Irfora W-1 White

Smart Tuya WiFi Thermostat

User Manual - Model W-1 White

Brand: Irfora

1. Introduction

Welcome to the user manual for your new Irfora Smart Tuya WiFi Thermostat. This digital programmable thermostat is designed to provide precise temperature control for underfloor water heating systems, enhancing comfort and energy efficiency in your home. This manual will guide you through the installation, operation, and maintenance of your thermostat, ensuring optimal performance.

Please read this manual carefully before installation and use, and keep it for future reference.

2. Product Overview

The Irfora Smart Tuya WiFi Thermostat (Model W-1 White) is an intelligent wall-mounted temperature controller featuring a clear LCD display and touch buttons. It offers advanced programming capabilities and can be controlled remotely via the Tuya Smart APP.

- **6+1 Programming Function:** Allows setting up to 6 different temperature settings for weekdays and an additional setting for the weekend, providing flexible temperature management.
- **NTC Temperature Sensor:** Ensures accurate temperature readings and precise control within a 5-90°C range.
- **LCD Display with Touch Buttons:** Provides an intuitive interface for easy temperature adjustments and status monitoring.
- **Manual & Automatic Modes:** Offers flexibility to switch between manual temperature control and programmed automatic operation.
- **Embedded Installation:** Designed for seamless integration into existing heating systems.
- **WiFi Connectivity:** Enables remote control and monitoring via the "Tuya Smart" mobile application.



Figure 2.1: Front view of the Smart Tuya WiFi Thermostat and its mobile application interface.



Figure 2.2: The thermostat features an LCD color screen for clear display of room temperature and running status.

3. Specifications

Feature	Specification
Product Material	ABS
Product Size	86 x 86 x 40mm (3.38 x 3.38 x 1.57in)
Panel Thickness	14mm (0.55in)
Version	WiFi
Temperature Sensor	NTC
Temperature Accuracy	±1°C

Feature	Specification
Power Consumption	<1W
Voltage	AC 230V 50/60Hz
Load Current	3A (water heating)
Temperature Setting Range	5-90°C
Key Type	Touch key
Backlight Color	White, Blue (Optional)
Heating Type	Water heating
Control Method	App, Touch Button
Connectivity Technology	Wi-Fi
Manufacturer	Irfora
Country of Origin	China



Figure 3.1: Detailed dimensions and wiring diagram of the thermostat.

4. Setup and Installation

The thermostat is designed for embedded installation. Please ensure power is OFF before beginning installation. It is recommended that installation be performed by a qualified electrician.

1. **Prepare Wiring:** Connect the power box according to the wiring diagram provided on the back of the thermostat and in Figure 3.1. Ensure all connections are secure and correct for your water heating system.
2. **Remove Panel:** Gently push the panel display part upwards to detach and remove the front panel from the base unit.
3. **Fix Thermostat Plate:** Securely fix the thermostat's back plate to the standard 86-type electrical box in your wall

using screws.

4. **Reattach Panel:** Align the panel buckle with the fixed plate and carefully push the panel down until it clicks into place.

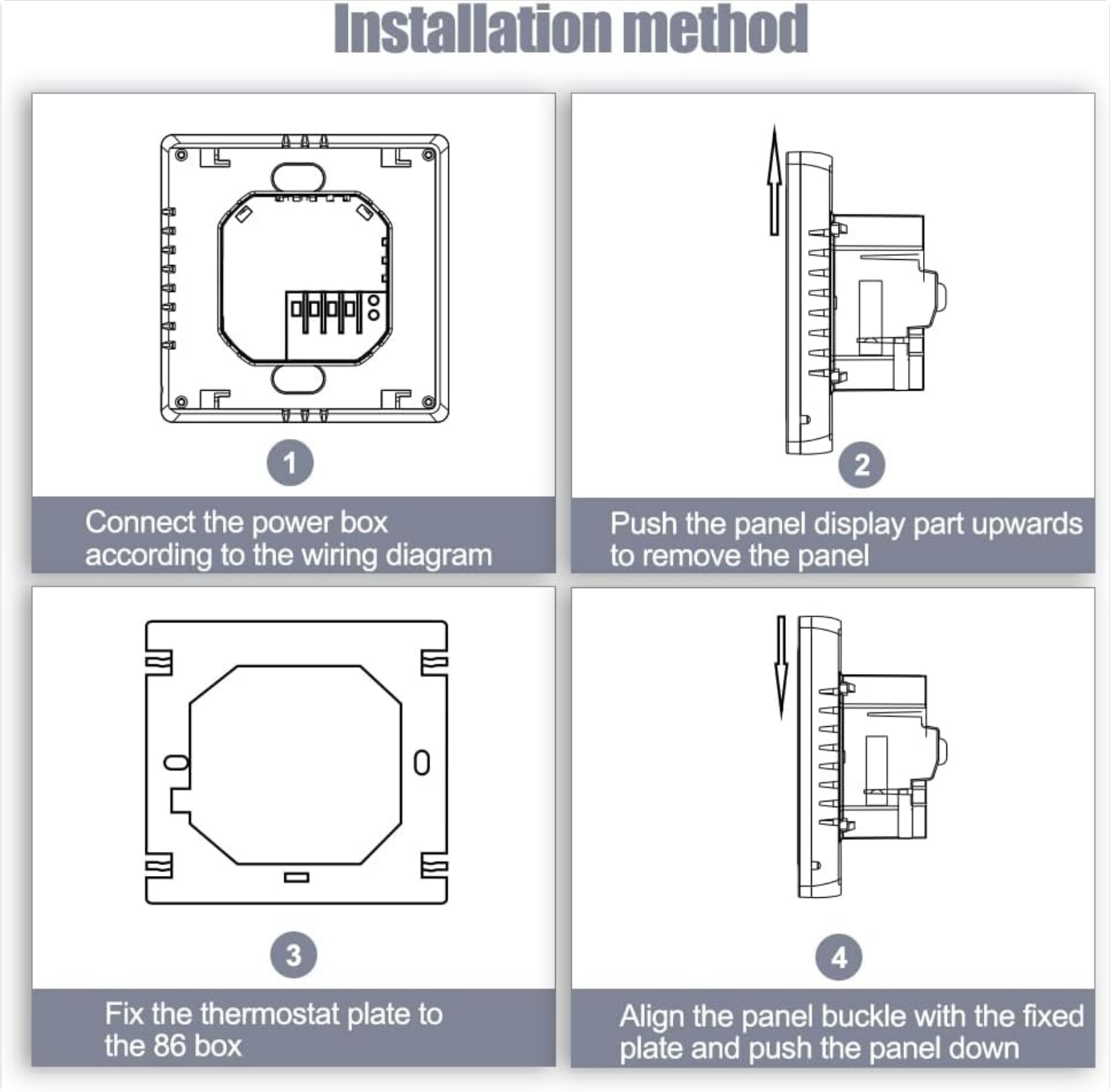


Figure 4.1: Step-by-step installation guide for the thermostat.

4.1 Initial Power-On and WiFi Connection

After successful installation, turn on the power. The thermostat display will light up.

1. **Download App:** Turn on WiFi and Bluetooth on your smartphone. Scan the QR code provided in the thermostat's packaging or search for "Tuya Smart" in your app store to download and install the application.
2. **Add Device:** Open the Tuya Smart app. The app should automatically detect the new device. If not, click "Add Device" or the "+" icon.
3. **Connect:** Follow the on-screen prompts to connect the thermostat to your home WiFi network. You will need to enter your WiFi password.
4. **Confirmation:** Once the connection is successful, the thermostat will appear in your Tuya Smart app, and you can begin controlling it remotely.



Figure 4.2: Remote control via the Tuya Smart APP.

5. Operating Instructions

The thermostat offers both manual and automatic (programmable) modes for temperature control.

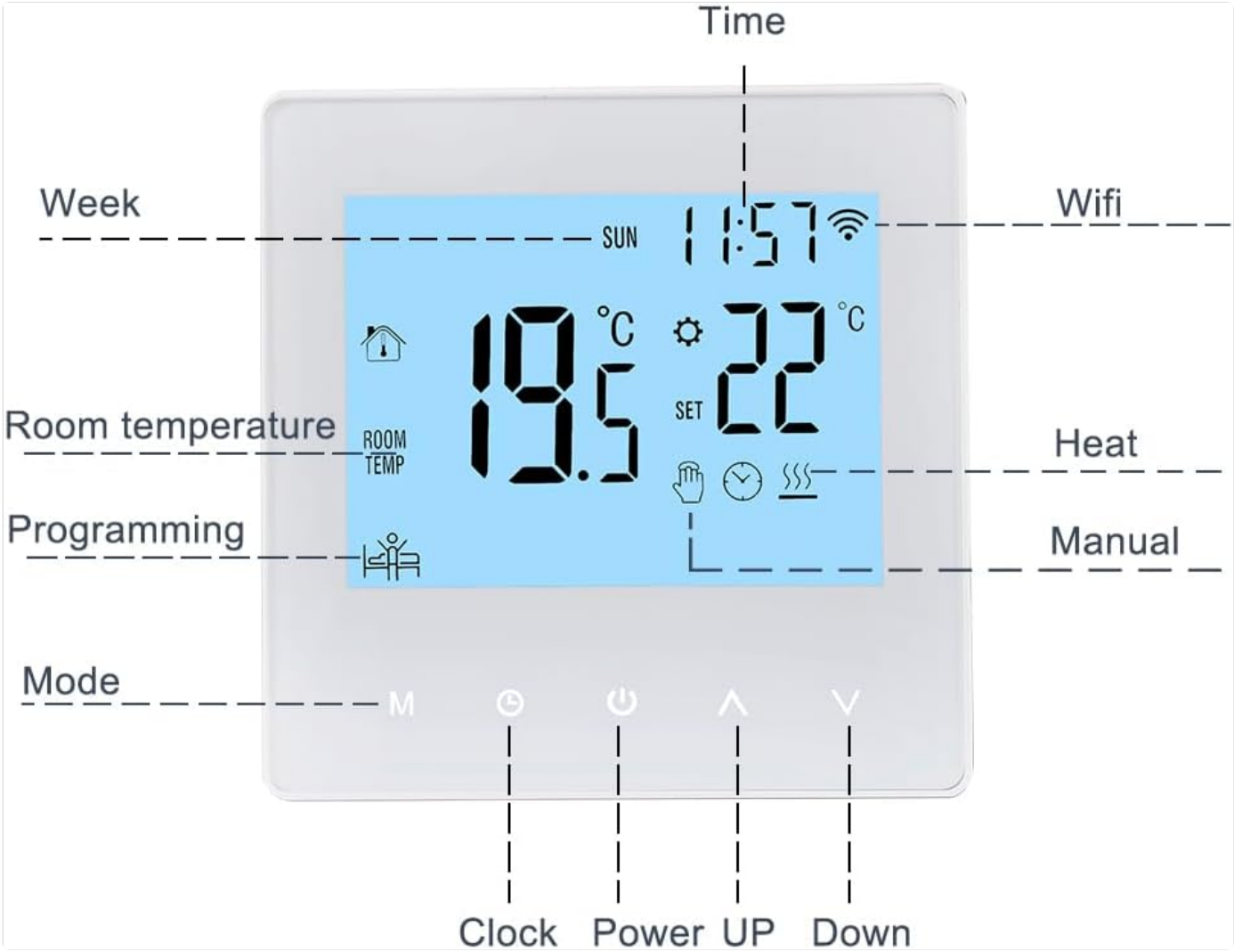


Figure 5.1: Thermostat display and button functions.

5.1 Manual Mode

In manual mode, you can set the desired temperature directly. The thermostat will maintain this temperature until you change it or switch to automatic mode.

- Press the **Mode (M)** button to switch to manual mode (indicated by a hand icon on the display).
- Use the **Up (∧)** and **Down (∨)** buttons to adjust the target temperature.



Figure 5.2: Manual and Automatic Operation of the thermostat.

5.2 Automatic (Programmable) Mode

The 6+1 programming function allows you to set different temperature schedules for weekdays and weekends, optimizing comfort and energy savings.

- Press the **Mode (M)** button to switch to automatic mode (indicated by a programming icon, often a calendar or clock).
- To enter programming settings, typically press and hold the **Mode (M)** button for a few seconds until the programming interface appears.
- Use the **Up (∧)** and **Down (∨)** buttons to navigate through the programming periods (e.g., Workday 1-6, Holiday 1-2) and adjust the time and temperature for each period.
- Confirm settings by pressing the **Power** button or waiting for the display to return to the main screen.

Table 5.1: Example Programming Schedule (6+1)

Key	Option	Icon	Time	Default Temperature

Key	Option	Icon	Time	Default Temperature
Workday	1	Home icon	06:00	20°C
	2	Away icon	08:00	15°C
	3	Return icon	11:30	15°C
	4	Away icon	12:30	15°C
	5	Return icon	17:00	22°C
	6	Sleep icon	22:00	15°C
Holiday	1	Home icon	08:00	22°C
	2	Sleep icon	23:00	15°C

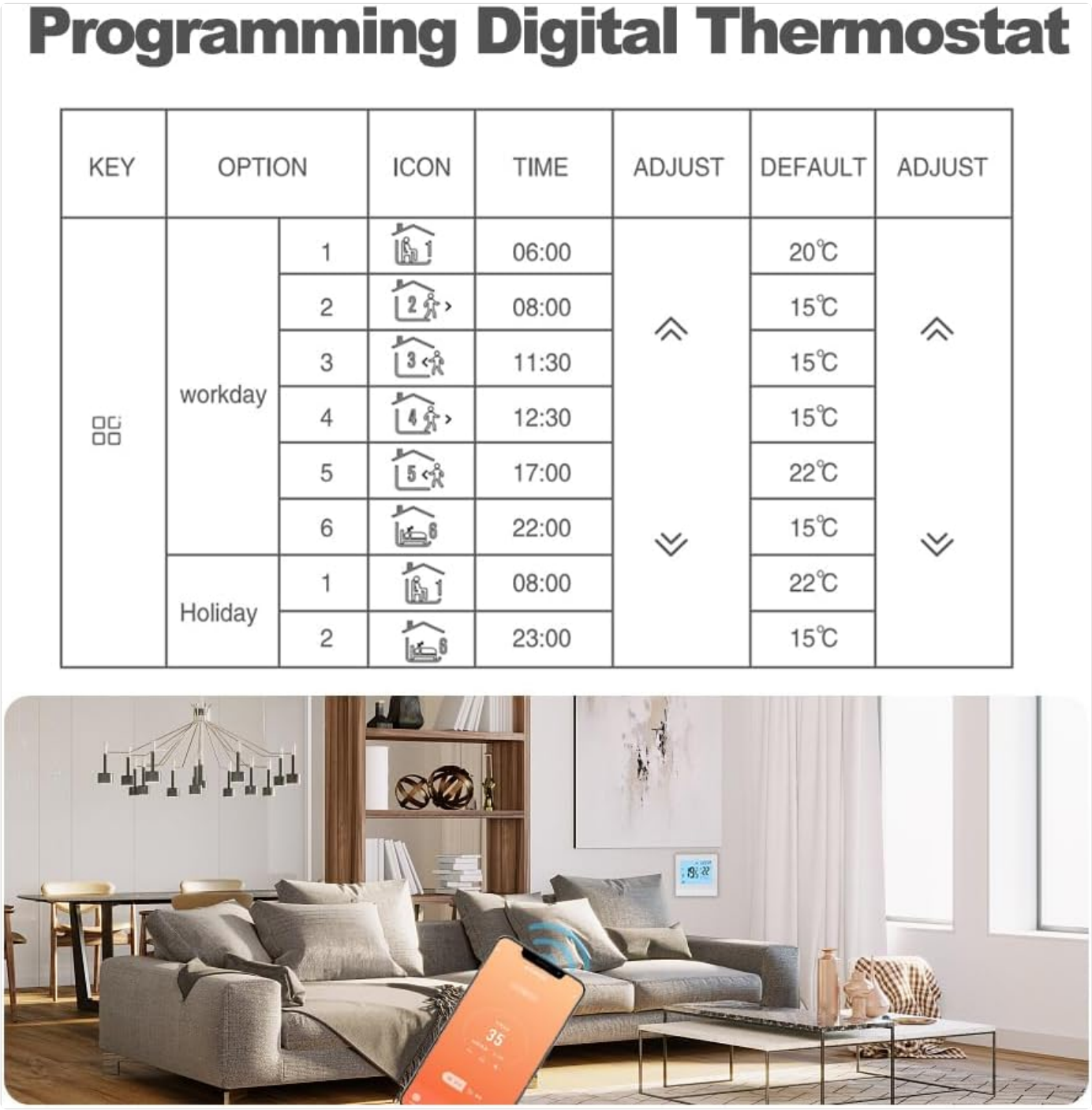


Figure 5.3: Programming the digital thermostat for scheduled heating.

5.3 App Control (Tuya Smart)

Once connected to the Tuya Smart app, you can control your thermostat from anywhere with an internet connection.

- **Remote Adjustment:** Change temperature, switch modes, and adjust schedules directly from the app.
- **Device Sharing:** The mobile app allows you to share control of the thermostat with family members by creating product local groups.
- **Monitoring:** View current room temperature and thermostat status.

6. Maintenance

To ensure the longevity and proper functioning of your thermostat, follow these simple maintenance guidelines:

- **Cleaning:** Wipe the thermostat's display and casing with a soft, dry cloth. Do not use abrasive cleaners, solvents, or chemical sprays, as these can damage the surface and internal components.
- **Avoid Obstructions:** Ensure that the thermostat is not covered by furniture, curtains, or other objects that could obstruct airflow around it, as this can affect temperature readings.
- **Power Off for Service:** If any service or repair is required, always turn off the power to the heating system and the thermostat at the main circuit breaker before proceeding.

7. Troubleshooting

If you encounter issues with your thermostat, please refer to the following common problems and solutions:

- **Thermostat not powering on:**
  - Check the main power supply to your heating system and the circuit breaker.
  - Verify that the wiring connections at the back of the thermostat are secure and correct according to the installation diagram.
- **Temperature reading seems inaccurate:**
  - Ensure the thermostat is not exposed to direct sunlight, drafts, or heat sources (e.g., lamps, appliances) that could affect its sensor.
  - Make sure there are no obstructions covering the thermostat.
- **Cannot connect to WiFi or Tuya Smart App:**
  - Ensure your home WiFi network is active and within range.
  - Verify that you have entered the correct WiFi password during setup.
  - Restart your home router and the thermostat, then try connecting again.
  - Ensure your smartphone's Bluetooth is enabled during the initial pairing process.
- **Heating system not responding to thermostat:**
  - Check the thermostat's mode (manual or automatic) and ensure the target temperature is set higher than the current room temperature if you expect heating to activate.
  - Verify the wiring connections between the thermostat and your heating system.
  - Consult your heating system's manual for specific troubleshooting steps related to its operation.

If the problem persists after trying these steps, please contact customer support.

8. Warranty and Support

This Irfora Smart Tuya WiFi Thermostat is manufactured with high-quality materials and undergoes strict quality control. For specific warranty details, please refer to the warranty card included in your product packaging or contact your retailer.

For technical support, troubleshooting assistance, or inquiries regarding your product, please contact Irfora customer service through the contact information provided with your purchase or on the official Irfora website. Please have your product model number (W-1 White) and purchase details ready when contacting support.

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