

# Mapeheat™ Thermo Touch

## Operating Manual



Technology from



 **MAPEI**  
Thermo Touch

11:15 AM  
Mon. Apr 27

**84** °F

Set to 84°  
until 2:00 PM 

 Energy Use  Settings

  
NUHEAT

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# Introduction

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Thank you for choosing *Mapeheat Thermo Touch* thermostat.

You have chosen the most advanced thermostat to control your *Mapeheat* Floor-Heating System. This manual will cover each of the features of the *Mapeheat Thermo Touch* thermostat.

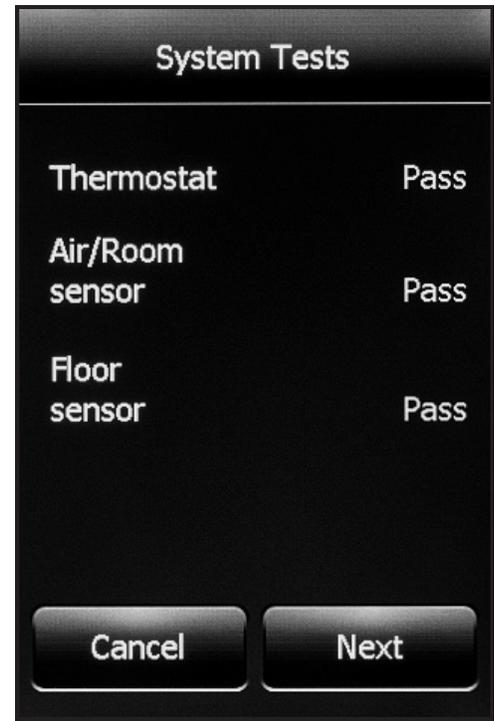


# System Tests

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The *Mapeheat Thermo Touch* thermostat features a series of diagnostic tests to confirm that the thermostat is installed and functioning properly.

The System Tests option is available the first time that the thermostat is connected to power or after a factory reset is initiated.



# Setup Wizard

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The *Mapeheat Thermo Touch* thermostat features a Setup Wizard to guide you through the basic setup process.

The Setup Wizard is available the first time the thermostat is connected to power or after a factory reset is initiated. Refer to Section 4 on Page 13.

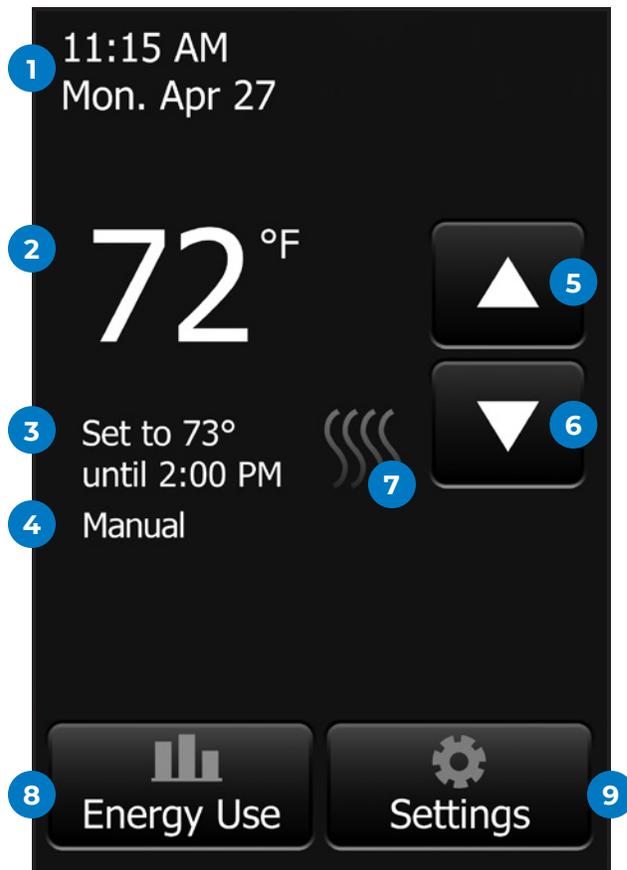
# GFCI

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The *Mapeheat Thermo Touch* thermostat has a built-in GFCI (ground-fault circuit interrupter). The GFCI protects against risks of electrocution caused by a current leakage. If the current leakage exceeds 5 mA, the GFCI will automatically be triggered, thus cutting power to the floor-heating system. To indicate the fault, a message will appear on the screen informing you of the fault. To reset the GFCI, press the button on the right side of the thermostat. If a problem persists, contact MAPEI's Technical Services Department at 1-800-992-6273 (USA) or 1-800-361-9309 (Canada).

# Section 1: Home Screen

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1. Change date and time
2. Current temperature
3. Target temperature or setpoint
4. Operating mode: The Auto\* mode means that the thermostat is following a program/schedule. The Manual mode means that the thermostat is not following a program/schedule and is being controlled manually. Refer to Section 2.5 on Page 8.
5. Increase the temperature
6. Decrease the temperature
7. Heating indicator: When visible, system is heating
8. Access "Energy Use" data
9. Access "Settings" menu

\* *When the thermostat is in Auto mode:*

- "Resume Programmed Schedule": This phrase only appears if the temperature is manually increased/decreased.
- "Hold Options": This phrase only appears if the temperature is manually increased/decreased. Refer to Section 1.1 on Page 5.

# Section 1: Home Screen

## Section 1.1: Temporary bypass and hold options

If the thermostat is following the program/schedule (in Auto mode), you can temporarily bypass the programmed temperature by pressing the  $\uparrow$  or  $\downarrow$  button until the desired “Set To” temperature is displayed. The thermostat will maintain this temperature until the start of the next period.

1. Press “Resume Program” to cancel the temporary bypass.
2. Press “Hold Options” to access more options.

### Hold Options

The *Mapeheat Thermo Touch* thermostat allows you to set the duration you want for the temporary bypass temperature.

1. Change the duration of the hold time by pressing the  $\uparrow$  or  $\downarrow$  arrows.
2. Alternatively, press “Permanent Hold” to hold the temporary bypass temperature indefinitely.
3. Press “Cancel” to ignore the change or press “Save” to confirm.
4. On the home screen, press “Resume Program” to cancel the temporary bypass.



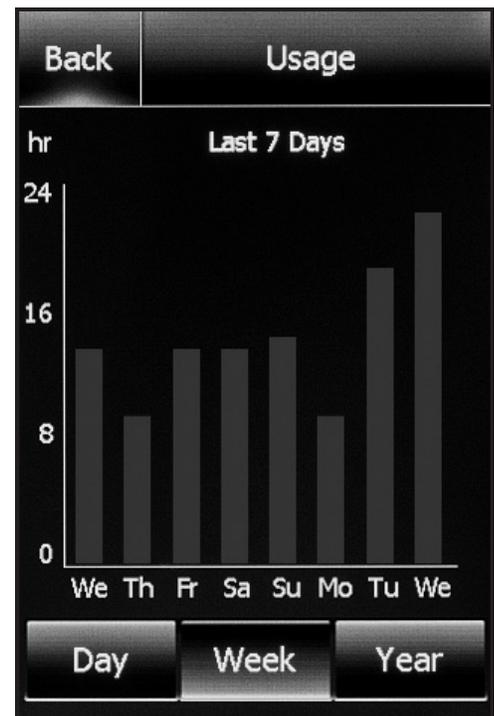
## Section 1.2: Energy use

The *Mapeheat Thermo Touch* thermostat tracks the amount of time that your floor-heating system has been heating.

1. Press “Day/Week/Year” to view the different time ranges.
2. Press “Back” to return to the home screen.

Note that the thermostat cycles the heating on and off in order to maintain the desired setpoint temperature. Actual heating time is normally a percentage of the scheduled “On” time.

For example, let’s say that the thermostat is programmed to turn on at 5:00 p.m. and turn off at 8:00 p.m. The total “On” time is 3 hours, but the number of hours that the system is actually heating may be a percentage of the total “On” time.



# Section 1: Home Screen

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## Section 1.3: Settings

The following options are available under the “Settings” menu:

- “Setup/Preferences”
- “Program/Schedule”
- “Thermostat Info”
- “Factory Reset”



# Section 2: Setup/Preferences

From the home screen, access the “Setup/Preferences” menu by pressing “Settings > Setup/Preferences”. Press the < or > arrows at the top to view both pages of “Setup/Preferences”.

## Section 2.1: Language

1. Choose between “English / Français / Español”.
2. Press “Cancel” to ignore the change or press “Save” to confirm.



## Section 2.2: Date

1. Set the current month/date/year.
2. Select whether to enable/disable daylight savings time based on your region.
3. Press “Cancel” to ignore changes or press “Save” to confirm.



## Section 2.3: Time

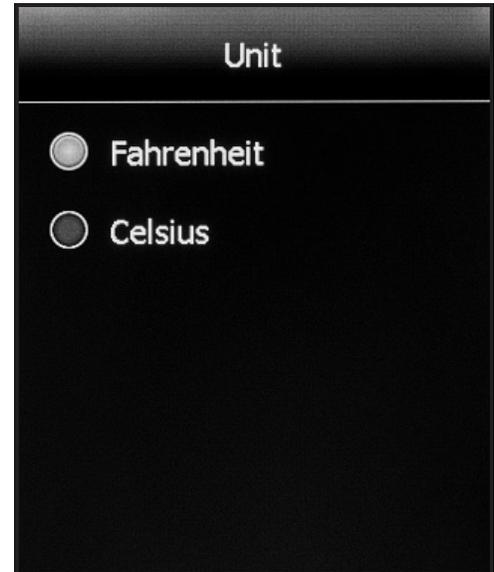
1. Set the current time.
2. Press “Cancel” to ignore changes or press “Save” to confirm.



# Section 2: Setup/Preferences

## Section 2.4: Unit

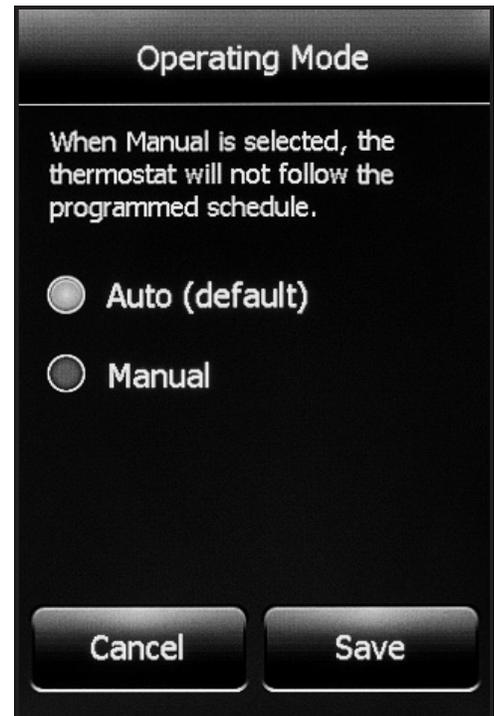
1. Choose between Fahrenheit or Celsius.
2. Press "Cancel" to ignore the change or press "Save" to confirm.



## Section 2.5: Operating mode

The thermostat has two operating modes:

1. Auto: "Auto" is the default mode, allowing you to program a heating schedule for your thermostat. Refer to Section 3 on Page 12.
2. Manual: Select the "Manual" mode if you always want to set the temperature manually, with no programmed schedule. The thermostat will maintain the set temperature until it is manually changed or until you switch to another operating mode.
3. Press "Cancel" to ignore the change or press "Save" to confirm.



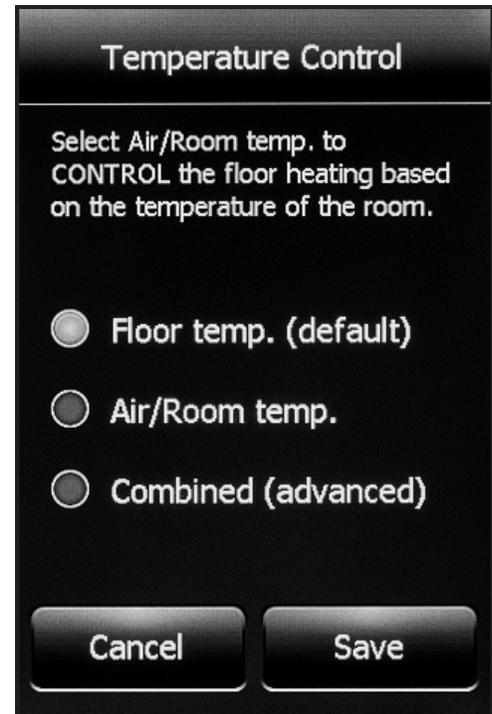
# Section 2: Setup/Preferences

## Section 2.6: Temperature control

The thermostat can be configured to control the floor temperature, air/room temperature, or a combination of floor and air/room temperature.

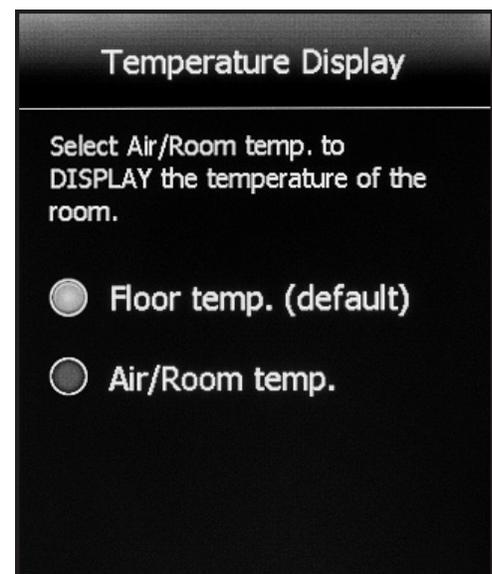
Temperature Control Setting	Description
Floor temp. (default)	The thermostat controls the floor temperature.
Air/room temp.	The thermostat controls the air/room temperature. This setting disables the floor sensor and is useful if the floor sensor is damaged or not installed.
Combined (advanced)	For advanced users only – This setting allows control of the floor-heating system based on air/room temperature but will not turn on the floor-heating system if the floor temperature is above the floor limit.

1. Select the desired temperature control.
2. Press “Cancel” to ignore the change or press “Save” to confirm.



## Section 2.7: Temperature display

1. Select one of the following temperatures on the home screen and screensaver:
  - Floor temp. (default)
  - Air/room temp.
2. Press “Cancel” to ignore the change or press “Save” to confirm.



# Section 2: Setup/Preferences

## Section 2.8: Floor type

1. Set according to your flooring type.
2. When "Engineered/Laminate/Vinyl" is selected, the floor temperature will be limited to 82°F (28°C).  
Note that this setting is not available if "Temperature Control" is set to "Air/room temp." Refer to Section 2.6 on Page 9.
3. Press "Cancel" to ignore the change or press "Save" to confirm.

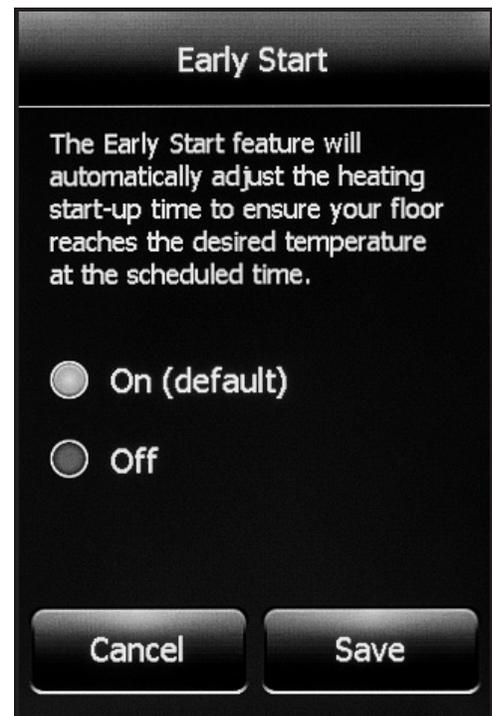


## Section 2.9: "Early Start"

Early Start calculates the optimal time to start heating in order to ensure that your floor reaches the desired temperature at the scheduled time in your program/schedule.

Note that it only applies if your thermostat is following a programmed schedule (that is, when the thermostat is in Auto mode).

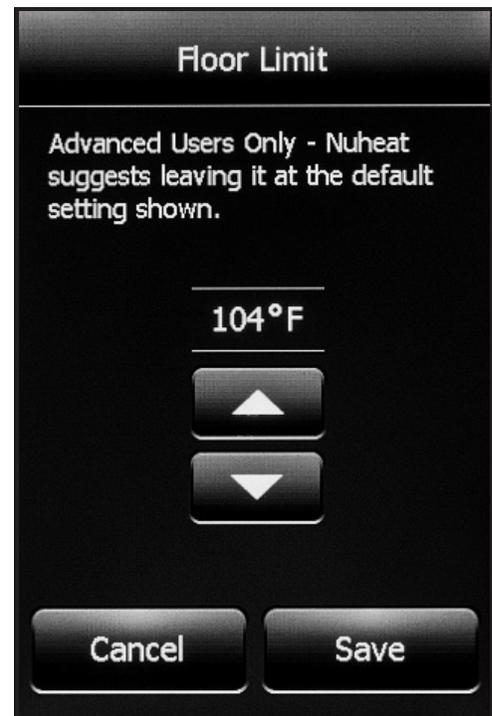
1. Select "On" if desired.
2. Press "Cancel" to ignore the change or press "Save" to confirm.



## Section 2: Setup/Preferences

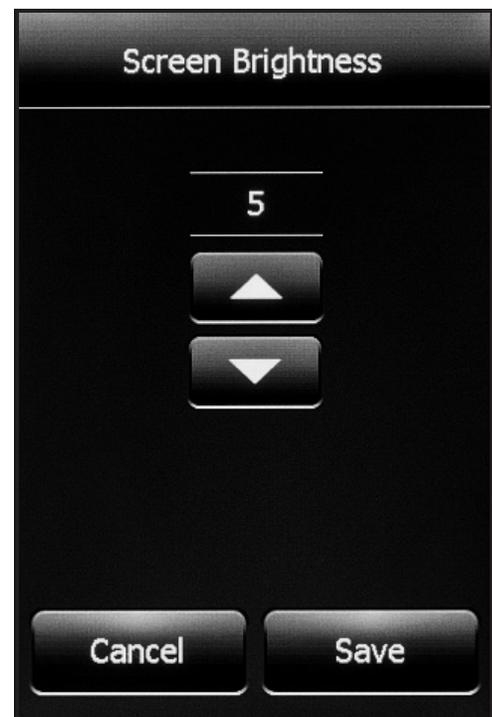
### Section 2.10: Floor limit

1. Set the maximum temperature that you want the floor to reach. The floor heating will not turn on if the floor temperature is above the set floor limit. If the floor limit is set too low, your floor-heating system will not turn on. MAPEI suggests leaving the floor limit at the default factory temperature setting.  
Note that this setting is not available if "Temperature Control" is set to "Air/room temp". Refer to Section 2.6 on Page 9.
2. Press "Cancel" to ignore the change or press "Save" to confirm.



### Section 2.11 Screen brightness

1. Set the desired screen brightness.
2. Press "Cancel" to ignore the change or press "Save" to confirm.



### Section 2.12: Screensaver

1. The thermostat will display a screensaver after two minutes of inactivity. You can choose what information to display on the screensaver.
2. Press "Cancel" to ignore the change or press "Save" to confirm.

# Section 3: Program/Schedule

From the home screen, access the “Program/Schedule” menu by pressing “Settings > Program/Schedule”.

Below is the default schedule of the *Mapeheat Thermo Touch* thermostat:

## WEEKDAYS

Period	Start Time	Floor Temperature	
		Tile	Wood
Wake	6:00 a.m.	88°F (31°C)	82°F (28°C)
Leave	9:00 a.m.	74°F (23°C)	74°F (23°C)
Return	5:00 p.m.	88°F (31°C)	82°F (28°C)
Sleep	11:00 p.m.	74°F (23°C)	74°F (23°C)

## WEEKENDS

Period	Start Time	Floor Temperature	
		Tile	Wood
Wake	8:00 a.m.	88°F (31°C)	82°F (28°C)
Sleep	11:00 p.m.	74°F (23°C)	74°F (23°C)

To adjust the setpoint(s):

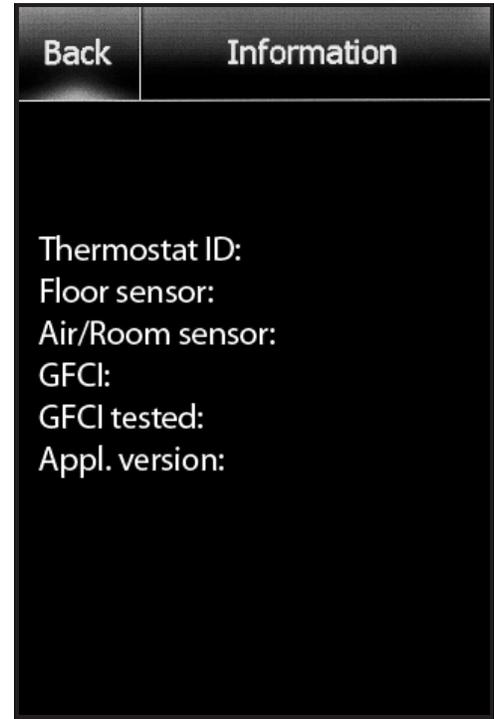
1. Use the < or > arrows to toggle between weekdays and weekend days.
2. Select the period that you want to adjust.
3. Using the ↑ or ↓ arrows, adjust the time and temperature of the setpoint.
4. Press “Cancel” to ignore the change or press “Save” to confirm.

To set a new program/schedule, press “New Program” at the bottom of the screen:

1. Select the days that share the same schedule.
2. Press “Next”.
3. Select the period that you want to adjust.
4. Using the ↑ or ↓ arrows, adjust the time and temperature of the setpoint.
5. Press “Cancel” to ignore the change or press “Save” to confirm.
6. Press “Next”.
7. Repeat Steps 1 to 6 until all days of the week have been programmed.
8. Press “Done” to save the program/schedule.

## Section 4: Thermostat Information

1. From the home screen, access the “Thermostat Info” items by pressing “Settings > Thermostat Info”.
2. Press the < or > arrows at the top to view both pages of thermostat information:
  - “Thermostat ID” – The unique serial number assigned to the thermostat during manufacturing.
  - “Floor sensor” – The status of the floor sensor.
  - “Air/room sensor” – The status of the built-in air/room temperature sensor.
  - “GFCI” – The status of the GFCI. If a “?” appears, it means the GFCI has not been tested. Refer to the GFCI Section on Page 3.
  - “GFCI tested” – The date when the GFCI was last tested.
  - “Appl. Version” – The firmware version number (for internal use during manufacturing).

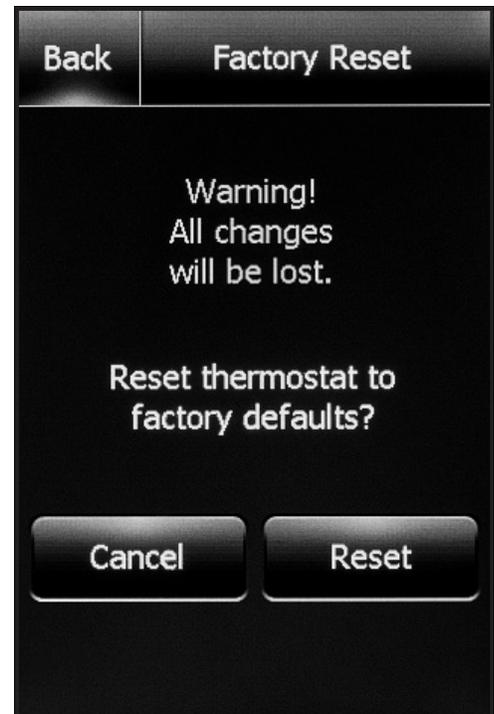


## Section 5: Factory Reset

From the home screen, access “Factory Reset” by pressing “Settings > Factory Reset”.

Factory Reset allows you to reset the thermostat back to factory default settings. This can be used to reset the thermostat for a new owner or for troubleshooting purposes.

**WARNING:** Factory Reset will delete all information stored on the thermostat, including energy usage data.





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