![RubiksCubeSolver logo]

RubiksCubeSolver

RubiksCubeSolver is a program that solves Rubik's Cubes. The application includes different solving methods to find an easy and fast solution. To solve your own scrambled cube you can change the colors of every single face in the 3D representation.

Use 3D model

To make the 3D model as easy to use as possible the main actions of the 3D model can be executed with mouse buttons and the keyboard.

3D model transformation

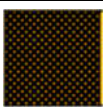| Action	Description
Rotation in 3D space	The model can by rotated by moving the mouse while holding the right mouse button or the mouse wheel.

Rotating a layer

The program allows you to rotate a single layer of the Rubik's Cube with simple mouse operations.

Must not be a corner

1 Click on any face of the 3D model. Now the possible options to complete the rotation are color-coded.

All errors will be displayed and described in a status tool strip in the bottom of the GUI

Color-code	Meaning
	First selection
	Impossible second selection
	Possible second selection (the color will vary from light to dark)

Both selected faces must be on the same layer.

*If you want to undo your first selection you can press **esc** or **del**.*

2 Click on a face that is possible for second selection.

3 The common layer of the the selections will be rotated. The second selection also determines the rotation direction.

Change face color

To solve your own unsolved Rubik's Cube RubiksCubeSolver allows you to change the colors of the single faces in the 3D model.

Action	Description
Change face color	Perform a right-click on a face while pressing **shift**. Then the color selection context menu wil pop up and the new color can be selected.

General information

Developers	**Switcherlapp97(https://github.com/Switcherlapp97)** Artentus (https://github.com/Artentus) StarGate01 (https://github.com/StarGate01) ThePlexian (https://github.com/ThePlexian)
Source code	https://github.com/Switcherlapp97/RubiksCubeSolver
Video demo	https://www.youtube.com/watch?v=5XMKBtqbEog
Contact	switcherlapp.97@gmail.com