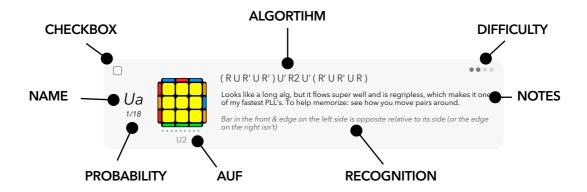


# CUBEHEAD'S PLL ALGS

The Complete Alg-Sheet to Learn PLL as a Whole

EDGES ONLY
CORNERS ONLY
DIAGONAL SWAP
ADJACENT SWAP 4
G-PERMS
OVERVIEW
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#### **EDGES ONLY**

Also known as EPLL. Since the corners of these PLL's are already solved, you just need to solve the edges, which results in easy 2-gen\* solutions. (\*using just two layers)



#### (RUR'UR')U'R2U'(R'UR'UR)

Looks like a long alg, but it flows super well and is regripless, which makes it one of my fastest PLL's. To help memorize: see how you move pairs around.

Bar in the front & edge on the left side is opposite relative to its side (or the edge on the right isn't)



#### (R'U)(R'U')(R'U')(R'U)RUR2

Make sure to watch the video to finger trick this one, since the third R' can be tricky. Notice how  $(R'\ U)\ \&\ (R'\ U')$  repeat.

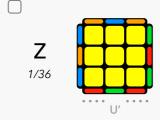
Bar in the front & edge on the right side is opposite relative to its side (or the edge on the left isn't)



#### M2(U')M2(U2)M2(U')M2

You can perform this alg from any side. If you use left hand for M slices, do the inverse alg M2 ( U ) M2 ( U2 ) M2 ( U ) M2.  $\,$ ! Double-flick U2's !

All edges are opposite compared to its corners. If you notice this is the case for two sides, you can tell it's an H perm.



#### M' U' ( M2 U' ) ( M2 U' ) M' U2 M2

Make sure to hold a checkerboard (two sides with only two colors) on the right side for this alg. Inverse alg: y M' U (M2 U) (M2 U) M' U2 M2

Very similar to the H perm, although this one doesn't have any opposite colors on any side. This forms two checkerboard patterns (red/green and blue/orange)

My favorite PLL's: U-perms!

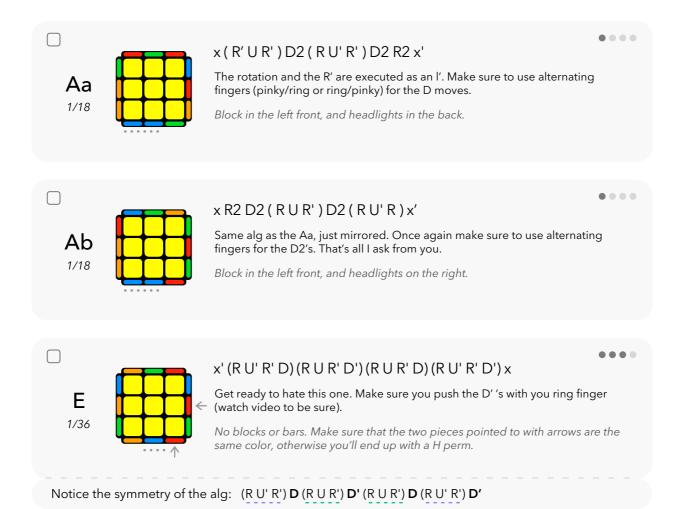
There's many great u-perm algs, I even use **5 U-perm algs** myself! The ones I showed you are easy to **recognize**, and **flow** really well after OLL. But if you don't like them, feel free to look for others online.

Right or left hand for M-slices..?

The H- and Z-perms both consist of **M** and **U** moves. I use my right hand for M slices, and left hand for U moves. But if you like to do it the other way around, do it. Just make sure to use the **inverse alg.** 

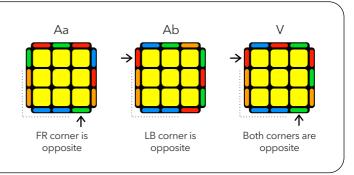
### **CORNERS ONLY**

Also known as CPLL. Since the edges of these PLL's are already solved, you just need to solve the corners. Notice how these are the only PLL's with x-rotations.



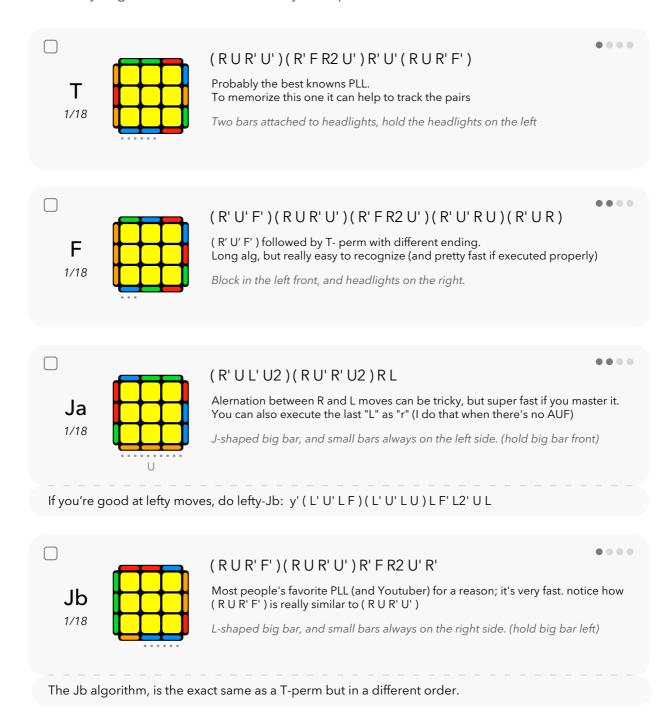
3 PLL's have a big block; **Aa**, **Ab**, and **V**. You can tell which one you're dealing with by seeing which corners are opposite color to the block.

Since you hold the block on the left for all these cases, it's good (and easy) to be able to distinguish them from that side.



# **ADJACENT SWAP**

These are all the PLL's with headlights ( - the G-perms ). Lots of similarities between algs here, and lovely finger tricks. Let's find out why the J perm is so awesome.





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### (RU'R'U')(RUR)D(R'U'R)D'(R'U2R')

Key here is to be able to push the D' with your left ring finger.

One bar attached to the right side of the headlights. Hold headlights left





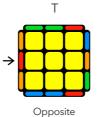
#### (R' U2 R U2') R' F (R U R' U') R' F' R2

One of my favorites. Key here is to dubbelflick the U moves (right/left hand). The end of the alg has some similarities to a T perm

One bar attached to the left side of the headlights. Hold headlights in front.

#### T-perm or Ra-perm..?

With the headlights on the left, both look really similar since they both have **one bar attached in the front**. Instead of rotating to check for a bar on the other side, look at the **center piece on the left**.

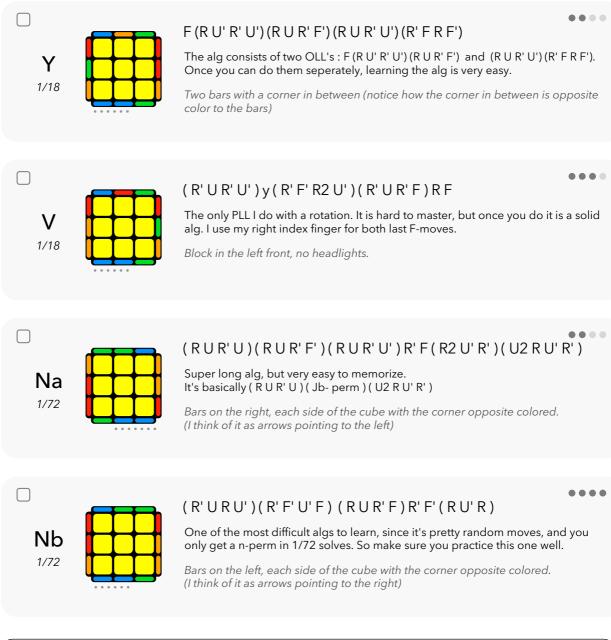


Ra

Not opposite

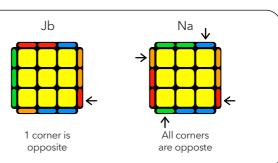
# **DIAGONAL SWAP**

These are all the PLL's without headlights (E-perm technically belongs to this group as well). Most algorithms are very long, and hard to memorize. (execpt for Y, let's start with that one)



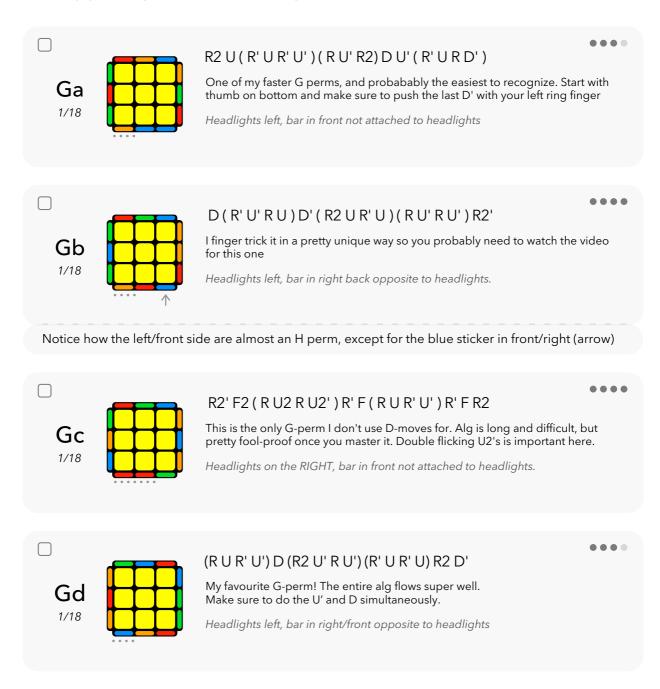
#### N-perm or J-perm..?

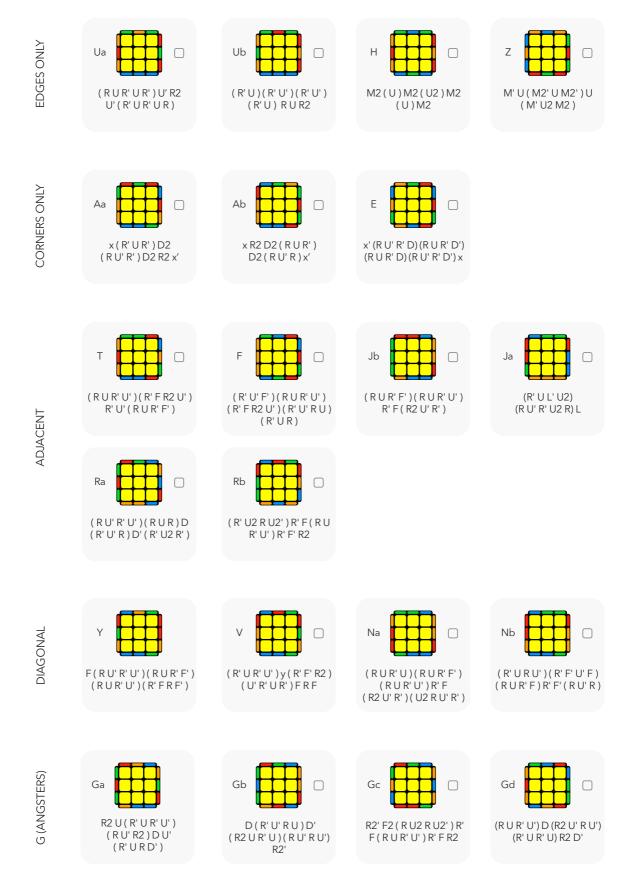
I used to confuse J-perms and N-perms really often, since both have lots of bars. One way to quickly distinguis both is by looking at the **opposite colored corners** relative to the bar.



### **G-PERMS**

Also known as the "aah-I-messed-up-again"-perms. G-perm algs are (on average) the most risky algs. That's why I mostly use algs with D moves, since I tend to mess up these less than the algs with wide u moves etc. However, once you nail the executions, G-perms can be the most enjoyable algs. So focus a lot on finger tricks, thank me later.





# **PRACTICE SCHEDULES**

# **EASY**

WEEK 1	Ua	Ub	Н	Z	Aa	Ab	E
WEEK 2	T	F	Jb	Ja	Ra	Rb	Y
WEEK 3	V	Na	Nb	Ga	Gb	Gc	Gd

±20min learning alg & ±15min alg trainer /day

# **MODERATE**

WEEK 1

Ua Ub	H Z	Ab Aa E	P	T F	Ja Jb	Ra Rb
P	Y V	Na Nb	P	Ga Gb	Gc Gd	P

WEEK 2

 $\pm 30$ min learning algs &  $\pm 15$ min alg trainer /day P =  $\pm 30$ min practice using alg trainer

# **FELIKS**

WEEK 1

EEK1 Ua H Ab Aa F Jb Ra Na Ga Gb V
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 $\pm 60$ min learning algs &  $\pm 20$ min alg trainer /day