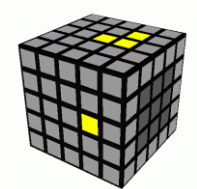


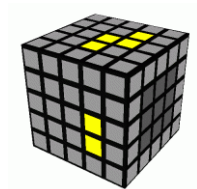
# Andy Klise's 5x5x5 Guide

Most Algorithms by BigCubes.com

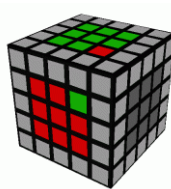
Pictures by Josef Jelinek



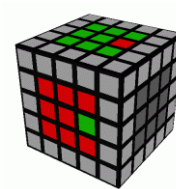
$r U' r'$



$r U^2 r'$

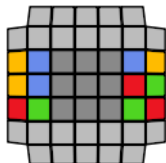


$r U r' U r U^2 r'$

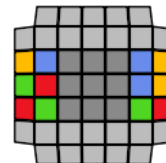


$r' F' l' r U r U' l r'$

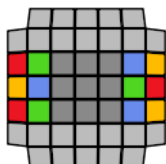
## Last Edges No Parity



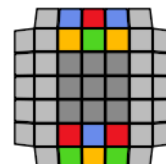
**$x' d (R F') U (R' F) d'$**   
 $x' d R U R' F R' F' R d'$



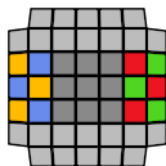
$x' d' y' (R F') U (R' F) d y$   
 $x' d' L' U' L F' L F L' d$



**$x' u^2 r^2 F^2 U^2 u^2 F^2 r^2 u^2$**

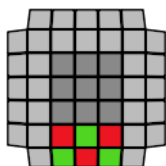


$F^2 r D^2 r' F^2 U^2 F^2 l B^2 l'$  (rare)

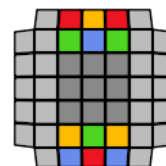


$x' u' d R U R' F R' F' R d' u$

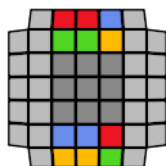
## Parity



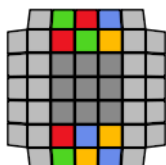
**$r^2 B^2 U^2 l U^2 r' U^2 r U^2 F^2 r F^2 l' B^2 r^2$**



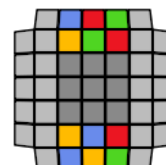
$r^2 B^2 r' U^2 r' U^2 B^2 r' B^2 r B^2 r' B^2 r^2$



$l' U^2 l' U^2 F^2 l' F^2 r U^2 r' U^2 l^2$



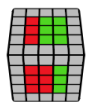
$l U^2 l^2 U^2 l' U^2 l U^2 l' U^2 l^2 U^2 l$



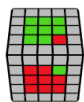
$r' U^2 r^2 U^2 r U^2 r' U^2 r U^2 r^2 U^2 r'$

Note - **Bold** cases are the essential ones and centers can be any color

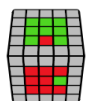
# Last Two Centers



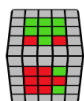
$(r U^2 r')$



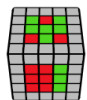
$(r U r') U (r U^2 r')$



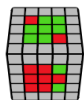
$(r U r') U (r U' r') U (r U r')$



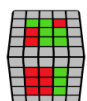
$(r U' r') U^2 (r U r') U (r U r')$



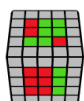
$(r U^2 r') U^2 (r U r')$



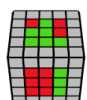
$(r U r') U^2 (r U r')$



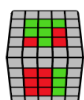
$(r U r') U' (r U^2 r')$



$(r U' r') U (r U^2 r')$



$(r U r') U' (r U r')$



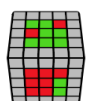
$(r U' r') U (r U' r')$



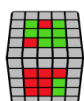
$(r U r')$



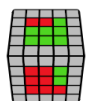
$(r U r') U' (r U' r')$



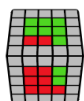
$(r U r') U^2 (r U' r')$



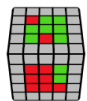
$(r U' r') U' (r U' r')$



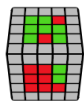
$(r U' r') U (r U r')$



$(r U' r')$



$(r U r') U (r U r')$



$(r U^2 r') U' (r U^2 r')$

## Notation



**R**



**R'**



**R<sup>2</sup>**



**r**



**r'**

## Credits

**Frank Morris & Clancy Cochran** - <http://www.bigcubes.com/>

**Josef Jelinek** - <http://software.rubikscube.info/icube/>

**Lucas Garron** - <http://cube.garron.us/>

**Frédéric Badie** and everyone else

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