

# User Guide



Lenovo

Lenovo Chromebook Duet (11", 9), Lenovo Chromebook Duet EDU  
G2



## Read this first

Before using this documentation and the product it supports, ensure that you read and understand the following:

- *Safety and Warranty Guide*
- *Setup Guide*
- [Generic Safety and Compliance Notices](#)

**Second Edition (June 2025)**

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## Discover your Chromebook

**Thank you for choosing a Lenovo® Chromebook™! We are dedicated to delivering the best solution to you.**

Before starting your tour, please read the following information:

- This guide applies to Lenovo product models listed below. Illustrations in this guide may look slightly different from your product model.

Model name	Machine type (MT)
LNV CB Duet 11M889	83HH
LNV CB Duet 11M889 1	
LNV CB Duet 11M889 2	
LNV Chrome Duet EDU G2	83HJ, 83HK
LNV Chrome Duet EDU G2 1	
LNV Chrome Duet EDU G2 2	

- For further compliance information, refer to the *Generic Safety and Compliance Notices* at [https://pcsupport.lenovo.com/docs/generic\\_notices](https://pcsupport.lenovo.com/docs/generic_notices).
- Depending on the model, some optional accessories, features, software programs, and user interface instructions might not be applicable to your Chromebook.
- Documentation content is subject to change without notice. To get the latest documentation, go to <https://pcsupport.lenovo.com>.

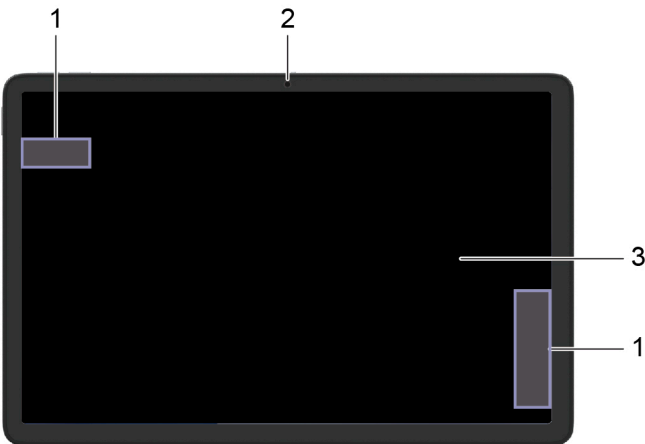


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# Chapter 1. Meet your Chromebook

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## Front



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1. Wireless antennas	Send and receive radio waves for the built-in wireless local area network (LAN) and Bluetooth module. <b>Note:</b> The antennas are not visible from the outside of the Chromebook.
2. Front camera	Capture still and moving images for taking photos, recording videos, and video chatting.
3. Screen	Display text, graphics, and videos. Support multi-touch function.

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# Rear



Figure 1. LNV CB Duet 11M889



Figure 2. LNV Chrome Duet EDU G2



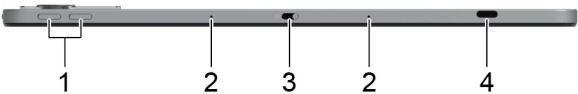
Figure 3. Lenovo USI Pen 2 Magnetic

1. Rear camera	Capture still and moving images for taking photos, recording videos, and video chatting.
2. Kickstand	Support your Chromebook when it is placed on a surface.
3. Kickstand hinge	Pivot the kickstand.
4. Lenovo USI Pen 2 Magnetic	The pen enables you to write and draw in a natural manner.

\* for selected models

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# Top



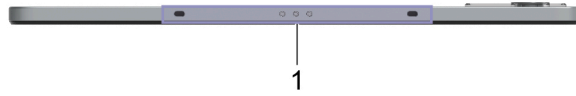
1. Volume buttons	Press the buttons to increase or decrease the system volume.
2. Microphones	Capture or record sound and voice.
3. Camera cover	Cover or uncover the camera lens. <b>Note:</b> The camera cover helps you better protect your privacy.
4. Multi-purpose USB Type-C® connector	This multi-purpose connector can be used to connect devices that utilize the USB data transfer technology and display devices. It also supports USB Power Delivery. <b>Note:</b> When connecting display devices, you need to use appropriate cables and adapters (if needed) according to the connection capabilities of the display device.

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## Bottom



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1. Pogo pin with guide pin

The pogo pin with guide pin enables you to attach the keyboard to your Chromebook magnetically.


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## Left



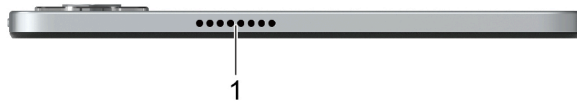
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1. Multi-purpose USB Type-C connector	<p>This multi-purpose connector can be used to connect devices that utilize the USB data transfer technology and display devices. It also supports USB Power Delivery.</p> <p><b>Note:</b> When connecting display devices, you need to use appropriate cables and adapters (if needed) according to the connection capabilities of the display device.</p>
2. Charging light	<p>Indicate the ac power status and the battery status. See “Charge your Chromebook” on page 11.</p>
3. Combo audio jack	<p>Connect headphones or headsets with a 3.5 mm (0.14 inch), 4-pole plug.</p> <p><b>Note:</b> This jack does not support standalone external microphones. If you use headsets, choose one with a single plug.</p>
4. Speaker	<p>Produce sound.</p>
5. Power button	<p>Press the button to turn on the Chromebook or put the Chromebook into sleep mode.</p> <p><b>Notes:</b> When you finish working with your Chromebook, shut it down to save power.</p> <ul style="list-style-type: none"><li>• Click  in the system tray.</li><li>• Press and hold the power button until the pop-up window appears and then click <b>Shut down</b>.</li></ul>

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**Right**



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1. Speaker

Produce sound.

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## Folio keyboard (for selected models)



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1. Pogo pin with guide pin	The pogo pin with guide pin enables you to attach the keyboard to your Chromebook magnetically.
2. Keyboard	Enter characters and interact with programs. <b>Note:</b> The keyboard also includes function keys and key combinations for changing settings and performing tasks quickly.
3. Touchpad	Perform finger touch and all the functions of a traditional mouse. <b>Note:</b> The touchpad also supports multi-touch function.

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## Features and specifications

**Note:** Specifications might change without notice. Some specifications are model-specific and might not apply to the Chromebook model that you purchased.

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Dimensions	<ul style="list-style-type: none"><li>• Tablet:<ul style="list-style-type: none"><li>– Width: 255.3 mm (10.05 inches)</li><li>– Depth: 166.92 mm (6.57 inches)</li><li>– Thickness: 7.6 mm (0.30 inches)</li></ul></li><li>• Folio keyboard*:<ul style="list-style-type: none"><li>– Width: 255.62 mm (10.06 inches)</li><li>– Depth: 167.17 mm (6.58 inches)</li><li>– Thickness: 6.7 mm (0.26 inches)</li></ul></li><li>• Kickstand:<ul style="list-style-type: none"><li>– LNV CB Duet 11M889*:<ul style="list-style-type: none"><li>– Width: 255.37 mm (10.05 inches)</li><li>– Depth: 166.92 mm (6.57 inches)</li><li>– Thickness: 3.2 mm (0.13 inches)</li></ul></li><li>– LNV Chrome Duet EDU G2:<ul style="list-style-type: none"><li>– Width: 273.92 mm (10.78 inches)</li><li>– Depth: 173.72 mm (6.84 inches)</li><li>– Thickness: 14.35 mm (0.56 inches)</li></ul></li></ul></li></ul>
Weight	<ul style="list-style-type: none"><li>• Tablet: approximately 0.51 kg (1.12 lb)</li><li>• Folio keyboard*: approximately 0.295 kg (0.65 lb)</li><li>• Kickstand:<ul style="list-style-type: none"><li>– LNV CB Duet 11M889*: approximately 0.159 kg (0.35 lb)</li><li>– LNV Chrome Duet EDU G2: approximately 0.295 kg (0.65 lb)</li></ul></li></ul>
ac power adapter	<ul style="list-style-type: none"><li>• Input: 100 V ac–240 V ac, 50 Hz–60 Hz</li><li>• Output:<ul style="list-style-type: none"><li>– 10 V dc, 3 A, or</li><li>– 15 V dc, 3 A</li></ul></li><li>• Power:<ul style="list-style-type: none"><li>– 30 W, or</li><li>– 45 W</li></ul></li></ul>
Battery pack	<ul style="list-style-type: none"><li>• Capacity: 29 Wh</li><li>• Number of cells: 2</li></ul> <p><b>Note:</b> The battery capacity is the typical or average capacity as measured in a specific test environment. Capacities measured in other environments may differ but are no lower than the rated capacity (see product label).</p>

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Memory	<ul style="list-style-type: none"> <li>• Type: On-board Low Power Double Data Rate 4X (LPDDR4X)</li> <li>• Capacity: <ul style="list-style-type: none"> <li>– 4 G, or</li> <li>– 8 G</li> </ul> </li> <li>• Number of physical slots: 0</li> </ul>
Secondary storage device	<ul style="list-style-type: none"> <li>• Type: Solid-state drive (SSD)</li> <li>• Capacity: <ul style="list-style-type: none"> <li>– 64 G, or</li> <li>– 128 G</li> </ul> </li> </ul> <p><b>Note:</b> The capacity of the storage device displayed in the operating system is typically lower than the nominal capacity.</p>
Screen	<ul style="list-style-type: none"> <li>• Multi-touch screen</li> <li>• Display resolution: 1200 × 1920 pixels</li> <li>• Size: 278.1 mm (10.95 inches)</li> </ul>
Connectors and slots	<ul style="list-style-type: none"> <li>• Audio connector</li> <li>• Multi-purpose USB Type-C connector × 2 <ul style="list-style-type: none"> <li>– Support power input up to 30 W/45 W using the included power adapter</li> <li>– Support power output up to <ul style="list-style-type: none"> <li>– 15 W (5 V, 3 A) (One USB Type-C connector is working.)</li> <li>– 7.5 W (5 V, 1.5 A) (Both USB Type-C connectors are working.)</li> </ul> </li> <li>– Support USB 3.2 Gen 1</li> <li>– Support maximum signaling rate of 5 Gbps</li> <li>– Support USB Power Delivery</li> <li>– Support DisplayPort™ Alt Mode (DisplayPort 1.2 compliant. Support maximum output resolution of 3840 × 2160, at 60 Hz frame rate and color depth of 8 bits.)</li> </ul> </li> </ul> <p><b>Note:</b> Data rates and performance ratings are dependent on connected devices and cables if they are used. For DisplayPort connection through a USB Type-C connector, the listed maximum output capacity is only available on external displays with a DisplayPort, a Mini DisplayPort, or a USB Type-C connector that supports DisplayPort Alternate Mode. For connections using a converter or an adapter, the actual output resolution may be lower.</p>
Network	Bluetooth and Wi-Fi® combo adapter

\* for selected models

## Statement on USB transfer rate

Depending on many factors such as the processing capability of the host and peripheral devices, file attributes, and other factors related to system configuration and operating environments, the actual transfer rate using the various USB connectors on this device will vary and will be slower than the data rate listed below for each corresponding device.

USB device	Data rate (Gbit/s)
USB 3.2 Gen 1	5



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## Operating environment

### Maximum altitude (without pressurization)

3048 m (10 000 ft)

### Temperature

- Operating: 5°C to 35°C (41°F to 95°F)
- Storage: 5°C to 43°C (41°F to 109°F)

**Note:** When you charge the battery, its temperature must be no lower than 10°C (50°F).

### Relative humidity

- Operating: 8% to 95% at wet-bulb temperature 23°C (73°F)
- Storage: 5% to 95% at wet-bulb temperature 27°C (81°F)

The folio keyboard bottom cover and kickstand cover are polyurethane (PU). Handle your keyboard and kickstand cover with care so that you can enjoy this product for a long time. If possible, place your Chromebook in a well-ventilated and dry area without direct exposure to sunshine. Do not use or store your Chromebook in dusty, dirty areas, or extremely hot or cold areas.

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## Chapter 2. Get started with your Chromebook

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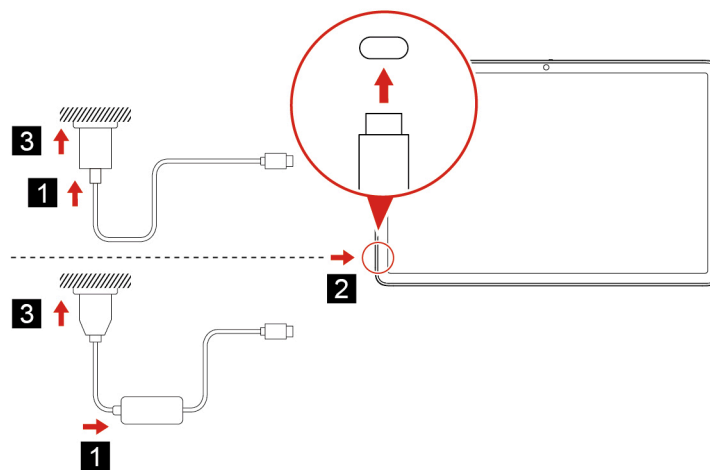
### Charge your Chromebook

The USB Type-C connector on your Chromebook works as the power connector. Plug in the ac power adapter to charge the built-in battery pack and provide power to the Chromebook.

#### Connect to ac power

##### CAUTION:

All plugs must be firmly and securely inserted into receptacles.



1. Connect the power cord to the ac power adapter.
2. Plug the power adapter into the USB Type-C connector of the Chromebook.
3. Plug the power cord into an electrical outlet.

#### AC power status indicator behavior

The ac power status indicator is next to the USB Type-C connector. The following table shows the indicator behaviors and the indicated power and battery status.

AC power status indicator	Power status	Battery status
on (red)	plugged in	being charged, remaining power is less than 5%
on (amber)	plugged in	being charged, remaining power is between 5% and 97%
on (green)	plugged in	fully charged (97% to 100%)
off	unplugged	discharging

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### Connect to Wi-Fi

To connect your Chromebook to Wi-Fi:

1. Click your system tray.
2. Click the network icon and turn on the wireless feature.
3. Select an available network to connect. Provide required information if needed.

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## Combination of Chromebook and folio keyboard (for selected models)

Align the connector of the keyboard with the Chromebook and then attach the Chromebook in the direction shown by the arrow.



**Note:** The pogo bar separates when the folio keyboard is flipped to the rear of the Chromebook.

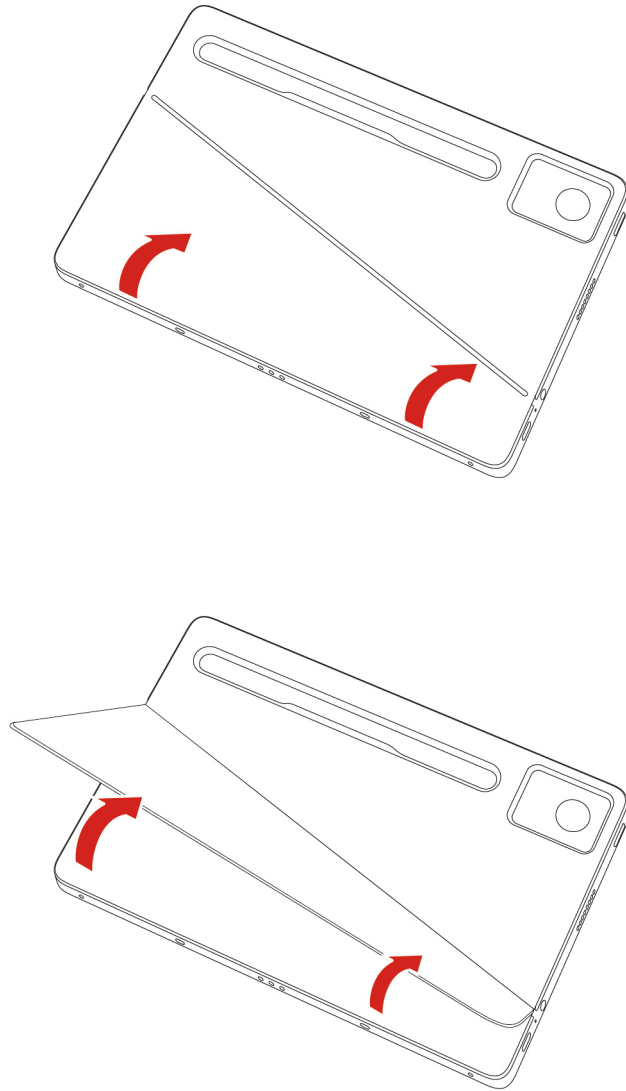
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## Use the kickstand (for selected models)

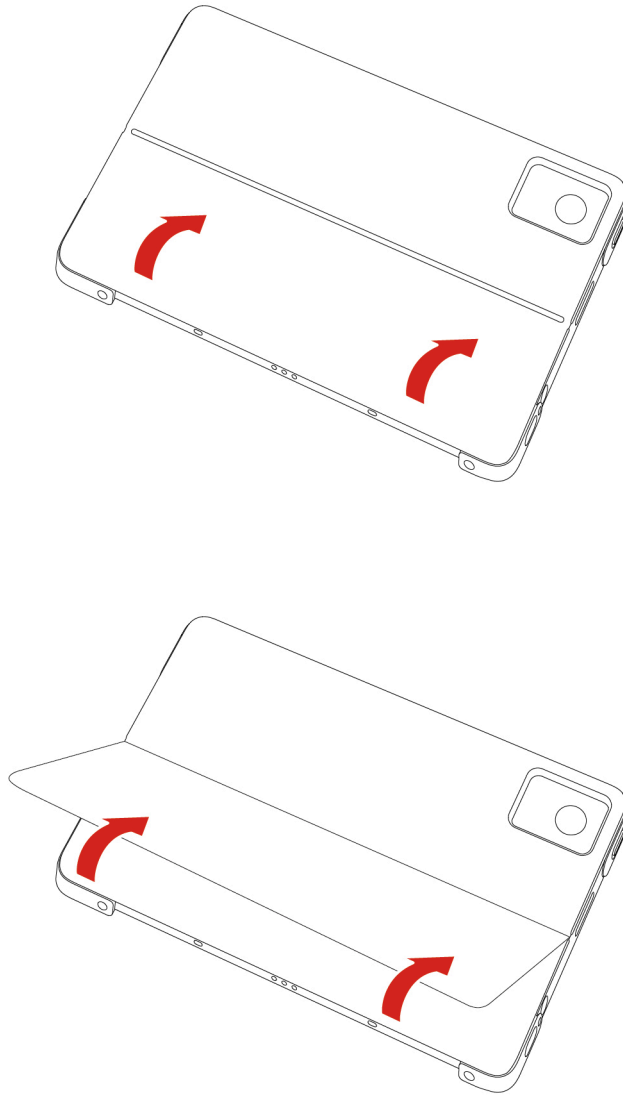
Your Chromebook has a stand cover that is built in with a kickstand. Pivot the kickstand from the pits on both sides of the Chromebook to open position as shown.



**LVN CB Duet 11M889**

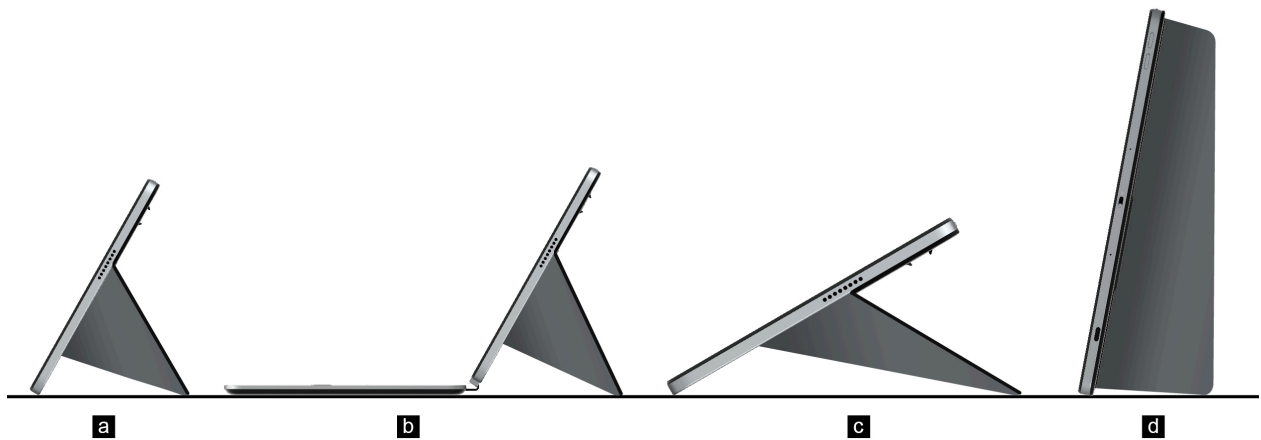


## LNV Chrome Duet EDU G2

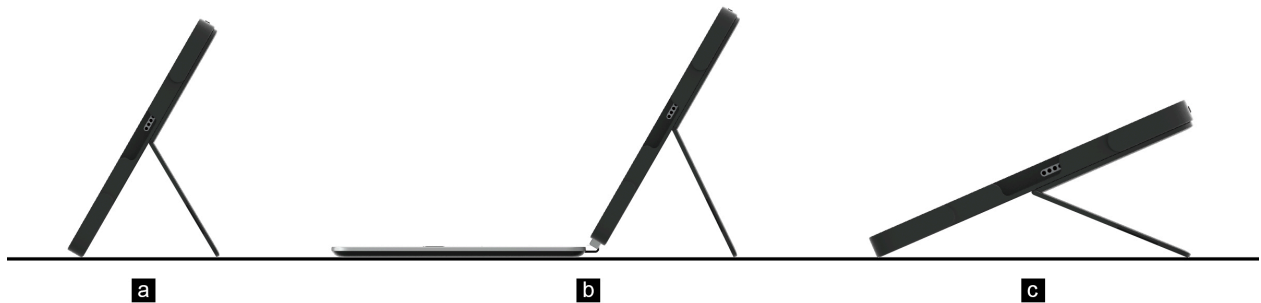


With the kickstand open, you can use the Chromebook in the following modes:

- LNV CB Duet 11M889:
  - a** Landscape mode without folio keyboard attached
  - b** Landscape mode with folio keyboard attached
  - c** Stylus mode
  - d** Portrait mode without folio keyboard attached



- LNV Chrome Duet EDU G2:
  - a** Landscape mode without folio keyboard attached
  - b** Landscape mode with folio keyboard attached
  - c** Stylus mode



The multi-positional kickstand enables you to set the Chromebook at different angles for a comfortable user experience. The recommended screen angles are:

- Landscape mode: About 120°
- Portrait mode: About 100° (for LNV CB Duet 11M889)

**Attention:** Using the kickstand at an improper angle or under the load may damage the kickstand.

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## Use the Lenovo USI Pen 2 Magnetic (for selected models)

Your Chromebook might come with a Lenovo USI Pen 2 Magnetic (referred to as the pen in this section). The pen enables you to write and draw in a natural manner.

### Notes:

- The pen is not waterproof. Take care not to drop the pen in water.
- The pen contains pressure sensors. Do not push the tip of the pen for an extended period of time. Do not subject the pen to shock or vibration.

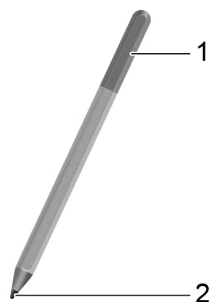
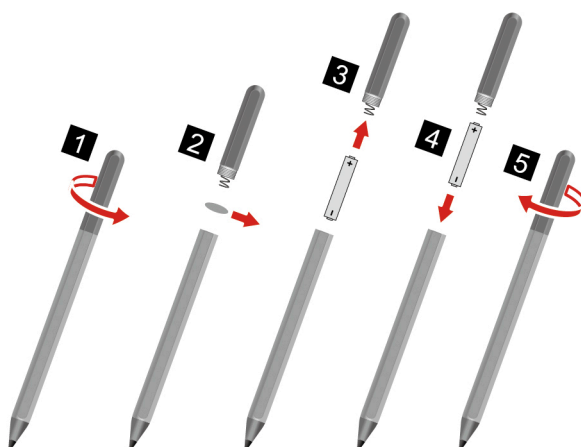


Figure 4. Pen overview

Name	Description
1. End cap	Unscrew the end cap to install or replace a battery.
2. Pen tip	To click, tap on the screen with the tip. To double-click, tap twice.

### Before first use

An insulation pad may be included in the Lenovo USI Pen 2 Magnetic to prevent capacity loss during shipping. The first time you use the pen, check and remove the insulation pad. (2)



### CAUTION:

The Lenovo USI Pen 2 Magnetic uses AAAA battery. Replace with the right battery.

## Use the touch screen

You can navigate the screen with simple touch gestures.

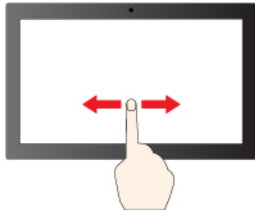
**Note:** Some gestures might not be available depending on the app you use.



Tap once to open an app or perform an action on an open app, such as **Copy**, **Save**, and **Delete**, depending on the app.



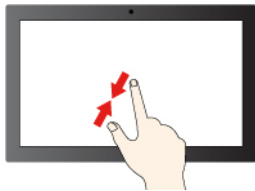
Tap and hold to right-click to open a shortcut menu.



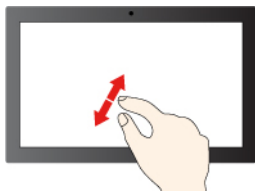
Slide to scroll through items.



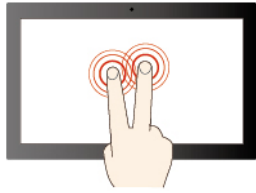
Drag.



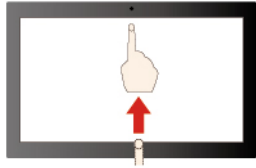
Zoom out.



Zoom in.



Tap with two fingers to open a shortcut menu.



Swipe upwards to unfold the app Launcher.

### Maintenance tips:




- Turn off the Chromebook before cleaning the multi-touch screen.
- Use a dry, soft, and lint-free cloth or a piece of absorbent cotton to remove fingerprints or dust from the multi-touch screen. Do not apply solvents to the cloth.
- The multi-touch screen is a glass panel covered with a plastic film. Do not apply pressure or place any metallic object on the screen, which might damage the touch panel or cause it to malfunction.
- Do not use fingernails, gloved fingers, or inanimate objects for input on the screen.
- Regularly calibrate the accuracy of the finger input to avoid a discrepancy.

## Use the keyboard shortcuts (for selected models)

The function keys on the keyboard help you work more easily and effectively.

	Go to the previous page
	Reload your current page
	Hide the tabs and the App Launcher in full-screen mode
	Show all windows in overview mode
	Decrease the brightness of the Chromebook screen
	Increase the brightness of the Chromebook screen
	Mute the microphone
	Mute the speakers
	Decrease the volume
	Increase the volume
	Lock the Chromebook screen

Your Chromebook also supports some key combinations.

ctrl + 	Take a screenshot
alt + 	Switch the Caps Lock function
 + l	Lock your Chromebook screen
ctrl + alt + ?	View all keyboard shortcuts

To change the keyboard settings:

1. Click the setting icon in the system tray, and then click **Device → Keyboard**.
2. Follow the on-screen instructions to change the settings as you prefer.

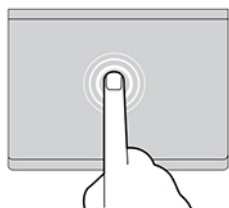
## Use the touchpad (for selected models)

The entire touchpad surface is sensitive to finger touch and movement. You can use the touchpad to perform all the pointing, clicking, and scrolling functions of a traditional mouse.

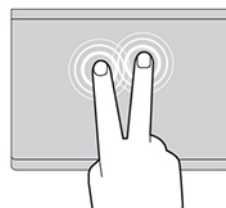
### Use the touch gestures

#### Notes:

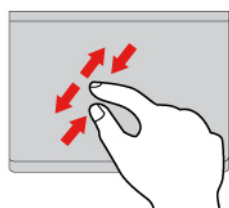
- When using two or more fingers, ensure that you position your fingers slightly apart.
- Some gestures are only available when you are using certain apps.
- If the touchpad surface is stained with oil, turn off the Chromebook first. Then, gently wipe the touchpad surface with a soft and lint-free cloth moistened with lukewarm water or Chromebook cleaner.



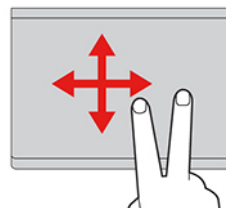
Tap once to select or open an item.



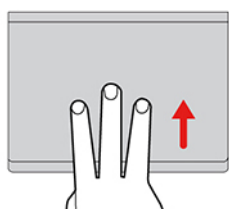
Tap twice quickly to display a shortcut menu.



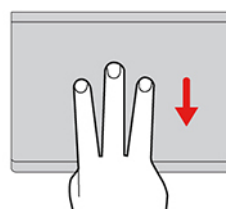
Two-finger zoom in or zoom out.



Scroll through items.



Open the task view.



Show the current window.

To change the settings:

1. Click the setting icon in the system tray, and then click **Device → Touchpad**.

2. Follow the on-screen instructions to change the settings as you prefer.

If **Enable tap-to-click** is turned on, you can tap or press the touchpad. Otherwise, you can only press the touchpad to achieve the clicking function of a traditional mouse.

---

## Use the camera

The built-in camera can be used for video calling or video conferencing. The indicator next to the camera turns on when the camera is activated.

To take photos with the camera:

1. Click the Launcher button.
2. Click **Camera** and take photos.

---

## Use audio

You can connect headphones or a headset with a 3.5-mm (0.14-inch), 4-pole plug to the audio connector to listen to the sound from your Chromebook.

To play a saved audio or video:

1. Click the Launcher button, and then select **Files**.
2. Double-click a file to open it in the media player.

To adjust the volume, click the system tray, and then adjust the volume as you prefer.

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## Connect to an external display

You can use the Chromebook's USB Type-C connectors to connect a projector or an external display.

1. Use a USB Type-C to USB Type-C cable (not supplied) to connect your Chromebook to an external display.

**Note:** If the external display does not support input through USB Type-C connector, you may need to purchase and use adapters. Lenovo provides various USB Type-C accessories at <https://www.lenovo.com/accessories>, to help you expand your Chromebook functionality.

2. Connect the external display to an electrical outlet.
3. Turn on the external display.

To change display settings:

1. Click your system tray, and then click **Settings**.
2. In the **Device** section, click **Displays**.
3. Follow the on-screen instructions to change the display settings as you desire.

---

## Connect to Bluetooth devices

Your Chromebook supports Bluetooth feature. You can connect your Chromebook to a Bluetooth keyboard, mouse, speakers, or other Bluetooth devices.

**Note:** The Bluetooth devices must be within a short distance, usually 10 meters (33 feet), from the Chromebook.

1. Click your system tray, and then click the Bluetooth icon.



2. Turn on **Bluetooth**.
3. Select the device you want to pair and follow the on-screen instructions.

---

## Set the power plan

For ENERGY STAR® compliant Chromebooks, the following power plan takes effect when your Chromebooks have been idle for a specified duration:

*Table 1. Default power plan (when plugged into ac power)*

- |  |
|--|
| <ul style="list-style-type: none"><li>• Turn off the display: After seven minutes and 30 seconds</li><li>• Put the Chromebook into sleep: After eight minutes and 30 seconds</li></ul> |
|--|

To reset the power plan to achieve the best balance between performance and power saving:

1. Click the setting icon in the system tray, and then click **Device → Power**.
2. Follow the on-screen instructions to change the settings as you prefer.

To wake your Chromebooks from sleep mode, press the power button or any key on the keyboard.

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## Chapter 3. CRU replacement

Customer Replaceable Units (CRUs) are parts that can be replaced by the customer. The Chromebooks contain the following types of CRUs:

- **Self-service CRUs:** Refer to parts that can be replaced easily by customers themselves or by trained service technicians at an additional cost.
- **Optional-service CRUs:** Refer to parts that can be replaced by customers with a greater skill level. Trained service technicians can also provide service to replace the parts under the type of warranty designated for the customer's machine.

If you intend on installing a CRU, Lenovo will ship the CRU to you. CRU information and replacement instructions are shipped with your product and are available from Lenovo at any time upon request. You might be required to return the defective part that is replaced by the CRU. When return is required: (1) return instructions, a prepaid shipping label, and a container will be included with the replacement CRU; and (2) you might be charged for the replacement CRU if Lenovo does not receive the defective CRU within thirty (30) days of your receipt of the replacement CRU. For full details, see the Lenovo Limited Warranty documentation at [https://www.lenovo.com/warranty/llw\\_02](https://www.lenovo.com/warranty/llw_02).

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### What are CRUs

Refer to the following CRU list for your Chromebook.

#### Self-service CRUs

- ac power adapter
- Folio keyboard\*
- Kickstand (for LNV CB Duet 11M889)\*
- Lenovo USI Pen 2 Magnetic\*
- Power cord

\* for selected models

**Note:** Replacement of any parts not listed above, including the built-in rechargeable battery, should be done by a qualified repair technician or by ensuring that you carefully follow all instructions provided by Lenovo. You can also find Lenovo-authorized repair facilities by going to: <https://support.lenovo.com/partnerlocator> for more information.

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## Chapter 4. Help and support

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### Frequently asked questions

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What do I do if my Chromebook stops responding?

1. Press and hold the power button until the Chromebook turns off. Then, restart the Chromebook.
2. If step 1 does not work:
  - For models with an emergency reset hole: Insert a straightened paper clip into the emergency reset hole to cut off power supply temporarily. Then, restart the Chromebook with ac power connected.
  - For models without an emergency reset hole:
    - For models with the removable battery, remove the removable battery and disconnect all power sources. Then, reconnect to ac power and restart the Chromebook.
    - For models with the built-in battery, disconnect all power sources. Press and hold the power button for about seven seconds. Then, reconnect to ac power and restart the Chromebook.

What do I do if I spill liquid on the Chromebook?

1. Carefully unplug the ac power adapter and turn off the Chromebook immediately. The more quickly you stop the current from passing through the Chromebook the more likely you will reduce damage from short circuits.  
**Attention:** Although you might lose some data or work by turning off the Chromebook immediately, leaving the Chromebook on might make your Chromebook unusable.
2. Do not try to drain out the liquid by turning over the Chromebook. If your Chromebook has keyboard drainage holes on the bottom, the liquid will be drained out through the holes.
3. Wait until you are certain that all the liquid is dry before turning on your Chromebook.

How do I disinfect my Chromebook?

1. Squeeze out excess liquid from wipe or disinfecting cloth before using. Recommended wipes are hydrogen peroxide wipes and alcohol based wipes. Do not use wipes containing sodium hypochlorite (bleach).
2. Gently wipe the Chromebook thoroughly, being careful to ensure no liquid drips into the Chromebook. Do not wipe on connector pins.
3. After disinfecting, follow the cleaning procedure from the wipe supplier to minimize chemical buildup of disinfectant residue.
4. Always allow the Chromebook to completely dry prior to any use.

For more information about cleaning and disinfecting, go to <https://support.lenovo.com/in/en/solutions/ht035676>.

How do I find accessibility information?

<https://www.lenovo.com/accessibility>

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## Lenovo Customer Support Center

If you have tried to correct the problem yourself and still need help, you can call Lenovo Customer Support Center.

## Before you contact Lenovo

Record product information and problem details before you contact Lenovo.

Product information	Problem symptoms and details
<ul style="list-style-type: none"><li>• Product name</li><li>• Machine type and serial number</li></ul>	<ul style="list-style-type: none"><li>• What is the problem? Is it continuous or intermittent?</li><li>• Any error message or error code?</li><li>• What operating system are you using? Which version?</li><li>• Which software applications were running at the time of the problem?</li><li>• Can the problem be reproduced? If so, how?</li></ul>

**Note:** The product name and serial number can usually be found on the bottom of the Chromebook, either printed on a label or etched on the cover.

## Telephone numbers

For a list of the Lenovo Support phone numbers for your country or region, go to <https://pcsupport.lenovo.com/supportphonenumberlist> for the latest phone numbers.

**Note:** Phone numbers are subject to change without notice. If the number for your country or region is not provided, contact your Lenovo reseller or Lenovo marketing representative.

## Services available during the warranty period

- Problem determination - Trained personnel are available to assist you with determining if you have a hardware problem and deciding what action is necessary to fix the problem.
- Lenovo hardware repair - If the problem is determined to be caused by Lenovo hardware under warranty, trained service personnel are available to provide the applicable level of service.
- Engineering change management - Occasionally, there might be changes that are required after a product has been sold. Lenovo or your reseller, if authorized by Lenovo, will make selected Engineering Changes (ECs) that apply to your hardware available.

## Services not covered

- Replacement or use of parts not manufactured for or by Lenovo or nonwarranted parts
- Identification of software problem sources
- Configuration of UEFI BIOS as part of an installation or upgrade
- Changes, modifications, or upgrades to device drivers
- Installation and maintenance of network operating systems (NOS)
- Installation and maintenance of programs

For the terms and conditions of the Lenovo Limited Warranty that apply to your Lenovo hardware product, go to:

- [https://www.lenovo.com/warranty/llw\\_02](https://www.lenovo.com/warranty/llw_02)
- <https://pcsupport.lenovo.com/warrantylookup>

## Get help from Google

After signing in to your Chromebook, start Get Help from the app Launcher. The Get Help app provides comprehensive instructions on using your Chromebook.

In addition, if you are interested in visiting the Chromebook Help Center and Community, go to <http://support.google.com/chromebook>.

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## Chapter 5. PC and accessibility

PCs are powerful general-purpose computing devices that many individuals rely on for accessing information, connecting with friends, pursuing education, conducting research, and completing work tasks. This reliance extends to individuals with vision, hearing, cognitive, or mobility impairments, as well as to those whose abilities may decline due to illness or aging.

This chapter explores the accessibility features available on your Lenovo PC, including both hardware components and those offered by the pre-installed operating system. By gaining a comprehensive understanding of the available accessibility features and how to activate and configure them, you can enhance your PC's usability for individuals with disabilities.

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### Accessibility features of the PC hardware

Lenovo PCs are designed with accessibility in mind. Throughout the design process, special considerations are prioritized for individuals with disabilities and best industry practices are implemented in hardware design.

### USB connectors for connecting assistive technology devices

Several types of assistive technology devices are available on the market that can be connected to a PC to enhance its accessibility. For example, a refreshable braille display is an assistive technology device that enables individuals who are both deaf and blind to use a PC. When connected to a PC, a refreshable braille display can work in conjunction with a compatible screen reader to provide tactile output in braille characters. Blind individuals who have been trained to read braille can run their fingers over the display to comprehend the information presented on the PC.

Many assistive technology devices utilize USB technology for connectivity. Most Lenovo PCs are equipped with at least one USB connector that adheres to the relevant USB specifications and is backward compatible. A Lenovo PC may feature a USB Standard-A connector, a USB Type-C connector, or both. If the plug type of the assistive technology device does not match the USB connector on your PC, you can easily purchase and use a USB adapter to resolve the issue.

### Keyboard accessibility

The keyboard serves as the primary input device for many PC users. Lenovo keyboards, whether integrated or supplied separately with the PC, are designed and manufactured with accessibility in mind. This section highlights the accessibility features of Lenovo keyboards that benefit all users, including those with disabilities.

#### keyboard layout

The alphabetic keys on a Lenovo keyboard are arranged in a QWERTY layout, which is standard for input devices featuring alphabetic keys. The F and J keys have bumps that make them tactilely distinguishable from other keys. This feature serves as an orientation aid for skilled typists, allowing them to rest their index fingers without looking at the keys. Some Lenovo keyboards include a separate numeric keypad. The numeric keys are organized in four rows and three columns, arranging in ascending order from left to right and bottom to top. Additionally, the 5 key features a bump to make it tactilely distinguishable.

#### Standard modifier keys

Lenovo keyboards are equipped with standard modifier keys for PCs, including:

- the alt key

- the ctrl key
- the shift key
- the Windows logo key

These keys are extensively used as the modifier key for shortcuts by the operating system and other applications.

### **The tab key**

The tab key is located in the leftmost column of the keyboard. For operating systems, applications, and web documents that are designed with accessibility in mind, users can press the tab key and alt + tab (in reverse order) to cycle through the interactive elements.

### **Hotkeys**

Many Lenovo keyboards feature hotkeys in the top row, offering convenient access to frequently used settings.

### **The fn key and the fnlock**

The fn key is a Lenovo-defined modifier key. It can be used with the top-row dual-function keys to switch their functionalities. It can also be used with several other keys to access Lenovo defined settings.

The fnlock is a switch that can be turned on and off by pressing fn + esc. Instead of holding down the fn key to switch the functionality of dual-functionkeys, you can turn on fnlock. This feature allows users to access both hotkey and function key functionalities without the need to press two keys simultaneously.

### **Keyboard backlight**

Many Lenovo keyboards are equipped with backlights to help you use the keyboard in dark lighting conditions. The backlights can be controlled by pressing fn + Space.

## **Biometric devices**

Some Lenovo PCs are equipped with biometric devices that facilitate easy and secure identity authentication. If your PC includes an IR LED and an IR camera, you can enable facial recognition in Windows 11. Additionally, you can use your fingerprint for authentication on PCs with a fingerprint reader. Biometric identity authentication can be particularly beneficial for users who find it difficult typing passwords.

**Note:** When biometric devices are used for device authentication, they are not the only available method for this purpose. If biometric authentication fails, you can use a password or PIN to sign in to Windows.

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## **Accessibility features of Windows 11**

An operating system is a crucial piece of software installed on a PC. It plays a vital role in the PC's basic functionality by providing a user interface, various tools for system management, and a foundation upon which additional specialized applications can be installed.

Microsoft's Windows 11 is a modern operating system that comes preinstalled on many Lenovo PCs. It offers a rich set of accessibility features designed for individuals with diverse disabilities. This section outlines the accessibility features available in Windows 11, explains how to activate them, and discusses the benefits they provide.

## Configuring accessibility features in the Settings app

Windows 11 provides a centralized location within the Settings app for activating and configuring all accessibility features. You can access this section by selecting **Start → Settings → Accessibility**. Additionally, the keyboard shortcut Windows logo key + U provides quick access to this interface.

### Narrator

Narrator is Windows 11's built-in screen-reading application. It can read screen content aloud to users and also accept input from the keyboard, enabling individuals with visual impairments to navigate effectively within Windows 11, use applications, and browse the web.

#### Start and stop Narrator

You can start and stop Narrator by selecting the toggle button for Narrator in the centralized Accessibility section of the Settings app. Additionally, the keyboard shortcut Windows logo key + ctrl + enter provides quick access to both the start and stop functions.

#### Customize Narrator

Narrator offers a variety of controls that allow you to customize it to suit your preferences. For example, you can install additional text-to-speech voices and select your preferred voice for Narrator. You also have the option to adjust the verbosity level to choose the type of content to be read. All Narrator settings are conveniently located in the centralized Accessibility section of the Settings app. Additionally, the keyboard shortcut Windows logo key + ctrl + N offers quick access to these settings.

## Adjusting text sizes, applying a high-contrast theme, and using Magnifier

For individuals who find it difficult to see text clearly on the screen, Windows offers the options of adjusting text sizes, applying a high-contrast theme, and using Magnifier.

### Adjust text sizes

If you find the text on the screen is too small to read, you can scale up the size of text displayed by Windows and other applications.

Step 1. Select **Start → Settings → Accessibility → Text size**.

Step 2. Use the slider and the preview pane to select a size that fits your need and then select **Apply**.

### Apply a high-contrast theme

For individuals with low vision, Windows 11 offers contrast themes that enhance text readability by using a background color that sharply contrasts with the text.

Step 1. Select **Start → Settings → Accessibility → Contrast themes**.

Step 2. In the dropdown list for **Contrast themes**, select one option and then select **Apply**.

To exit a contrast theme, select **None** from the dropdown list. The keyboard shortcut for turning on and off contrast theme is left alt + left shift + prt sc.

### Enable Magnifier

You can enable Windows 11 Magnifier to enlarge specific areas or the entire screen, making text and images easier to see.

Step 1. Select **Start → Settings → Accessibility → Magnifier**.

Step 2. Select the toggle to enable or disable Magnifier.



The keyboard shortcuts for enabling and disabling Magnifier are Windows logo key + Plus sign (+) and Windows logo key + esc, respectively. When Magnifier is enabled, you can use Windows logo key + plus sign (+) and minus sign (-) to zoom in and zoom out.

## Sticky Keys

Microsoft Windows offers numerous keyboard shortcuts that require users to hold down a modifier key (such as shift, ctrl, alt, or the Windows logo key) before pressing one or more additional keys. While these shortcuts provide significant convenience for many users, they can pose accessibility challenges for individuals who have difficulty holding down multiple keys at the same time.

Sticky Keys is an accessibility feature in Windows that, when enabled, allows users to press keys in sequence to activate shortcut functions. For example, instead of holding down the ctrl key and the C key simultaneously, users can press each key individually to copy text to the clipboard.

To enable Sticky Keys, press the shift key five times in quick succession. When the confirmation dialog box appears, select **Yes** to disable Sticky Keys, press the shift key five times again and choose **No** when prompted.

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## Accessible user documentation

Documentation containing instructions for the use of the product, including its accessibility features, is available in accessible formats (such as HTML and PDF) on the Lenovo Support Website. When creating documentation, a series of industry standards and best practices are followed to ensure that the content is useful to as broad an audience as possible. Additionally, automated testing tools are employed to identify issues that may hinder the accessibility of information. These issues are addressed to the extent permitted by commonly available technologies.

## Accessibility features of user documentation

By adhering to industry standards and best practices, Lenovo documentation offers numerous features that facilitate the perception and understanding of the content. Additionally, several of these features are specifically designed to ensure that users of assistive technology devices can access information comparable to that available to those who do not rely on such devices.

### Perceivable content

Text content is presented using popular and easy-to-read fonts. Text colors are in high contrast with the background. Non-text elements, such as graphics and videos that convey important information, are accompanied by alternative text descriptions. Users with visual impairments can utilize screen readers to access information comparable to that available to sighted users.

### Understandable content

The documentation is presented visually in a well-structured and simple layout. It also includes hidden tags or other markup information that store the content's structure, which can be utilized programmatically by assistive technologies to convey this structure to users.

### Operable content

Documentation includes industry-standard tags for sectioning and interactive elements, such as titles, headings, various structural components, links, buttons, and input fields. Screen reader users can utilize standard modifier keys on the keyboard to effectively navigate and interact with the documentation.

## Testing documentation accessibility

Before being officially released, Lenovo documentation undergoes testing with automated tools to evaluate its accessibility. HTML documents are assessed for compliance with the success criteria outlined in the *Web Content Accessibility Guidelines* (WCAG), a widely accepted set of standards designed to enhance web document accessibility. PDF documents are evaluated for accessibility using the accessibility checker in Adobe Acrobat for the same purpose. Automated testing tools help identify elements within a document that may present challenges when rendered by screen readers and other assistive technology devices. Accessibility issues identified by these automated tools are subsequently analyzed manually and corrected as needed.

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## Appendix A. Safety instructions for teachers, parents and adult supervisors

This Chromebook is intended for use as a child development tool primarily by children, 6 years of age or above. There must be supervision by an adult. It is a must to have a thorough explanation to children on safe and proper handling of the Chromebook, battery pack, and ac power adapter.



- For ITE with power supplies not intended to be handled by children: As with all electrical products, precautions should be observed handling and use to prevent electric shock. The ac power adapter should not be handled by children.
- The Chromebook should not be placed on the bare skin (lap) of the child for long periods. The Chromebook should be placed on a flat surface, like desktop, if your child intends to use it for more than a few minutes.
- The Chromebook (including the ac power adapter and the battery pack, as applicable) should not be left in the rain or subjected to exposure to water. If cleaning is necessary do not immerse it in water; wipe clean with damp cloth.
- The Chromebook (including the ac power adapter and the battery pack, as applicable) should not be dropped, crushed (stepped on) or otherwise abused.
- An adult should caution his or her child about the potential trip hazard as posed by the cable between a power source and the Chromebook.
- The power supply (adapter) should not be handled by the children.

### Chocking Hazard — Small parts. Not suitable for children under age 3.

An adult should inspect the Chromebook (including the ac power adapter and the battery pack, as applicable) periodically for damage. Similarly, if a child notices damaged/broken parts, this should be reported to the teacher/parents/adult supervisors immediately. Damaged parts may be replaced through service provided by Lenovo.



ELECTRICALLY OPERATED PRODUCT. Not recommended for children under 3 years of age (or other intended age range). As with all electrical products, precautions should be observed during handling and use of electrical products to reduce the risk of electric shock.

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## Appendix B. Open source information

Your Chromebook may include software made publicly available by Google and other third parties, including software licensed under the General Public License and/or the Lesser General Public License (the “open source software”).

You may obtain a copy of the corresponding source code for any such open source software licensed under the General Public License and/or the Lesser General Public License (or any other license requiring us to make a written offer to provide corresponding source code to you) from Lenovo for a period of three years without charge except for the cost of media, shipping, and handling, upon written request to Lenovo. This offer is valid to anyone in receipt of this device. You may send your request in writing to the address below accompanied by a check or money order for \$5 to:

*Lenovo Legal Department  
Attn: Open Source Team / Source Code Requests  
8001 Development Dr.  
Morrisville, NC 27560*

As part of your request, please include a “UNAME” and a “CHROME VERSION” of this device available by typing: “Chrome://system” in a Chrome Browser’s address bar. Be sure to provide a return address.

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To view additional information regarding licenses, acknowledgments and required copyright notices for the open source software used in your device, type: “Chrome://credits” in the Chrome Browser’s address bar.

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