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AntuTU:425,285Geekbench:783GFXBench:1,998PCMark:16h 57m AntuTU:564,811Geekbench:785GFXBench:2,917PCMark:15h 59m AntuTU:476,587Geekbench:741GFXBench:2,422PCMark:12h 23m AntuTU:506,631Geekbench:777GFXBench:2,546PCMark:15h 15m AntuTU:331,193Geekbench:617GFXBench:1,974PCMark:10h 26m AntuTU:554,252Geekbench:784GFXBench:2,965PCMark:11h 23m AntuTU:467,275Geekbench:636GFXBench:2,089PCMark:8h 46m AntuTU:589,793Geekbench:896GFXBench:3,362PCMark:21h 43m AntuTU:825,131Geekbench:1,130GFXBench:3,107PCMark:14h 33m AntuTU:541,522Geekbench:802GFXBench:2,762PCMark:15h 27m AntuTU:266,827Geekbench:547GFXBench:1,746AntuTU:224,603Geekbench:402GFXBench:1,514PCMark:12h 27m We used the Pixel 5 mostly on AT&T and T-Mobile's low-band 5G networks in San Francisco (bands n5/n71 850MHz/600MHz) and didn't have any issues with call quality or data speeds. This phone also supports mid-band 5G (n41, 2.5GHz) on T-Mobile, plus mmWave 5G on both AT&T and Verizon, but these networks aren't deployed in our area. Note that the Pixel 5 Google sells abroad only supports sub-6GHz 5G. On the audio front, the Pixel 5 has stereo speakers, but it's not what you think. The bottom edge-firing driver handles one channel, but there's no earpiece for the other channel. Instead, the surface of the display is used as a speaker. This works fine for calls, but sounds tinny with music. While there's no headphone jack, the Pixel 5 supports both analog and digital audio devices over USB Type-C plus aptX HD and LDAC over Bluetooth.We've now reviewed quite a few Snapdragon 765G-equipped handsets here at HotHardware, and our takeaway is mostly the same each time. For day-to-day apps, this chip performs well enough to provide a smooth and fluid user experience. It's only when doing graphically-demanding tasks -- like hardcore gaming -- that you notice a difference. Combine this with the power efficiency of a built-in 5G modem (X52), and this SoC is a winner for most users. This begs the question: does a phone still need a flagship processor to be called a flagship in 2020? Overall, the Snapdragon 765G -- combined with a 90Hz screen, 8GB of LPDDR4X RAM, 128GB of UFS 2.1 storage, and a clean build of Android 11 -- makes the Pixel 5 sing. It's not OnePlus Nord snappy, but it's still pleasantly quick, and -- despite Android 11's apparent performance degradation -- it juggled our normal set of apps with aplomb. Geekbench 5 Synthetic CPU Benchmark The latest version of Geekbench for Android has aligned its scores with the desktop version of Geekbench 5. Let's see how the Pixel 5 fares versus some of its competitors... In these Geekbench 5 tests, the Pixel 5 finishes in the bottom of the pack. The iPhone 11 Pro still has the strongest single-core performance overall, but the Pixel 5 lags behind other Snapdragon 765G-equipped Android 10 devices. You can get a good feel for the Android 11 performance drop by comparing the Pixel 5 results with the Pixel 4a scores. Futuremark PCMark For Android General Purpose Pocket Computing Performance Metrics Futuremark's PCMark for Android is an excellent suite of tests if you want to benchmark a wide range of tasks on any handset -- things like image and video editing, as well as lighter-duty, everyday workloads such as email and web browsing. When you see the test running live, it's clear the scripted application tests are carefully selected and tuned to make use of the each mobile platform in a very controlled way... In PCMark, the Pixel 5 just beats Google's Snapdragon 845-equipped Pixel 3 XL flagship from 2018. While the Snapdragon 765G powering the Pixel 5 clearly doesn't match the performance of current flagships for the workloads used in PCMark for Android, these results are still respectable. AnTuTu 8 And AITuTu Platform Benchmarks AnTuTu's latest benchmark returns a number of metrics ranked with somewhat nebulous scores, rather than frame rates or time to complete. Here we're running the latest version of AnTuTu across an multiple Android devices. AnTuTu returns four top level performance results which are all included here: CPU, RAM, 3D, UX (or User Experience), along with a total score... We saw more of the same in the AnTuTu benchmark. Here, the Pixel 5 comes in right between the Snapdragon 730G-equipped Pixel 4a and the Snapdragon 765G-equipped OnePlus Nord. AITuTu evaluates the AI performance of a device by leveraging two mainstream neural network models for machine learning and AI -- Inception v3 for Image Classification and MobileNet-SSD for Object Detection. The benchmark determines the device's accuracy and speed when inferring data from each workload... Google clearly hasn't done a the best job optimizing AI workloads on the Snapdragon 765G and Pixel 5. In AiTuTu, the Pixel 5 scores just slightly more than half what the Snapdragon 765G-equipped OnePlus Nord scores. 3D Graphics Benchmarks: 3DMark And GFX Bench Pushing The Pixels Next we're checking how the Google Pixel 5 compares in GFXBench, which has been one of the standard mobile graphics/gaming performance benchmarks for years. To ensure that display refresh (v-sync) and resolution aren't limiting factors, we're comparing off-screen test results here. GFXBench tests OpenGL ES graphics workloads and we're specifically testing OpenGL ES 3.0 and 2.0... Graphics performance clearly isn't the Snapdragon 765G's strongest suit. Here, the Google Pixel 5's scores are consistently less than quarter of current Snapdragon 865-equipped flagships, and even significantly behind the Snapdragon 765G-equipped OnePlus Nord -- likely a result of the Android 11 performance drop and perhaps some driver / framework optimizations still necessary to wring maximum performance from the SoC. Futuremark's 3DMark Sling Shot is a newer benchmark module that's been added to the 3DMark mobile suite. Unlike previous gen 3DMark mobile tests, Sling Shot is a much more advanced OpenGL ES 3.1 and Metal API-based benchmark that employs more advanced rendering techniques, like volumetric lighting, particle illumination, multiple render targets, instanced rendering, uniform buffers and transform feedback. Futuremark 3DMark Sling Shot Extreme Benchmark We're running this test in off-screen mode once again to remove display resolution differences from the equation. This lets us compare cross-platform results more reliably... The Google Pixel 5 also performed worse than current flagships in these 3DMark tests. It scored about 3/4 of what the Snapdragon 765G-equipped OnePlus Nord scored, but still almost 3x better than the Snapdragon 665- and 675-equipped TCL 10-series. Google Pixel 5 Other Features And Battery Life Specs are familiar, too. On the radio front, you'll find mmWave and sub-6GHz 5G, CAT 18 LTE, WiFi 5 (802.11ac, 2x2 MIMO), Bluetooth 5.1 (with LE), NFC, and A-GPS/ GLONASS / Galileo / QZSS positioning. The Pixel 5 also includes an eSIM and the usual array of sensors, but lacks micro SD support. Also gone is the Active Edge pressure sensor found on past Pixel flagships, along with the Pixel Neural Core, making photos slower to process. The capacitive fingerprint sensor is fast and reliable, but its placement in the back feels a bit dated. We'd have preferred a scanner embedded in the power/lock key, for a cleaner, more modern look. Unlike many competing phones, there's also no face unlock of any kind -- not even a basic 2D implementation without support for mobile payments. Haptics live up to Google's usual high standards, though. Battery life is surprisingly decent. The 4080mAh battery kept the Pixel 5 ticking for 13 hours and 39 minutes in our PCMark test -- at 90Hz no less. As such, you can expect the battery to last a busy day on a charge. Topping off is reasonably quick thanks to 18W wired fast charging (USB PD), and there's an 18W charger supplied in the box. Alternatively, there's also Qi-compatible wireless charging, plus reverse wireless charging. Next up: the software, pricing, and our review verdict... Versions Global • 8GB • 128GB 5 versions View more Size 70.4 mm • 144.7 mm • 8.0 mm Weight 151 g Diagonal 6" Model Qualcomm Snapdragon 765G CPU 1x Cortex•A76 2.4 GHz + 1x Cortex•A76 2.2 GHz + 6x Cortex•A76 1.8 GHz Type Octa-Core Frequency 2.4 GHz 64 Bits Yes Resolution 12 Mpx Sensor Sony IMX363 Exmor RS Type CMOS BSI Aperture ƒ/ 1.7 Resolution 16 Mpx Sensor Unknown Type -- Aperture ƒ/ 2.2 5G n1 (2100), n2 (1900 PCS), n3 (1800), n5 (850), n7 (2600), n8 (900), n12 (700), n28b (700), n28a (700), n41 (2500), n66 (1700), n71 (600), n77 (3700), n78 (3500)4G LTE B1 (2100), B2 (1900), B3 (1800), B4 (1700/2100 AWS 1), B5 (850), B7 (2600), B8 (900), B12 (700), B13 (700), B14 (700), B17 (700), B18 (800), B19 (800), B20 (800), B25 (1900+), B26 (850), B28b (700), B28a (700), B29 (700), B30 (2300), B32 (1500), B38 (TDD 2600), B39 (TDD 1900), B40 (TDD 2300), B41 (TDD 2500), B42 (TDD 3500), B46 (TDD 5200), B48 (TDD 3600), B66 (1700/2100), B71 (600)3G B1 (2100), B2 (1900), B4 (1700/2100 AWS A-F), B5 (850), B6 (800), B8 (900), B19 (800)2G CDMA BC0 (800), CDMA BC1 (1900), CDMA BC10 (800 Secondary), B2 (1900), B3 (1800), B5 (850), B8 (900)Type Dual SIM Dual Standby (Nano SIM + eSIM) Capacity 4080 mAh Type Li-Ion Operating System Android 13 The information on this web site is not guaranteed. Kimovil is not responsible for inaccuracies, omissions or any other error in the information. Any warranties regarding this information are disclaimed. Total or partial reproduction of this site is prohibited in any manner without prior written permission. The trademarks, logos and device manufacturers, software, etc. are the property of their respective owners. Google officially announced the Pixel 6 and Pixel 6 Pro (for the second time) during the Pixel Fall Launch event last year, and this time around we got all the details we need to make a detailed comparison with its older sibling. The Pixel 6 turned out to be one pretty exciting device, especially if we compare it to the Pixel 5. With so many new things onboard, the Pixel 6 looks like a clear win over its older sibling but let's dive in deep and find all the differences.UPDATE: And while the Pixel 6 series is slowly barrel ageing, there's a new contender in the mid-range space - the Google Pixel 6a. You can also check out out Google Pixel 5a vs Pixel 6a comparison, if you want to see what's new on the budget Pixel front. You can also check out:Tri-tone glass sandwich vs solid color bioresin/metal design (image credit PhoneArena) Pixel 6 vs Pixel 5 design comparison From the get-go, the Pixel 6 design is radically different compared to the Pixel 5. The previous generation Google flagship featured a hybrid aluminum body with a thin bio resin plastic skin on top, giving it a very distinct look and feel. (image credit PhoneArena) Pixel 6 vs Pixel 5 design comparison The Pixel 6, on the other hand, is using the more traditional glass sandwich design, with Gorilla Glass Victus over the screen and Gorilla Glass 6 covering the back. The Camera Bar stretches through the whole width of the phone's body. The color scheme is a three-tone one, as opposed to the solid color design from the last generation, and there's an eye-catching colorful element above the camera system, accentuating the pastel nuance of the bigger element below the camera system.The frame of the Pixel 6 is made of matte aluminum for a cool and soft touch when handling it. In comparison, the Pixel 5 is a bit warmer, but also feels quite... unique to the touch. It's very grippy and reassuring.Another design change concerns the fingerprint reader. While the Pixel 5 relies on a capacitive sensor on its back, the Pixel 6 steps into the modern "under display" era with its biometry solution.6.4-inch flat Full-HD+ 90Hz vs 6-inch flat Full-HD+ 90Hz411ppi vs 432ppi (image credit PhoneArena) Pixel 6 vs Pixel 5 display comparison The Pixel 6 features a 6.4-inch OLED panel with a 90Hz display refresh rate and Full HD+ resolution (1080 x 2400 at 411 ppi). For comparison, the Pixel 5 comes equipped with a 6.0-inch OLED panel with the same 90Hz display refresh rate. The resolution is the same once again - Full HD+ (1080x2340) but the smaller diagonal translates in a higher pixel density of 432ppi.Just like the Pixel 5, the Pixel 6 features a flat display but the bezels look thinner in the new model. Fans of curved displays and 120 Hz refresh rates should shift their attention toward the Pixel 6 Pro, as this model comes with the aforementioned specs. Custom made Tensor chipset vs Snapdragon 765G The hardware side of things brings another twist to the story. Google decided to divorce Qualcomm and develop its own silicon named Tensor. It uses two Arm Cortex-X1 CPUs at 2.8 GHz to handle processing-heavy tasks, two 2.25 GHz A76 CPUs, and four efficiency cores - ARM Cortex A55.The Pixel 5, on the other hand, has been criticized for using a midrange chipset - the Snapdragon 765G to be exact. And while this SoC offers decent performance, it's not on par with top-tier silicon found in "real" flagships.And (drumroll) here are the official test results. Behold the Tensor chip. The results are a mixed bag - in some tests the Tensor manages to hang with the big boys but in others the performance clearly isn't there. Synthetic benchmarks can only tell you so much, and we need to spend some time with the Pixel 6 to evaluate its real-life performance. Nevertheless, here are some numbers for you geeks out there. But, with Google phones, it's not always about performance. The Google Tensor allows the Pixel 6 and the AI Assistant on board to perform more tasks, entirely on-device. This means they are faster, much faster in fact, but also more secure... presumably.The Pixel 6 has just insane speech recognition — it gets grammar, intent, and intonation. So, you can really dictate your messages or even notes to the phone. Also, the new implementation of Live Translate is just next class with its speed and accuracy.In other words — if you are buying a Pixel to get that "Google experience", a Pixel 6 makes much more sense than a Pixel 5 purchase.50MP (Wide) + 12MP (Ultra wide) vs 12.2MP (Wide) + 16MP (Ultra wide) (image credit PhoneArena) Pixel 6 vs Pixel 5 camera comparison The Pixel 5 comes equipped with two main cameras - a 12.2 MP main shooter (1/2.55″ sensor, 27 mm-equivalent (standard-wide) f/1.7-aperture lens, dual pixel PDAF, OIS), and a 16 MP ultrawide camera (1.0µm sensor, 107-degree field of view f/2.2-aperture lens). The main camera uses the IMX363 sensor from Sony, and it's pretty outdated hardware. Thankfully, Google image processing software algorithms are pure magic, and image samples taken with the Pixel 5 look amazing.The Pixel 6 sports the same dual-camera setup on the back but the main camera has been upgraded with a 50 MP 1/1.31 sensor with 1.2-micron pixel size, and f/1.85 aperture. According to Google, this new sensor now gathers 150% more light than the main camera found in the Pixel 5. The ultra-wide camera in the Pixel 6 has been upgraded as well - it's a 12 MP shooter with 1.25 µm pixel width, ƒ/2.2 aperture and 114° field of view, quite a bit wider than the ultra-wide camera on the Pixel 5.That's a lot of words. Let's look at some pictures! At first glance, the photos seem very similar. It is when we begin pixel-peeping that we see small differences — the Pixel 5 is sharpening pictures digitally and details just seem a bit more jagged. The Pixel 6's sensor retains sharpness, but it looks more natural. Also, depending on scene, the Pixel 6 handles dynamics a bit better, with more natural midtones, where the Pixel 5 seems to make colors a bit colder.The Portrait Mode seems to be the same hit-and-miss performance on both phones. It's worth noting that the Pixel 6 can go in to 2x crop for Portrait Mode, the Pixel 5 is limited to 1.3x, which is barely a zoom. Neither phone is a zoom monster. They both tap out at 7x zoom — and none give us outstanding results. But, it's fair to say, with the massive software sharpening that's going on in the background, both give you a useable picture at 7x. We'd just avoid it unless absolutely necessary.On the selfie side, we have 8 MP sensor on both these phones. They can both take wide selfies and crop in for a more of a closeup. They look pretty identical, though we do notice some more fringing around the edges with the Pixel 6 — just look at the tree leaves and the light coming through. Moving on to night shots — and yeah, Pixels are popular for their Night Sight. The Pixel 6 does improve on an already working formula with less noise, better colors, and a lot more exposure. It does take a while for a Night Sight photo to develop, so take a breath and don't move. Also, for some scenes, I kind of preferred Night Sight off — the Pixel 6's massive sensor can handle it.Zooming in at night time with the Pixel 6 also provides much, much clearer results. The Pixel 5 allows you to try it... but kind of tabs out — check out the samples below. The same can be observed with portraits at night — the Pixel 6 held it together better and the faux bokeh is still passable. The Pixel 5's Portrait Mode picture here came out... ruff! The selfie cameras, again, perform very similar on both phones:Google emphasised that it worked to improve the video capture on its new Pixels. And yeah, even from a quick test, we can see that the Pixel 6 is better than the Pixel 5 — dynamics are handled better, the video is brighter but with no burnouts, colors are more accurate and the overall picture is a bit warmer and livelier. Stabilization seems to perform similarly on both phones and details seem to be pretty close, too.The Pixel 6 microphone is also doing a better job at capturing a fuller range of audio, while the Pixel 5 is on the tinny side.The Pixel 5 comes with an ample 4,000 mAh battery on board, a significant step-up, compared to the Pixel 4. It's worth mentioning however that the Snapdragon 765G chipset is not exactly power hungry and contributes to the good battery life seen throughout benchmarks. The battery inside the Pixel 6 has been upgraded to a capacity of 4,614mAh, which is a substantial upgrade compared to the Pixel 5. We did our homework and performed all the necessary battery testing on the new Pixels, and here are the results. On the charging front, the new Pixel 6 is supposed to be able to fast charge with up to 30 W of power, but seems to cap out at 22 W. The Pixel 5 on the other hand charges at 18W wired, so charging times should be reduced in the new model. Oh, also, the Pixel 6 doesn't come with a charger in the box, while the Pixel 5 did, but that's neither here nor there.The Pixel 5 price at launch was $699, making the phone kinda affordable, especially compared to other flagship phones, but still a bit on the pricey considering the hardware.The Pixel 6, on the other hand, launched at $599 with already better specs than Pixel 5 — I mean even by equivalent 2020 vs 2021 standards.So, which one should you buy? The big question that never gets old. This one is a no-brainer, really. The Pixel 6 is better in almost every imaginable way, and it is also cheaper (at launch). Of course, the price of the Pixel 5 is now much lower, if you can find one — Google doesn't officially sell it anymore, but you can probably find new old stock somewhere at retailers. There's only one argument for the Pixel 5 and it's the size and weight. It's a much more compact device, lighter and made from different materials. If you want a somewhat compact flagship, then the Pixel 5 might be the on, especially if you score a good deal.

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