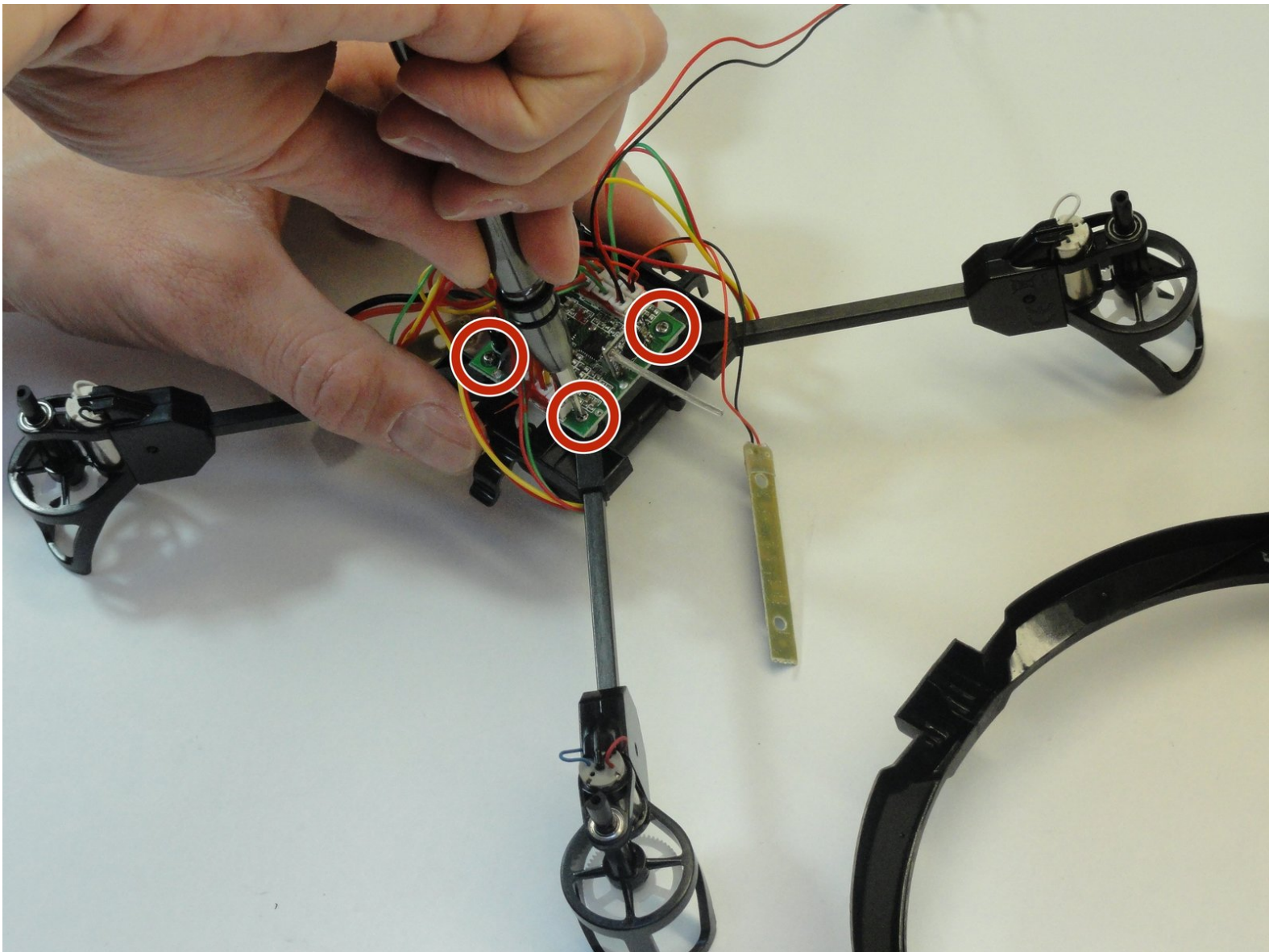# UDI U818A Drone Arms Replacement

This guide will service the replacement of the drone arms, which hold each propeller, motor, and wires that bring power to the motors/propeller.

Written By: Anthony Mitchell

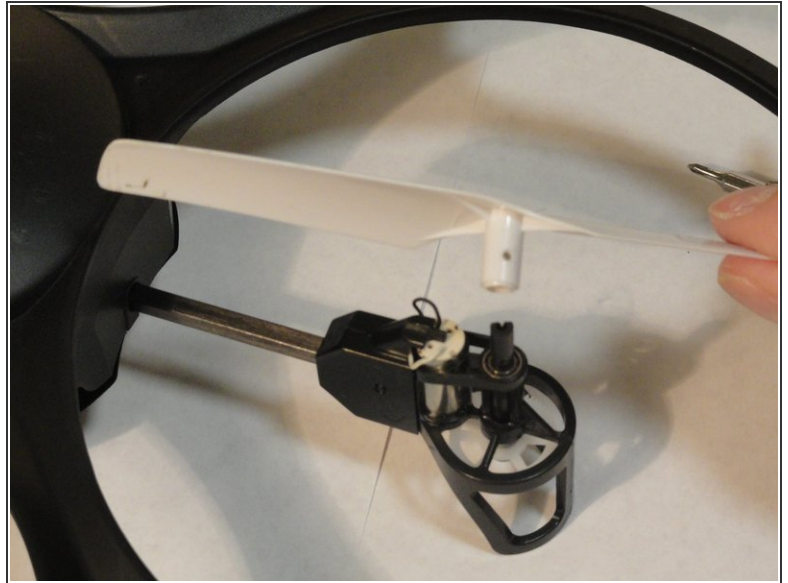This document was generated on 2019-12-07 01:24:32 PM (MST).

INTRODUCTION

The drone arms of the UDI U818A are probably one of the most complicated parts to replace in the drone without requiring any fabrication of parts.
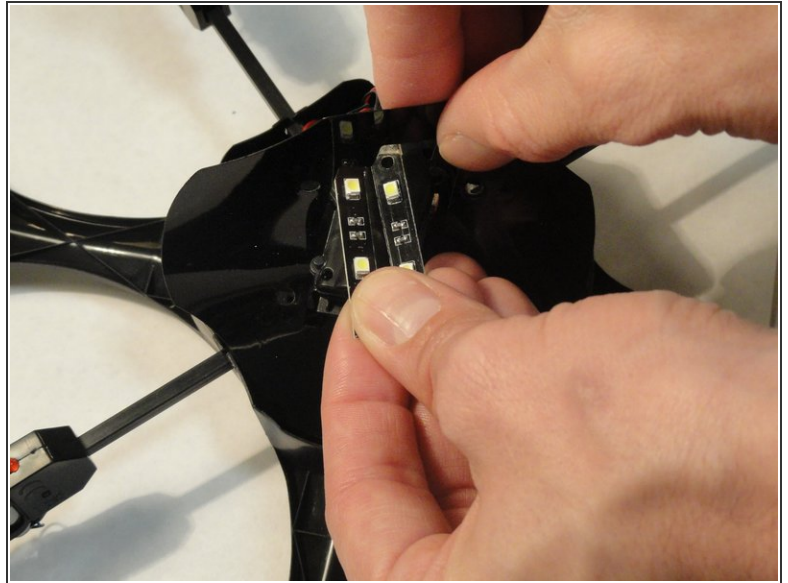
🔧 TOOLS:
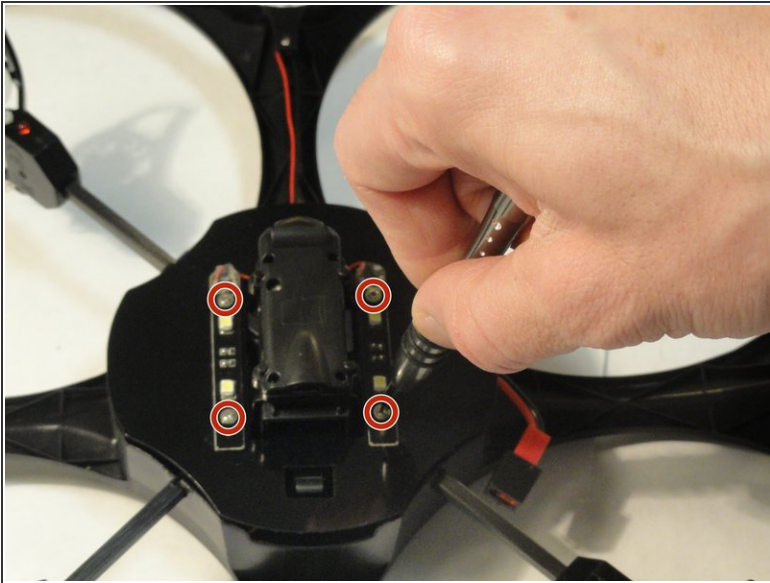
- Phillips #000 Screwdriver (1)
- iFixit Opening Tools (1)

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Step 1 — Propellers

- Using a #PH000 screwdriver, remove the 5mm screws retaining each propeller to the rotating post.
  - (i) As each screw is removed, safely pull the respective propeller from its apparatus.

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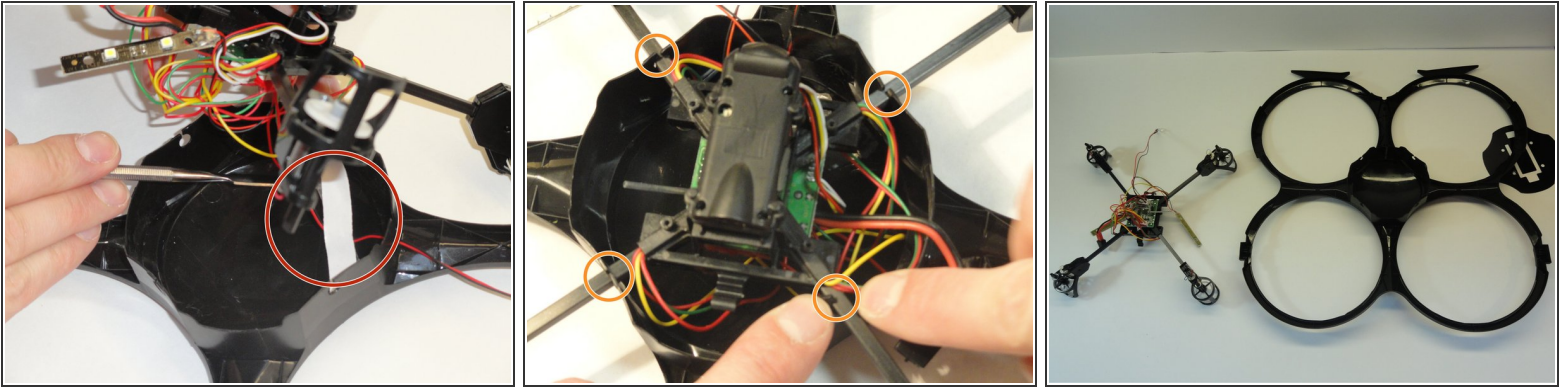
Step 2 — Drone Cover

- After removing the propellers, unscrew all 4 (3x3mm) screws connecting the electronics to the frame.

- Once all of the screws holding the plastic dust cover to the frame are removed, pull the 2 LED bars through the dust cover and remove the thin plastic dust cover from the drone.

  ⚠ As the piece connecting the electronics to the drone cover are accessible, keep note to not remove electronics until *after* disconnecting the drone head lamp first.

Step 3
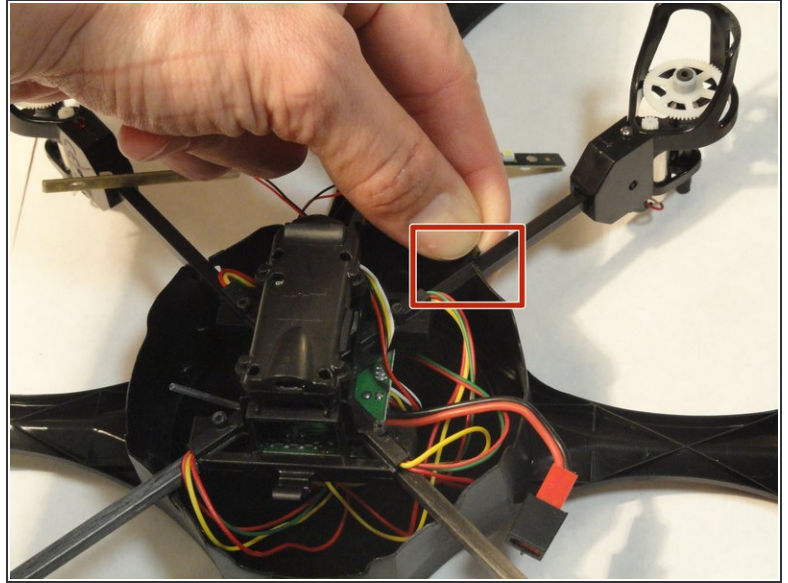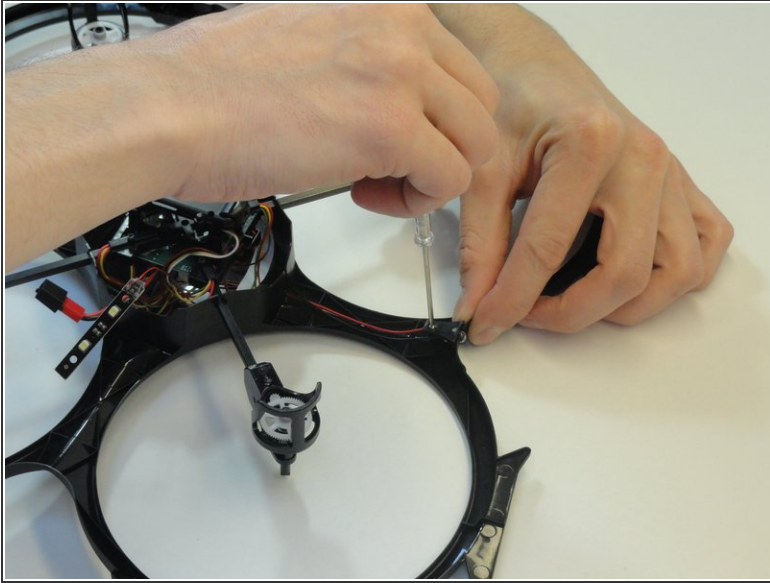
- Step two is disconnecting and removing the head lamp.
  - Use a screw driver to remove the 5mm screw. Remove head lamp of drone.

- Disconnect the electronics from the frame of the drone by pulling each arm out of the hole in the frame holding it in place.

⚠ Do not try to separate the frame from the electronics yet! Check to see if there is tape holding the head lamp wires in place underneath the electronics.

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Step 4

- If present, remove the white tape over the black and red wires for the head lamp with a metal spudger (a wide flat-head tool for separating plastic parts).

  - ⓘ If tape is removed, keep in reusable condition to re-secure the headlight later so there are no loose wires.

- Separate the plastic tabs securing the motor arms to the drone cover and delicately pull out the arm. Do this for all 4 arms to remove the frame from the cover.

Step 5 — Drone Arms
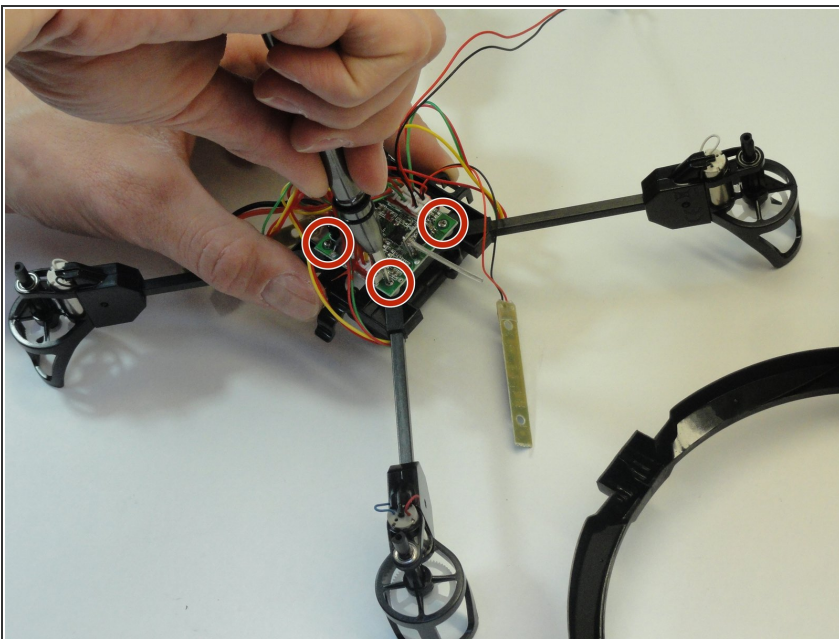
- Use a #PH000 screwdriver to remove all 4 (5mm) corner screws that secure both the receiving board and the motor arm.

- ⓘ Notice how the wires tuck neatly in the bottom channel of the motor arm.

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Step 6
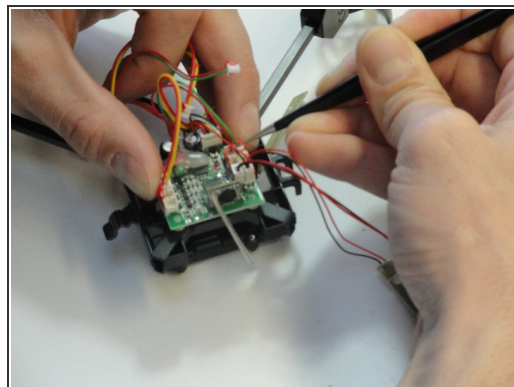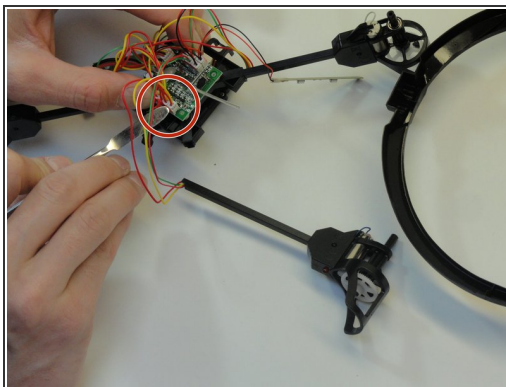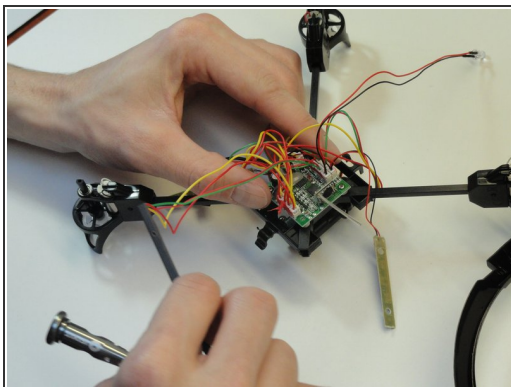
- Carefully slide the arm out from the socket.

- Use a plastic removal tool or tweezers to remove the connectors from the receiving board.

- The cables connecting to the receiving board will be secured with a light adhesive that can be easily scraped away to remove the desired connector.

Step 7

ⓘ Motor direction and propeller direction is crucial to proper flight, refer to this format.

● The <u>Front Left</u> motor identified by the Red/Blue wires is a **Standard**(*Clockwise*) spinning motor, it pairs with a *White* **A2** propeller.

● The <u>Front Right</u> motor identified by the Black/White wires is a **Reverse**(*CounterClockwise*) spinning motor, it pairs with a *White* **B2** propeller.

● The <u>Back Left</u> motor identified by the Black/White wires is a **Reverse**(*CounterClockwise*) spinning motor, it pairs with a *Black* **B1** propeller.

● The <u>Back Right</u> motor identified by the Red/Blue wires is a **Standard**(*Clockwise*) spinning motor, it pairs with a *Black* **A1** propeller.

Step 8
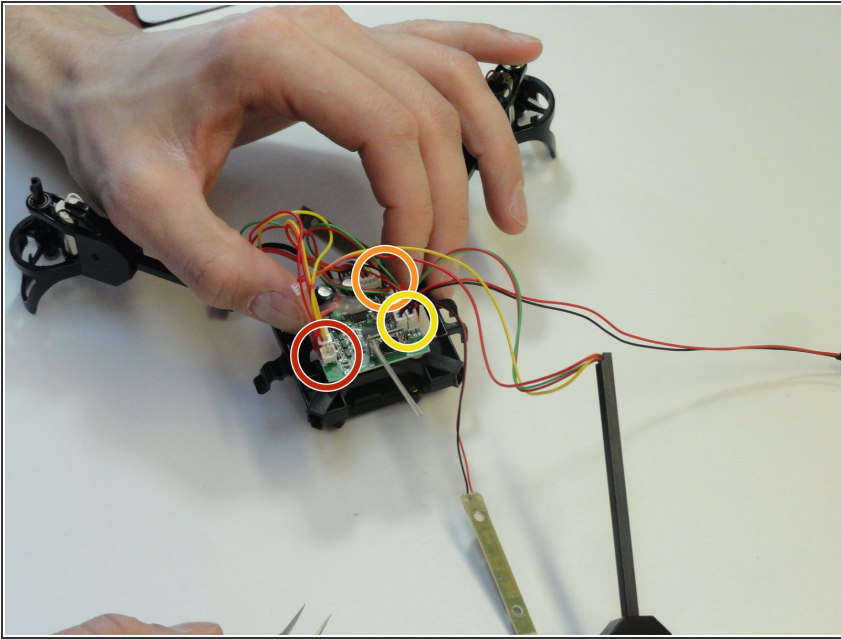
(i) The wiring can appear confusing, don't be alarmed. It's quite easy, and absolutely necessary for proper flight.

● The 4 bottom connectors receive the motor power cables that are Red/Yellow wire pairs from each motor. Counting the sockets 1-4 from left to right.

- ● Front Right motor connects to socket 1.

- ● Front Left motor connects to socket 2.

- ● Rear Left motor connects to socket 3.

- ● Rear Right motor connects to socket 4.

● The Red/Green wire pairs from each motor power the LED to that branch, they connect to 4 of 6 sockets on the top of the receiving board. There is no sequence required.

● The headlight LED, and underside LED bars connect to the remaining 2 sockets on the top of the receiving board. Again, no sequence is required. All LED Red/Black and Red/Green wire pairs connect to top of the receiving board.

To reassemble your device, follow these instructions in reverse order.

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