

Pixel 7

The **Pixel 7** and **Pixel 7 Pro** are a pair of Android smartphones designed, developed, and marketed by Google as part of the Google Pixel product line. They serve as the successor to the Pixel 6 and Pixel 6 Pro, respectively. The phones were first previewed in May 2022, during the Google I/O keynote. They are powered by the second-generation Google Tensor chip, and feature a design similar to that of the Pixel 6 series. They shipped with Android 13.

The Pixel 7 and Pixel 7 Pro were officially announced on October 6, 2022, at the annual Made by Google event, and were released in the United States on October 13. They were succeeded by the Pixel 8 and Pixel 8 Pro in 2023.

History

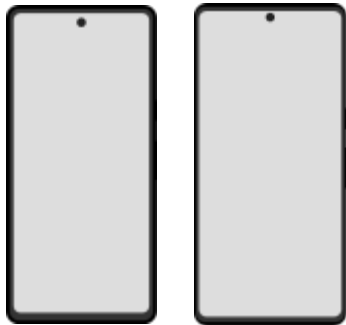
The Pixel 7 and Pixel 7 Pro were previewed by Google on May 11, 2022, during the 2022 Google I/O keynote.^[4] During the keynote, the company confirmed that the phones would feature the second-generation Google Tensor system-on-chip (SoC),^[5] which had been in development by October 2021.^[6] The phones were approved by the Federal Communications Commission (FCC) in August 2022.^[7] Google officially announced the phones on October 6, 2022, alongside the Pixel Watch smartwatch, at the annual Made by Google event,^[8] and became available in 17 countries on October 13.^[9] A portion of the phones were manufactured by Foxconn in Vietnam, shifting production from southern China.^[10] Google requested approximately eight million Pixel 7 units from suppliers, with the goal of increasing its sales numbers twofold.^[11] During the launch event, Google also announced the phones' official cases, which became available for pre-order on the same day with three color options for each phone.^[12] Pre-orders for the phones began on the same day as the announcement.^{[13][14]}

Specifications

Design

The Pixel 7 and Pixel 7 Pro both feature the two-tone back color scheme and large camera bar introduced in the Pixel 6 and Pixel 6 Pro, with the camera bar now made of aluminum.^[15] The front of the phones also retain the Pixel 6 series' centered hole-punch display notch.^[16] They are each available in three colors:^[17]

Pixel 7 Pixel 7 Pro



Diagrams of the Pixel 7 (L) and Pixel 7 Pro (R)

Codename	Pixel 7: Panther ^[1] Pixel 7 Pro: Cheetah ^[1]
Brand	<u>Google</u>
Manufacturer	<u>Foxconn</u>
Series	<u>Pixel</u>
Compatible networks	<u>GSM</u> / <u>EDGE</u> · <u>UMTS</u> / <u>HSPA+</u> / <u>HSDPA</u> · <u>LTE</u> · <u>5G</u> sub-6 / <u>mmWave</u>
First released	October 13, 2022
Availability by region	October 2022 Australia Canada Denmark France Germany India Ireland Italy Japan Netherlands Norway Singapore



Hardware

The Pixel 7 has a 6.3 in (160.5 mm) FHD+ 1080p OLED display at 416 ppi with a 2400 × 1080 pixel resolution and a 20:9 aspect ratio, while the Pixel 7 Pro has a 6.7 in (170 mm) QHD+ 1440p LTPO OLED curved-edge display at 512 ppi with a 3120 × 1440 pixel resolution and a 19.5:9 aspect ratio.^{[18][19]} The Pixel 7 has a 90 Hz refresh rate while the Pixel 7 Pro has a 120 Hz variable refresh rate. Both phones contain a 50 megapixel wide rear camera and a 12 megapixel ultrawide rear camera, with the Pixel 7 Pro featuring an additional 48 megapixel telephoto 5× optical zoom rear camera. The front camera on both phones contains a 10.8 megapixel ultrawide lens.^{[20][21]} The phones bring back the Pixel 4 and Pixel 4 XL's Face Unlock facial recognition system, except the feature is now solely powered by the front camera rather than Project Soli radar technology.^[22]

The Pixel 7 has a 4355 mAh battery, while the Pixel 7 Pro has a 5000 mAh battery. Both phones support fast charging,^[23] Qi wireless charging, as well as reverse wireless charging.^[24] The Pixel 7 is available in 128 or 256 GB of storage and 8 GB of RAM, and the Pixel 7 Pro is available in 128, 256, or 512 GB of storage and 12 GB of RAM. In addition to the second-generation Tensor chip, both phones are also equipped with the Titan M2 security module, along with an under-display optical fingerprint scanner, stereo speakers, and Gorilla Glass Victus.^[25] Counterpoint Research calculated that the Pixel 7 Pro cost an estimated US\$413 to manufacture.^[26]

Software

The Pixel 7 and Pixel 7 Pro shipped with Android 13 and version 8.7 of the Google Camera app at launch. It will receive at least three years of major OS upgrades with support extending to 2025, and at least five years of security updates with support extending to

	<div>Spain</div> <div>Sweden</div> <div>Taiwan</div> <div>United Kingdom</div> <div>United States</div>
Units sold	< 10 million (as of Oct. 2023)
Predecessor	<div>Pixel 6</div> <div>Pixel 6 Pro</div>
Successor	<div>Pixel 8</div>
Related	<div>Pixel 7a</div> <div>Pixel Fold</div>
Type	<div>Phablet</div>
Form factor	<div>Slate</div>
Dimensions	<div>Pixel 7:</div> <div>H: 6.1 in (155.6 mm)</div> <div>W: 2.9 in (73.2 mm)</div> <div>D: 0.3 in (8.7 mm)</div> <div>Pixel 7 Pro:</div> <div>H: 6.4 in (162.9 mm)</div> <div>W: 3.0 in (76.6 mm)</div> <div>D: 0.4 in (8.9 mm)</div>
Mass	<div>Pixel 7: 6.9 oz (197 g)</div> <div>Pixel 7 Pro: 7.5 oz (212 g)</div>
Operating system	<div>Android 13</div> <div>Upgradable to Android 14</div>
System-on-chip	<div>Google Tensor G2</div>
Modem	<div>Samsung Exynos 5300</div>
Memory	<div>Pixel 7: 8 GB LPDDR5</div>

2027.^{[27][28]} In addition to enhancements to Night Sight and Real Tone, camera features introduced on the Pixel 7 and Pixel 7 Pro include Guided Frame, Photo Unblur, and Cinematic Blur. A macro photography mode is also available on the Pixel 7 Pro to accompany its additional telephoto lens,^{[18][14]} as are upgrades to Super Res Zoom.^[23] The Direct My Call feature and Recorder app both received performance upgrades,^[18] while Google announced that its VPN service from Google One would be bundled with the Pixel 7 series at no additional charge.^[29] The Pixel 7 and Pixel 7 Pro only run apps that have 64-bit binaries, the first Android smartphones with such a restriction.^[30] As part of a partnership with Google, Snapchat and TikTok announced support for 10-bit HDR video on the Pixel 7 series.^[31]

Marketing

Similar to the previous year, Pixel 7-themed potato chips were made available in Japan weeks prior to the phones' launch event.^[32] In October 2022, Google partnered with the NBA to produce a series of advertisements for the Pixel lineup featuring multiple NBA athletes.^[33] In February 2023, Google released a commercial titled "Fixed on Pixel" which advertised the Pixel 7's Magic Eraser feature, ahead of its airing during Super Bowl LVII. Featuring Amy Schumer, Doja Cat, and Giannis Antetokounmpo, the 90-second commercial marked Google's second Super Bowl spot in a row to market the Pixel.^{[34][35][36]} The song "We Run This" by Missy Elliot is used in the commercial.^[37] "Fixed on Pixel" was positively received by viewers, with Northwestern University's Kellogg School of Management placing it among the highest-ranked spots of Super Bowl LVII.^[38] People and Teen Vogue both named it as one of the best commercials of the event,^{[39][40]} while CBS Sports ranked it as second-best and Tom's Guide labeled it as the best.^{[41][42]} It was the fifth most-watched Super Bowl LVII commercial on YouTube,^[43] and was ranked 12th on USA Today's Super Bowl Ad Meter, scoring 5.81 points on a scale of 10.^[44] In June 2023, the Pixel 7 Pro and Pixel Fold were featured in a series of comparative advertisements targeting the iPhone.^[45]

Reception

Critical response

Following the Pixel 7 and Pixel 7 Pro's reveal at the 2022 Google I/O, Sean Hollister of The Verge praised Google's development of a distinctive Pixel design language with the continuation of the Pixel 6 and Pixel 6a's camera bar.^[46] Both phones were well received after their launch. Julian Chokkattu of Wired and Max Buondonno

	Pixel 7 Pro: 12 GB LPDDR5
Storage	Pixel 7: 128 or 256 GB UFS 3.1 Pixel 7 Pro: 128, 256, or 512 GB UFS 3.1
SIM	<u>Nano SIM</u> and <u>eSIM</u>
Battery	Pixel 7: 4355 mAh Pixel 7 Pro: 5000 mAh
Charging	Pixel 7: 20 W fast charging 20 W <u>Qi</u> wireless charging Pixel 7 Pro: 23 W fast charging 23 W <u>Qi</u> wireless charging Both: Reverse wireless charging
Display	Pixel 7: 6.3 in (160.5 mm) <u>FHD+</u> <u>1080p</u> <u>OLED</u> at 416 ppi 2400 × 1080 px (20:9) 90 <u>Hz</u> <u>refresh rate</u> Pixel 7 Pro: 6.7 in (170 mm) <u>QHD+</u> <u>1440p</u> <u>LTPO</u> <u>OLED</u> at 512 ppi 3120 × 1440 px (19.5:9) 120 Hz refresh rate Both: <u>HDR</u>
Sound	<u>Stereo speakers</u> 3 microphones

of CNN Underscored lauded the phones' competitive pricing, displays, and camera capabilities.^{[47][48]} Dave LeClair of PCMag commended the Pixel 7's price and performance,^[49] while praising the Pixel 7 Pro's display and photography-related features.^[50] Gizmodo's Florence Ion acclaimed the phones' camera system,^[51] and Marques Brownlee highlighted their software features.^[52] Mark Knapp and Kevin Lee of IGN viewed the phones as marginally superior to the Pixel 6 series, but praised Google's refinements nonetheless.^{[53][54]} The Verge's Allison Johnson concurred, but found some of the new AI features "underwhelming".^[55] Lisa Eadicicco and Andrew Lanxon of CNET hailed the phones' incremental improvements as a reflection of Google's successful product formula, praising their design and features but criticizing the battery life.^{[56][57]} Engadget reviewer Sam Rutherford had a more positive experience with battery life, also praising the phones' upgraded designs.^[58] Mashable's Alex Perry eulogized the larger phone's camera, but had reservations about the smaller Pixel 7 and lamented the loss of the Pixel 6 series' two-toned back design.^[59] Writing for TechRadar, Alex Walker-Todd applauded the Pixel 7's design and camera,^[60] while his colleague Philip Berne had mixed feelings about the Pixel 7 Pro's software features.^[61]

Commercial reception

During Google parent company Alphabet's quarterly earnings investor call in February 2023, Google and Alphabet CEO Sundar Pichai touted the Pixel 6a, 7, and 7 Pro as Google's "best-selling generation of phones", allowing Google to gain market share in all of its markets.^[62] Additionally, a survey conducted by market research firm Wave7 in January 2023 further indicated that the Pixel 7 series, especially the Pro model, experienced stronger numbers than the Pixel 6 series.^[63] The Pixel 7 series, alongside the Pixel 6a, were principally responsible for the Pixel's 87 percent year-over-year growth globally.^[64] Data from the International Data Corporation showed that Google sold around 10 million Pixel phones during the 2022–2023 fiscal year.^[65]

Future

The Pixel 7 and Pixel 7 Pro were succeeded by the Pixel 8 and Pixel 8 Pro in October 2023.^[66]

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	Noise suppression <u>Spatial audio</u>
Rear camera	Pixel 7: 12 MP, <i>f</i> /2.2, 114° field of view (ultrawide), 1.25µm Pixel 7 Pro: 12 MP, <i>f</i> /2.2, 125.8° field of view (ultrawide), 1.25µm 48 MP, <i>f</i> /3.5, 20.6° field of view (telephoto), 0.7µm, 5× <u>optical zoom</u> Both: 50 MP, <i>f</i> /1.85, 82° field of view (wide), 1.2µm 4K video at 30 or 60 <u>FPS</u> 1080p video at 30 or 60 FPS
Front camera	10.8 MP, <i>f</i> /2.2, 92.8° field of view (ultrawide), 1.22µm 4K video at 30 or 60 FPS
Connectivity	<u>Wi-Fi 6E</u> + <u>HE160</u> + <u>MIMO</u> · <u>Bluetooth</u> 5.2 · <u>NFC</u> · <u>Google Cast</u> · <u>Dual-band GNSS</u> (<u>GPS</u> / <u>GLONASS</u> / <u>Galileo</u> / <u>QZSS</u>) · <u>USB-C</u> 3.2
Data inputs	<u>Accelerometer</u> · <u>Ambient light sensor</u> · <u>Barometer</u> · <u>Fingerprint scanner</u> · <u>Gyroscope</u> · <u>Magnetometer</u> · <u>Proximity sensor</u>

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Water resistance	IP68
Other	Both: Gorilla Glass Victus cover Gorilla Glass Victus back Titan M2 security module Pixel 7 Pro: Ultra-wideband (UWB) chip
Hearing aid compatibility	M3, T4
Made in	Vietnam (some models)
Website	Pixel 7 (https://web.archive.org/web/20221013232058/https://store.google.com/product/pixel_7?hl=en-US) Pixel 7 Pro (https://web.archive.org/web/20221013140015/https://store.google.com/product/pixel_7_pro?hl=en-US)
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