

3x3x3: PLL Recognition Guide

EPLLs

Category 0: Two 3x1 Blocks

solved:



I hope you can recognize this.

Category 1: One 3x1 Block

Ua:



Ub:



When the block is on the left:

- It's Ub when an opposite edge colour is on the right
- It's Ua when an adjacent edge colour is on the right

When the block is on the right:

- It's Ua when an opposite edge colour is on the left
- It's Ub when an adjacent edge colour is on the left

Category 2: No 3x1 Blocks & At Least One Opposite Edge

Ua:



Ub:

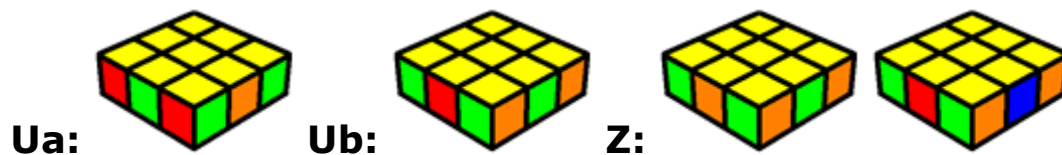


H:



- It's Ua when an opposite edge colour is on the right
- It's Ub when an opposite edge colour is on the left
- It's H when an opposite edge colour is on each side

Category 3: No 3x1 Blocks & No Opposite Edge



When there are no opposite edges:

-It's Ua when a checker pattern is only on the left

-It's Ub when a checker pattern is only on the right

Otherwise:

-It's Z

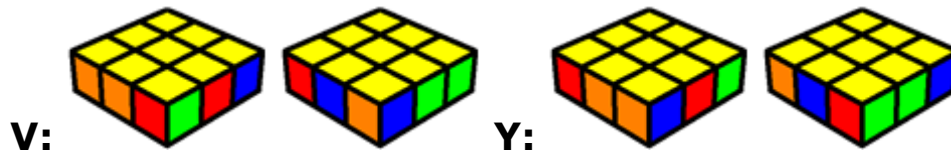
Diagonal CP

Category 1: Two Blocks



- It's V when the blocks are both on the inside
- It's Y when the blocks are both on the outside
- It's Na when the inner corner is part of a left block
- It's Nb when the inner corner is part of a right block

Category 2: One Block



- It's V when there's a block on the outside
- It's Y when there's a block on the inside

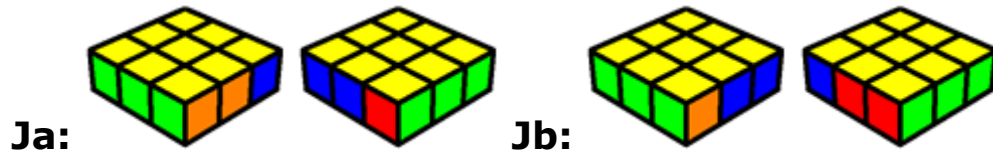
Category 3: No Blocks



- It's V when there's a checker pattern on the inside
- It's Y when there's a checker pattern on the outside
- It's E when there's no checker pattern at all

Adjacent CP – Two Blocks

Category 1: One 3x1 Block & One 2x1 Block



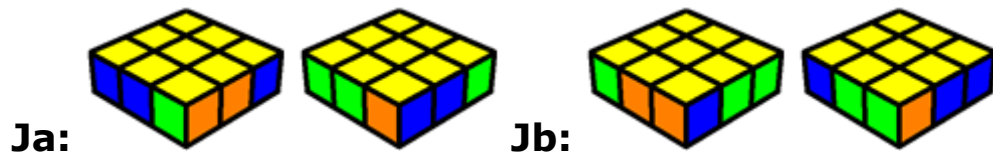
When the 3x1 block is on the left:

- It's Ja when the 2x1 block is on the inside
- It's Jb when the 2x1 block is on the outside

When the 3x1 block is on the right:

- It's Jb when the 2x1 block is on the inside
- It's Ja when the 2x1 block is on the outside

Category 2: One Outer 2x1 Block and One Inner 2x1 Block



- It's Ja when the 2x1 block on the outside is on the left
- It's Jb when the 2x1 block on the outside is on the right

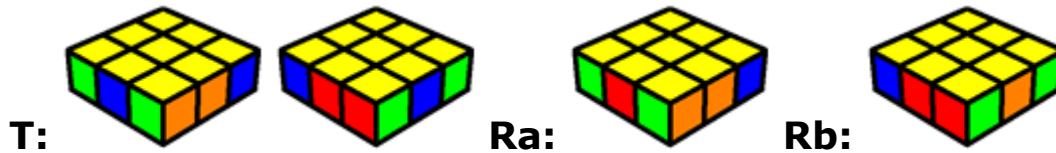
Category 3: Two Inner 2x1 Blocks



- It's Aa when the outer corner on the right is opposite
- It's Ab when the outer corner on the left is opposite

Adjacent CP – Headlights, One Block

Category 1: Inner Block



When the edge in between the headlights is adjacent:

-It's Ra when the block is on the right

-It's Rb when the block is on the left

Otherwise:

-It's T

Category 2: Outer Block



When only three unique colours are visible:

-It's Aa when the block is on the right

-It's Ab when the block is on the left

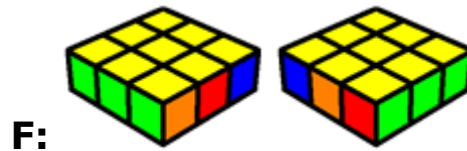
Otherwise:

-It's Ga when the block is on the right

-It's Gc when the block is on the left

Adjacent CP – No Headlights, One Block

Category 1: One 3x1 Block



-It's F

Category 2: Inner Block



When the corner beside the block is adjacent:

-It's Ga when the block is on the left

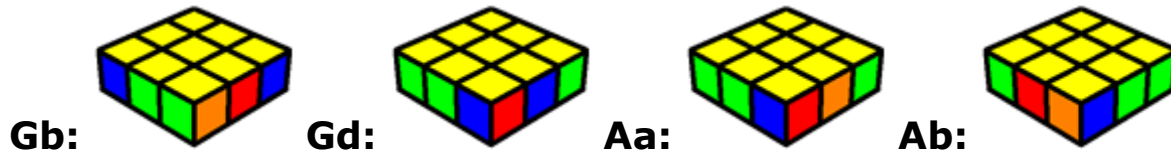
-It's Gc when the block is on the right

Otherwise:

-It's Gb when the block is on the left

-It's Gd when the block is on the right

Category 3: Outer Block & Opposite Corner



When only three unique colours are visible:

-It's Gb when the block is on the right

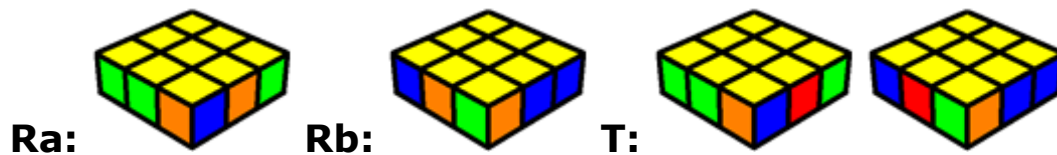
-It's Gd when the block is on the left

Otherwise:

-It's Aa when the block is on the left

-It's Ab when the block is on the right

Category 4: Outer Block & Adjacent Corner



When only three unique colours are visible:

-It's Ra when the block is on the left

-It's Rb when the block is on the right

Otherwise:

-It's T

Adjacent CP – Headlights, No Blocks

Category 1: Opposite Edge In Between Headlights



When only three unique colours are visible:

-It's Gb when the block is on the left

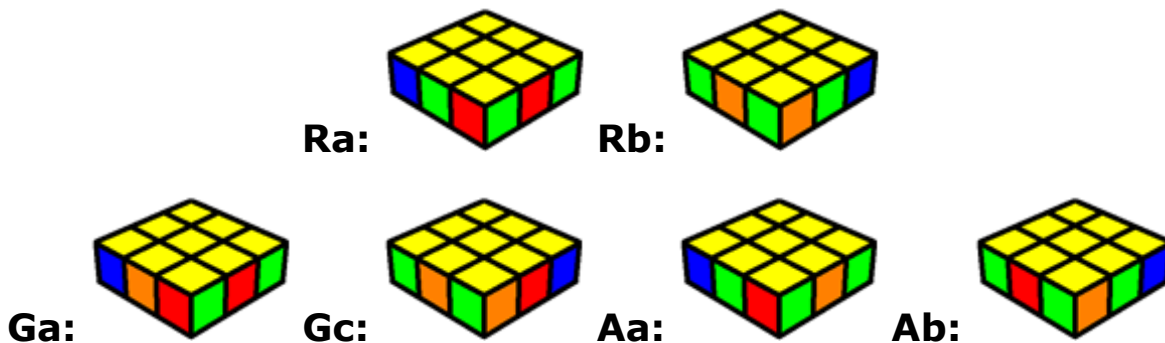
-It's Gd when the block is on the right

Otherwise:

-It's Gb when the block is on the right

-It's Gd when the block is on the left

Category 2: Adjacent Edge In Between Headlights



When only three unique colours are visible:

-It's Ra when the headlights are on the left

-It's Rb when the headlights are on the right

Otherwise:

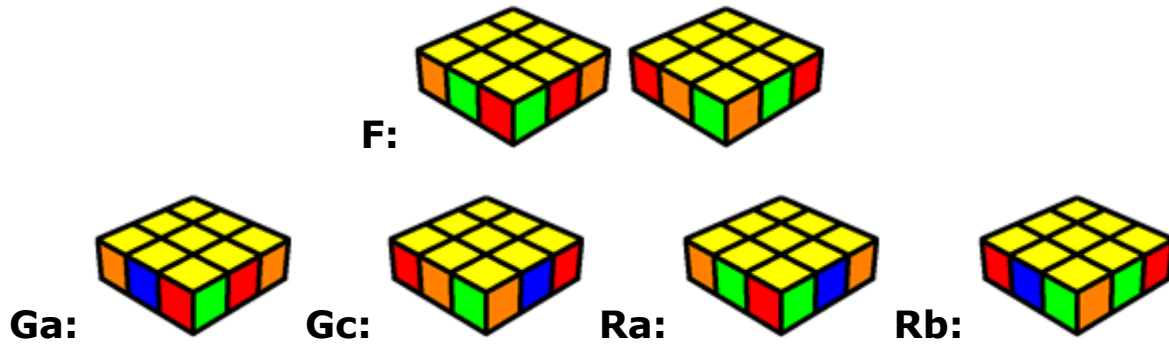
-It's Ga when the headlights are on the right and there is a checker pattern

-It's Gc when the headlights are on the left and there is a checker pattern

-It's Aa when the headlights are on the right and there is no checker pattern

-It's Ab when the headlights are on the left and there is no checker pattern

Adjacent CP – No Headlights, No Blocks



When only three unique colours are visible:

-It's F

Otherwise:

- It's Ga when an opposite outer corner is on the right
- It's Gc when an opposite outer corner is on the left
- It's Ra when an opposite inner corner is on the right
- It's Rb when an opposite inner corner is on the left