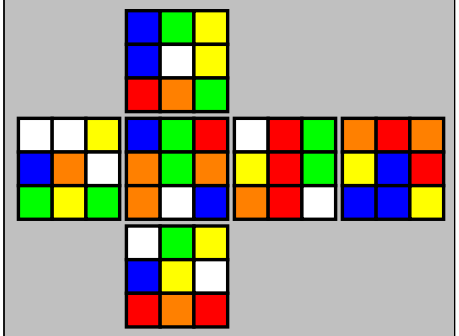
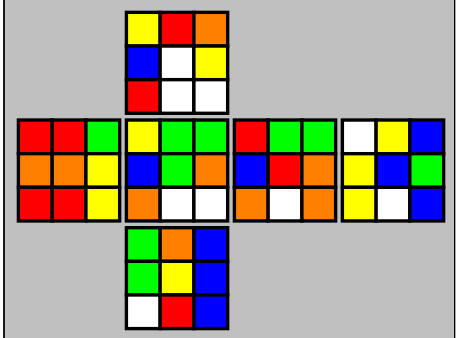
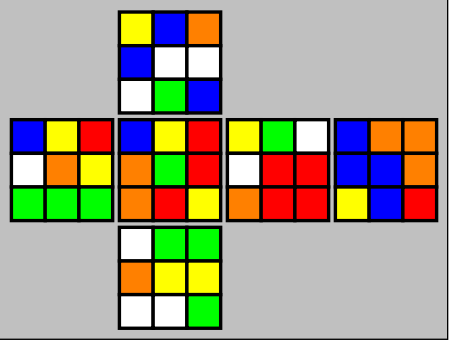


333bf
Scrambles for 2019-05-22

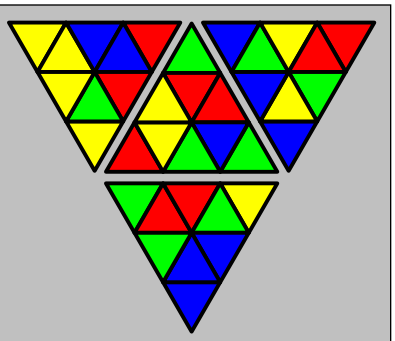
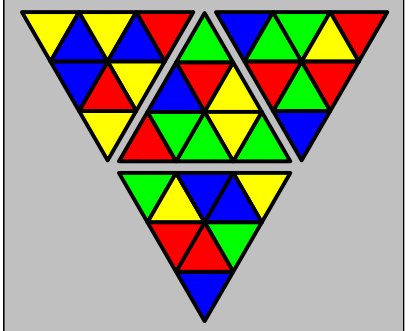
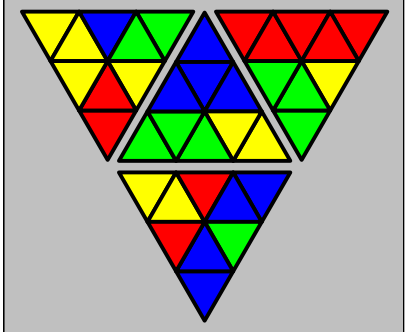
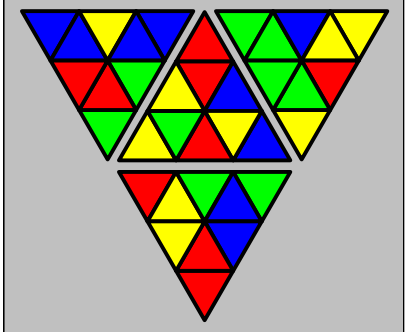
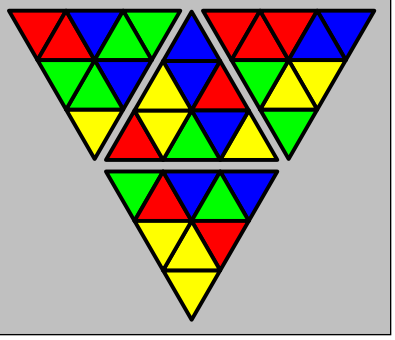
1.	F L2 U2 L2 F' R2 F' D2 L2 U' L2 U2 B R' F' D R D' F2 U Rw2 Uw'	
2.	D2 F2 U B2 F2 D' U2 R D2 B D' U L' F' D B' R' B F2 Rw' Uw2	
3.	U' L2 D R2 F2 D B2 D2 F' U F L2 F L' F' D2 B R D2 Fw' Uw2	

2019-05-22

333oh
Scrambles for 2019-05-22

1.	B2 U R' D R2 F U' L2 B R' U F2 U2 B2 R2 D' B2 R2 U2 B2	
2.	R F2 D R2 U L2 F2 D2 B R B2 D' L2 F2 D2 L2 D B2 U D2	
3.	D' F2 L2 U' L2 U2 R2 D L2 U F' L2 R U L' U L D2 L' F	
4.	D2 B2 U' L2 U' B2 U' L2 F2 L' F2 L B2 F R' D L' F' L U2	
5.	U2 B2 U2 B2 L2 D2 U' B F L2 D L' B2 L F R B F U'	

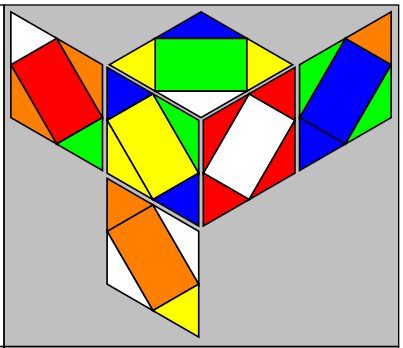
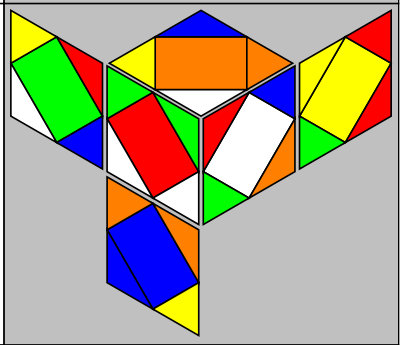
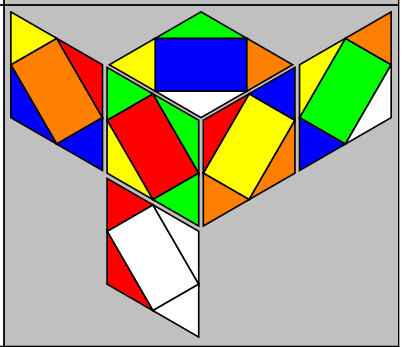
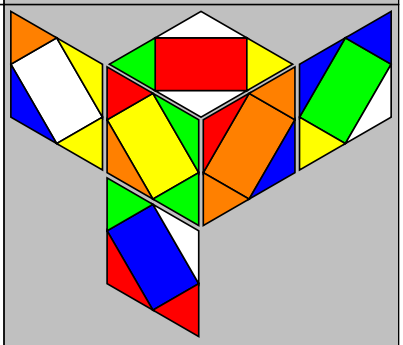
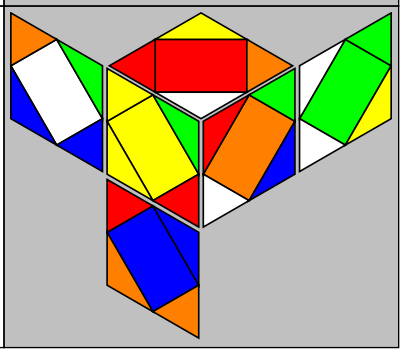
pyram
Scrambles for 2019-05-22

1.	U' B L U' B' U R' U B' L U' u l' r	
2.	U' R' B' R B' L R' U' R' U L' u l r' b	
3.	L B' U B U L B L R U' B	
4.	R U' R L B' R' L R B' R' L l' r	
5.	B' R U R L U R L U' R' B l' r'	

2019-05-22

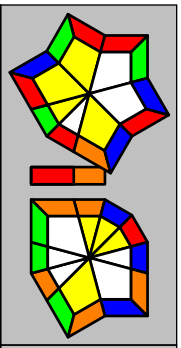
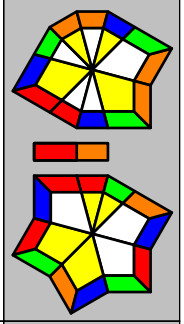
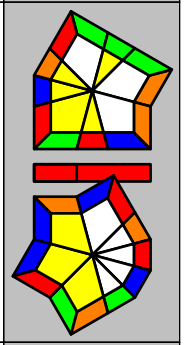
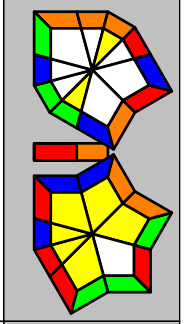
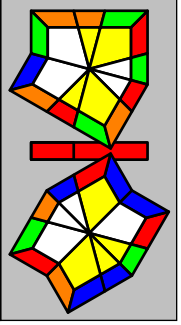
skewb

Scrambles for 2019-05-22

1.	R U R' L' R' L R' B' L' U' B	
2.	L R B R' U L' B' L' U B R'	
3.	U R' U' R L R' U L' U R' B'	
4.	R B R B' U B U' L U' B' U	
5.	L R B L' R' B U' L' R L R	

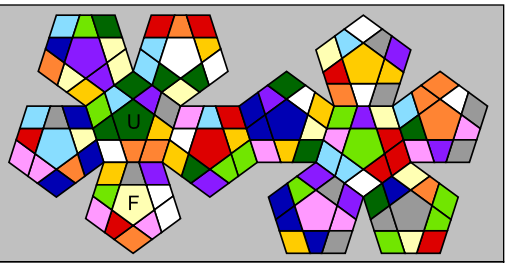
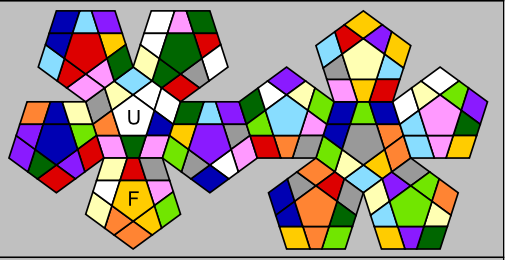
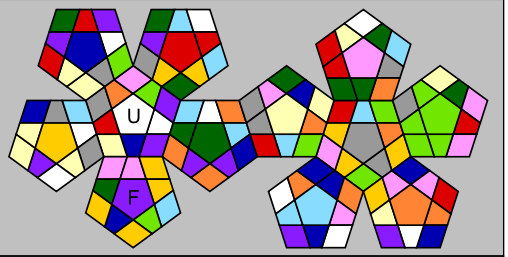
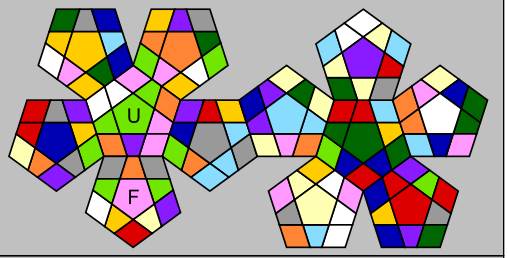
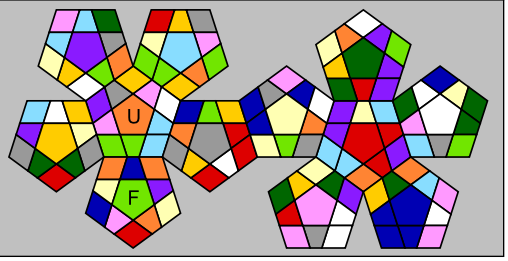
sq1

Scrambles for 2019-05-22

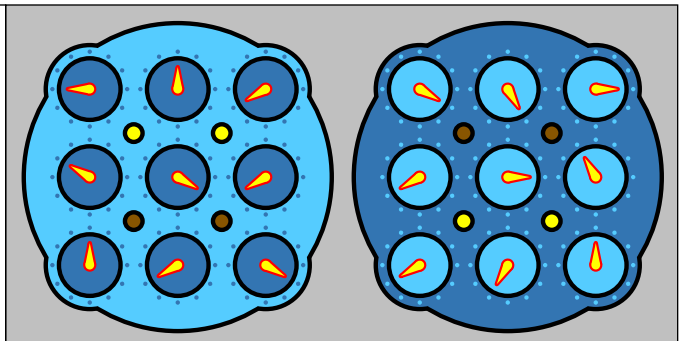
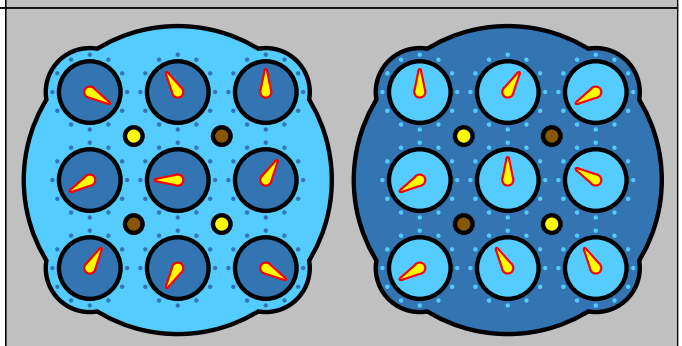
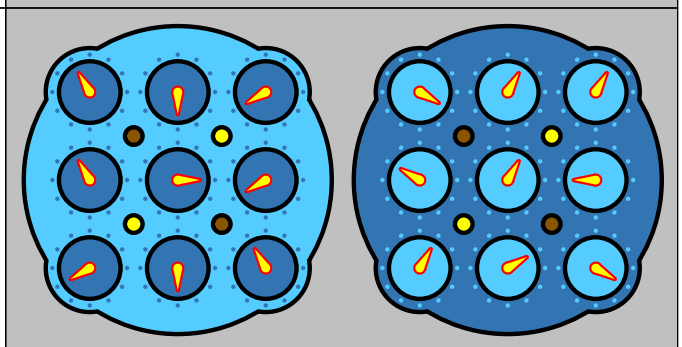
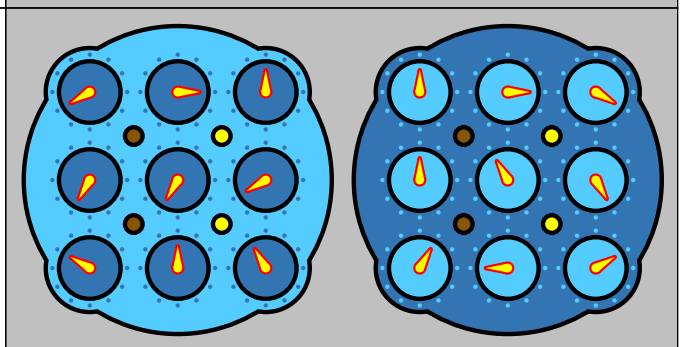
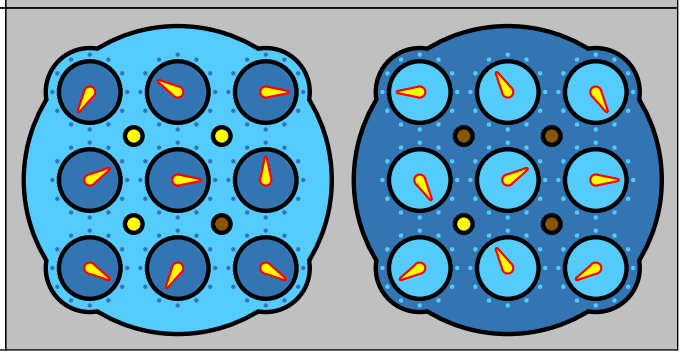
1.	(3,-1) / (0,-3) / (-2,-5) / (2,-1) / (3,0) / (0,-5) / (-3,-3) / (4,-3) / (-4,0) / (-2,0) / (4,0) /	
2.	(4,0) / (5,2) / (0,3) / (-2,-2) / (5,-1) / (3,0) / (4,0) / (-3,-3) / (5,-2) / (-4,0) / (4,-2) / (1,0)	
3.	(-2,0) / (0,3) / (-4,2) / (3,0) / (3,-3) / (-2,0) / (0,-3) / (-3,-2) / (6,-2) / (5,0) / (-4,0) / (-3,-2) / (-3,0)	
4.	(4,0) / (-4,2) / (4,-2) / (0,-3) / (6,0) / (-4,0) / (3,0) / (3,-4) / (4,0) / (3,0) / (-2,0) / (1,-2)	
5.	(-5,0) / (5,2) / (-2,1) / (-1,0) / (0,-3) / (0,-3) / (3,0) / (6,-4) / (2,0) / (0,-4) / (4,-1) / (-5,0) / (0,-1)	

2019-05-22

minx
Scrambles for 2019-05-22

1.	R++ D-- R-- D++ R-- D-- R-- D-- R++ D-- U' R-- D++ R++ D++ R-- D-- R-- D++ R++ D++ U R-- D++ R-- D-- R-- D++ R-- D++ R++ D++ U R++ D++ R-- D-- R++ D-- R-- D++ R-- D++ U R++ D++ R-- D++ R++ D-- R-- D++ R-- D-- U' R++ D++ R-- D-- R-- D-- R-- D++ R-- D-- U' R++ D++ R++ D-- R-- D-- R-- D++ R++ D++ U	
2.	R++ D-- R-- D-- R-- D++ R++ D++ R++ D++ U R-- D-- R-- D++ R-- D++ R-- D++ R-- D-- U' R-- D++ R++ D-- R-- D++ R++ D++ R-- D++ U R-- D-- R++ D++ R++ D-- R++ D-- R++ D++ U R-- D++ R-- D++ R-- D-- R-- D++ R++ D-- U' R++ D++ R-- D++ R-- D-- R++ D++ R-- D-- U' R++ D++ R-- D-- R++ D++ R-- D++ R-- D-- U'	
3.	R-- D-- R-- D++ R++ D-- R++ D-- R++ D++ U R++ D-- R++ D++ R++ D++ R-- D-- R-- D++ U R-- D++ R-- D-- R++ D-- R++ D++ R++ D-- U' R++ D++ R++ D-- R-- D-- R++ D-- R++ D-- U' R-- D-- R++ D++ R-- D++ R++ D++ R-- D++ U R-- D++ R++ D-- R++ D++ R-- D++ R-- D++ U R++ D-- R++ D-- R-- D-- R-- D-- R-- D-- U'	
4.	R++ D++ R-- D++ R++ D++ R++ D-- R-- D++ U R++ D-- R-- D-- R-- D++ R++ D++ R-- D++ U R++ D++ R++ D-- R++ D-- R++ D++ R-- D++ U R++ D++ R++ D++ R-- D++ R-- D-- R++ D-- U' R++ D-- R++ D++ R-- D++ R++ D-- R++ D++ U R++ D-- R++ D++ R-- D-- R-- D-- R++ D++ U R-- D-- R++ D-- R-- D++ R++ D++ R-- D-- U'	
5.	R-- D++ R++ D++ R++ D++ R-- D++ R++ D++ U R-- D-- R++ D-- R-- D-- R++ D++ R++ D++ U R-- D-- R++ D++ R++ D++ R-- D-- R++ D++ U R++ D-- R++ D++ R++ D-- R-- D-- R-- D-- U' R++ D++ R-- D-- R++ D++ R-- D-- R-- D-- U' R++ D++ R++ D++ R++ D++ R++ D-- R++ D-- U' R-- D++ R++ D++ R-- D++ R-- D++ R++ D-- U'	

clock
Scrambles for 2019-05-22

1.	UR4- DR2- DL4- UL1- U1+ R1+ D4+ L3- ALL1- y2 U4- R6+ D4+ L4- ALL2+ UR UL	
2.	UR0+ DR6+ DL5- UL4- U5+ R2- D2- L1- ALL3+ y2 U2+ R1+ D2- L4- ALL0+ DR UL	
3.	UR1+ DR5+ DL6+ UL4- U2+ R3- D1+ L2+ ALL3+ y2 U3- R4+ D3- L5- ALL2- UR DL	
4.	UR4+ DR0+ DL2- UL1- U1- R5- D2- L3- ALL3- y2 U5- R0+ D4+ L1- ALL3- UR DR	
5.	UR2- DR2+ DL2+ UL2+ U3+ R3- D1- L5- ALL4+ y2 U4- R1+ D5+ L3+ ALL2- UR DL UL	

Fewest Moves

-> You have 60 minutes to find and write a solution.
-> Write 1 move per bar. To delete a move, clearly blacken it.
-> Your solution must not be directly derived from any part of the scrambling algorithm.
-> Your solution must be at most 80 moves, including rotations.
-> Your result will be counted in OBTM.
-> Only use notation from Article 12 of the WCA Regulations. If you are uncertain, use only the exact moves listed here:

Face Moves						
Clockwise	F	R	U	B	L	D
Counter-clockwise	F'	R'	U'	B'	L'	D'
Double	F2	R2	U2	B2	L2	D2
Rotations						
Clockwise	[f]	[r]	[u]	[b]	[l]	[d]
Counter-clockwise	[f']	[r']	[u']	[b']	[l']	[d']
Double	[f2]	[r2]	[u2]	[b2]	[l2]	[d2]

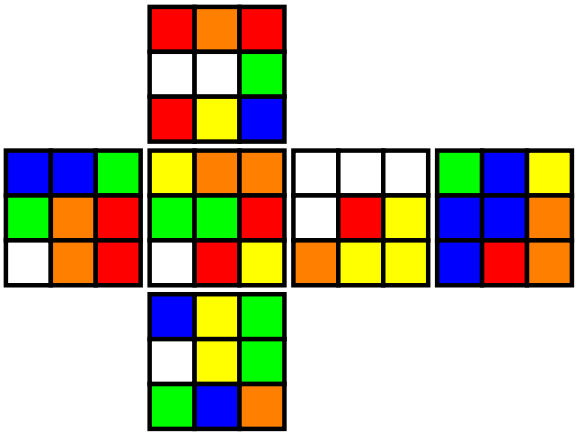
Scrambles for 2019-05-22
333fm

Competitor: _____

WCA ID: __ __ __ __ __ __ __ __ __ __

DO NOT FILL IF YOU ARE THE COMPETITOR.

Graded by: _____ Result: ____



Scramble: R' U' F D2 F2 U' F2 L2 D' B2 D U' L' D' F R' U B D' U' R2 B' R B' R' U' F

____	____	____	____	____	____	____	____	____	____
____	____	____	____	____	____	____	____	____	____
____	____	____	____	____	____	____	____	____	____
____	____	____	____	____	____	____	____	____	____
____	____	____	____	____	____	____	____	____	____
____	____	____	____	____	____	____	____	____	____
____	____	____	____	____	____	____	____	____	____
____	____	____	____	____	____	____	____	____	____

Fewest Moves

-> You have 60 minutes to find and write a solution.
-> Write 1 move per bar. To delete a move, clearly blacken it.
-> Your solution must not be directly derived from any part of the scrambling algorithm.
-> Your solution must be at most 80 moves, including rotations.
-> Your result will be counted in OBTM.
-> Only use notation from Article 12 of the WCA Regulations. If you are uncertain, use only the exact moves listed here:

Face Moves						
Clockwise	F	R	U	B	L	D
Counter-clockwise	F'	R'	U'	B'	L'	D'
Double	F2	R2	U2	B2	L2	D2
Rotations						
Clockwise	[f]	[r]	[u]	[b]	[l]	[d]
Counter-clockwise	[f']	[r']	[u']	[b']	[l']	[d']
Double	[f2]	[r2]	[u2]	[b2]	[l2]	[d2]

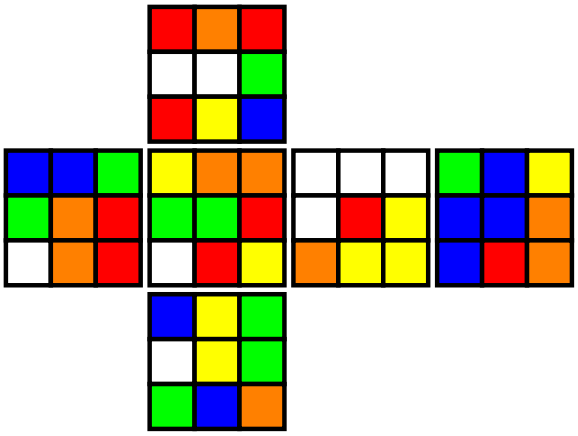
Scrambles for 2019-05-22
333fm

Competitor: _____

WCA ID: __ __ __ __ __ __ __ __ __ __

DO NOT FILL IF YOU ARE THE COMPETITOR.

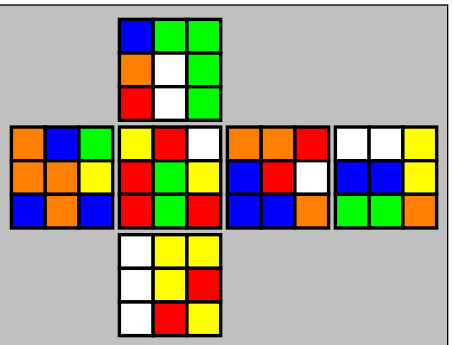
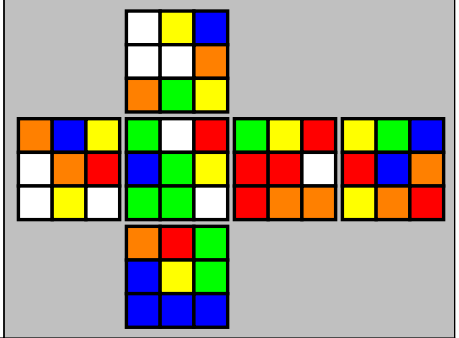
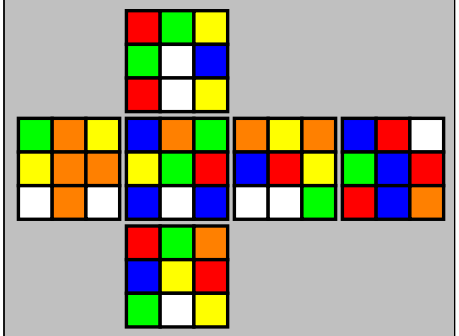
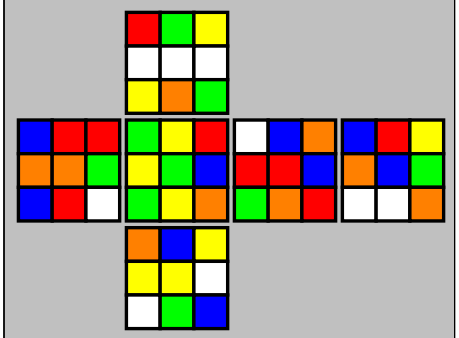
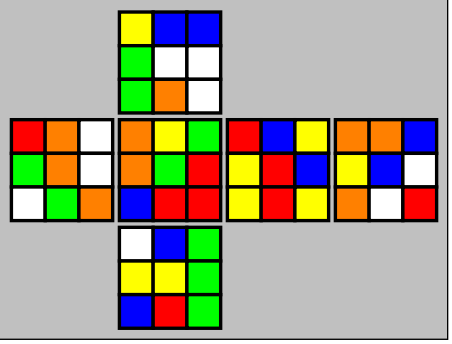
Graded by: _____ Result: ____



Scramble: R' U' F D2 F2 U' F2 L2 D' B2 D U' L' D' F R' U B D' U' R2 B' R B' R' U' F

____	____	____	____	____	____	____	____	____	____
____	____	____	____	____	____	____	____	____	____
____	____	____	____	____	____	____	____	____	____
____	____	____	____	____	____	____	____	____	____
____	____	____	____	____	____	____	____	____	____
____	____	____	____	____	____	____	____	____	____
____	____	____	____	____	____	____	____	____	____
____	____	____	____	____	____	____	____	____	____

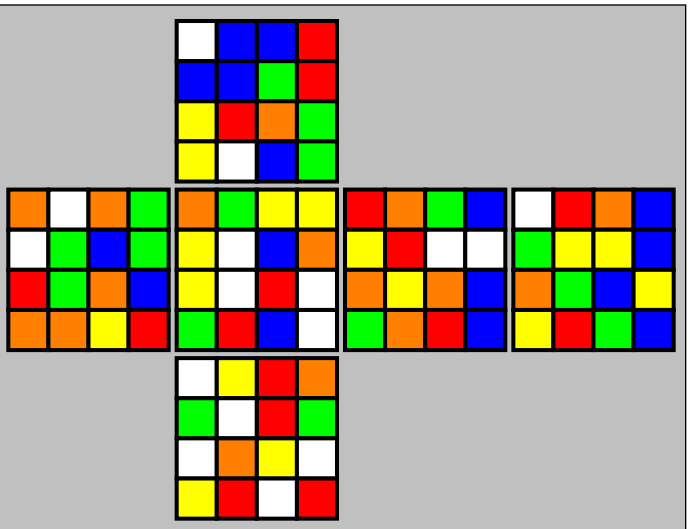
333ft
Scrambles for 2019-05-22

1.	R2 F' U' B' L2 D' L' U R2 L2 B' D L2 B2 U' D' F2 B2 R2	
2.	B2 D2 F2 D' R2 U' B2 D F' U B2 U2 R2 U2 L' R' B' L' U	
3.	L2 F2 L2 B' L2 D2 L2 U2 B D2 F' L R' F' L' D B2 L' U F2 L'	
4.	L U2 R F2 B U' R' L F2 D2 L2 D' F2 U F2 L2 U R2 U2	
5.	B' D2 R2 F' R2 F D2 B' D2 R D' U' L' D2 F' R B' R' B'	

444bf
Scrambles for 2019-05-22

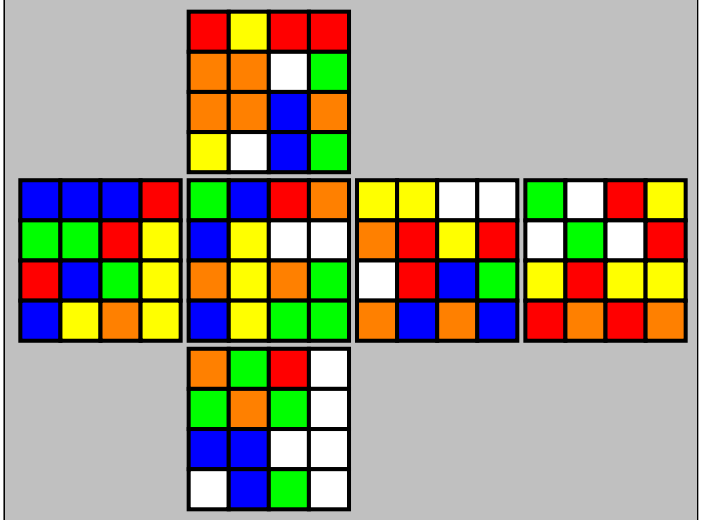
1.

L F2 R' D2 R2
B2 D2 L B R
F2 D' F2 B2 D'
F' B R' L' Rw2
U' Fw2 U' R' D2
R Fw2 R Fw2 L
D' F2 Fw B R
Uw2 F L' D2 Uw'
L2 Fw' F' Uw Rw2



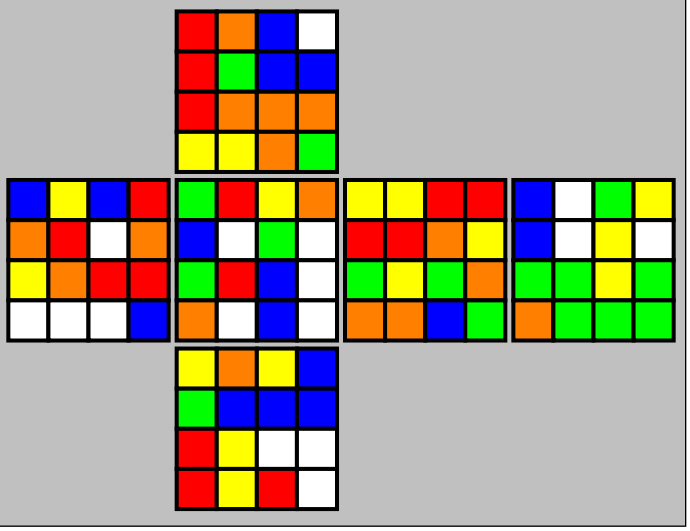
2.

B2 D2 F2 B2 D'
L2 U2 L F' U
B2 D2 R D2 R'
U2 B2 R' L' U2
Rw2 D2 B Rw2 R
B Uw2 D2 Rw2 R
F R2 Uw B L'
U' Rw2 D U' Fw'
Rw' Fw B' Uw x'



3.

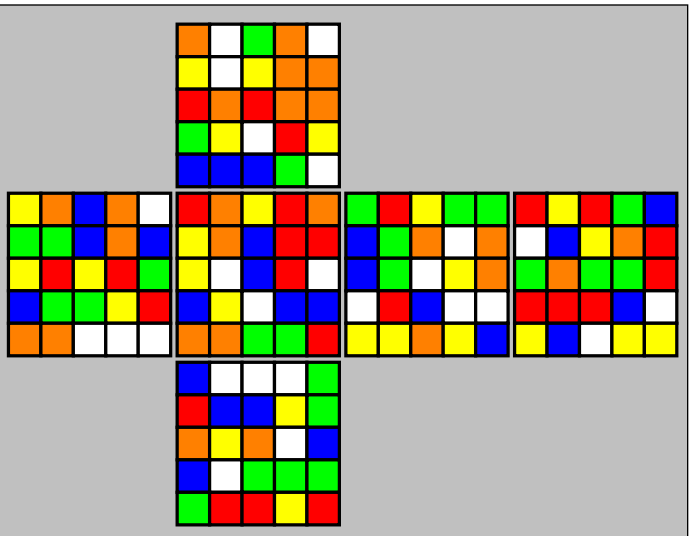
B R2 B2 R' F2
D R F D' U2
R U2 B2 U' F2
D R2 U R2 F2
Rw2 B2 U' Rw2 D2
L' Fw2 L U' R2
U' Rw2 Fw' Uw2 F'
U2 R F Rw' U2
F2 Rw2 Uw Fw Uw
x'



555bf
Scrambles for 2019-05-22

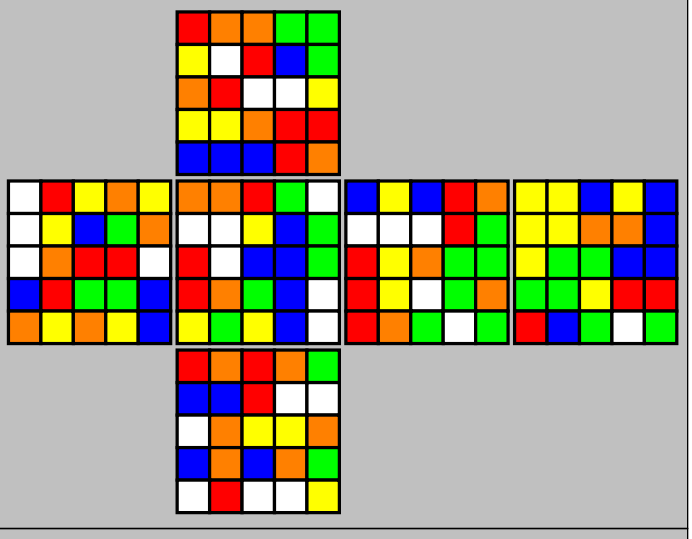
1.

R	Fw'	R2	Dw'	Bw2
F	Dw	F	Dw2	Lw
Rw'	D2	B	Fw	U
B2	Dw2	L2	Dw'	R
Fw'	Uw2	D2	R'	U'
F'	Fw2	D'	B'	Rw'
U2	Fw	D	R	D2
R	F'	Fw2	U	Lw'
F2	Uw'	F2	Rw'	R
Uw'	Dw2	Bw	Fw2	R
D	Rw'	Bw	Rw	B2
Bw2	Rw	L'	Bw	D
3Fw'	3Uw2			



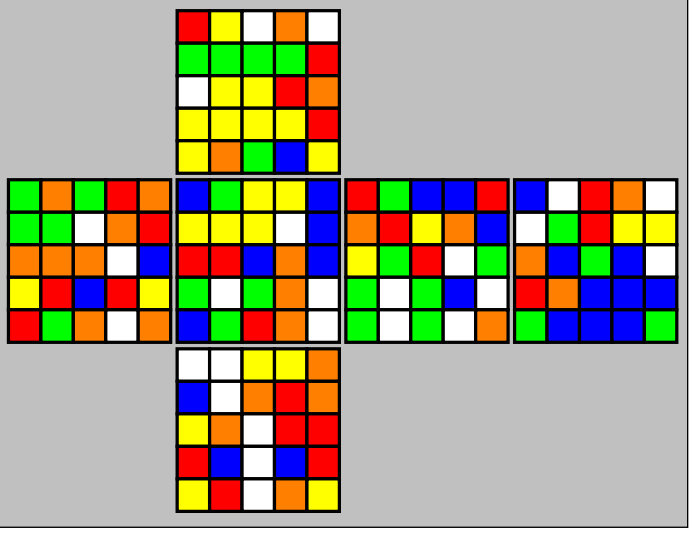
2.

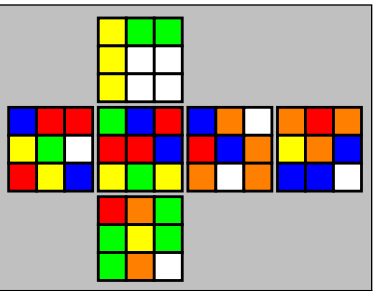
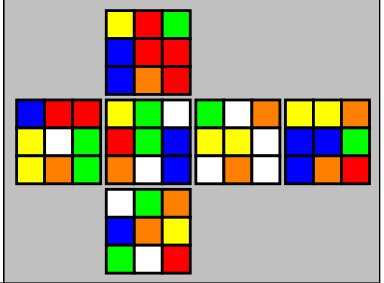
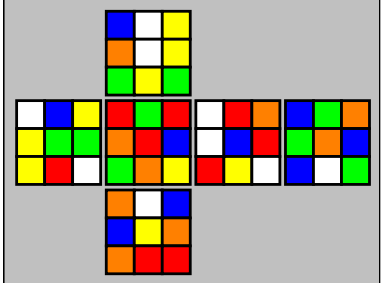
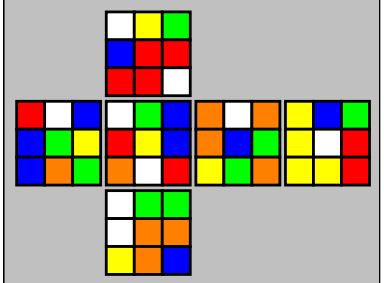
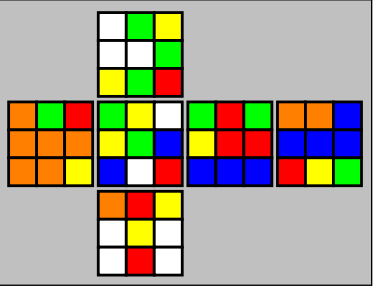
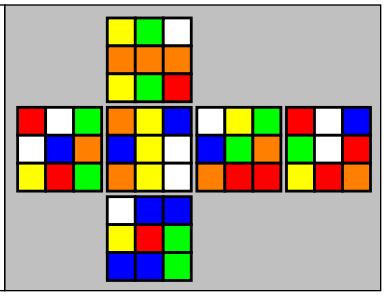
B'	D	Lw2	Fw2	Uw2
Rw	R2	F	R'	Lw2
Bw2	Uw	F'	Fw	Dw
L'	Bw	F'	Uw	B'
Fw'	L	Bw	Uw	R2
Bw'	R'	Uw	D2	Dw
R	Rw	L2	Uw'	U2
D	Dw2	F	Fw2	Bw
R2	Dw2	R2	U2	Fw
L'	Uw	Dw'	Lw2	B
Fw2	Lw	R2	Rw	D'
B'	Bw'	R'	Lw	Fw2
3Uw2				



3.

Bw	Uw2	R'	Fw	Lw2
B2	F	Dw'	R'	D'
Uw	L	D'	Lw2	L
Bw'	Dw2	Lw	Rw2	R'
Uw'	Dw	Bw'	R2	Fw
Lw'	Uw'	Rw'	Fw'	F2
Bw2	Rw2	Bw'	U'	D2
Bw	F2	L2	U'	Dw'
Fw'	D	F'	B'	L2
F2	Rw2	D2	B'	Lw'
Fw	B2	Dw	Rw	Fw
R'	B	L	Rw	B2
3Rw2				



1.	F2 R2 D' L2 U2 L2 D' B2 U2 R U' B' U2 L2 R' D L B' R F2 Uw	
2.	L2 U2 B2 L2 B' F R2 B' R' F' U' B F2 D2 L' F' U' L2 Fw'	
3.	U2 L2 F2 U B2 R2 F2 L2 F2 L' F2 U B U2 R' B2 L B2 R2 Uw	
4.	D' B2 R2 U' B2 D' L2 B2 F2 D R2 F L' R D2 B U' F' R F' D2 Fw' Uw	
5.	L2 U B2 L2 D' L2 U2 F2 R2 B2 F' L D' R' F L' R2 F R' U'	

6.	B2 D2 F2 R2 D L2 U F2 D' L R D' U2 R F2 L2 B' R' D' R2 Fw Uw'