

The Ultimate Tech Acronym Cheat Sheet

229+ Tech Abbreviations & Acronyms Explained Simply

AI • Programming • Hardware • Networking • Cybersecurity
Audio & Video • Mobile & Gaming • Cables & Displays • Messaging

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AI & Emerging Technology

Abbr.	Full Form	Meaning
AI	Artificial Intelligence	Machines that can think and learn like humans
ML	Machine Learning	AI systems that learn from data
DL	Deep Learning	Advanced machine learning using neural networks
GPT	Generative Pre-trained Transformer	AI model used in ChatGPT
LLM	Large Language Model	AI trained on massive text datasets
NLP	Natural Language Processing	AI understanding human language
AGI	Artificial General Intelligence	Human-level AI intelligence
ANN	Artificial Neural Network	Brain-inspired AI system
CNN	Convolutional Neural Network	AI model mainly used for images
RNN	Recurrent Neural Network	AI model for sequence-based data
VR	Virtual Reality	Fully digital immersive environment
AR	Augmented Reality	Digital objects added to real world
MR	Mixed Reality	Combination of AR and VR
IoT	Internet of Things	Smart connected devices
NFT	Non-Fungible Token	Unique digital ownership asset

Web, Blogging & SEO

Abbr.	Full Form	Meaning
SEO	Search Engine Optimization	Improving website ranking on Google
URL	Uniform Resource Locator	Website address
HTTP	Hypertext Transfer Protocol	Basic web communication system
HTTPS	Hypertext Transfer Protocol Secure	Secure version of HTTP
WWW	World Wide Web	Collection of websites on internet
CMS	Content Management System	Software used to manage websites
SERP	Search Engine Results Page	Google search results page
CTR	Click Through Rate	Percentage of users clicking links
CPC	Cost Per Click	Ad cost for each click
CPM	Cost Per Mille	Cost per 1000 ad impressions
CTA	Call To Action	Text encouraging users to act
RSS	Really Simple Syndication	Content feed system
AMP	Accelerated Mobile Pages	Faster mobile webpages
DNS	Domain Name System	Converts domain names into IP addresses
IP	Internet Protocol	Unique internet device address

Software Development

Abbr.	Full Form	Meaning
API	Application Programming Interface	Connection between software systems
HTML	Hypertext Markup Language	Structure of webpages
CSS	Cascading Style Sheets	Website design styling
XML	Extensible Markup Language	Structured data language
JSON	JavaScript Object Notation	Lightweight data format
SQL	Structured Query Language	Database query language
NoSQL	Not Only SQL	Flexible database systems
IDE	Integrated Development Environment	Coding software
SDK	Software Development Kit	Tools for app development
CLI	Command Line Interface	Text-based computer control
UI	User Interface	Visual app layout
UX	User Experience	User interaction quality
QA	Quality Assurance	Software testing process
CI/CD	Continuous Integration / Continuous Deployment	Automated software delivery
CRUD	Create, Read, Update, Delete	Basic database functions
MVC	Model-View-Controller	Software architecture pattern
REST	Representational State Transfer	API communication system
AJAX	Asynchronous JavaScript and XML	Dynamic webpage updates
DOM	Document Object Model	Webpage structure representation
OOP	Object-Oriented Programming	Programming using objects

Computer Hardware

Abbr.	Full Form	Meaning
CPU	Central Processing Unit	Main brain of computer
RAM	Random Access Memory	Temporary working memory
ROM	Read-Only Memory	Permanent storage memory
SSD	Solid State Drive	Fast storage device
HDD	Hard Disk Drive	Traditional storage device
GPU	Graphics Processing Unit	Handles graphics and gaming
BIOS	Basic Input Output System	Startup firmware
OS	Operating System	Software controlling device
USB	Universal Serial Bus	Device connection standard
HDMI	High-Definition Multimedia Interface	Audio/video cable standard
VGA	Video Graphics Array	Older display connection
PSU	Power Supply Unit	Provides electrical power
ALU	Arithmetic Logic Unit	Performs calculations
RISC	Reduced Instruction Set Computer	Simplified processor architecture
CISC	Complex Instruction Set Computer	Complex processor architecture

Networking & Internet

Abbr.	Full Form	Meaning
LAN	Local Area Network	Small local network
WAN	Wide Area Network	Large-scale network
MAN	Metropolitan Area Network	City-wide network
VPN	Virtual Private Network	Secure private internet connection
FTP	File Transfer Protocol	File sharing system
SSH	Secure Shell	Secure remote access
MAC	Media Access Control	Device network identifier
DHCP	Dynamic Host Configuration Protocol	Automatic IP assignment
ISP	Internet Service Provider	Company providing internet
VoIP	Voice over Internet Protocol	Internet calling technology
TCP	Transmission Control Protocol	Reliable data transfer
UDP	User Datagram Protocol	Faster but less reliable transfer
NAT	Network Address Translation	Shares internet connection
SMTP	Simple Mail Transfer Protocol	Sending emails
IMAP	Internet Message Access Protocol	Receiving emails

Cloud & Cybersecurity

Abbr.	Full Form	Meaning
SaaS	Software as a Service	Software accessed online
PaaS	Platform as a Service	Cloud app development platform
IaaS	Infrastructure as a Service	Cloud infrastructure services
AWS	Amazon Web Services	Cloud computing platform
GCP	Google Cloud Platform	Google cloud service
SSL	Secure Sockets Layer	Website security encryption
TLS	Transport Layer Security	Advanced encryption protocol
DDoS	Distributed Denial of Service	Cyberattack flooding servers
2FA	Two-Factor Authentication	Extra login security
MFA	Multi-Factor Authentication	Multiple verification methods
IAM	Identity and Access Management	User permission control
SOC	Security Operations Center	Cybersecurity monitoring center
SIEM	Security Information and Event Management	Security monitoring system
AES	Advanced Encryption Standard	Data encryption method
WPA	Wi-Fi Protected Access	Wi-Fi security standard

File Formats & General Tech

Abbr.	Full Form	Meaning
PDF	Portable Document Format	Universal document format
PNG	Portable Network Graphics	High-quality image format
JPEG	Joint Photographic Experts Group	Popular compressed image format
GIF	Graphics Interchange Format	Animated image format
CSV	Comma-Separated Values	Spreadsheet data format
IT	Information Technology	Technology systems and services
ICT	Information and Communications Technology	Digital communication technology
BYOD	Bring Your Own Device	Using personal devices at work
ERP	Enterprise Resource Planning	Business management software
CRM	Customer Relationship Management	Customer management software

Programming Languages

Abbr.	Full Form	Meaning
C++	C with Classes (informally)	Object-oriented extension of C
C#	C Sharp	Microsoft's object-oriented language for .NET
PHP	Hypertext Preprocessor	Server-side scripting language for websites
JS	JavaScript	Scripting language for interactive webpages
TS	TypeScript	JavaScript with static typing
VB	Visual Basic	Microsoft's beginner-friendly language
ASM	Assembly (Language)	Low-level, hardware-close programming language
COBOL	Common Business-Oriented Language	Older language used in banking/business systems
FORTRAN	Formula Translation	Early language for scientific/engineering computing
BASIC	Beginner's All-purpose Symbolic Instruction Code	Simple language for beginners
LISP	List Processing	Language used in AI research
PERL	Practical Extraction and Reporting Language	Scripting language for text processing
YAML	YAML Ain't Markup Language	Human-readable data format for config files

Audio Codecs & Formats

Abbr.	Full Form	Meaning
MP3	MPEG Audio Layer III	Most common compressed audio format
AAC	Advanced Audio Coding	Higher-quality compressed audio (used by Apple)
WAV	Waveform Audio File Format	Uncompressed, high-quality audio format
FLAC	Free Lossless Audio Codec	Compressed audio with no quality loss
OGG	Ogg Vorbis (container format)	Open-source compressed audio format
WMA	Windows Media Audio	Microsoft's audio compression format
PCM	Pulse Code Modulation	Raw digital audio encoding method
DTS	Digital Theater Systems	Surround sound audio format for movies
ALAC	Apple Lossless Audio Codec	Apple's lossless compressed audio format
MIDI	Musical Instrument Digital Interface	Standard for digital music instruments/software
SBC	Low-Complexity Subband Codec	Default Bluetooth audio codec
aptX	(Brand name, not an acronym)	Qualcomm's high-quality Bluetooth audio codec
LDAC	(Sony's brand name)	Sony's high-resolution Bluetooth audio codec

Cables, Ports & Connectors

Abbr.	Full Form	Meaning
DVI	Digital Visual Interface	Digital display connector, bridge between VGA and HDMI
DP	DisplayPort	High-performance digital display connector
AV	Audio-Video (cable)	Older composite cable (yellow/red/white RCA plugs) for TVs
RCA	Radio Corporation of America	Connector type used in AV/composite cables
USB-C	Universal Serial Bus Type-C	Modern reversible connector for data, video & charging
USB-A	Universal Serial Bus Type-A	Classic rectangular USB connector
PS/2	Personal System/2	Older round connector for keyboard/mouse
SATA	Serial Advanced Technology Attachment	Cable connecting storage drives to motherboard
RJ45	Registered Jack 45	Standard connector for Ethernet/LAN cables
TRS	Tip-Ring-Sleeve	Standard analog audio jack (headphone plug)
TOSLINK	Toshiba Link	Optical audio cable for surround sound
eSATA	External SATA	External version of SATA for external drives

Video Formats & Codecs

Abbr.	Full Form	Meaning
MP4	MPEG-4 Part 14	Most common video container format
MKV	Matroska Video	Flexible open-source video container
AVI	Audio Video Interleave	Older Windows video container format
MOV	QuickTime Movie	Apple's native video format
WMV	Windows Media Video	Microsoft's compressed video format
FLV	Flash Video	Older video format used for web streaming
WebM	Web Media	Open-source video format for web use
H.264	Advanced Video Coding (AVC)	Widely used video compression standard
H.265	High Efficiency Video Coding (HEVC)	Newer, more efficient video compression
VP9	Video Processor 9 (Google codec)	Google's open video codec used by YouTube
AV1	AOMedia Video 1	Newer royalty-free video codec
MPEG	Moving Picture Experts Group	Standards body/format for video compression
FPS	Frames Per Second	Number of images shown per second in video
DVD	Digital Versatile Disc	Optical disc format for standard-definition video
VOD	Video On Demand	Streaming videos watched anytime

Screen & Display Types

Abbr.	Full Form	Meaning
LCD	Liquid Crystal Display	Common flat-panel display using liquid crystals
LED	Light Emitting Diode	LCD display backlit with LEDs
OLED	Organic Light Emitting Diode	Self-lit display with deeper blacks, no backlight
AMOLED	Active Matrix OLED	OLED variant common in smartphones
QLED	Quantum Dot LED	LED display enhanced with quantum dot technology
IPS	In-Plane Switching	LCD type with better viewing angles and color
TN	Twisted Nematic	Fast but lower color-accuracy LCD panel type
VA	Vertical Alignment	LCD panel type with strong contrast
CRT	Cathode Ray Tube	Older, bulky display technology
HDR	High Dynamic Range	Wider brightness and color range on displays
PPI	Pixels Per Inch	Measure of display sharpness/density
Hz	Hertz (Refresh Rate)	Number of times a screen refreshes per second

Screen Resolutions

Abbr.	Full Form	Meaning
HD	High Definition	720p resolution standard
FHD	Full High Definition	1080p resolution standard
QHD	Quad High Definition	1440p resolution standard (also called 2K)
UHD	Ultra High Definition	4K resolution standard
8K	8K Ultra High Definition	Extremely high resolution (7680×4320)
SD	Standard Definition	Older, lower-resolution video standard

Mobile & Telecom

Abbr.	Full Form	Meaning
SIM	Subscriber Identity Module	Chip that identifies your mobile number on a network
eSIM	Embedded SIM	Built-in digital SIM, no physical card needed
IMEI	International Mobile Equipment Identity	Unique ID number for a mobile device
GSM	Global System for Mobile Communications	Common mobile network standard
CDMA	Code Division Multiple Access	Older mobile network technology
4G	Fourth Generation (mobile network)	Faster mobile internet standard before 5G
5G	Fifth Generation (mobile network)	Latest high-speed mobile internet standard
NFC	Near Field Communication	Short-range wireless tech for contactless payments
OTA	Over-The-Air (update)	Software updates sent wirelessly to devices
APN	Access Point Name	Settings that connect a phone to mobile internet
RCS	Rich Communication Services	Upgraded SMS with media, read receipts, etc.
eKYC	Electronic Know Your Customer	Digital identity verification process

Gaming

Abbr.	Full Form	Meaning
FPS	First-Person Shooter	Game genre played from the character's viewpoint
RPG	Role-Playing Game	Game where players control a character's story
MMO	Massively Multiplayer Online (game)	Game with thousands of players online together
MOBA	Multiplayer Online Battle Arena	Team-based strategy game genre
NPC	Non-Player Character	Computer-controlled character in a game
DLC	Downloadable Content	Extra game content bought after release
PvP	Player versus Player	Players competing against each other
PvE	Player versus Environment	Players fighting computer-controlled enemies
HUD	Heads-Up Display	On-screen game info like health, map, ammo
AFK	Away From Keyboard	Player temporarily not at their device
GG	Good Game	Common phrase said after a match ends

Battery & Charging

Abbr.	Full Form	Meaning
mAh	Milliampere-hour	Unit measuring battery capacity
PD	Power Delivery	Fast-charging standard for USB-C devices
QC	Quick Charge	Qualcomm's fast-charging technology
Wh	Watt-hour	Unit of energy, often used for power banks
BMS	Battery Management System	Circuit that protects and manages battery health

Camera & Photography

Abbr.	Full Form	Meaning
ISO	International Organization for Standardization	Camera setting controlling light sensitivity
DSLR	Digital Single-Lens Reflex	Camera type using a mirror and interchangeable lenses
EXIF	Exchangeable Image File Format	Metadata stored inside photo files
RAW	(Not an acronym)	Unprocessed, uncompressed image format from a camera
OIS	Optical Image Stabilization	Hardware that reduces camera shake
EIS	Electronic Image Stabilization	Software-based shake reduction in video
MP	Megapixel	Unit measuring camera image resolution

Data & Storage Units

Abbr.	Full Form	Meaning
bit	Binary Digit	Smallest unit of digital data (0 or 1)
B	Byte	8 bits; basic unit of digital storage
KB	Kilobyte	1,024 bytes
MB	Megabyte	1,024 kilobytes
GB	Gigabyte	1,024 megabytes
TB	Terabyte	1,024 gigabytes
Mbps	Megabits Per Second	Common unit for measuring internet speed
GBps	Gigabytes Per Second	Unit for very fast data transfer speeds

Messaging

Abbr.	Full Form	Meaning
SMS	Short Message Service	Basic text messaging between phones
MMS	Multimedia Messaging Service	Text messages that include photos, video, or audio
IM	Instant Messaging	Real-time text chat over the internet
DM	Direct Message	Private message sent on social media
PM	Private Message	Another term for a direct/private message
E2EE	End-to-End Encryption	Messages readable only by sender and receiver
SIP	Session Initiation Protocol	Protocol used to set up internet voice/video calls
POP3	Post Office Protocol version 3	Older method of downloading email to a device
CC	Carbon Copy	Sending an email copy openly to other recipients
BCC	Blind Carbon Copy	Sending an email copy hidden from other recipients

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