





















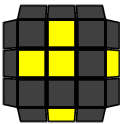
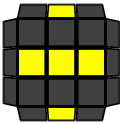
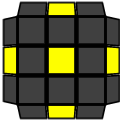
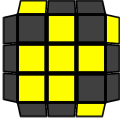
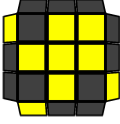
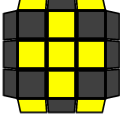
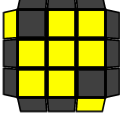
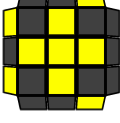
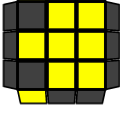
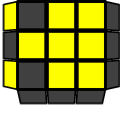


Basic Commands + Rotations

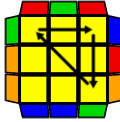
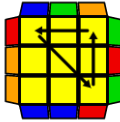
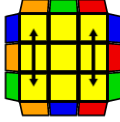
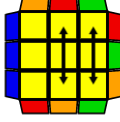
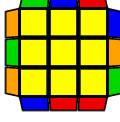
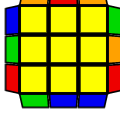
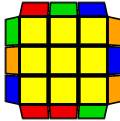
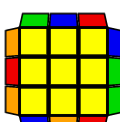
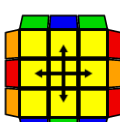
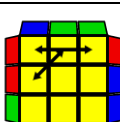
Move	Visual	Voice Command	Move	Visual	Voice Command
U		"turn up"	U'		"turn up prime"
D		"turn down"	D'		"turn down prime"
R		"turn right"	R'		"turn right prime"
L		"turn left"	L'		"turn left prime"
F		"turn front"	F'		"turn front prime"
B		"turn back"	B'		"turn back prime"

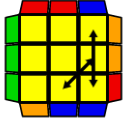
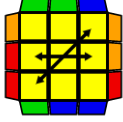
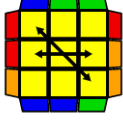
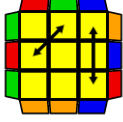

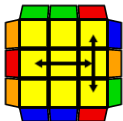

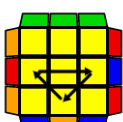
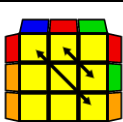
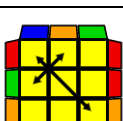
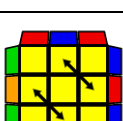
Move	Visual	Voice Command	MOVE	Visual	Voice Command
U2		"turn up two"	X		"rotate up"
D2		"turn down two"	y		"rotate left"
R2		"turn right two"	x'		"rotate down"
L2		"turn left two"	y'		"rotate right"
F2		"turn front two"			
B2		"turn back two"			

2-Look OLL

NAME	CASE	Algorithm	Voice Command
Adjacent		F U R U' R' F'	"no edges"
Bar		F R U R' U' F'	"opposite edges"
No Edges		F R U R' U' F'	"adjacent edges"
Sune		R U R' U R U2 R'	"sune"
Antisune		R U2 R' U' R U' R'	"antisune"
H		R U2 R' U' R U R' U' R U' R'	"H"
L		F' r U R' U' r' F R	"bowtie"
Pi		R U2 R2 U' R2 U' R2 U2 R	"pi"
T		r U R' U' r' F R F'	"chameleon"
U		F R U R' U' F'	"headlights"

PLL

Name	Case	Algorithm	Command
Aa		x R' U R' D2 R U' R' D2 R2	"aa perm"
Ab		x R2 D2 R U R' D2 R U' R	"ab perm"
E		x' R U' R' D R U R' D' R U R' D R U' R' D'	"e perm"
F		R' U' F' R U R' U' R' F R2 U' R' U' R U R' U R	"f perm"
Ga		R2 U R' U R' U' R U' R2 U' D R' U R D'	"ga perm"
Gb		F' U' F R2 u R' U R U' R u' R2	"gb perm"
Gc		R2 F2 R U2 R U2 R' F R U R' U' R' F R2	"gc perm"
Gd		R U R' U' D R2 U' R U' R' U R' U R2 D'	"gd perm"
H		M2 U M2 U2 M2 U M2	"h perm"
Ja		R' U L' U2 R U' R' U2 R L	"ja perm"

Jb		$R\ U\ R'\ F'\ R\ U\ R'\ U'\ R'\ F\ R^2\ U'\ R'$	"jb perm"
Na		$R\ U\ R'\ U\ R\ U\ R'\ F'\ R\ U\ R'\ U'\ R'\ F\ R^2\ U'\ R'\ U^2\ R\ U'\ R$	"na perm"
Nb		$R'\ U\ R\ U'\ R'\ F'\ U'\ F\ R\ U\ R'\ F\ R'\ F'\ R\ U'\ R$	"nb perm"
Ra		$R\ U'\ R'\ U'\ R\ U\ R\ D\ R'\ U'\ R\ D'\ R'\ U^2\ R'$	"ra perm"
Rb		$R'\ U^2\ R\ U^2\ R'\ F\ R\ U\ R'\ U'\ R'\ F'\ R^2$	"rb perm"
T		$R\ U\ R'\ U'\ R'\ F\ R^2\ U'\ R'\ U'\ R\ U\ R'\ F'$	"t perm"
Ua		$R\ U'\ R\ U\ R\ U\ R\ U'\ R'\ U'\ R^2$	"ua perm"
Ub		$R^2\ U\ R\ U\ R'\ U'\ R'\ U'\ R'\ U\ R'$	"ub perm"
V		$R'\ U\ R'\ U'\ y\ R'\ F'\ R^2\ U'\ R'\ U\ R'\ F\ R\ F$	"v perm"
Y		$F\ R\ U'\ R'\ U'\ R\ U\ R'\ F'\ R\ U\ R'\ U'\ R'\ F\ R\ F'$	"y perm"
Z		$M'\ U'\ M^2\ U'\ M^2\ U'\ M'\ U^2\ M^2$	"zed perm"