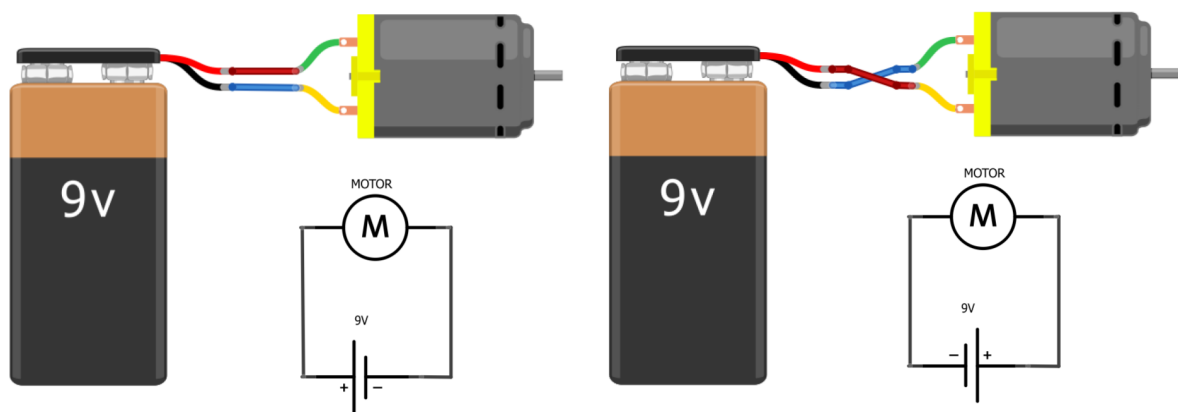


## 0.1 HOW THE DC MOTOR WORKS

### 0.1.1 Task: MAKE DC MORTOT RUN

1. Connect the DC motor to the battery and make it run.
2. You can try different combinations to connect the terminals of the motor like:
  - + and -
  - - and +
  - - and -
  - + and +.



**Figure 1:** DC motor connection.

### 0.1.2 Questions:

1. In which direction the motor's shaft spins in different situations?
2. In which direction the electric current flow?
3. Why does motor not spinning when both connectors are connected to + terminal of the battery?

### 0.1.3 Summary

The rotation of the DC motor depends on the direction of electric current.

### 0.1.4 Issues

**0.1.4.1** *When I connect the DC motor to + and - terminals of the battery the motor's shaft does not spin.* Check the voltage of the battery... battery may be discharged.

Check the connectors of the motor... may be bad.