Main specifications *Q*6500

Camera type	Interchangeable-lens digital camera	Туре	7.5cm (3.0-type) wide type TFT
ens mount	E-mount	Total number of dots	921,600 dots
mage sensor ype	APS-C type (23.5 x 15.6mm) Exmor CMOS sensor	Touch Panel Touch Focus	Yes Yes (Touch Panel / Touch Pad)
umber of pixels (effective)	Approx. 24.2 megapixels	Brightness control	Manual (5 steps between -2 and +2), Sunny Weather mode
umber of pixels (total)	Approx. 25.0 megapixels	Adjustable angle	Up approx. 90 degrees, down approx. 45 degrees
mage sensor aspect ratio	3:2	Display selector (Finder/LCD)	Auto / Manual
nti-dust system	Yes	Display	Graphic Display / Display All Info. / No Disp. Info. / Histogram / Digital Level Gauge / Shooting information
Recording system (still images)	JPEG (DCF Ver. 2.0, Exif Ver.2.3, MPF Baseline compliant), RAW (Sony ARW 2.3 format)	Real-time image-adjustment display	viewfinder mode On / Off
Recording format 3:2 aspect ratio	L: 6000 x 4000 (24M), M: 4240 x 2832 (12M), S: 3008 x 2000 (6.0M)	Focus magnifier	5.9x, 11.7x
mage size 16:9 aspect ratio	L: 6000 x 3376 (20M), M: 4240 x 2400 (10M), S: 3008 x 1688 (5.1M)	Zebra	Yes (selectable level + range or lower limit as custom setting)
pixels) Sweep Panorama	Wide: horizontal 12416 x 1856 (23M), vertical 5536 x 2160 (12M), Standard: horizontal 8192 x 1856 (15M), vertical	Peaking MF	Yes (Level setting: High/Mid/Low/Off, Color: White/Red/Yellow)
	3872 x 2160 (8.4M)	Other features	On (On (Denich France) (Off Francescientation Francescientics (Managemethran (data stabilis (access 0)
mage quality modes RAW output	RAW, RAW & JPEG, JPEG Extra fine, JPEG Fine, JPEG Standard 14 bit	Face detection Auto Object Framing	On / On (Regist. Faces) / Off, Face registration, Face selection (Max. number of detectable faces: 8) Yes
	13 modes: Posterization (Color, B/W), Pop Color, Retro Photo, Partial Color (R, G, B, Y), High Contrast Monochrome,	Clear Image Zoom	Still / Movie: Approx. 2x
Picture Effect	Toy Camera, Soft High-key, Soft Focus, HDR Painting, Rich-tone Monochrome, Miniature, Watercolor, Illustration		M: Approx. 1.4x, S: Approx. 2.0x
Freative Style	Standard, Vivid, Neutral, Clear, Deep, Light, Portrait, Landscape, Sunset, Night Scene, Autumn Leaves, Black & White, Sepia (Contrast - 3 to + 3 steps, Saturation - 3 to + 3 steps, Sharpness - 3 to + 3 steps) (Style Box 1-6 also		L: Approx. 4x, M: Approx. 5.7x, S: Approx. 8x
icative style	provided)		Approx.4x
Dynamic range functions	Off, Dynamic Range Optimizer (Auto/Level (1-5)), Auto High Dynamic Range: Auto Exposure Difference, Exposure	PlayMemories Camera Apps Lens compensation	Yes Peripheral Shading, Chromatic Aberration, Distortion
Color space	Difference Level (1.0-6.0 EV, 1.0 EV step) sRGB standard (with sYCC gamut) and Adobe RGB standard compatible with TRILUMINOS Color	Zoom Ring Rotate	Yes
Recording system (movies)	shob standard (with site gamat) and Habbe nab standard compatible with inteolimitos color	Others	ISO Auto Minimum Shutter Speed, Bright Monitoring, Copyright Info, Set File Name, Location Information
Recording format	XAVC S / AVCHD format Ver. 2.0 compliant / MP4	Shutter	
	XAVC S: MPEG-4 AVC/H.264	Туре	Electronically controlled, vertical-traverse, focal-plane type
/ideo compression	AVCHD: MPEG-4 AVC/H.264	<i>a</i>	Still images: 1/4000 to 30 sec., Bulb Movies: 1/4000 to 1/4 (1/3 step)
	MP4: MPEG-4 AVC/H.264	Shutter speed	NTSC: Up to 1/60 in AUTO mode (up to 1/30 in Auto Slow Shutter mode)
udio recording format	XAVC S: LPCM, 2ch	Plank was a sold	PAL: Up to 1/50 in AUTO mode (up to 1/25 in Auto Slow Shutter mode)
Audio recording format	AVCHD: Dolby Digital (AC-3), 2ch, Dolby Digital Stereo Creator MP4: MPEG-4 AAC-LC, 2ch	Flash sync. speed Electronic front curtain shutter	1/160 sec. Yes, On / Off
	XAVC S 4K: 3840 x 2160 (30p/100Mbps, 30p/60Mbps, 24p/100Mbps, 24p/60Mbps)	Silent Shooting	Yes, On / Off
NTSC	XAVC S HD: 1920 x 1080 (60p/50Mbps, 30p/50Mbps, 24p/50Mbps, 120p/100Mbps, 120p/60Mbps)	SteadyShot INSIDE (image stabili	
	AVCHD: 1920 x 1080 (60p/28Mbps/PS, 60i/24Mbps/FX, 60i/17Mbps/FH, 24p/24Mbps/FX, 24p/17Mbps/FH)	Туре	Image Sensor-Shift mechanism with 5-axis compensation (compensation depends on lens specifications)
Image size	MP4: 1920 x 1080 (60p/28Mbps, 30p/16Mbps), 1280 x 720 (30p/6Mbps)	Compensation effect	5-stops-faster shutter speed (based on CIPA standard. Pitch/yaw shake only. With Sonnar T* FE 55mm F1.
pixels)	XAVC S 4K: 3840 x 2160 (25p/100Mbps, 25p/60Mbps) XAVC S HD: 1920 x 1080 (50p/50Mbps, 25p/50Mbps, 100p/100Mbps, 100p/60Mbps)	Flash control	lens mounted. Long exposure NR off).
PAL	AVC1920 x 1080 (50p/28Mbps/PS, 50i/24Mbps/FX, 50i/17Mbps/FH, 25p/24Mbps/FX, 25p/17Mbps/FH)	Control	Built-in flash
	MP4: 1920 x 1080 (50p/28Mbps, 25p/16Mbps), 1280 x 720 (25p/6Mbps)	Guide No.	6 (in meters at ISO 100)
Slow & Quick motion (S&Q) Record Setting	NTSC mode: 1920x1080 (60p, 30p, 24p)	Flash coverage	16mm (focal length printed on the lens body)
now a galek motion (sag) necora setan	PAL mode: 1920x1080 (50p, 25p)	Control	Pre-flash TTL
Slow & Quick motion (S&Q) Frame Rate	NTSC mode: 1fps, 2fps, 4fps, 8fps, 15fps, 30fps, 60fps, 120fps	Flash compensation	+/-3.0 EV (switchable between 1/3 and 1/2 EV steps)
	PAL mode: 1fps, 2fps, 3fps, 6fps, 12fps, 25fps, 50fps, 100fps Yes (Off / PP1-PP9) Parameters: Black level, Gamma (Movie, Still, Cine1-4, ITU709, ITU709 [800%], S-Log2, S-Log3),	Flash bracketing	3/5/9 frames selectable. With 3 or 5 frames, in 1/3, 1/2, 2/3, 1.0, 2.0, 3.0 EV increments, with 9 frames, in 1/3 2/3, 1.0 EV increments.
Picture Profile	Black Gamma, Knee, Color Mode (Movie, Still, Cinema, Pro, ITU709 Matrix, White&Black, S-Gamut, S-Gamut3.		Flash off, Autoflash, Fill-flash, Rear Sync., Slow Sync., Red-eye reduction (On/Off selectable), Hi-speed syr
	Cine, S-Gamut3), Saturation, Color Phase, Color Depth, Detail, Copy, Reset	Flash modes	Wireless ¹¹
Movie functions	Audio Level Display, Audio Rec Level, Auto Slow Shutter, HDMI info. Display (On/Off selectable), Time Code/User Pit Bishura Profile Creative Stude Bisture Effect, Per Control, Dual Video Per Marker Satting, PAJ (NTSC Selector	Recycling time	Approx. 4 sec.
Novie functions	Bit, Picture Profile, Creative Style, Picture Effect, Rec Control, Dual Video Rec, Marker Setting, PAL/NTSC Selector, Gamma Display Assist	External flash	Sony <i>C</i> System Flash compatible with Multi Interface Shoe. Attach the shoe adaptor for flash compatible Auto-lock Accessory Shoe.
Color space	xvYCC standard (x.v. Color when connected via HDMI cable) compatible with TRILUMINOS Color	FE level lock	Yes
Clean HDMI output		Wireless control	Yes (wireless flash with lighting ratio control)
NTSC	3840 x 2160 (30p/24p) / 1920 x 1080 (60p/24p) / 1920 x 1080 (60i), YCbCr 4:2:2 8bit/ RGB 8bit	Drive	
PAL	3840 x 2160 (25p) / 1920 x 1080 (50p) / 1920 x 1080 (50i), YCbCr 4:2:2 8bit/ RGB 8bit	Drive modes	Single shooting, Continuous shooting (Hi+/Hi/Mid/Lo selectable), Self-timer, Self-timer (Cont.), Bracketing
Media	Memory Stick PRO Duo, Memory Stick PRO-HG Duo, Memory Stick Micro (M2), SD memory card, SDHC memory		(Cont., Single, White Balance, DRO) 10 sec. delay/5 sec. delay/2 sec. delay/Continuous self-timer (3 frames after 10 sec. delay/5 frames after 10
Media	card (UHS-I compliant), SDXC memory card (UHS-I compliant), microSD memory card, microSDHC memory card,	Self-timer	delay/3 frames after 5 sec. delay/5 frames after 5 sec. delay/3 frames after 2 sec. delay/5 frames after 2 sec
51-a	microSDXC memory card	· · · · · · · · · · · · · · · · · · ·	delay)/Bracketing self-timer (Off/2 sec. delay/5 sec. delay/10 sec. delay)
Slot Noise reduction	Multi slot for Memory Stick Duo / SD memory card	Speed (approx., max.) ²	Continuous mode: 11fps (Hi+), 8fps (Hi), 6fps (Mid), 3fps (Lo) 233 frames (JPEG Extra fine L), 269 frames (JPEG Fine L), 301 frames (JPEG Standard L), 107 frames (RAW), 10
	Long exposure NR: On/Off, available at shutter speeds longer than 1 sec., High ISO NR: Normal/Low/Off	No. of recordable frames ^{*2} (approx.)	frames (RAW & JPEG)
Noise reduction	selectable	Playback	
Multi Frame NR	Auto / ISO 100 to 51200		Single (with or without shooting information, Y RGB histogram & highlight/shadow warning), 12/30-frame in view Enlarged directory mode (Maximum magnification L-16 7x M-11 9x S-9.2x) Auto Paviow (10/5/2 core
White balance	Auto WB / Daylight / Shade / Cloudy / Incandescent / Fluorescent (Warm White / Cool White / Day White /	Modes	view, Enlarged display mode (Maximum magnification L: 16.7x, M: 11.8x, S: 8.3x), Auto Review (10/5/2 sec., Image orientation (Auto / Manual / Off selectable), Slideshow, Panorama scrolling, Folder selection (Still /
Modes	Daylight) / Flash / Color Temperature (2500 to 9900K) & Color Filter (G7 to M7: 57 steps, A7 to B7: 29 steps) /		/ MP4 / AVCHD / XAVC S HD / XAVC S 4K), Forward/Rewind (Movie), Delete, Protect, Photo Capture
	Custom / Underwater	Interface	11 C 1178 BCB -
AWB micro adjustment	G7 to M7 (57 steps), A7 to B7 (29 steps)	PC interface Multi / Micro USB Terminal	Mass Storage, MTP, PC Remote Yes' ³
Priority Set in AWB Bracketing	Yes 3 frames, H/L selectable		Wi-Fi compatible, IEEE802.11b/g/n (2.4GHz band) ³⁴ , Playback of still images and movies on smartphones,
Focus system	5 Italies, II/ E selectable	Wireless LAN (built-in)	PCs and TVs
lype	Fast Hybrid AF (phase-detection AF/contrast-detection AF)	NFC™	Yes (NFC Forum Type 3 Tag compatible, One-touch remote, One-touch sharing)
Focus point	425 points (phase-detection AF) / 169 points (contrast-detection AF)	Bluetooth	Yes (Bluetooth Standard Ver. 4.1 (2.4GHz band))
Sensitivity range	EV-1 to EV20 (ISO 100 equivalent with F2.0 lens attached)	HD output Multi Interface Shoe	HDMI micro connector (Type-D), BRAVIA Sync (link menu), PhotoTV HD, 4K movie output, 4K still image play Yes
AF modes	Automatic AF (AF-A), Single-shot AF (AF-S), Continuous AF (AF-C), Direct Manual Focus (DMF), Manual Focus	Others	Microphone terminal (3.5mm Stereo mini jack)
Focus area	Wide (425 points (phase-detection AF), 169 points (contrast-detection AF)) / Zone / Center / Flexible Spot (S/M/ L) / Expand Flexible Spot / Lock-on AF (Wide / Zone / Center / Flexible Spot (S/M/L) / Expand Flexible Spot)	Audio	· · · · · · · · · · · · · · · · · · ·
Focus type with LA-EA3 (sold separately)	Phase-detection/contrast-detection selectable	Microphone	Built-in stereo microphone or XLR-K2M / XLR-K1M / ECM-XYST1M (sold separately)
Other features	Lock-on AF, Eye AF, Predictive control, Focus lock; Eye-Start AF and AF micro adjustment (both only available with	Speaker	Built-in, monaural
	optional LA-EA2 or LA-EA4 attached), AF illuminator (built-in, LED type, range: Approx. 0.30-3m), AF ON	Print Compatible standards	Fuif Reist Drint Image Matching III, DDOF cathing
Exposure control Metering type	1200-zone evaluative metering	Compatible standards Custom function	Exif Print, Print Image Matching III, DPOF setting
Metering type Metering sensor	Exmor CMOS sensor	Type	Custom key settings, Programmable setting
Metering sensitivity	EV-2 to EV20 (at ISO 100 equivalent with F2.0 lens attached)	Memory function	Yes (Body: 2 sets/ Memory card: 4 sets)
Metering modes	Multi-segment, Center-weighted, Spot (Standard/Large), Entire Screen Avg., Highlight	Power	
exposure modes	Auto (iAuto, Superior Auto), Programmed AE (P), Aperture priority (A), Shutter-speed priority (S), Manual (M), Scene Selection, Sweep Panorama, Movie/S&Q motion (Programmed AE (P) / Aperture priority (A) /	Battery	Rechargeable battery pack NP-FW50
Aposare moues	Stelle Selection, sweep Parlorana, Movie/ Sag motion (Programmed AE (P) / Aperture priority (A) / Shutter-speed priority (S) / Manual (M))	Still images	Approx. 310 shots (viewfinder) / Approx. 350 shots (LCD screen) (CIPA standard) Actual ¹⁵⁷⁶ : Approx. 65 min. (viewfinder) / Approx. 70 min. (LCD screen) (CIPA standard)
Scene Selection	Portrait, Landscape, Macro, Sports Action, Sunset, Night Portrait, Night Scene, Hand-held Twilight, Anti Motion Blur	Movies	Continuous ¹⁵⁷ : Approx. 105 min. (viewfinder) / Approx. 105 min. (LCD screen) (CIPA standard)
xposure compensation	+/-5.0 EV (in 1/3 EV or 1/2 EV steps)	External power	AC Adaptor AC-PW20 (sold separately)
AE bracketing	Bracket: Single/Bracket: Cont., 3/5/9 frames selectable. With 3 or 5 frames, in 1/3, 1/2, 2/3, 1.0, 2.0 or 3.0 EV increments, with 9 frames, in 1/3, 1/2, 2/3 or 1.0 EV increments.	Weight	
AE lock	Available with AE lock button. Locked when shutter button is pressed halfway.	With battery and memory card	Approx. 453g (approx. 1 lb.)
SO sensitivity	Still images: ISO 100-25600 (expandable to 51200), AUTO (ISO 100-6400, selectable lower limit and upper limit),	Body only Dimensions	Approx. 410g (approx. 14.5 oz.)
Recommended Exposure Index)	Movies: ISO 100-25600 equivalent, AUTO (ISO 100-6400 equivalent, selectable lower limit and upper limit)	W x H x D (excluding protrusions)	Approx. 120.0mm x 66.9mm x 53.3mm (approx. 43/4 x 23/4 x 21/8 in.)
Viewfinder Ivoe	XGA OLED, 1.0cm (0.39 type) electronic viewfinder (color)	Operating temperature	
lype fotal number of dots	2,359,296 dots	Range	32°-104°F / 0-40°C
Brightness control	Auto/Manual (5 steps between -2 and +2)		
Color temperature control	Manual (5 steps)	Specifications and features are subject	t to change without notice.
ield coverage	100%	*1 With compatible external flash. *2 With "Hi +" continuous shooting n	node. Approximate. May vary depending on shooting conditions and media.
Magnification	Approx. 1.07x (35mm camera equivalent: Approx. 0.70x) with 50mm lens at infinity, -1m ⁻¹	*3 Supports Micro USB-compatible d	evice.
Diopter adjustment	-4.0 to +3.0m ⁻¹	*4 Configuration method/Access me	thod: WPS or manually/infrastructure mode. When connecting to smartphones, the camera ca vireless access point. (Security: WEP/WPA-PSK/WPA2-PSK)
ye point Display	Approx. 23mm from the eyepiece lens, 21.4mm from the eyepiece frame at -1m ⁻¹ (CIPA standard) Graphic Display / Display All Info. / No Disp. Info. / Histogram / Digital Level Gauge	*5 Continuous movie recording is po	ssible for approximately 29 minutes (limited by product specifications).
	On / Off	*6 Indicated recording time is define	d by repeating the following cycle: Power on, start recording, zoom, stand-by and power off. d by repeating the following cycle: Pressing the MOVIE button. No other operations such as zo
Real-time image-adjustment display			

SONY



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OC: "G Master," 4D FOCUS, "Exmor," BIONZ X", "BRAVIA", "SteadyShot", "VAIO", "InfoLithium", "Translucent Mirror Technology", "Tru-Finder", "Memory Stick X", "Memory Stick XPRO-HG Duo", "Memory Stick XPRO-HG Duo", "DayMemories Chaine", "PlayMemories Chaine", "PlayMemories Mobile", "PlayMemories Chaine", "Stack XPRO Duo", "Memory Stick XPRO-HG Duo", "PlayMemories Home", "PlayMemories Chaine", "PlayMemories Chaine", "PlayMemories Mobile", "PlayMemories Chaine", "Stack XPRO Duo", "Memory Stick XPRO-HG Duo", "PlayMemories Chaine", "PlayMemories Chaine", "PlayMemories Chaine", "PlayMemories Chaine", "PlayMemories Chaine", "PlayMemories Mobile", "PlayMemories Chaine", "PlayMemories Chaine", "New York", "Stack XPRO Tegistered trademarks of Sony Corporation and Sony Corporation.
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Accessories

Body Case LCS-EBG

@ 4D FOCUS

Interchangeable-lens digital camera



The Power of Imaging

The palm-sized all-around all-star

4D FOCUS Focus at the speed of sight

4D FOCUS

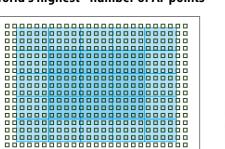
Capture the height of every moment—the world's fastest⁺¹ autofocus system with highest⁺² number of AF points responds flawlessly to virtually any shooting situation.

Fast 0.05 sec.

Wide 425 points World's highest² number of AF points

Phase-detection AF coverage (425 points)

Contrast-detection AF coverage (169 points*) 25 points + 144 points (each of 9 central AF points is divided into 16 se





High-density Tracking AF Technology

AF points that appear on actual screen
 AF algorithm (not shown on actual screen)

Steadfast

*1 Among interchangeable-lens digital cameras equipped with an APS-C image sensor as of October 2016, based on Sony research, measured using CIPA-compliant guidelines, and internal measurement method with an E PZ 16-50mm F3.5-5.6 OSS lens mounted, Pre-AF off and viewfinder in use.

High speed continuous shooting

Live-view continuous shooting with minimal lag

High-speed continuous shooting is available at up to approx. 11fps (Hi+), and up to approx. 8 fps (Hi) in live-view. In liveview continuous shooting at up to 8fps, display lag on the EVF or LCD screen is kept to an absolute minimum, so you can capture moving subjects just as if you are shooting using an optical viewfinder.

Huge buffer in continuous shooting

Faster internal processing and a higher-capacity buffer memory now allow up to 307 shots (around 36 seconds)* of high-speed continuous shooting. This increases the chances of capturing more decisive moments. * With 'Hi' continuous shooting mode and 'Fine' image quality.

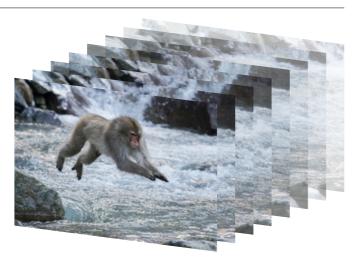
Focus evolves with a touch

Touch Focus

Touch Focus makes it particularly easy to adjust focus quickly, so you don't miss the chance to capture your chosen subject. Simply touch the screen at the decisive moment.

Touch Pad function

Just swipe your fingertip to shift focus point from one area to another while looking at the viewfinder.





Touch Pad function

5-axis SteadyShot™ INSIDE

Built-in stabilization, complete and compact

Equivalent to using a 5-stops-faster* shutter speed, this system detects and compensates for pitch and yaw shake, which tends to occur more at longer focal lengths; X- and Y-axis shift shake, which becomes more apparent when shooting at a high magnification such as in macro photography; and roll shake about the Z-axis, which often occurs with night shots and movie shooting. This camera shake compensation system is very effective for shooting steadier, clearer movies and still images. *Based on CIPA standard. Pitch/yaw stabilization only. With Sonnar T* FE 55mm F1.8 ZA lens mounted. Long exposure NR off.

Compatibility with wide-ranging mountable lenses

5-axis image stabilization lets you enjoy unparalleled handheld shooting freedom with more of your favorite mountable lenses. The short flange-back in the E-mount of the α 6500 extends compatibility with a range of lenses.

Note: When using a third-party mount adaptor, performance, functionality and operation are not guaranteed and Sony will take no responsibility if a malfunction occurs.



The α 6500 features an APS-C image sensor with approx. 24.2 effective megapixels plus thin wiring layer and large photodiode substrate for light collection efficiency. Combined with BIONZ XTM image processing engine as well as a newly developed front-end LSI that supports the engine's image processing, the image sensor achieves a wide sensitivity range of ISO 100-51200* with better image clarity and lower noise.

* Standard ISO range: 100-25600 for stills and movies. Expandable up to ISO 51200 for stills only.

4K movies¹ oversampled from 6K (20MP)

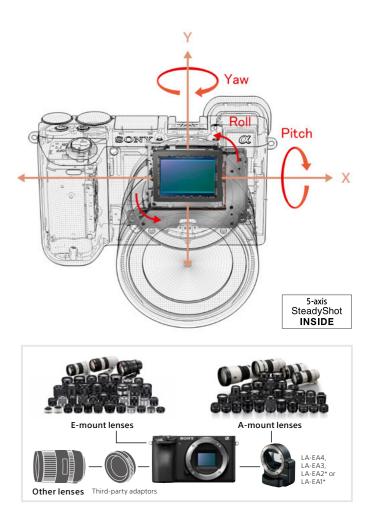
Full pixel readout without pixel binning collects approx. 2.4 times⁺² (6K equivalent) as much information as is required for 4K (QFHD: 3840 x 2160) movie output. This oversampling effect gives 4K images realistic depth and dimension.

*1 SDHC/SDXC memory card of Class 10 or higher is required. UHS-I (U3) SDHC/SDXC card is required for 100Mbps recording. 2 In 24or recording. Approx.16 times in 30o recording.



6000 pixels

10 pixels





No 1 image sensor manufacturer for digital cameras and video recorde

on Sony research – April 2015 to March 2016 (over 50% market share

Newly designed shutter

Shutter braking system and elastic shock-absorbing material reduce blur resulting from vibration, maximize image sharpness and suppress shutter sound. Shutter durability is tested to withstand about 200,000 shutter cycles*.

* With the electronic front curtain shutter, under internal test conditions of Sony.

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