

CULTIVATION SYSTEM DEVELOPMENT PH.4 COURSE

4

APPENDIX

First edition



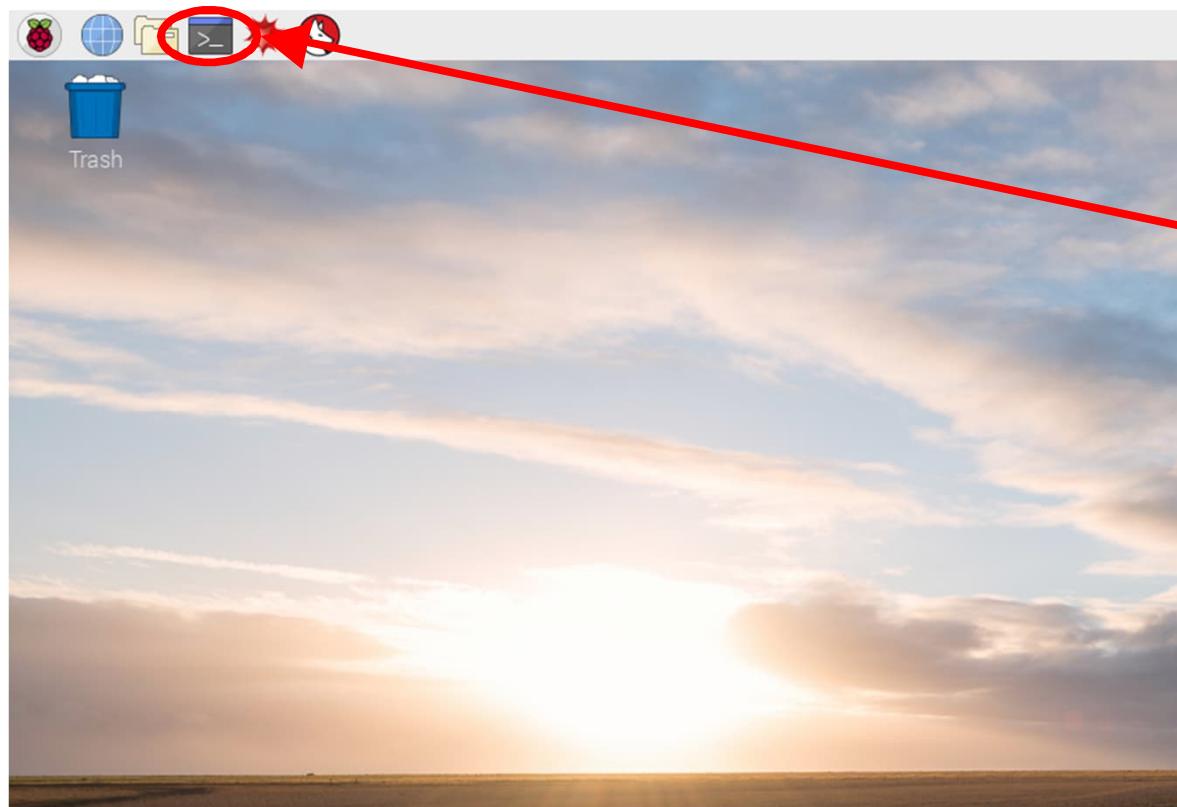
Bright Eyes Academy

TABLE OF CONTENTS

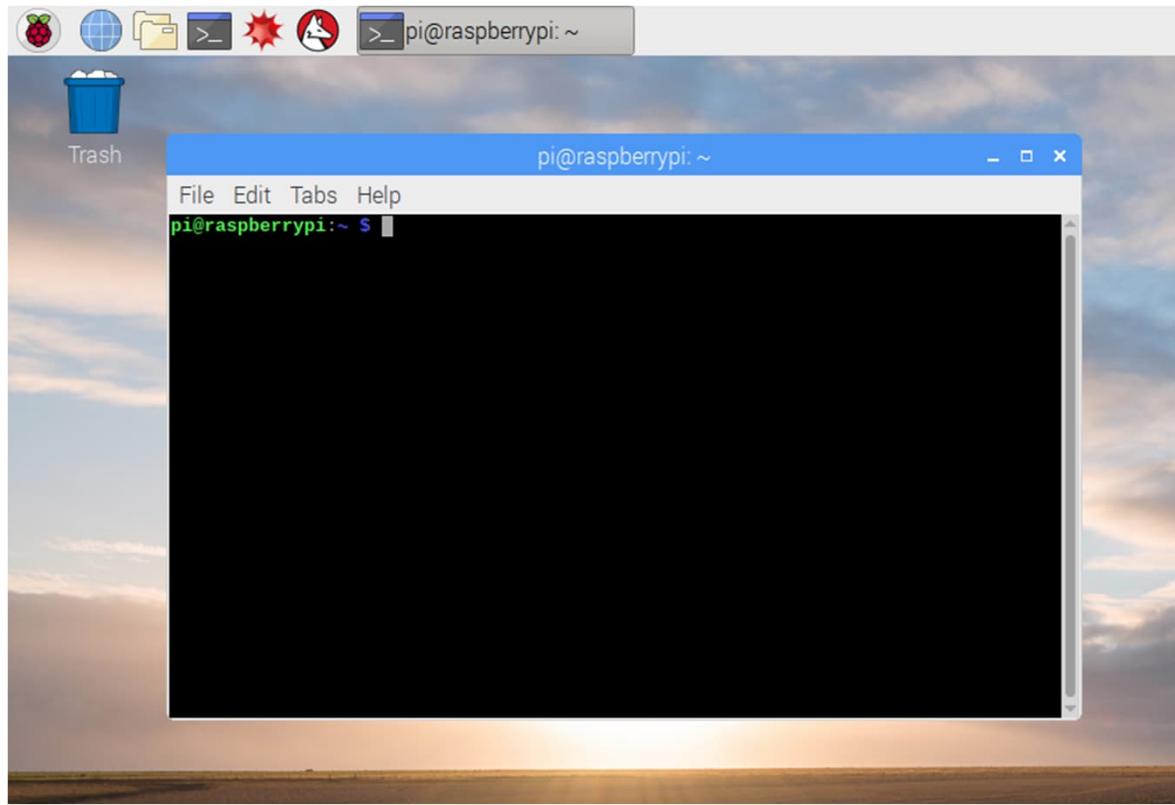
- Set up the UART interface
- Install the UART library for the Python

1. SET UP THE UART INTERFACE

UART interface activation procedure



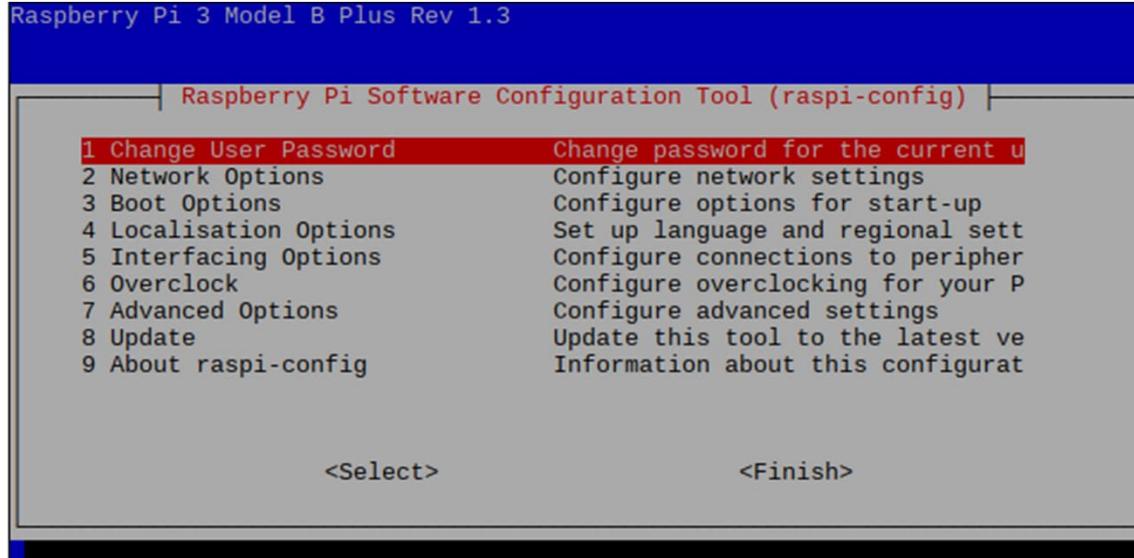
Open the terminal.



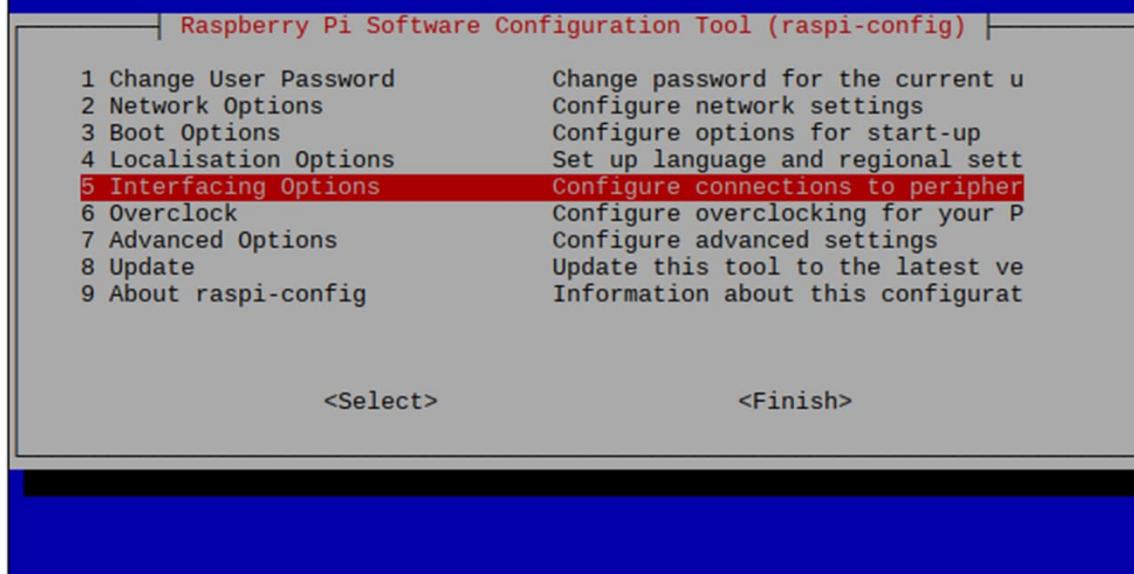
Type “sudo raspi-config” and press Enter.

A screenshot of a terminal window. The command "pi@raspberrypi:~ \$ sudo raspi-config" is visible at the top, followed by a cursor. The rest of the window is black, indicating that the command has been entered and is waiting for execution.

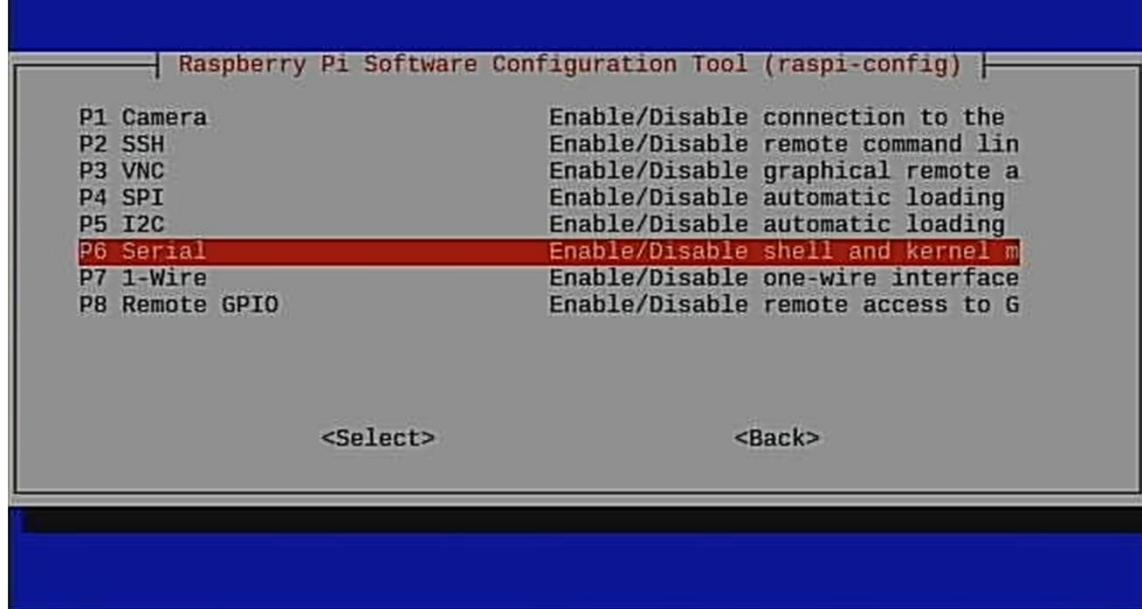
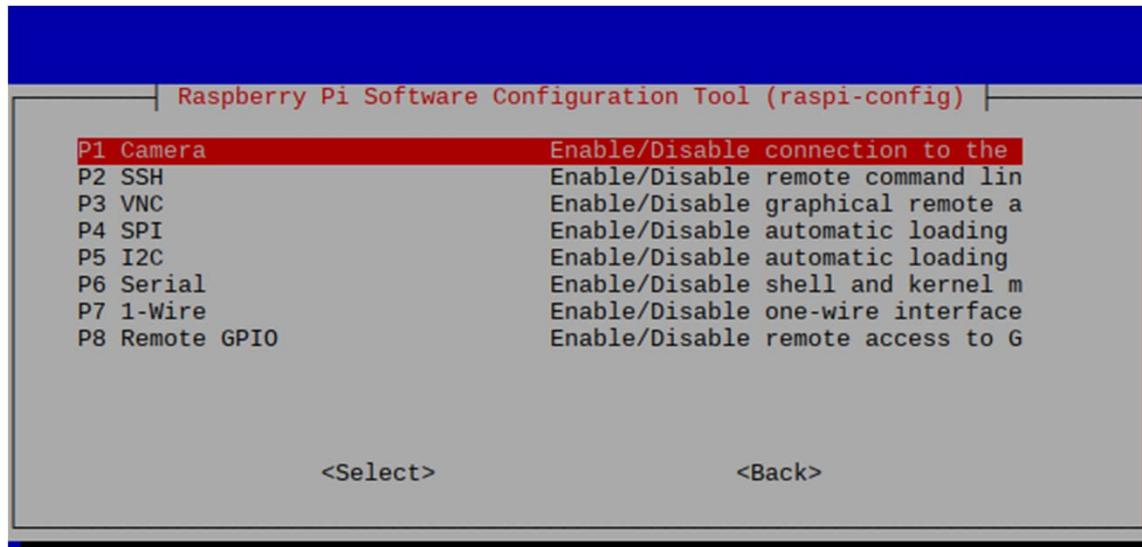
Raspberry Pi 3 Model B Plus Rev 1.3



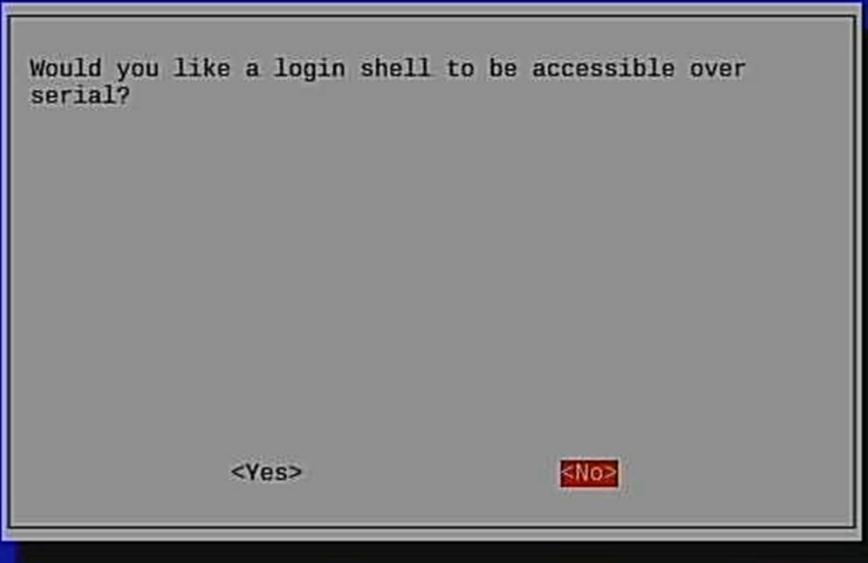
Raspberry Pi 3 Model B Plus Rev 1.3



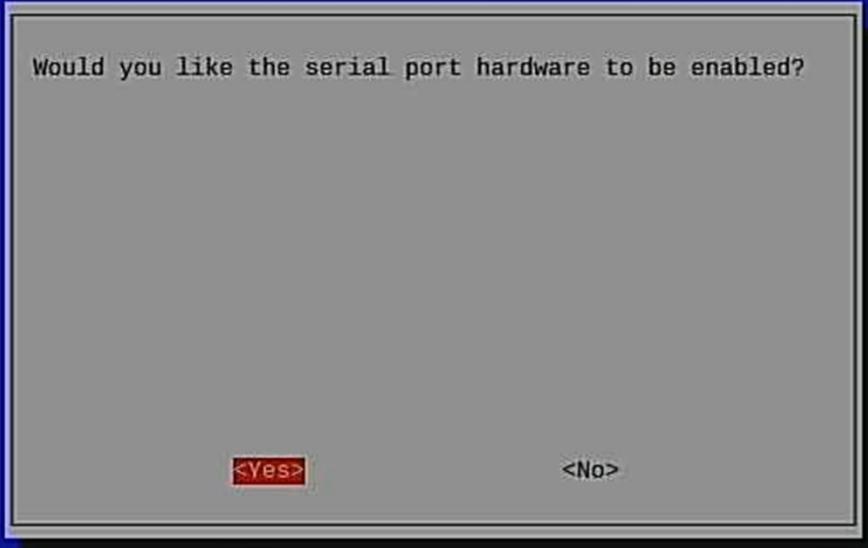
Select 5 Interfacing Options



Select P6 Serial



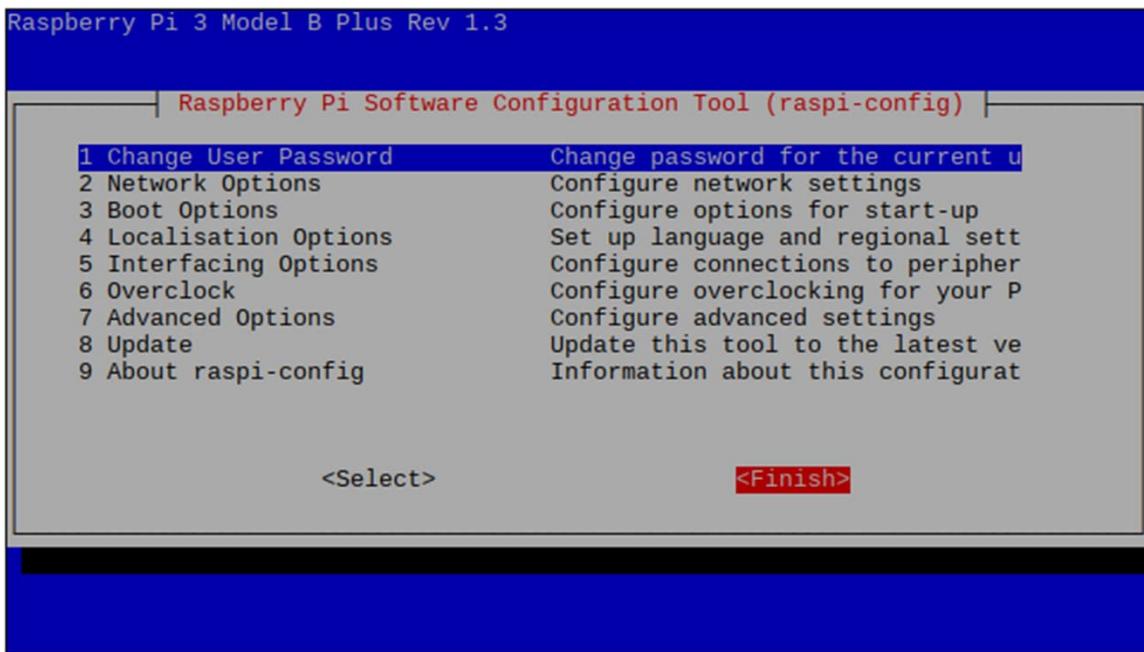
Select <No>



Select <Yes>



Select <Ok>



Select <Finish> with the TAB.

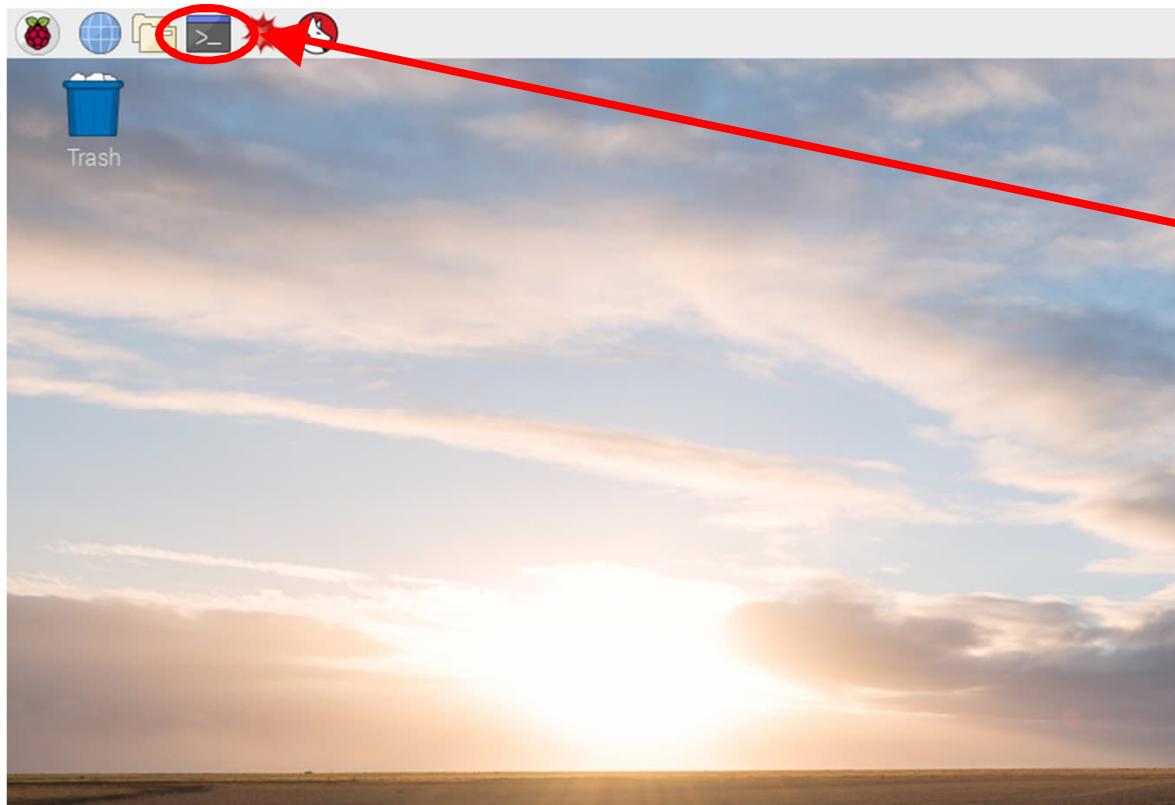
Type "sudo reboot" and press Enter.

```
pi@raspberrypi:~ $  
pi@raspberrypi:~ $ sudo raspi-config  
pi@raspberrypi:~ $  
pi@raspberrypi:~ $ sudo reboot
```

Setting completed.

2. INSTALL THE UART LIBRARY FOR THE PYTHON

Library Installation procedure



Open the terminal.

```
File Edit Tabs Help  
pi@raspberrypi:~ $ sudo apt update
```

Update system package list
Type “sudo apt update” and press Enter.

```
File Edit Tabs Help  
pi@raspberrypi:~ $ sudo apt upgrade
```

Upgrade all installed packages to the latest version
Type “sudo apt upgrade” and press Enter.

```
File Edit Tabs Help  
pi@raspberrypi:~ $ sudo apt clean
```

Clear package cache
Type “sudo apt clean” and press Enter.

```
File Edit Tabs Help  
pi@raspberrypi:~ $ sudo pip3 install pyserial
```

Type “sudo pip3 install pyserial” and
press Enter.

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DEVELOPMENT PH.4 COURSE

4. APPENDIX

Issue Date: First edition published 1st November 2021

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