
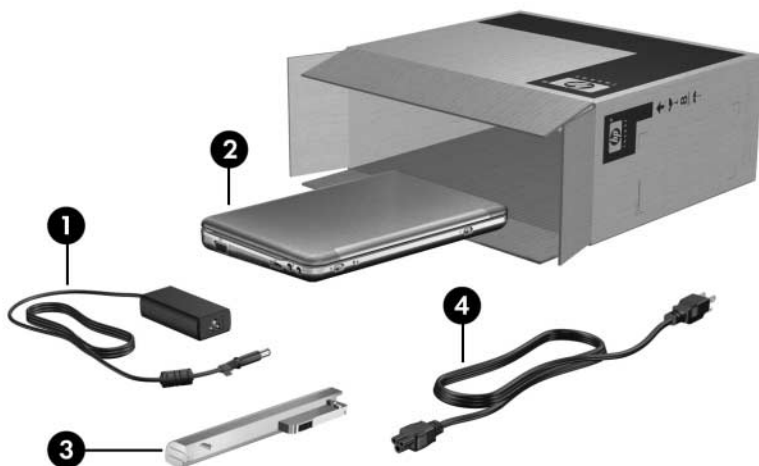



# Basic Setup

## 1 Unpack the box

 Computer color, features, and options may vary.



Component		Component	
❶	AC adapter	❸	Primary battery
❷	Computer	❹	Power cord
 Batteries and power cords vary in appearance by region and country.			

## 2 Insert the battery



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**WARNING:** To reduce potential safety issues, use only the AC adapter or battery provided with the computer, a replacement AC adapter or battery provided by HP, or a compatible AC adapter or battery purchased as an accessory from HP.

## 3 Connect the computer to external power




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**WARNING:** To reduce the risk of electric shock or damage to your equipment, observe these practices:

- Plug the power cord into an AC outlet that is easily accessible at all times.
  - Disconnect power from the computer by unplugging the power cord from the AC outlet (not by unplugging the power cord from the computer).
  - If provided with a 3-pin attachment plug on your power cord, plug the cord into a grounded (earthed) 3-pin outlet. Do not disable the power cord grounding pin, for example, by attaching a 2-pin adapter. The grounding pin is an important safety feature.
-

Leave the computer connected to external power until the battery is fully charged and the battery light turns off.


 A partially charged new battery can run the computer after software setup is complete, but battery charge displays will not be accurate until the new battery has been fully charged. The battery light (on the right side of the computer) remains on when it is charging.

## 4 Open the computer



## 5 Turn on the computer



 If the computer will not start up, be sure that the power cord and AC adapter connections are secure.

## 6 Set up the software

After the computer is turned on, the software setup process begins. The on-screen instructions guide you through setting up and registering your computer and operating system. After you respond to the setup prompt, you must complete the entire setup process without interruption. Please select your language carefully.



Registering your operating system will give you access to operating system and other software updates, and is highly recommended.

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# What's Next?

## Locating the electronic manuals

For detailed information about your computer, such as power management, drives, memory, and other features, refer to the *User Guides* disc that is included with this computer.

## Finding more information

For country- or region-specific support, go to <http://www.hp.com/support>, select your country or region, and follow the on-screen instructions.



**WARNING:** To reduce the risk of serious injury, read the *Safety & Comfort Guide*. It describes proper workstation setup and proper posture, health, and work habits for computer users. The *Safety & Comfort Guide* also provides important electrical and mechanical safety information. To access this document, refer to the *User Guides* disc included with this computer. The *Safety & Comfort Guide* is also available on the Web at <http://www.hp.com/ergo>.

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For more safety and regulatory information, and for battery disposal information, refer to the *Regulatory, Safety and Environmental Notices* located on the *User Guides* disc included with this computer.

## Turning off the computer

1. Save your work and close all programs.
2. Click **Computer**, click **Shutdown**, and then click **Shutdown**.




# Product Information and Troubleshooting

## Important display information

All HP notebook display panels adhere to strict quality and reliability specifications. A small percentage of display panels may have minor cosmetic imperfections that appear as bright or dark dots (described below) in the viewable area:

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 This is consistent with industry standards and common to all display panel types used by notebook PC vendors and is not specific to any HP model or product line.

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- A pixel consists of 1 red, 1 green, and 1 blue subpixel, each of which is commonly referred to as a dot.
- A pixel imperfection may manifest as either always turned on (a bright spot on a dark background) or as always off (a dark spot on a bright background).
- A subpixel imperfection is less visible than a whole pixel imperfection because it is small and may be visible only on a specific background.

HP expects that, over time, the industry will continue to improve its ability to produce displays with fewer cosmetic imperfections, and HP will adjust guidelines as improvements are made.

For more information about the display panel on your notebook PC, go to the following HP Web site: <http://www.hp.com/support>.

## Input power

The power information in this section may be helpful if you plan to travel internationally with the 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 standalone DC power source, it should be powered only with an AC adapter or a DC power source supplied and approved by HP for use with this computer.

The computer can operate on DC power within the following specifications.

Input power	Rating
Operating voltage	18.5 V dc @ 3.5 A - 65 W
Operating current	3.5 A

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

# 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.
<b>Temperature</b>		
Operating (not writing to optical disc)	0°C to 35°C	32°F to 95°F
Operating (writing to optical disc)	5°C to 35°C	41°F to 95°F
Nonoperating	-20°C to 60°C	-4°F to 140°F
<b>Relative humidity (noncondensing)</b>		
Operating	10% to 90%	10% to 90%
Nonoperating	5% to 95%	5% to 95%
<b>Maximum altitude (unpressurized)</b>		
Operating	-15 m to 3,048 m	-50 ft to 10,000 ft
Nonoperating	-15 m to 12,192 m	-50 ft to 40,000 ft

# Traveling with the computer


The computer is built to go with you for work and play. For best results, follow these traveling and shipping tips.

- Prepare the computer for traveling or shipping:
  1. Back up your information.
  2. Remove all external media cards, such as digital cards and ExpressCards.


 To reduce the risk of damage to the computer, damage to a drive, or loss of information, remove the media from a drive before disconnecting the drive from the computer, and before shipping, storing, or traveling with a drive.
  3. Turn off and then disconnect all external devices.
  4. Shut down the computer.
- Take along a backup of your information. Keep the backup separate from the computer.
- When traveling by air, carry the computer as hand luggage, and do not check it in with the rest of your bags.



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 **CAUTION:** Avoid exposing a drive to magnetic fields. Security devices with magnetic fields include airport walk-through devices and security wands. The airport security devices that check carry-on luggage, such as conveyor belts, use X-rays instead of magnetism and will not damage a drive.


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- In-flight computer use is at the discretion of the airline. If you plan to use the computer during a flight, check with the airline in advance.
  - If the computer will be unused and disconnected from external power for more than 2 weeks, remove the battery and store it separately.
  - If you are shipping the computer or a drive, use suitable protective packaging and label the package “FRAGILE.”
  - If the computer has a wireless device or a cell phone device installed, such as an 802.11b/g, a Global System for Mobile Communications (GSM), or a General Packet Radio Service (GPRS) device, the use of these devices may be restricted in some environments. Such restrictions may apply onboard aircraft, in hospitals, near explosives, and in hazardous locations. If you are uncertain of the policy that applies to the use of a particular device, ask for authorization to use it before you turn it on.
  - If you are traveling internationally, follow these suggestions:
    - ☐ Check the computer-related customs regulations for each country on your itinerary.
    - ☐ Check the power cord and adapter requirements for each location in which you plan to use the computer. Voltage, frequency, and plug configurations vary.
-  To reduce the risk of electric shock, fire, or damage to the equipment, do not attempt to power the computer with a voltage converter kit sold for appliances.

## Routine Care

### Cleaning the display

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 **CAUTION:** To prevent permanent damage to the computer, never spray water, cleaning fluids, or chemicals on the display.

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To remove smudges and lint, frequently clean the display with a soft, damp, lint-free cloth. If the screen requires additional cleaning, use premoistened antistatic wipes or an antistatic screen cleaner.

### Cleaning the keyboard

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 **WARNING:** To reduce the risk of electric shock or damage to internal components, do not use a vacuum cleaner attachment to clean the keyboard. A vacuum cleaner can deposit household debris on the keyboard surface.

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Clean the keyboard regularly to prevent keys from sticking and to remove dust, lint, and particles that can become trapped beneath the keys. A can of compressed air with a straw extension can be used to blow air around and under the keys to loosen and remove debris.

## Troubleshooting resources

If you experience computer problems, perform these troubleshooting steps in the order provided until the problem is resolved:

1. Refer to “Quick troubleshooting,” the next section in this chapter.
2. Access Web site links and additional information about the computer through Help and Support. Click **Computer**, and then click **Help and Support**.
3. Contact technical support:
  - a. Open your Web browser and click **Computer**.
  - b. Click **Help and Support**, and then click **Contact support** to start a chat session with a support specialist.

– or –


Refer to the *Worldwide Telephone Numbers* booklet included with the computer to contact technical support.

## Quick troubleshooting

### The computer is unable to start up

If the computer does not turn on when you press the power switch, adequate power may not be available to the computer.

The following suggestions may help you determine why the computer will not start up:

- If the computer is plugged into an AC outlet, plug another electrical device into the outlet to be sure that the outlet is providing adequate power.
  -  Use only the AC adapter provided with the computer or one approved by HP for this computer.
- If the computer is running on battery power or is plugged into an external power source other than an AC outlet, plug the computer into an AC outlet using the AC adapter. Be sure that the power cord and AC adapter connections are secure.

### The computer screen is blank

If the screen is blank, the computer may not be set to display the image on the computer screen. To transfer the image to the computer screen, press **fn+f4**.

### Software is functioning abnormally

Follow these suggestions if the software becomes unresponsive or responds abnormally:

- Restart the computer. Click **Computer**, click **Shutdown**, and then click **Restart**.

If you cannot restart the computer using this procedure, refer to the next section, “The computer is on but is not responding.”
- If you have antivirus software installed on your computer, run the virus scan. Refer to the antivirus software Help for more details.

## The computer is on but is not responding

If the computer is on but is not responding to software or keyboard commands, try the following emergency shutdown procedures in the sequence provided, until shutdown occurs:



**CAUTION:** Emergency shutdown procedures will result in the loss of unsaved information.

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1. Press and hold the power switch on the computer for at least 5 seconds.
2. Disconnect the computer from external power and remove the battery.

## The computer is unusually warm

It is normal for the computer to feel warm to the touch while it is in use. But if the computer feels unusually warm, it may be overheating because a vent is blocked.

If you suspect that the computer is overheating, turn off the computer to allow the computer to cool to room temperature. Then be sure to keep all vents free from obstructions while you are using the computer.



**WARNING:** To reduce the possibility of heat-related injuries or of overheating the computer, do not place the computer directly on your lap or obstruct the computer air 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 rugs or clothing, to block airflow. Also, do not allow the AC adapter to contact the skin or a soft surface, such as pillows or rugs or clothing, during operation. The computer and the AC adapter comply with the user-accessible surface temperature limits defined by the International Standard for Safety of Information Technology Equipment (IEC 60950).

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The fan in the computer 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.

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## An external device is not working

Follow these suggestions if an external device does not function as expected:

- Turn on the device according to the manufacturer's instructions.
- Be sure that all device connections are secure.
- Be sure that the device is receiving electrical power.
- Be sure that the device is properly connected. Click **Computer**, click **View**, and then look under Status for a list of connected external devices.
- Be sure that the device, especially if it is older, is compatible with the operating system.
- Be sure that the correct drivers are installed and updated.

## **The WLAN connection is not working**

If a WLAN connection is not working as expected, follow these suggestions:

- Be sure that the wireless light on the computer is on.
- Be sure that the computer wireless antennae are free from obstructions.
- Be sure that the DSL or the cable modem and its power cord are properly connected and that the power lights are on.
- If applicable, be sure that the wireless router (access point) is on and properly connected to the DSL or the cable modem.
- Disconnect and then reconnect all cables, and turn the power off and then back on.



For more information on wireless technology, refer to the relevant help topics and Web site links in Help and Support.

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