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PlayStation®4 consoles support High Dynamic Range (HDR) video output for gameplay and video streaming. Find out how to set up HDR to enjoy greater detail and depth of color. Check the owner's manual for your TV to find which HDMI port supports HDR content.Access the TV settings and make sure that the TV's HDMI ports are set to enable HDR content. TV manufacturers refer to HDR in a number of different ways:HDR, Wide Color Mode, HDMI Enhanced Mode, UHD Color Mode, Ultra HD Premium, Ultra HD deep color.Using a Premium HDMI cable, connect the PS4™ console to the correct HDMI port. Please note, the console must be connected directly to the TV to output HDR. It can't be connected to a receiver or switch box.  On your PS4 console go to Settings > Sound and Screen > Video Output Settings.In the Video Output Settings menu, set the HDR and Deep Color output settings to Automatic.For video streaming applications, check the content is HDR enabled. Most applications will have an indicator icon.To properly enjoy HDR features on your PS4 console, please ensure you have the following:2K or 4K HDR-capable TV that supports the HDR10 format.PS4 console connected with a Premium HDMI cable.HDR-enabled content such as a game title or streaming video service (HDR setting may need to be enabled in the in-app menu).PS4 console updated to system software 7.0 or later.On your PS4 console, go to Settings > Sound and Screen > Video Output Settings > Video Output Information.If your display supports HDR, you will see "Supported" under the HDR label.You can adjust the settings on your PS4 console using the HDR calibration option:On your PS4 console go to Settings > Sound and Screen > Video Output Settings.In the Video Output Settings menu, select Adjust HDR, and follow the on-screen instructions.Visit the online user guide to find out more about Video Output Settings. If HDR is not enabled after following the steps above, please access the PlayStation Repairs diagnostic tool for next steps.Get help and support for your PlayStation products PlayStation®4-konsoller støtter High Dynamic Range-videoutgang (HDR) for spilling og videostrømming. Finn ut hvordan du konfigurerer HDR for å få flere detaljer og mer fargedybde. Se i brukerhåndboken til TV-en for å finne ut hvilken HDMI-port som støtter HDR-innhold.Gå til TV-innstillingene, og sørg for at TV-ens HDMI-porter er angitt til å aktivere HDR-innhold. TV-produsentene kan ha forskjellige navn for HDR:HDR, Wide Color Mode, HDMI Enhanced Mode, UHD Color Mode, Ultra HD Premium, Ultra HD deep color.Bruk en Premium HDMI-kabel til å koble PS4™-konsollen til den riktige HDMI-porten. Merk deg at konsollen må være koblet direkte til TV-en for å kunne vise HDR. Den kan ikke kobles til en mottaker eller dekoder.  Gå til Innstillinger > Lyd og skjerm > Videoutdatainnstillinger på PS4-konsollen.I menyen Videoutdatainnstillinger setter du innstillingene HDR og Utgang Dyp farge på Automatisk.For videostrømmeprogrammer må du kontrollere at innholdet er HDR-aktivert. De fleste programmer har et indikatorikon.For å kunne bruke HDR-funksjonene på PS4-konsollen må du sørge for at du har følgende:2K- eller 4K HDR-kompatibel TV som støtter HDR10-formatetPS4-konsoll tilkoblet med en  Premium HDMI-kabelHDR-aktivert innhold, for eksempel en spilltittel eller en videostrømmetjeneste (HDR-innstillingen må være aktivert i menyen i appen).PS4-konsoll oppdatert til systemprogramvare 7.0 eller nyerePå PS4-konsollen går du til Innstillinger > Lyd og skjerm > Videoutdatainnstillinger > Informasjon om videoutdata.Hvis skjermen støtter HDR, så står det «Støttes» under HDR-merket.Du kan justere innstillingene på PS4-konsollen ved hjelp av valget for HDR-kalibrering:Gå til Innstillinger > Lyd og skjerm > Videoutdatainnstillinger på PS4-konsollen.Velg Juster HDR i menyen Videoutdatainnstillinger, og følg instruksjonene på skjermen.Hvis HDR ikke er aktivert etter å ha fulgt trinnene ovenfor, må du gå til diagnostikkverktøyet til PlayStation-reparasjoner for de neste trinnene.Få hjelp og støtte til dine PlayStation-produkter To enable HDR on PS4, go to Settings > Sound and Screen > Video Output Settings > HDR > Automatic.To calibrate the HDR settings on PS4, go to Video Output Settings and select Adjust HDR. To reduce screen glare, make the room darker.HDR should be enabled by default if your TV supports it. Your game console or service must also support HDR to play games in HDR. This article explains how to enable HDR on a PS4. To take advantage of HDR gaming, you must also enable HDR on your 4K TV. All PlayStation 4 models, including the PS4 Pro, support High Dynamic Range (HDR). However, not all PS4 content (games, streaming services, etc.) supports HDR. You may need to enable HDR in the specific game or app menu. To make sure HDR is enabled on your PS4, follow these steps: Update your PS4 if necessary to make sure you have the latest firmware version. Connect your PS4 directly to the TV using an HDMI cable. The console can't be connected to a receiver or set-top box.  On the PS4 home menu, go to the top row and select Settings. Select Sound and Screen. Select Video Output Settings. Select HDR. Select Automatic. For HDR to make a difference on PS4, your TV must support the HDR 10 standard, and you must enable HDR on your TV. The game you're playing must also support HDR. To see if your TV supports HDR on your PS4, go to Settings > Sound and Screen > Video Output Settings > Video Output Information. Look for Supported under HDR. If your TV supports HDR, it should be on by default. How you adjust the screen settings depends on your model, so check the manufacturer's website or look around in the settings menus. The game console or service must also support HDR to play games in HDR on your TV. Some TVs have a game mode setting that optimizes the screen for gameplay. Some games look better with HDR enabled than others. If a game's graphics look too saturated, turning off HDR may help. While gaming in 4K on the PS4 Pro, the frame rate may drop with HDR enabled, so you have to decide if it's worth the trade-off. You can only play games in 4K on the PS4 Pro. For most titles, the screen resolution is upscaled from HD to 4K. Enabling HDR can increase screen glare if there is too much natural light in the room. Try raising the screen brightness, and make the room darker if possible. To calibrate the HDR settings on your PS4, go to Settings > Sound and Screen > Video Output Settings > Adjust HDR. FAQ Go to Settings > Sound and Screen > Video Output Settings > HDR > Off. You might also want to turn off the automatic settings for Deep Color Output; select Deep Color Output > Off. If HDR isn't working well or at all with your TV, double-check the cable connections. Make sure you're using a Premium High-Speed HDMI cable with your PS4 and that it's secure and in the correct HDMI port in your TV. Try our fixes for HDMI connection issues if you can't find an HDMI signal. Turn on HDR on your PS4 Pro > connect the console to your Roku TV > and your TV should recognize the HDR support and automatically switch to this picture mode. To double-check or fix the HDMI setup for your PS4 Pro on your Roku TV, select Settings > TV inputs > the HDMI input connected to your PS4 > HDMI mode > Auto or HDMI 2.0 or HDMI 2.1. Thanks for letting us know! Get the Latest Tech News Delivered Every Day Subscribe Tell us why! Learn how to set up 4K and HDR on your PlayStation®4 Pro console.Make sure to enable 4K on both your PS4 Pro console and 4K compatible display device. You also need to enable this setting in any other device between your PS4 Pro console and 4K compatible display device (e.g. 4K compatible Home Cinema System/AV receiver).Refer to your display device manual to ensure:You're connecting your PS4 Pro console to the correct 4K HDMI input. Check this for all devices connected between your PS4 Pro console and 4K compatible display device.Your display device supports 4K/60Hz. If it doesn't, the picture may be scaled down to 2K/60Hz.Make sure you are using Premium HDMI cables to connect all devices in the chain. You can find out more about Premium HDMI cables here.1. On your 4K compatible display device (4K TV, 4K projector...)Every 4K compatible display device is different, so you need to refer to your device manual for detailed instructions.Open your 4K compatible device display settings menu.Find the resolution settings and enable 4K.Repeat these steps for any devices between your PS4 Pro console and 4K compatible display device.2. On your PS4 Pro consoleYour PS4 Pro console should automatically enable 4K if it detects a 4K compatible device connected to it. To make sure 4K and the highest possible resolution are enabled:From the home screen go to Settings > Sound and Screen > Video Output Settings.Set the Resolution to 2160P - YUV420 or 2160p- RGB.If you set the resolution to Automatic your PS4 Pro system will default to the highest possible resolution available for the display device it is connected to and content being played/streamed.Start a 4K compatible game* or video streaming service.*Some games will require you to enable 4K within the in-game menu. Check the game manual to find out more.Note: Some options may be greyed out (not available) if your 4K display device does not support these resolutions.4K is almost four times higher definition than standard (1080p HD). Though all PS4 consoles have HDR capabilities, you can enjoy 4K only with the PS4 Pro console. The availability of enhanced image quality depends on your home entertainment set-up. The PS4 Pro consoles automatically select the best available resolution.The definition displayed on your TV may be limited when you have a PlayStation®VR Processor Unit and headset connected to your PS4 Pro console. This may be caused by compatibility limitations of some 4K TV models.If, after connecting your PS4 Pro console to your 4K-compatible display device, you aren't seeing an image, please follow these steps:Access Safe Mode on your PS4 Pro console.Select option 8: Set HDCP ModeSelect HDCP 1.4 OnlyYour system will automatically restart when you select OK.You should now be able to see an image on your TV. However, you may not get 4K or HDR for some content or apps while HDCP 1.4 is enabled.Safe Mode on PS4 consolesIf you still don't have an image, or if you're sure your TV supports HDCP 2.2Power off your PS4 Pro console again by holding down the power button until you hear a 2nd beep. Once it's powered down, access Safe Mode again as before.Now select option 2: Change Resolution. You'll be prompted to restart the system and select a resolution.Once the system has restarted, select 2160p - YUV420 as the resolution. You should now be able to see an image on your TV.Now turn off your console, and restart it in Safe Mode one last time.Select option 8: Set HDCP Mode and choose option 1: Automatic.If you still have problems after following these steps, please contact your TV manufacturer for further assistance.Safe Mode on PS4 consolesIf you can get an image on your TV without changing HDCP, but you still don't see 4K or HDRCheck that you're using the correct HDMI input. Most 4K display devices have dedicated HDMI ports for 4K resolution. Check your device manual to identify which port you should be using.Make sure any HDMI cables between your PS4 Pro console and TV are Premium certified (v1.4+). The HDMI cable supplied with your PS4 Pro console is suitable.Check your TV settings and make sure that UHD Color is set to "on". (not applicable for all TV models)Make sure that the content you're playing supports 4K or HDR. Some games required 4K or HDR to be enabled within the in-game menu.If you're having resolution issues, please visit the PlayStation Repairs diagnostic tool for further steps and to arrange a repair.Get help and support for your PlayStation products The advent of 4K UHD resolution has been a significant boon to gaming, as it has brought crisper resolutions and more exquisite detail to graphics. However, while 4K is an appreciable upgrade, if you're not playing with high-dynamic range (HDR) enabled, you're not getting the full experience from your 4K TV or games. Both of Sony's current consoles — the PlayStation 4 and the 4K-ready PS4 Pro — support HDR, provided you have the proper display and the right setup. We've put together this guide on how to set up HDR gaming on your 4K/HDR TV and PS4 or PS4 Pro consoles for more colorful, vibrant games. Note that while both the PS4 and PS4 Pro are capable of HDR, you'll need to make sure you've updated the firmware to 4.0 or higher. If you need help setting up HDR on an Xbox One S or Xbox One X, we can help with that, too. Set up your TV first Image used with permission by copyright holder Step 1: Make sure your console is connected to an HDMI 2.0a/HDCP 2.2-compliant port on your TV. You might think that because you have a 4K/HDR TV, all ports would be usable, but in most cases, only one or two ports are HDMI 2.0a/HDCP 2.2-enabled. What is more surprising is that the compatible HDMI port you need is not necessarily HDMI 1. Sometimes TV manufacturers label the ports so that you know by looking, but even those labels can be misleading. To be sure, check out the specs section for your TV's model at the manufacturer's website to determine which HDMI ports support HDMI 2.0a, and use one of those for your console. Step 2: Open your TV's Settings menu. Head to the Picture Settings section, then look at the presets to find your TV's Game Mode. This mode will cut down on picture processing, and your picture quality may appear to take a slight hit in the process (don't worry, we'll fix that). It will also reduce input lag, so if you're a competitive gamer, using Game Mode will keep you competitive in multiplayer matchups. If you typically play single-player games (or if you value graphics and picture quality over performance), go ahead and pick whichever preset suits your eyeballs best — we usually prefer movie, cinema, or standard modes. Step 3: Next, you need to enable HDR on your television. Go back to the Picture Settings menu. From here, it depends on what type of TV you have. Some TVs have HDR settings right in the main Picture Settings menu, while others will list them under Input Settings, Advanced Picture Settings, or even the Main Options menu. You're looking for a setting like HDMI HDR, HDMI Color Subsampling, HDMI HD Ultra Deep Color, HDMI UHD Color 10-Bit Color, or something similar. You need to enable (turn on) this setting for the HDMI port where the console is plugged in. If you're not sure where to locate your TV's HDMI HDR settings, consult your user manual or check the manufacturer's website. Some TVs will enable HDR automatically as soon as they detect an HDR signal — LG's OLED 4K TVs are an example — along with HDR-enabled games once they discover a compatible console/TV setup. Step 4: Your TV can now accept HDR content from your game console, but you may want to fine-tune the picture quality. We suggest adjusting brightness and contrast controls to taste, but before you start tweaking these settings, you want your TV to be displaying some kind of HDR content. This content could be an HDR game for your console or a movie or TV title in HDR via Netflix, Amazon, or Vudu. Once you're playing HDR content of some sort (many TVs confirm this by showing an HDR logo on the screen), your TV will be in HDR mode. At this point, go into the Picture Settings to make adjustments. While making adjustments in this mode, you are adjusting picture quality only for the TV's HDR mode. As such, this will not impact picture quality settings for those times you are watching standard dynamic range (SDR) content, be that a non-HDR movie on Netflix, a Blu-ray disc, or traditional broadcasts. One thing to note: Some TVs will limit the available settings within HDR mode, like brightness. If this is the case for your TV, try the various presets for HDR and see which one you like the most. In the market for a new TV? We can help! Take a look at our picks for the best TVs right now or check out our 4K TV buying guide for more info. Set up your PS4 or PS4 Pro Image used with permission by copyright holder Once your TV is set up, you're most of the way there. All that's left to do is enable HDR on the console. While the PS4 and PS4 Pro will usually auto-detect that HDR is enabled on your TV and adjust the settings itself, it doesn't always, and it's a good idea to double-check regardless. Here's how to do it. Step 1: After you've correctly plugged the console into your TV, turn it on and navigate to the Settings screen. In the System Information tab, make sure Enable HDCP is checked. Step 2: Next, open the Sound and Screen > Video Output Settings > HDR Option, then toggle Deep Color Output to Automatic. If you followed the above step correctly, you should now be able to play in HDR, and many new releases activate HDR automatically when connected to a 4K TV. Should you need further help, consult Sony's video guide. Finding the right content Image used with permission by copyright holder Finally, you'll need to have the right content to play or watch. There is a long list of HDR-enabled video games on the PS4, and more are being released all the time. Plus, there is a plethora of HDR video content you can access on Netflix, YouTube, and Amazon Prime. Here's a quick selection of some HDR-ready PS4 recommendations: Make sure the picture looks great After you've set your HDR system up, you might have to troubleshoot the occasional performance issue that presents itself during gameplay. An example of such a problem could be a fuzzy or pixelated resolution.  Unfortunately, not all TVs are suited for HDR, even if it claims to be. A TV needs to be able to achieve high-contrast ratios and expanded color to display HDR properly. Suppose you experience lousy picture quality on your TV despite troubleshooting and adjusting your settings to their highest standard output quality. In that case, you will know that your TV doesn't have the required high contrast ratios or expanded color properties for HDR picture. You can also try adjusting the picture quality in the game's menu if released after firmware 4.0. If that doesn't help either, we suggest you disable HDR and play in standard mode. Choosing SDR mode should drastically improve the picture quality, and if it does, we recommend it as a go-to default option. Should you need to perform a factory reset on your PS4, check out our handy guide. Parker Hall is a writer and musician from Portland, OR. He is a graduate of the Oberlin Conservatory of Music in Oberlin… PlayStation 4 games which support high-dynamic range by Sammy Barker Tue 22nd Dec 2020 Looking for a list of all PS4 HDR compatible games? HDR, or high-dynamic range to use its full name, is a feature available on all PlayStation 4 models – including the PS4, PS4 Slim, and PS4 Pro. Assuming you have a compatible television, the technology essentially enhances the contrast and colour of the display significantly, resulting in more life-like images than are possible on standard screens. If you've seen the effect in person then you'll know that it's a game-changer, and you may be wondering which games specifically take advantage of the tech. Well, we've compiled a list of all PS4 HDR compatible games, and we'll be updating this regularly so you always know which titles are taking full advantage of your snazzy new screen. If you're looking for additional information, you can find Best PS4 HDR Games and Best PS4 Pro Boost Mode Games through the respective links.Subscribe to Push Square on YouTube156kWatch on YouTube Here's a full list of all PS4 HDR compatible games so far: What's your favourite HDR compatible PS4 game? Are you a fan of this technology in general? See more colours in the comments section below. See Also All PS4 HDR Compatible GamesBest PS4 Games PlayStation®4 consoles support High Dynamic Range (HDR) video output for gameplay and video streaming. Find out how to set up HDR to enjoy greater detail and depth of colour. Check the owner's manual for your TV to find which HDMI port supports HDR content.Access the TV settings and make sure that the TV's HDMI ports are set to enable HDR content. TV manufacturers refer to HDR in a number of different ways:HDR, Wide Colour Mode, HDMI Enhanced Mode, UHD Colour Mode, Ultra HD Premium, Ultra HD deep colour.Using a Premium HDMI cable, connect the PS4™ console to the correct HDMI port. Please note, the console must be connected directly to the TV to output HDR. It can't be connected to a receiver or switch box.  On your PS4 console go to Settings > Sound and Screen > Video Output Settings.In the Video Output Settings menu, set the HDR and Deep Colour output settings to Automatic.For video streaming applications, check the content is HDR enabled. Most applications will have an indicator icon.To properly enjoy HDR features on your PS4 console, please ensure you have the following:2K or 4K HDR-capable TV that supports the HDR10 format.PS4 console connected with a Premium HDMI cable.HDR-enabled content such as a game title or streaming video service (HDR setting may need to be enabled in the in-app menu).PS4 console updated to system software 7.0 or later.On your PS4 console, go to Settings > Sound and Screen > Video Output Settings > Video Output Information.If your display supports HDR, you will see "Supported" under the HDR label.You can adjust the settings on your PS4 console using the HDR calibration option:On your PS4 console go to Settings > Sound and Screen > Video Output Settings.In the Video Output Settings menu, select Adjust HDR, and follow the on-screen instructions.Visit the online user guide to find out more about Video Output Settings. If HDR is not enabled after following the steps above, please access the PlayStation Repairs diagnostic tool for next steps.Get help and support for your PlayStation products Setting up HDR (High Dynamic Range) gaming on your PS4 or PS4 Pro when connected to a 4K HDR television can dramatically enhance your gaming experience. HDR provides a wider range of colors, improved contrast, and more realistic lighting, making games visually stunning. This comprehensive guide will dissect everything you need to know about setting up HDR gaming on your devices, ensuring you get the most out of your gaming sessions. What Is HDR Gaming? Before diving into the setup process, it's critical to understand what HDR gaming actually entails. HDR is a technology that allows for a greater dynamic range between the lightest and darkest parts of an image. This means that during gameplay, you'll notice deeper blacks and brighter whites, resulting in a more realistic and immersive visual experience. The PS4 Pro, in particular, is equipped to handle HDR content, enabling developers to create games that can take full advantage of this technology. Ensuring Compatibility For HDR gaming to work, several components of your gaming setup need to support HDR. Here's what you need to check: Console: Make sure you're using a PS4 Pro or a standard PS4 that can support HDR games. The regular PS4 does not support HDR output, so for the best experience, the Pro is your ideal option. Television: Verify that your television supports HDR10 and has HDMI 2.0a or later ports. Most 4K TVs released in recent years should support these features, but it's always good to double-check your TV's specifications. HDMI Cables: Use high-speed HDMI cables that can handle the bandwidth for 4K HDR content. While the original cables that come with your PS4 Pro may be sufficient, investing in high-quality HDMI cables can further optimize the connection and prevent issues. Firmware Updates: Ensure that your PS4 and television firmware is up to date. Manufacturers often release updates that enhance performance and compatibility. Step 1: Setup Your PS4/PS4 Pro Connect Your Console: Using an HDMI cable, connect your PS4 Pro to one of the HDR-compatible HDMI ports on your 4K television. Turn on Your TV: Make sure your television is powered on and set to the correct HDMI input where your PS4 is connected. Access PS4 Menus: Start your PS4 or PS4 Pro and navigate to the settings menu on the Home screen. Step 2: Enabling HDR on the PS4 Pro Go to Settings: On the home screen, locate the "Settings" icon and click on it. Select Sound and Screen: Scroll down and find "Sound and Screen" in the settings menu. Click to open it. Video Output Settings: Here, select "Video Output Settings." This section allows you to configure the display output of your console. Choose Resolution: Ensure your resolution is set to 2160p (4K). The PS4 Pro will downscale games to 1080p if you select '1080p' instead of '2160p.' Enable HDR: You will see an option for "HDR." Toggle this option to "On." Check RGB Range: Set the RGB range to "Automatic" or to "Full" (if you have a compatible TV). Full RGB provides the most color depth and is often recommended for HDR displays. Test Video Output: After setting everything up, the console will ask if you want to test the video output settings. Select "Test" to ensure everything is configured correctly. Step 3: Configuring Your 4K HDR Television Setting up your TV is just as important as configuring your console. Each brand has its interface, so the steps may differ slightly, but here are the general instructions: Access TV Settings: Using your TV remote, navigate to the settings menu. Picture Settings: Look for picture settings, which may include options like "Picture Mode," "HDR," or "Video." You want to ensure that HDR is enabled. Select HDR Mode: Depending on your TV, you may have different modes for HDR, like HDR Gaming, HDR Movie, and HDR Standard. Opt for the mode that suits your gaming needs best. Check Game Mode: Enabling Game Mode can reduce input lag, providing a smoother gaming experience. Look for the option in your TV's settings and turn it on. Color Depth and Brightness Settings: Adjust the color depth and brightness levels to your liking. Many TVs allow for extensive customization. A higher brightness setting can help if you're playing in a well-lit room. Step 4: Game Compatibility Not every game supports HDR visuals, so you'll want to check if the titles you wish to play make use of this feature. Here's how to find out which games support HDR on PS4: Check Game Packaging: AAA titles often label HDR support either on the back cover of the case or within the digital store listing. PS Store: Visit the PlayStation Store and look for promotional materials or sections that highlight games with HDR support. Game Settings: Once installed, some games will prompt you to enable HDR in their settings menus. Step 5: Testing HDR Setup Using Games Now that you've configured both your PS4 (or PS4 Pro) and your television, it's time to test the HDR setup: Pick an HDR Game: Choose a game known for utilizing HDR effectively, such as "God of War," "Spider-Man," or "The Last of Us Part II." In-Game Settings: Navigate to the in-game settings and ensure HDR is enabled. Many games offer visual settings that allow you to adjust brightness levels and color depth to your personal preference. Engage with Gameplay: Begin your gameplay session and evaluate the visuals. Look specifically for how the colors and contrasts appear throughout different lighting conditions in the game. Troubleshooting Common Problems Setting up HDR is generally straightforward, but you might run into some issues. Here are common problems and their solutions: No HDR Signal: If your TV displays "No HDR Signal," double-check that HDR is enabled in both your PS4 settings and your television settings. Make sure your HDMI cable is also securely connected. Flickering or Poor Quality: If the visuals appear flickery or seem of inferior quality, check whether you're using the right HDMI port (ideally, HDMI 2.0 or above). Ensure you have the fast or game mode enabled on your TV. Game Not Supporting HDR: If an HDR title doesn't appear to be displaying in HDR, check if HDR is enabled within the game's settings. Some games require you to toggle this feature separately. Update Firmware: Outdated firmware can cause problems with HDR functionality. Ensure both the PS4 and your television have the latest updates installed. Optimizing Your Gaming Experience After successfully setting up HDR and verifying that it works correctly, consider additional tweaks to optimize your gaming experience: Adjust Brightness Settings: After testing HDR, if certain areas in games appear too dark or washed out, you may want to go back to your television settings and adjust the brightness, contrast, or gamma settings. Monitor Input Lag: While Game Mode reduces input lag, you may also want to use external monitors or look into display settings that minimize lag further, particularly for competitive gaming. Consider Room Lighting: The environment in which you play can also impact your HDR experience. Consider using blackout curtains or minimizing ambient light, as excessive lighting can hinder the effectiveness of HDR. Explore Additional Audio Settings: While you focus on visuals, don't neglect sound. A good sound system or headphones can further enhance your overall gaming experience, particularly for immersive gameplay. VRR (Variable Refresh Rate) and Your Setup As technology progresses, newer consoles (such as the PS5) and TVs offer support for features like VRR, which can significantly enhance the smoothness of gameplay. While the PS4 doesn't support VRR, understanding this technology may be beneficial for your next console upgrade. VRR reduces screen tearing and allows for variable frame rates, providing an even more refined gaming experience. Conclusion Setting up HDR gaming on your PS4 or PS4 Pro is a straightforward process that can yield remarkable improvements in visual fidelity and gameplay experience. By ensuring your hardware is compatible, enabling the right settings, and fine-tuning your configuration, you'll unlock the stunning graphical capabilities that HDR offers. Through the steps outlined above, your gaming sessions will be richer, more vivid, and ultimately more enjoyable, immersing you into the worlds of your favorite games like never before. No matter if you're delving into epic narratives or engaging in fast-paced action, HDR will enhance how you play and perceive gaming altogether. Enabling HDR on your PS4 can enhance your gaming experience by providing a greater dynamic range of colors and improved contrast. However, there are some factors to consider before turning on HDR. Some games may look better with HDR enabled than others. If a game's graphics look too saturated or the colors appear unnatural, turning off HDR may help. It's also worth noting that while gaming in 4K on the PS4 Pro, enabling HDR can cause the frame rate to drop, so you'll need to decide if the visual improvements are worth the potential trade-off in performance. Does HDR affect performance on PS4? SDR (Standard Dynamic Range) does not affect PS4 performance, as it is the default setting. However, when HDR is turned on, the PS4 may require additional processing power to render the enhanced color and contrast, which can result in a slight decrease in performance. The PS4 Pro, in particular, may struggle with HDR and 4K gaming due to hardware limitations. What does enabling HDR mean on PS4? Enabling HDR on your PS4 allows you to experience a greater dynamic range of colors and improved video quality when connected to an HDR-compatible TV. It enhances the visual fidelity of compatible games, providing more vibrant and realistic graphics. You can adjust other display settings, such as Deep Color Output, to ensure the best possible HDR experience. Is it good to turn on HDR? Using HDR mode is beneficial for viewing HDR content, as it expands the color and contrast range, resulting in more detailed and immersive visuals. However, it is not necessary to leave HDR enabled all the time. It is recommended to enable HDR when you are viewing or playing HDR content and disable it when not needed. Some devices and applications can automatically trigger HDR mode when necessary, allowing you to enjoy the benefits without constant manual adjustments. Is it better to turn off HDR? Turning off HDR can be beneficial in certain situations. If you are trying to capture fast-paced motion, turning off HDR can help prevent dark or washed-out areas in the image. Additionally, if you want to capture a portrait with dark and intense shadows, disabling HDR may allow you to capture more details within the shadowy areas. Ultimately, the decision to turn off HDR depends on the specific requirements and preferences of the content or situation. PS4 Pro | HDR Set-Up Tutorial Unfortunately, the article does not provide any information about a PS4 Pro HDR set-up tutorial. It is recommended to refer to the official PlayStation documentation or consult online tutorials specifically designed for setting up HDR on the PS4 Pro. Is HDR better on or off on PS4? The visual experience with HDR enabled on the PS4 can vary depending on the game. Some games may look better with HDR enabled, as it enhances the color and contrast range, resulting in more vibrant and realistic visuals. However, if a game's graphics appear overly saturated or the HDR effect is not well-implemented, turning off HDR may provide a more balanced and natural-looking image. It is recommended to experiment with HDR settings on a game-to-game basis to determine which option provides the best visual experience. What is the downside of HDR? While HDR can enhance the visual experience, it does have some potential downsides. One of the main disadvantages is increased processing time. Creating an HDR image involves merging multiple exposures, which can take longer than capturing a single image. Additionally, HDR processing can sometimes introduce artifacts or haloing around high-contrast edges, resulting in less natural-looking images. However, these downsides are typically minimal and may vary depending on the specific equipment and settings used. Should I enable HDR when gaming? Enabling HDR when gaming can greatly enhance the visual experience, especially on HDR-compatible displays. It allows for a wider and more vibrant color range, along with improved contrast and detail. However, it is important to ensure that your gaming setup, including your TV or monitor, supports HDR and is properly calibrated to maximize the benefits. Also, be aware that enabling HDR may result in a slight decrease in performance, particularly on older or less capable hardware. Should I turn HDR on or off when gaming? Whether to turn HDR on or off when gaming is a personal preference that depends on the specific game, display, and individual visual preferences. Some games may benefit from HDR, as it enhances the color and contrast for a more immersive and realistic experience. However, if the HDR effect appears too intense or unnatural, or if it negatively impacts the game's performance, it may be preferable to turn off HDR. It is recommended to experiment with HDR settings in different games to determine the optimal configuration for your setup. Should I keep HDR for gaming? Keeping HDR enabled for gaming can provide a more immersive and visually stunning experience, as it enhances the color and contrast range. HDR allows for more realistic and vibrant graphics, creating a more engaging gameplay environment. However, it is important to ensure that your gaming setup, including your display and any connected devices, fully supports HDR and is properly calibrated for optimal results. It is also worth noting that enabling HDR may require additional processing power and could potentially impact performance, so it is essential to consider the trade-off between visual enhancements and potential performance limitations. How can I make my PS4 look better on a 4K TV? To make your PS4 look better on a 4K TV, you can follow these steps: Ensure that your PS4 Pro console is connected to a 4K-compatible display. From the PS4 home screen, go to "Settings" and select "Sound and Screen." In the "Video Output Settings" menu, set the resolution to either "2160P – YUV420" or "2160p – RGB." Adjust other display settings, such as HDR, Deep Color Output, and HDCP, according to your TV's capabilities. Ensure that you are using a high-speed HDMI cable that supports 4K and HDR. By following these steps, you can optimize the visual performance of your PS4 on a 4K TV and experience the full benefits of 4K resolution and HDR. Why are HDR games so dark? One common issue with HDR games is that many TVs default to maximum backlight and contrast levels in HDR mode. This can cause the image to appear darker than intended, especially in a well-lit room. While this is not true for all TVs, it is a common occurrence. To adjust the brightness and black levels properly, it may be necessary to calibrate your TV's HDR settings or adjust the in-game HDR settings, if available. Proper calibration can help ensure that HDR games are not overly dark and retain the intended level of detail and contrast. Does HDR cause input lag on PS4? Enabling HDR on a PS4 can potentially introduce input lag, which is the delay between pressing a button or moving a controller and seeing the corresponding action on the screen. HDR processing may require additional time for the console to render the enhanced color and contrast, resulting in a slightly delayed response. The degree of input lag can vary depending on the specific TV or monitor and the quality of its HDR implementation. Some TVs have a game mode that can help mitigate input lag, but it is advisable to test the performance with HDR enabled and make adjustments if necessary. What HDMI input should I use for PS4? The HDMI input you should use for your PS4 depends on the capabilities of your display and the specific PS4 model you have: For the standard PS4, Xbox One, and Xbox One S consoles, a 1080p 60Hz HDMI input with HDR support is sufficient. High-speed HDMI or HDMI 1.4 cables should meet the requirements. For the PS4 Pro and Xbox One X, which support 4K gaming and HDR, it is recommended to use a premium HDMI cable or an HDMI 2.0 cable. Check your TV or monitor's specifications and user manual to determine the HDMI input requirements for optimal performance with your PS4 model. What is HDR gaming on PS4? HDR gaming on PS4 refers to the ability of the PlayStation 4 consoles to output High Dynamic Range (HDR) video for gaming and video streaming. HDR technology provides a widened color and contrast range, resulting in more vibrant and lifelike visuals. By enabling HDR on compatible games and connecting the console to an HDR-compatible TV, users can experience enhanced graphics and improved video quality. Does HDR cause input lag? Yes, HDR can potentially cause input lag. The additional processing required for HDR can introduce a slight delay in the responsiveness of controls, resulting in input lag. The degree of input lag may vary depending on the specific device, settings, and the quality of HDR implementation. It is important to balance the benefits of HDR with the potential input lag and make adjustments accordingly to optimize the gaming experience. Does HDR gaming reduce FPS? No, enabling HDR does not directly reduce frames per second (FPS) in games. However, some high-end graphical settings, such as real-time ray-tracing, which often accompany HDR, can impact performance and potentially lead to a decrease in FPS. It is important to consider the hardware capabilities and settings of your gaming system when enabling HDR and adjust other graphics options as needed to maintain optimal FPS. What does HDR do for gaming? HDR (High Dynamic Range) in gaming expands the color and contrast range, resulting in more vibrant and realistic visuals. It allows for brighter highlights, deeper shadow details, and more accurate and wider color representation. HDR enhances the overall visual experience, providing greater depth and detail to the graphics, and creating a more immersive and lifelike gaming environment. Does HDR affect video quality? HDR can significantly improve video quality by expanding the color and contrast range, resulting in more vibrant, detailed, and lifelike visuals. HDR enables brighter highlights, deeper shadow details, and a wider range of colors, enhancing the overall visual experience. However, the quality of HDR video can With the advent of UHD (ultra-high-resolution) 4K resolution, gaming has witnessed dramatic changes — changes characterized by crisper resolutions, by finer detail to graphics. As new gaming consoles launch, resolution, clarity, and colour depth are taken to the next level. While 4K can be considered an appreciable upgrade, if you are not playing your games with HDR (High Dynamic Range) set up, you will not be able to get the best experience from your 4K TV or games.The PS4 and the 4K-ready PS4 Pro — both Sony's current consoles — support HDR, once you are sure you have the proper display as well as the right set-up. Thus, if you own a PlayStation 4 or PlayStation 4 Pro, you can enjoy playing games in HDR. High dynamic range, a method of image rendering, enables a beautiful and spectacular depth of graphics in games in modern times. Though it is easy enjoying such stunning graphics, you may find that it isn't always so clear how you can turn on the settings. Even the majority of modern TV sets, while featuring support for such graphics, don't come preloaded with settings to do so. In this guide, we expound the steps to enable HDR on your PS4/PS4 Pro in 2019 for more colourful, vibrant games. Let's go!To get the best of HDR features on your PS4/PS4 Pro console, make sure you have the following:2K/4K HDR-capable TV with HDR10 supportPS4/PS4 Pro console that is connected via a Premium HDMI cable.HDR-enabled content, like a game or a video-streaming service.PS4/PS4 Pro that has been updated to system software 4.0 or later. Learn more about updating your system software.Related:Having made sure that your TV supports high dynamic range 10 format, you can now proceed to set it up: Check to confirm your gaming console is connected via an HDMI 2.0a or HDCP 2.2-compliant port on the television set. The mere fact that you have a 4K/HDR TV does not mean every port would be usable; mostly, only 1 or 2 ports are HDMI 2.0a/HDCP 2.2-enabled. And you might even discover that the compatible HDMI port you require isn't necessarily HDMI 1. TV manufacturers occasionally label the ports so you will able to know by looking, but even the labels could be misleading. Thus, to be completely sure, you should check out the specs section for the TV model at the site of the manufacturer and determine which of the HDMI ports support HDMI 2.0a. You can now use one of those for your gaming console.The next step is to open the settings menu of your TV, go to the Picture Settings section, and check the presets to find Game Mode for the TV. With this mode, you can reduce picture processing, and your picture quality could be a bit poorer in the process (this will be fixed shortly); but it'll equally cut down on input lag. Thus, if you are playing a game competitively, Game Mode helps keep you in multiplayer matchups. If you often engage in playing single-player titles (or if you are keener about graphics & picture quality than performance), you can choose whichever preset that best suits your eyeballs from "cinema," "movie," or "standard" modes.In this step, you will enable HDR on your TV. To do so, head back to the Picture Settings menu. From this section, it depends on your kind of television. While in some TVs, you will find HDR settings right in the main Picture Settings menu; in others, the settings will be listed under Input Settings, Main Options Menu or Advanced Picture Settings. What you're looking for is a setting, such as HDMI Color Sub-sampling, HDMI HDR, HDMI UHD Color 10-Bit Color, HDMI HD Ultra Deep Color, etc. You have to put on this setting for the HDMI port in which the console is plugged. If you doubt where to locate the HDMI HDR settings of your TV, you can check your user manual or consult the manufacturer's site. Some televisions will switch HDR on automatically immediately they detect an HDR signal — an example is LG's OLED 4K TVs.Your television set has now been set up to receive HDR content from your PS4/PS4 Pro console. You might need to improve the picture quality; you can adjust brightness and contrast controls to your preferred level. But before you start editing these settings, you would want the television to be displaying certain type of HDR content. This might be an HDR game for the PS4/PS4 Pro, or a TV title or movie in HDR on Netflix, Amazon, Vudu, etc. Once you start playing HDR content of any kind (several televisions confirm this by displaying an HDR logo on your screen), your television set will be in HDR mode. You should now head to the Picture Settings to do necessary adjustments. By having the adjustments done while in this mode, you're only adjusting picture quality for the HDR mode of your T. This will have no effect on picture quality settings for the periods you're watching SDR content, irrespective of it being a non-HDR movie on a standard Blu-ray disc, Netflix, or other forms of broadcasts. Here is one thing you have to note: In some televisions, the available settings will be limited within HDR mode, such as brightness. If your TV is one such, you can try the various presets for HDR to know the one you most prefer.Having set up your TV for HDR, you are almost there. All that's now left for you to do is to enable HDR on your PS4 or PS4 Pro itself. Though both consoles will typically detect automatically if HDR is enabled on the television and change their settings themselves, they do not that always. So, it is an excellent idea to double-check. Take these steps to do that:After plugging the console properly into the TV, put it on and head to the Settings screen; in the System Information tab, be sure that HDCP is checked.Now go to the Sound and Screen menu and press Video Output Settings; set the HDR feature & Deep Color output to Autom