# Notebook Tour

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User Guide

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# 1 Components

This chapter explains the hardware features of the computer.

To see a list of hardware installed in the computer:

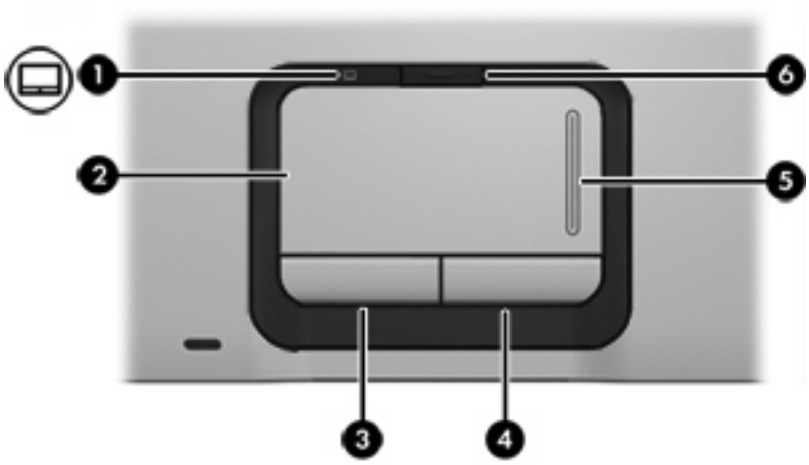
1. Select **Start > My Computer**.
2. Under **Hard Disk Drives**, click the name of your computer hard drive.
3. In the left pane under **System Tasks**, click **View system information**.
4. Select **Hardware** tab **> Device Manager**.

You can also add hardware or modify device configurations using Device Manager.

**NOTE** Components included in the computer may vary by region and by model. The illustrations in this chapter identify the standard features included in most computer models.

# Top components

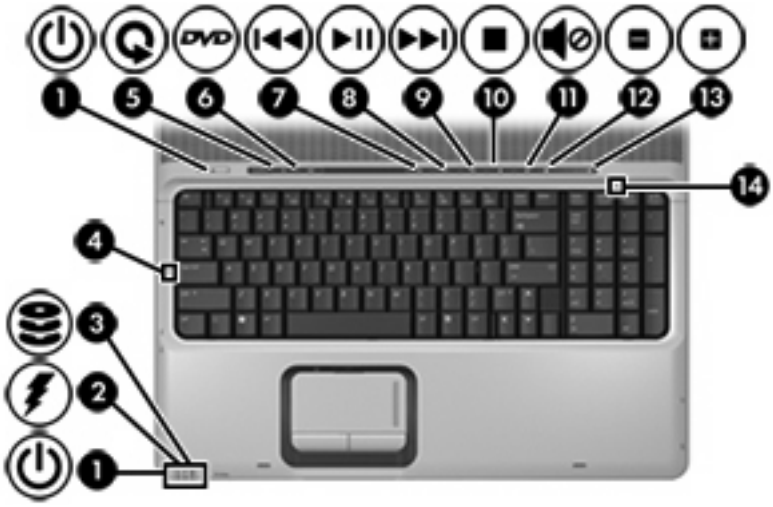
## TouchPad




| Component | | Description |
|---|---|---|
| **(1)** | TouchPad light | Blue: TouchPad is enabled.<br>Amber: TouchPad is disabled. |
| **(2)** | TouchPad* | Moves the pointer and selects or activates items on the screen. |
| **(3)** | Left TouchPad button* | Functions like the left button on an external mouse. |
| **(4)** | Right TouchPad button* | Functions like the right button on an external mouse. |
| **(5)** | TouchPad scroll zone* | Allows you to scroll up or down. |
| **(6)** | TouchPad on/off button | Enables/disables the TouchPad. |

*This table describes factory settings. To view and change pointing device preferences, select **Start > Control Panel > Printers and Other Hardware > Mouse**.

## Lights

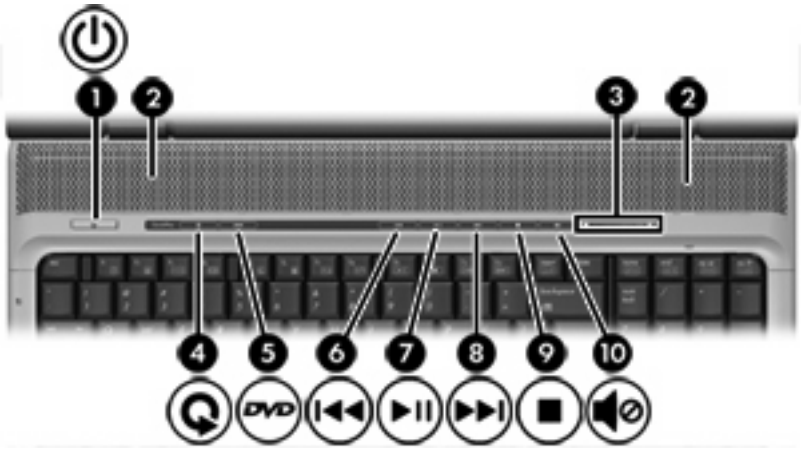



| Component | | Description |
|---|---|---|
| **(1)** | Power lights (2)* | On: The computer is on.<br><br>Blinking: The computer is in standby.<br><br>Off: The computer is off or in hibernation. |
| **(2)** | Battery light | On: A battery is charging.<br><br>Blinking: A battery that is the only available power source has reached a low-battery condition. When the battery reaches a *critical* low-battery condition, the battery light begins blinking rapidly.<br><br>Off: If the computer is plugged into an external power source, the light is turned off when all batteries in the computer are fully charged. If the computer is not plugged into an external power source, the light stays off until the battery reaches a low-battery condition. |
| **(3)** | Drive light | Blinking: The hard drive or optical drive is being accessed. |
| **(4)** | Caps lock light | On: Caps lock is on. |
| **(5)** | Media button light | Blinks once when the media button is pressed. |
| **(6)** | DVD button light | Blinks once when the DVD button is pressed. |
| **(7)** | Previous/rewind light | Blinks once when the previous/rewind button is pressed. |
| **(8)** | Play/pause light | Blinks once when the play/pause button is pressed. |
| **(9)** | Next/fast forward light | Blinks once when the next/fast forward button is pressed. |
| **(10)** | Stop light | Blinks once when the stop button is pressed. |
| **(11)** | Volume mute light | Blue: Computer sound is turned on.<br><br>Amber: Computer sound is turned off. |
| **(12)** | Volume down light | Blinking: The volume scroll zone is being used to decrease speaker volume. |

| Component | | Description |
|---|---|---|
| **(13)** | Volume up light | Blinking: The volume scroll zone is being used to increase speaker volume. |
| **(14)** | Num lock light | On: Num lock is on. |

*The 2 power lights display the same information. The light on the power button is visible only when the computer is open. The power light on the front of the computer is visible whether the computer is open or closed.

## Buttons, switches, and speakers

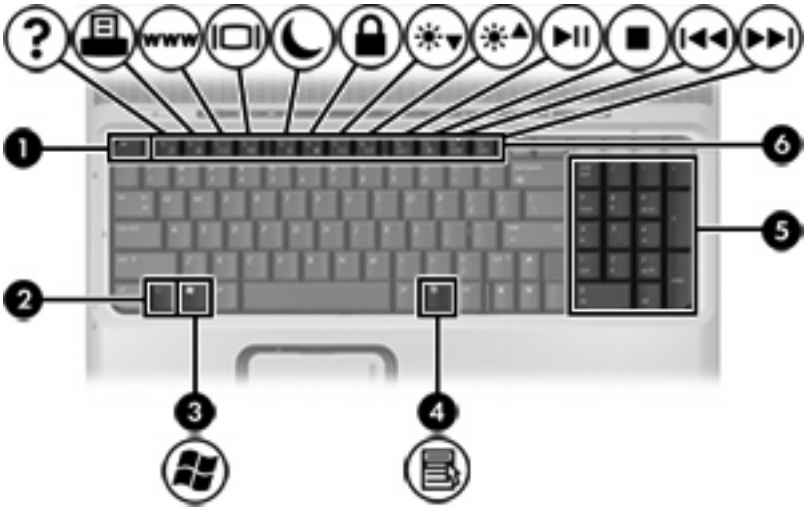



| Component | | Description |
|---|---|---|
| **(1)** | Power button* | When the computer is<br>• Off, press to turn on the computer.<br>• On, press to enter hibernation.<br>• In standby, briefly press to exit standby.<br>• In hibernation, briefly press to exit hibernation.<br>If the computer has stopped responding and Microsoft® Windows® shutdown procedures cannot be used, press and hold the power button for at least 5 seconds to turn off the computer. |
| **(2)** | Speakers (2) | Produce sound. |
| **(3)** | Volume scroll zone | Adjusts speaker volume. Slide your finger to the left to decrease volume and to the right to increase volume. You can also tap the minus sign on the scroll zone to decrease volume, or tap the plus sign on the scroll zone to increase volume. |
| **(4)** | Media button | If QuickPlay is not installed and the computer is<br>• On, opens the music program or Media menu, which allows you to select a multimedia program.<br>• Off, does not function.<br>• In standby, resumes from standby into Windows.<br>If QuickPlay is installed and the computer is<br>• On, opens the music program or Media menu, which allows you to select a multimedia program.<br>• Off, opens the music program or the Media menu, which allows you to select a multimedia program.<br>• In standby, resumes from standby into Windows.<br>**NOTE** The media button does not affect the procedure for restoring from hibernation. |

| Component | | Description |
|---|---|---|
| **(5)** | DVD button | When the computer is<br>• On, opens the default DVD program to start a DVD in the optical drive.<br>• Off, opens QuickPlay to start a DVD in the optical drive. If the QuickPlay software is not installed, the DVD button starts Windows.<br>• In hibernation, opens QuickPlay to start a DVD in the optical drive. If QuickPlay is not installed, the computer resumes from hibernation.<br>**NOTE** Refer to the QuickPlay online Help for details on using QuickPlay. |
| **(6)** | Previous/rewind button | When a disc is playing in the optical drive:<br>• Plays the previous track or chapter, when pressed once.<br>• Rewinds when pressed with the fn key. |
| **(7)** | Play/pause button | When a disc is in the optical drive and is<br>• Not playing, plays the disc.<br>• Playing, pauses the disc. |
| **(8)** | Next/fast forward button | When a disc is playing in the optical drive:<br>• Plays the next track or chapter, when pressed once.<br>• Fast forwards when pressed with the fn key. |
| **(9)** | Stop button | When a disc is playing in the optical drive, stops the current disc activity. |
| **(10)** | Volume mute button | Mutes and restores speaker sound. |

*This table describes factory settings. For information about changing factory settings, refer to the user guides located in the Help and Support Center.

## Keys




| Component | | Description |
|---|---|---|
| **(1)** | esc key | Displays system information when pressed in combination with the fn key. |
| **(2)** | fn key | Executes frequently used system functions when pressed in combination with a function key or the esc key. |
| **(3)** | Windows logo key | Displays the Microsoft Windows Start menu. |
| **(4)** | Windows applications key | Displays a shortcut menu for items beneath the pointer. |
| **(5)** | Integrated numeric keypad keys | Can be used like the keys on an external numeric keypad. |
| **(6)** | Function keys | Execute frequently used system functions when pressed in combination with the fn key. |

## Hotkey quick reference

| To perform this function | Press |
|---|---|
| Display information. | fn+esc |
| Open the Help and Support Center. | fn+f1 |
| Open the Print Options window. | fn+f2 |
| Open a Web browser. | fn+f3 |
| Alternate between computer display and external display. | fn+f4 |
| Initiate standby. | fn+f5 |
| Initiate QuickLock. | fn+f6 |
| Decrease screen brightness. | fn+f7 |
| Increase screen brightness. | fn+f8 |
| Play, pause, or resume an audio CD or a DVD. | fn+f9 |

| To perform this function | Press |
| --- | --- |
| Stop an audio CD or a DVD. | fn+f10 |
| Play the previous track or section on an audio CD or a DVD. | fn+f11 |
| Play the next track or section on an audio CD or a DVD. | fn+12 |

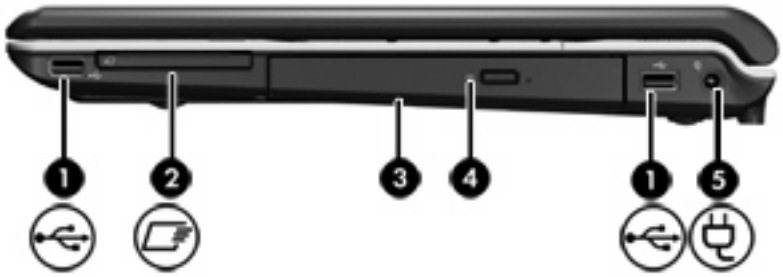
# Front components

| Component | | Description |
|---|---|---|
| **(1)** | Wireless switch | Turns the wireless feature on or off, but does not create a wireless connection.<br><br>**NOTE** A wireless network must be set up in order to establish a wireless connection. |
| **(2)** | Wireless light | Blue: An integrated wireless device, such as a wireless local area network (LAN) device and/or a Bluetooth® device, is turned on.<br><br>Amber: All wireless devices are turned off. |
| **(3)** | Consumer infrared lens | Receives a signal from the HP Remote Control. |
| **(4)** | Audio-in (microphone) jack | Connects an optional computer headset microphone, stereo array microphone, or monaural microphone. |
| **(5)** | Audio-out (headphone) jack | Produces sound when connected to optional powered stereo speakers, headphones, ear buds, a headset, or television audio. |
| **(6)** | Audio-out (headphone) S/PDIF jack | Provides enhanced audio performance, including surround sound and other high-end audio output. |
| **(7)** | Display release latch | Opens the computer. |

# Rear components

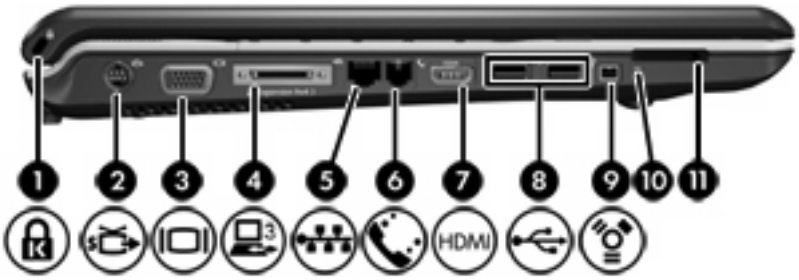
| Component | Description |
|---|---|
| Vent | Enables airflow to cool internal components.<br><br>**CAUTION** To prevent overheating, do not obstruct vents. Use the computer only on a hard, flat surface. Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or thick rugs or clothing, to block airflow.<br><br>**NOTE** The computer fan starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation. |

# Right-side components



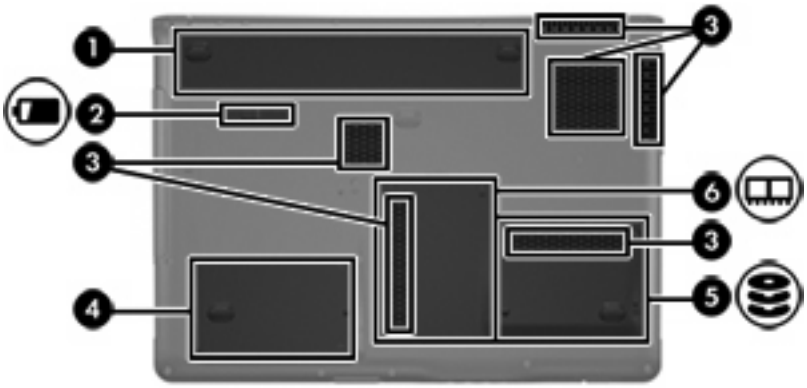

| Component | | Description |
|---|---|---|
| **(1)** | USB ports (2) | Connect optional USB devices. |
| **(2)** | ExpressCard slot | Supports optional ExpressCard/54 cards. |
| **(3)** | Optical drive | Reads an optical disc. |
| **(4)** | Optical drive light | Blinking: The optical drive is being accessed. |
| **(5)** | Power connector | Connects an AC adapter. |

# Left-side components



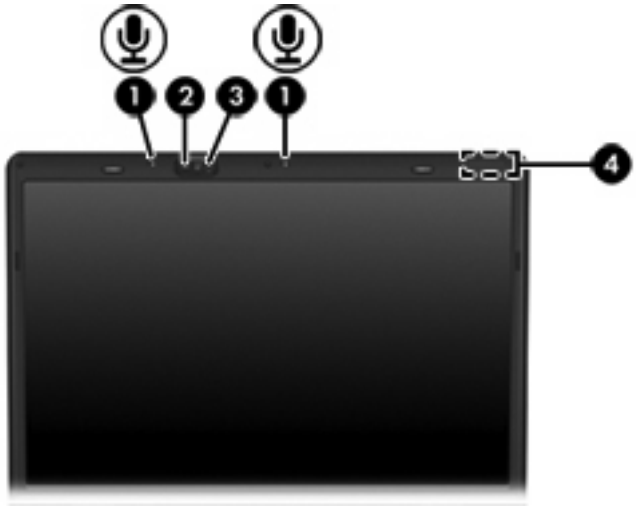

| Component | | Description |
|---|---|---|
| **(1)** | Security cable slot | Attaches an optional security cable to the computer.<br><br>**NOTE** The security cable is designed to act as a deterrent, but may not prevent the computer from being mishandled or stolen. |
| **(2)** | S-Video-out jack | Connects an optional S-Video device such as a television, VCR, camcorder, overhead projector, or video capture card. |
| **(3)** | External monitor port | Connects an external VGA monitor or projector. |
| **(4)** | Expansion port 3 | Connects the computer to an optional expansion product.<br><br>**NOTE** The computer has only one expansion port. The term *expansion port 3* describes the type of expansion port. |
| **(5)** | RJ-45 (network) jack | Connects a network cable.<br><br>**NOTE** The RJ-45 (network) jack provides Gigabit Ethernet functionality. |
| **(6)** | RJ-11 (modem) jack | Connects a modem cable. |
| **(7)** | HDMI port (select models only) | Connects an optional video or audio device such as a high-definition television, set-top box, DVD player, or any compatible digital or audio component. |
| **(8)** | USB ports (2) | Connect optional USB devices. |
| **(9)** | 1394 port | Connects an optional IEEE 1394 or 1394a device, such as a camcorder. |
| **(10)** | Digital Media Slot light | On: A digital card is being accessed. |
| **(11)** | Digital Media Slot | Supports the following optional digital card formats: Secure Digital (SD) Memory Card, MultiMediaCard (MMC), Secure Digital Input/Output (SD I/O), Memory Stick (MS), Memory Stick Pro (MSP), xD-Picture Card (XD), xD-Picture Card (XD) Type M. |

# Bottom components




| Component | | Description |
|---|---|---|
| **(1)** | Battery bay | Holds the battery. |
| **(2)** | Battery release latch | Releases the battery from the battery bay. |
| **(3)** | Vents (6) | Enable airflow to cool internal components.<br><br>**CAUTION** To prevent overheating, do not obstruct vents. Use the computer only on a hard, flat surface. Do not allow another hard surface, such as an adjoining optional printer, or a soft surface, such as pillows or thick rugs or clothing, to block airflow.<br><br>**NOTE** The computer fan starts up automatically to cool internal components and prevent overheating. It is normal for the internal fan to cycle on and off during routine operation. |
| **(4)** | Secondary hard drive bay | Holds an optional secondary hard drive. |
| **(5)** | Primary hard drive bay | Holds the primary hard drive. |
| **(6)** | Memory module compartment | Contains the memory module slots. |

# Display components




| Component | | Description |
|---|---|---|
| **(1)** | Internal microphones (2) (select models only) | Record sound.<br><br>**NOTE** A microphone icon next to each microphone opening indicates that the computer has internal microphones. |
| **(2)** | Integrated camera light (select models only) | On: The integrated camera is in use. |
| **(3)** | Integrated camera (select models only) | Records video and captures still photos. |
| **(4)** | Internal display switch | Turns off the display and initiates standby if the display is closed while the power is on. |

# Wireless antennae (select models only)

On select computer models, at least 2 antennae send and receive signals from one or more wireless devices. These antennae are not visible from the outside of the computer.

To see wireless regulatory notices, refer to your region's section of the *Regulatory, Safety and Environmental Notices* located in the Help and Support Center.

**NOTE** For optimal transmission, keep the areas immediately around the antennae free from obstructions.

# Additional hardware components

| Component | | Description |
|---|---|---|
| **(1)** | Power cord* | Connects an AC adapter to an AC outlet. |
| **(2)** | AC adapter | Converts AC power to DC power. |
| **(3)** | Battery* | Powers the computer when the computer is not plugged into external power. |
| **(4)** | Modem cable (select models only)* | Connects the internal modem to an RJ-11 telephone jack or to a country-specific modem adapter. |
| **(5)** | Country-specific modem cable adapter (select models only) | Adapts the modem cable to a non-RJ-11 telephone jack. |

*Modem cables, batteries, and power cords vary in appearance by region and country.

# Labels

The labels affixed to the computer provide information you may need when you troubleshoot system problems or travel internationally with the computer.

- Service tag—Provides the product brand and series name, serial number (s/n), and product number (p/n) of your computer. Have this information available when you contact Customer Care. The service tag label is affixed to the bottom of the computer.
- Microsoft Certificate of Authenticity—Contains the Microsoft® Windows® Product Key. You may need the Product Key to update or troubleshoot the operating system. This certificate is affixed to the bottom of the computer.
- Regulatory label—Provides regulatory information about the computer. The regulatory label is affixed to the bottom of the computer.
- Modem approval label—Provides regulatory information about the modem and lists the agency approval markings required by some of the countries in which the modem has been approved for use. You may need this information when traveling internationally. The modem approval label is affixed inside the hard drive bay.
- Wireless certification label(s) (select models only)—Provide information about optional wireless devices and the approval markings of some of the countries in which the devices have been approved for use. An optional device may be a wireless local area network (WLAN) device or an optional Bluetooth® device. If your computer model includes one or more wireless devices, one or more certification labels are included with your computer. You may need this information when traveling internationally. Wireless certification labels are affixed inside the memory module compartment.

# 2 Specifications

## Operating environment

The operating environment information in the following table may be helpful if you plan to use or transport the computer in extreme environments.

| Factor | Metric | U.S. |
|---|---|---|
| **Temperature** | | |
| Operating | 5°C to 35°C | 41°F to 95°F |
| Nonoperating | -20°C to 60°C | -4°F to 140°F |
| **Relative humidity (noncondensing)** | | |
| Operating | 10% to 90% | 10% to 90% |
| Nonoperating | 5% to 95% | 5% to 95% |
| **Maximum altitude (unpressurized)** | | |
| Operating (14.7 to 10.1 psia*) | -15 m to 3,048 m | -50 ft to 10,000 ft |
| Nonoperating (14.7 to 4.4 psia*) | -15 m to 12,192 m | -50 ft to 40,000 ft |

*Pounds per square inch absolute (psia) is another unit of measurement for altitude.

# Rated input power

The power information in this section may be helpful if you plan to travel internationally with your computer.

The computer operates on DC power, which can be supplied by an AC or a DC power source. Although the computer can be powered from a stand-alone DC power source, it should be powered only with an AC adapter or a DC power source supplied and approved by HP for the computer.

The computer is capable of accepting DC power within the following specifications.

| Input power | Rating |
|---|---|
| Operating voltage | 19.0 V dc |
| Operating current | 4.74 A |

This product is designed for IT power systems in Norway with phase-to-phase voltage not exceeding 240 V rms.

# Expansion port input/output signals

The signal information in this section may be helpful if you plan to use an optional expansion product that connects to the expansion port 3 on the computer. (The computer has only one expansion port. The term expansion port 3 describes the type of expansion port.)

The following table identifies the input and output signals supported by the expansion port 3 on the computer.

| Feature | Suport |
|---|---|
| USB 2.0 | Yes |
| Gigabit Ethernet | Yes |
| IEEE 1394 (4–pin port) | No |
| Consumer infrared (for optional remote control only) | Yes |
| Power inputs | 65-W to 90-W maximum |
| Composite TV | Yes |
| S-Video TV | Yes |
| Component TV | Yes |
| S/PDIF audio | Yes |
| DVI | No |
| Headphone/speaker audio-out | Yes |
| Microphone audio-in | Yes |
| VGA | Yes |
| Power button | Yes |
| Volume control (up/down) | Yes |
| Mute/unmute status | Yes |

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