

New features available  
with iPadOS 17.

# Key Features and Enhancements

## Lock Screen

**Widgets on the Lock Screen.** Place widgets on your iPad Lock Screen on the left side. Larger widgets are available to glance at information like the weather, time, date, battery levels, upcoming calendar events, alarms and time zones.

**Rotation support.** In portrait, configure a set of widgets to appear under the time. Rotating to landscape offers more flexibility to add widgets on the left side. Select widgets above the time for both orientations.

**Stylised date and time.** Customise the look of the date and time on your Lock Screen with expressive font styles and colour choices.

**Font weight.** Adjust the weight of the font for the time.

**Multilayered photo effect.** Photo subjects are dynamically displayed in front of the time to make the subject of the photo pop.

**Lock Screen editing.** It's easy to customise the font, colour or placement of elements on your Lock Screen by tapping the element.

**Adaptive tinting.** Widgets blend seamlessly with your wallpaper, optimising for legibility and clarity of photo wallpaper.

**Wallpaper gallery.** Select from a gallery of personalised Lock Screens, each with a unique backdrop, stylised view of the date and time, and data-rich widgets.

**Suggested photos.** iPadOS intelligently suggests photos from your library that look great on the Lock Screen.

**Motion effect for Live Photo wallpaper.** An all-new motion effect for Live Photos makes your Lock Screen feel more dynamic than ever on wake, and settles into your Home Screen when unlocked.

**Photo shuffle.** See a set of photos shuffle automatically on your Lock Screen. Set the cadence for how often your Lock Screen updates with a new photo or let iPadOS surprise and delight you throughout the day.

**Multilayered photo effect for photo shuffle.** Subjects can be dynamically displayed in front of the time to make the subject of the photo pop.

**Photo styles.** Apply styles to photos on the Lock Screen that automatically change the colour filter, tinting and font style to complement one another. Choose from new styles that add colour to the background behind a subject or replace it entirely with gradients or solid colours.

**Astronomy wallpapers.** See the Earth, Moon and other planets in the solar system with a set of dynamic astronomy-themed Lock Screens that update with live conditions, like your live location on Earth or based on the time of day on Mars.

**Kaleidoscope wallpaper.** This wallpaper uses an algorithm to analyse the photo you pick, find the most interesting elements and create a beautiful kaleidoscope pattern that moves throughout the day. Multiple styles reveal unique expressions of the same photo. This wallpaper dynamically adapts when you rotate iPad.

**Apple collections.** Choose from a set of dynamic, classic and landscape Lock Screens. Apple collections include Lock Screens to celebrate special cultural moments, like Pride and Unity, and special “hello” and lake wallpaper.

**Weather wallpaper.** Glance at live conditions on your Lock Screen as the weather changes throughout the day.

**Emoji wallpaper.** Create patterned Lock Screens based on your favourite emoji.

**Colour wallpaper.** Choose a colour gradient for your Lock Screen using your favourite colour combinations.

## **Lock Screens made for Focus.**

iPadOS suggests a relevant set of Lock Screens for provided Focus options, such as a data-rich Lock Screen while you're using the Work Focus or a photo Lock Screen while you're using the Personal Focus.

**Live Activities.** Live Activities make it easier to stay on top of things that are happening in real time, directly from the Lock Screen. Includes Now Playing and timers.

**Now Playing.** Listen to music, podcasts or other audio content with the new design for Now Playing, which expands to a full-screen view that celebrates album art.

**Multiple timers.** Create more than one timer and easily glance at all your running timers.

**Notification view.** Choose to view notifications in an expanded list view, stacked view or count view. Simply swipe to change the layout in context.

**Notifications roll in from the bottom.** Notifications, including your notification summary, roll in from the bottom of your Lock Screen as you receive them, making them easy to glance at as they come in.

**New notifications design.** Bold text and more prominent imagery from apps make notifications visually pop.

## **Widgets**

**Interactive widgets.** Take action directly on a widget on your Home Screen and Lock Screen. Complete to-dos, play or pause your media, access your home controls and much more.

**Undo on Home Screen.** Undo where you placed a widget on your Home Screen by shaking iPad or using a three-finger tap. The layout of your page will revert to what you had before.

**Photos album widget.** Select a specific album from the Photos app so photos from your favourite album appear in your Photos widget.

**Music widget.** Play or pause a song or album, or see a dynamic list of the top charts and, for subscribers, recommendations.

**Podcasts widget.** Play or pause a podcast episode.

**Safari widget.** Get quick access to websites in your Safari reading list.

**Home widget.** Access controls you've set up in your home.

**Contacts widget.** See the location, messages, shared photos and more for your contacts with just a tap.

## **Messages**

**Stickers.** The new Stickers experience provides you with a single home for all your stickers, including Live Stickers, Memoji, Animoji, emoji stickers and any third-party sticker packs you've downloaded with the ability to react to a message with any sticker through the plus button or directly through the Tapback menu.<sup>1</sup>

**Search filters.** Search with more precision by combining search filters such as people, keywords and content types like photos or links to find exactly the message you're looking for.

**Catch-up arrow.**<sup>1</sup> Easily jump to your first unread message in a group conversation by tapping the arrow visible in the top-right corner.

**Swipe to reply.** Reply to a message inline by simply swiping to the right on any bubble.

**Audio message improvements.** When recording an audio message, you are now able to pause and then continue recording the same message before sending. For received audio messages, play them back at up to 2x speed, continue listening when leaving the Messages app or view a transcription.

**Location-sharing improvements.** Share your location or request someone else's location directly from the plus button in Messages with the new Location app. Location continues to show inline as a bubble in the transcript until the location-sharing session is over.

**Live Location.** View the location of your Find My friends at the top of the conversation under their name.

**One-time verification code clean-up.** One-time verification codes are automatically deleted from the Messages app after using them with autofill anywhere in the system.

**iMessage features in MMS groups.** MMS groups support more iMessage features, including tapbacks, effects, edit, replies and more when using iMessage.

**Messages in iCloud improvements.**<sup>1</sup> Enabling Messages in iCloud will sync Messages settings such as Text Message Forwarding, Send and Receive accounts and SMS filters across devices.

**Filter conversations.** Filter conversations by unread, known senders and unknown senders.

## FaceTime

**Leave a message.** When someone doesn't pick up your FaceTime call, leave them a video or audio message to capture exactly what you want to say. Record a video message on your front or back camera, and take advantage of all the same video effects that make you look your best in FaceTime. For FaceTime Audio calls, you can leave a voicemail.

**Updated Share menu.** Discover ways to collaborate while on a FaceTime call.

**Silence unknown callers.** Choose to automatically decline incoming FaceTime calls from people who are not in your Contacts.

**Reactions and gestures.**<sup>2</sup> Layer screen effects like balloons, confetti, stormy rain, fireworks or laser beams directly into your camera feed. Trigger them with a tap, or go hands-free and trigger reactions using your gestures alone.

**FaceTime app on Apple TV 4K.**<sup>3</sup> Connect with family and friends around the world from the comfort of your couch. Launch the FaceTime app on Apple TV to initiate a call or start on iPad and hand off to Apple TV. And Centre Stage keeps you perfectly framed on the call.

## Health

**Health app on iPad.** With a design optimised for the larger display, you can see rich detail at a glance in Summary, review trends and highlights, quickly navigate to the information that matters most to you and dive into the details with interactive charts.

**Health data at your fingertips.** See your health and fitness data from your iPhone, iPad and Apple Watch, as well as compatible third-party apps and devices — all in one place. Your health data is seamlessly and securely synced across devices.

**Track your health data.** Create medication reminders, track your menstrual cycle and log health data like symptoms, directly from your iPad.

**Health Sharing.** Securely share health data with those closest to you, receive important notifications about your loved ones' health, and view things like their activity, mobility data, heart rate data and trends.

**Privacy.** Your health data stays on your device and is encrypted when your iPad is locked with a passcode, Touch ID or Face ID. The Health app on iPad is built to keep your data secure and protect your privacy.

**New look for Favourites.** Favourites now includes rich chart previews, so you can see more information at a glance.

**Follow-up medication reminders.** Choose to receive a follow-up reminder if you haven't logged a scheduled medication, vitamin or supplement, to help you stay on track. And you have the option to set these reminders as critical alerts.

**State of mind reflection.** Log your momentary emotion and daily mood from the Health app — which can help you increase emotional awareness, build resilience and improve well-being. Choose what's having the biggest impact on you and describe your feelings.

**State of mind insights.** Get valuable insights into your state of mind with interactive charts in the Health app. View highlights such as what is contributing to your emotions. See your moods and emotions alongside lifestyle factors that can influence them, including exercise, sleep, time in daylight and mindful minutes.

**Mental health assessments.** Take mental health assessments often used in clinics to understand your current risk for depression and anxiety, and if you might benefit from getting support. You can download a PDF to share with your doctor and compare your results over time.

**Mental health education and resources.** Read articles to help you understand and improve your mental health and well-being, and access localised resources.

**Screen Distance.**<sup>4</sup> Reduce the risk of myopia by encouraging children to increase the distance at which they view their devices. Screen Distance also gives adults the opportunity to reduce digital eye strain.

**Time in daylight.**<sup>5</sup> More time outdoors in daylight can reduce the risk of myopia. Your Apple Watch can measure the amount of time you spend in daylight and you can see it in the Health app. With Family Setup, kids who don't have their own iPhone can pair their Apple Watch to their parent's iPhone, giving parents visibility into the amount of time their kids are spending in daylight.

## PDFs<sup>1</sup>

**Intelligent form detection.**<sup>6</sup> Fillable documents and forms can now be automatically identified across the system, like in Files, Mail or scanned documents.

**Enhanced AutoFill.**<sup>6</sup> Populate information such as names and addresses on forms even faster as powerful on-device language models identify fillable fields and enable AutoFill.

## Notes

**Inline PDFs and document scans.** PDFs and document scans are presented full width in your note, making it easy to view and interact with them. It's quick to flip to a page of a document you're reviewing and great for previewing multiple PDFs in the same note.

**Easy review and markup.** Read and annotate, or sketch directly on PDFs and scanned documents in your note when using Apple Pencil.

**Linked notes.** Create links to other notes to connect ideas, content or any information. It's perfect to link together research notes or recipes, or even to create a lightweight wiki for your team. Type ">>" for a shortcut to add links while writing in your note.

**Block Quote.** Block Quote formatting makes it easy to visually offset a section of writing with a quote bar.

**Monostyled text.** Monospaced formatting has been updated to Monostyled, with inset text and a distinct background.

**Open in Pages.** Create a Pages document from your note with a quick selection from the Share menu.

## Safari

**Profiles.** Keep your browsing separate for topics like work and personal. Each profile has separate history, cookies, extensions, Tab Groups and favourites.

**Locked Private Browsing.** Private Browsing locks when you're not using it to keep your tabs protected from others with access to your device. Unlock with Face ID, Touch ID or device passcode.

**Advanced tracker blocking and fingerprint protection in Private Browsing.** Keeps your most sensitive browsing safe with more aggressive tracker blocking and fingerprinting protection.

**Link tracking protection in Private Browsing.** Removes tracking used to identify you from URLs.

**Search engine in Private Browsing.** Set a unique search engine for Private Browsing.

**Streamlined search.** Search in Safari is more responsive than ever and shows easier-to-read and more relevant suggestions.

**Reading List widget.** Add your Safari Reading List to your Home Screen for easy access.

## Freeform

**Improved drawing.** Make eye-catching boards with new drawing tools like Variable Width Pen, Fountain Pen, Highlighter, Watercolour, Slicing Eraser and Ruler; plus support for hover, tilt and snap to shape.

**Better diagramming.** Quickly build diagrams and flowcharts by dragging connector handles to connect objects.

**Follow Along.** Guide collaborators around your board so that they can see what you see as you move around the canvas.

**Share to Freeform.** Use the share sheet to add content from other apps to your Freeform boards.

**PDF Markup.** Fill out forms, take notes or doodle on PDF documents you insert into Freeform.

**Explore 3D objects.** Explore 3D objects embedded on your canvas using QuickLook.

## Stage Manager<sup>7</sup>

**More flexible window positioning.** Create your ideal window layout using full-width selectable menu bars and more flexible positioning of apps.

**Fast app pairing.** Combine apps for a specific task or project by holding an active window and tapping an app from the Dock or recently used app on the side to pair with it.

**Quickly add apps to your workspace.** Add an app to your workspace by holding down Shift on an external keyboard while tapping the app in the Dock or a recently used app.

**External display cameras.**<sup>8</sup> Use the built-in camera on an external display for enhanced video conferencing.

## Spotlight

**App Shortcuts in Top Hit.** When you search for an app, Spotlight intelligently offers you App Shortcuts to your next action within the Top Hit, so if you search “Photos”, you can jump straight to your Favourites album.

**Enhanced visual results.** Find what you are looking for faster with search results that pop with familiar colours and iconography.

**Video search.** Search through the videos on your devices by scene, people and activities. When you tap into a video result, a new scrubber interface will indicate where in the video your search appears.

**Settings in Top Hits.** When you search for settings such as “Airplane Mode”, “Wi-Fi”, “Dark Mode” and more, Spotlight will offer you a toggle for the setting in the Top Hit.

**Data Detector quick actions.** Phone numbers, email, dates and times typed into the Spotlight search bar will now offer quick actions such as call number, create contacts, send email and create calendar event.

## Siri

**Expanded bilingual Siri for Indian languages.** Siri for English (India) supports even more types of requests, including setting timers and alarms, launching apps, playing music and more. It understands requests that mix English with any of nine different Indian languages.

## AirPlay

**Intelligent device list.** Easily find the TV or speaker you want to enjoy your content on; iPad uses on-device intelligence to learn your preferences over time to show devices in the AirPlay list in order of relevance.

**Intelligent suggested device connections.** Quickly connect to your preferred AirPlay device by tapping proactive suggestions shown to you as a notification.

**Intelligent automatic connections.** Start content on your AirPlay device by tapping Play when iPad automatically connects to the most relevant AirPlay-compatible device.

**AirPlay in hotels.** Securely and privately enjoy your content on the big screen in selected hotels by simply scanning a unique QR code on the AirPlay-compatible TV in your room.

## AirPods

**Adaptive Audio.**<sup>9</sup> Adaptive Audio is a new AirPods Pro (2nd generation) listening mode that automatically adjusts the level of noise control for you — adding Active Noise Cancellation in noisier environments and Transparency in quieter conditions — to make it easier and more convenient to use AirPods Pro through the changing environments and interactions every day.

**Personalised volume.**<sup>9</sup> Adjusts the volume of your media in response to your environment and listening preferences over time.

**Conversation Awareness.**<sup>9</sup> When you start speaking, AirPods Pro will lower your media volume and enhance the voices in front of you, all while reducing background noise.

**Press to mute and unmute.**<sup>10</sup> Press the AirPods stem or the Digital Crown on AirPods Max, once to mute or unmute your microphone when on a call, and you can press twice to end a call.

## Communication Safety

**Sensitive content warning.** You have the option to blur photos and videos containing nudity, allowing you to choose whether you want to see them.

**Expanding protections for children.** Children in iCloud families will now be protected in

AirDrop, the system Photo picker, the Phone app when sending or receiving a Contact Poster and in FaceTime video messages. Children will now be protected when sending or choosing to view sensitive videos, in addition to photos.

## Privacy and Security

**Photos privacy prompt improvements.** An embedded photo picker for apps lets you pick photos to share within the app's experience, without sharing your entire library. When an app *does* ask to access your entire library, you'll see details of how many and which photos will be shared before you make a decision. If you grant access, you'll receive reminders from time to time.

**Add-only Calendar permission.** A write-only permission for Calendar gives apps the ability to write new events to your device, without being able to see your information.

**App privacy improvements.** App developers can provide even more accurate Privacy Nutrition Labels using new tools that provide better transparency into the data practices of their partners.

**Link tracking protection.** Some websites add extra information to their URLs in order to track users across other websites. Now this information will be removed from the links users share in Messages and Mail, and the links will still work as expected. This information will also

be removed from links in Safari Private Browsing.

**Lockdown Mode.** Provides new networking defaults, safer media handling and even sandboxing and network security optimisations. Turning on Lockdown Mode further hardens device defences and strictly limits certain functionalities, sharply reducing the attack surface for those who need it.

## Accessibility

**Assistive Access.** A cognitive accessibility feature with large text, visual alternatives to text, and focused choices for Phone and FaceTime, Messages, Camera, Photos and Music.

**Personal Voice.**<sup>11</sup> A speech accessibility tool for people who are at risk of losing their voice to create a voice that sounds like them privately and securely on iPad, and use it with Live Speech in phone and FaceTime calls.

**Live Speech.** Type what you want to say and have it spoken out loud in phone calls, FaceTime calls or in-person conversations.

**Point and Speak in Magnifier Detection Mode.**<sup>12</sup> Read out only the text you point towards, for example, when you are punching in an entry code on a keypad.

**Text Detection in Magnifier Detection Mode.** Read out all the text that is visible in the field of view of your camera.

**Siri speaking rate.** Customise the rate at which Siri speaks to you, with options ranging from 0.8x to 2x.

**Automatically pause animated images.** Pause animated images by default, such as GIFs in Messages and Safari for your visual comfort.

### **Virtual game controller with Switch Control.**

Turn your favourite set of switches — for example, sound actions or head movements — into a virtual game controller.

**Improvements to eye-tracking experience.** Smoother navigation and keyboard experience for users who pair a third-party eye-tracking accessory to iPad as an alternative to touch and typing.

## **AirDrop**

**Continue over the Internet.** AirDrop transfers will continue over the Internet when you step out of range.

## **Find My**

**Item sharing.** Up to five other people can share an AirTag or Find My network accessory. Everyone in the sharing group will be able to see the item's location, get directions to the item and Play Sound to help pinpoint a shared item's location when nearby.

## **Maps**

**Offline Maps.** Download maps for use when your iPad doesn't have a Wi-Fi or mobile signal. Get routes when driving or walking. Even get an estimated time of arrival based on historical traffic. See rich information for places, including hours, ratings and more.

**EV routing improvements.**<sup>13</sup> Select a preferred charging network when planning a route for your electric vehicle. Apple Maps will show you charger availability on the map and in search results. Search for chargers based on plug type, network and more.

## **Reminders**

**Grocery Lists.** Grocery Lists automatically group related items into sections (dairy, produce, etc.) as you add them. You're able to change how the items are grouped and the list remembers your preferences.

**Early reminder.** Specify a time to get notified before your reminder is due.

**Suggested reminders.** Quickly recreate reminders you've completed before in as little as a single tap.

**Sections.** Organise reminders within a list by creating headers to group related reminders.

**Column view.** Reminders sections can be organised in columns across your screen,

making it easy to visualise your tasks or even plan with simple kanban boards.

**Complete from widget.** Tap on a reminder in the widget to complete it without opening the app.

## **Music**

**SharePlay.** It's easier for everyone to control music in the car — even passengers in the back seat — so everyone can play their favourite music and contribute to what's playing.

**Collaborate on playlists.**<sup>1</sup> Invite friends to join your playlist and everyone can add, reorder and remove songs. In Now Playing, you can use emoji to react to the song choices.

**Favourite Songs playlist.**<sup>1</sup> Quickly get back to your favourite songs in this new playlist. Find the Favourite Songs playlist in your Library or just ask Siri.

**Even more to favourite.**<sup>1</sup> Select your favourite songs, albums, playlists and artists. Your favourite music is automatically added to your Library and improves your recommendations.

**Apple Music Sing with Continuity Camera.**<sup>14</sup> Be your own music video star with Apple Music Sing. Connect your iPad to Apple TV 4K and see yourself on the big screen and apply all-new camera filters as you sing along to the lyrics of your favourite songs.



**Crossfade between songs.** Now you can experience a smooth, gapless playback experience in Apple Music. Each song fades in while the previous song is fading out, creating a continuous mix of your favourite music.

**Song credits.** Discover the creators behind your favourite songs, with comprehensive information on the artists who contributed to your favourite music, the instruments they played and their roles inside and out of the studio.

**Motion in Now Playing.** Album art now appears full screen in the music player, including motion where available, creating an even more immersive playback experience that showcases your favourite artists.

## Home

**Activity history.**<sup>15</sup> See a recent history for door locks, security systems and contact sensor events directly in the Home app.

## Photos

**Pets in the People album.** Individual pets are now surfaced in the People album just like friends or family members.

**Siri Suggestions in the People album.** Photos will intelligently suggest matches from Contacts in the People album to help you name individuals faster.

**Add unnamed people.** Unnamed individuals can be viewed in the People album.

**Improved People album accuracy.** People album recognises significantly more photos of your favourite people, even if they're turned away from the camera.

**Drag to reorder in a memory.** Reorder photos and videos within a memory by dragging and dropping them into a new position in the timeline.

**Add content to a memory.** Add any photo or video from your library to a memory.

**Smart copy and paste edits.** Copied and pasted edits now intelligently match exposure and white balance between images.

**Quick access to crop.** Zoom in on a photo and instantly crop with a tap or touch and hold to crop to a specific aspect ratio.

**Improvements to iCloud Photos syncing.** iCloud Photos syncing will be paused less frequently, and when syncing is paused a Sync Now control will appear.

**Convert file type when sharing.** Choose to convert and share any photo as a JPG, or video as a MOV file.

## Apple ID

**Proximity sign-in.**<sup>1</sup> Signing in to set up a device is now easier than ever. Simply bring an existing signed-in and trusted iPhone or iPad into proximity, pair the devices by scanning the particle cloud and you're signed in automatically.

**Sign in with email or phone number.** When signing in with an Apple ID and password, you no longer need to remember your exact Apple ID email address. You can use any email address or phone number on file in your account.

**Passkeys for Apple ID on the web.** Use a passkey when signing in with your Apple ID on the web.

# Even More

## Books

**Search by series and genre.** Discover series and genre pages via search and navigate directly to these pages to find curated content.

**Personalised Read Now.** Explore personalised top picks and content recommended for you based on your favourite books and genres on the Read Now tab.

## Camera

**Horizon level.** A virtual horizon level provides visual feedback when iPad is level with the ground.

## Clock App

**Multiple timers.** Run several timers on iPad simultaneously, perfect for when you're cooking and need to keep track of different steps and dishes.

**Labelled timers.** Name timers so you know what each is counting down for.

**Timer presets.** Start a timer quickly with a range of preset options when creating a new timer.

**Recents.** Restarting your most-used timers is as simple as a tap with a new recents view.

**Live Activities.** Easily glance at all your running timers on the Lock Screen on iPad with Live Activities.

## Contacts

**Add pronouns.** Contact cards include a field for entering pronouns. Pronouns are stored on device and are not shared.

## Dictionary

**New dictionaries.** System dictionaries now include Bulgarian, Catalan, English–Greek, English–Malay, English–Swedish, Greek, Malay, Polish, Punjabi and Romanian.

## Dictation

**Improved speech recognition.**<sup>16</sup> Dictation has improved accuracy and supports more languages on device using an all-new speech recognition model.

**Cursor animation.**<sup>17</sup> The redesigned Dictation cursor animates and glows, improving the look and feel while also indicating that Dictation is active.

## Inclusive Language

**New term of address languages.** Term of address now supports German and European Portuguese.

## iCloud+

**Hide My Email in Apple Pay.** iCloud+ subscribers can use Hide My Email to keep their personal email private when making Apple Pay purchases.

## iCloud

**Recommended for you.** iCloud settings include helpful suggestions to get the most out of your iCloud experience. Quickly turn on features or discover new ways to use iCloud.

## Family Sharing

**Passwordless sign-in for kids.** Easily sign kids into a new device without using a password. Bring your iPhone or iPad near the device you'd like to set up for your child and tap on their account to begin. After that, anytime your child is prompted to sign in, they can simply enter their device passcode.

**Improved Screen Time and parental controls.**

View a summary of your kids' Screen Time details on their Family Sharing page with one-tap access to all of their Screen Time and parental control settings.

**Share an iCloud Drive folder.** Provide easy access to family documents, photos and more when you share an iCloud Drive folder with people in your family group.

**Expanded Family Checklist.** Get the most out of Family Sharing with new recommendations and a reorganised checklist. Quickly turn on features and manage settings for the whole family.

## Keyboard

**Inline predictive text.**<sup>18</sup> Get single and multi-word predictions directly in the text field based on what the keyboard predicts you're going to type, so you can complete what you're typing even faster by just tapping Space bar.

**Improved Autocorrect accuracy.** Autocorrect fixes mistakes for you more accurately than ever before by leveraging a new transformer language model in English, French and Spanish keyboards. Additionally, enhanced on-device language models make autocorrect more accurate across even more languages.<sup>18</sup>

**Easier Autocorrect editing.** Autocorrected words are temporarily underlined so you know what has been changed as you're typing. Tapping on an autocorrection shows a pop-up with the original text so you can revert with just a tap.

**Enhanced sentence corrections.**<sup>18</sup>

Autocorrection of sentences can correct more types of grammatical mistakes. The keyboard also underlines corrections and suggestions, so they are easier to see and change if needed.

**Improved predictions.** Predictive text provides even better word predictions by leveraging a new transformer model in Chinese (Simplified), English, French and Spanish keyboards. Additionally, enhanced on-device language models improve predictions across even more languages.<sup>19</sup>

**Explicit language handling.** The keyboard will add explicit language that you use to your personal vocabulary list and will learn this usage for each different app. Explicit language that is learnt is used for autocorrect, QuickPath, suggestions and predictive text.

**Updated text cursor.** The text cursor briefly displays an indicator that shows the current input language when you switch keyboard languages. The indicator can also signal helpful input details like when Caps Lock is on.

**New QuickPath languages.** QuickPath is supported for Arabic, Hebrew, Korean, Polish and Romanian keyboards.

**New predictive text languages.** Predictive text is supported for Hebrew, Polish and Romanian keyboards.

**New multilingual language support.** Multilingual typing is supported for Polish, Romanian and Turkish keyboards.

**New Scribble languages.** Scribble is supported for Arabic and Vietnamese handwriting.

**New keyboard layouts.** New keyboard layouts are available for Akan, Chuvash, Hausa, Hmong (Pahawh), Ingush, Kabyle, Liangshan Yi, Mandaic, Mi'kmaw, N'Ko, Osage, Rejang, Tamazight (Standard Moroccan), Wancho, Wolastoqey and Yoruba.

**New transliteration keyboard languages.** Kannada, Malayalam, Tamil and Telugu keyboards include transliteration support, so you can type pronunciations using Latin characters that are automatically converted to the desired script as you type.

**Japanese handwriting keyboard.** The Japanese keyboard supports handwriting, so you can draw characters in the keyboard canvas which are automatically converted to text.

## Screenshots

**Save screenshot as image.** Choose whether to save a full-page screenshot in Safari, Pages or Notes as an image or a PDF.

## Stickers

**Sticker drawer.** Easily access all your stickers systemwide from the emoji keyboard in a consolidated sticker drawer that includes Live Stickers, Memoji, emoji stickers and all your third-party sticker packs.

**Live Stickers.** Tap and hold on any person, animal or object in photos to lift it away from the background and create a Live Sticker. Create animated Live Stickers from Live Photos, which are automatically added to your sticker drawer.

**Live Stickers effects.** Tap and hold on a Live Sticker to edit with fun effects like Shiny, Puffy, Comic and Outline. These effects react to the gyroscope when you tilt your iPad in Messages.

**Emoji stickers.** Peel and stick emoji stickers on messages, photos, documents and more.

**Sticker integration in Markup.** Add stickers to photos, documents, screenshots and more with Markup.

**Live Stickers colour harmonisation in Markup.** When you peel and stick a Live Sticker onto a photo in Markup, the colour and lighting of the sticker will be automatically harmonised to be consistent with the colour and lighting of the background photo.

## Live Text

**Vertical text recognition.** Live Text recognises vertically oriented Chinese, Japanese and Korean text.

**Improved handwriting recognition.** Live Text recognises handwritten text even better.

## Mail

**One-time verification code.** One-time verification codes that are sent to your email will now autofill in the password field so you no longer need to search in your Mail messages, and they are automatically deleted after you use them.

**Edit hyperlink text.** Edit a URL link in your Mail messages so you can format messages more neatly.

**Travel Instant answers in search.** Travel-related messages, like hotel and flight confirmations, will appear at the top of your search results when your travel date is near.

## Memoji

**More stickers.** Three additional stickers come to Memoji: Smirk, Angel Halo and Peekaboo.

## Passwords

**Password and passkey sharing.** Share passwords with the people you're closest with.

Create a group to share with and add or edit passwords at any time.

### One-time verification code autofill from Mail.

One-time verification codes you receive in Mail now autofill in Safari, making it easy to log in without leaving the browser.

## Podcasts

**Improved playback controls.** Easily access your queue, playback speed and sleep timer.

**New Up Next design.** Quickly play and follow your favourite shows, now with episode art.

**Connect subscriptions.** Get subscriber-only podcasts from Apple Music and top apps.

**Search filters.** Easily filter search results by shows, episodes and channels.

## Shortcuts

**Siri improvements.** Siri can understand different phrasings when running App Shortcuts with your voice by leveraging new on-device flexible matching.

**Discover new features.** The new Shortcuts tab makes running shortcuts even easier with ready-made App Shortcuts from Voice Memos, Books, Notes and third-party apps. Just tap to run or touch and hold to add to your Home Screen for more convenient access.

**Easier automation.** App Shortcuts can be added alongside other system features with a

new automation setup flow. Additional triggers are now supported for Wallet, external displays and Stage Manager.

**New widgets.** New widget options for Home Screen and Lock Screen make running shortcuts more convenient, including an extra-large option for iPad.

## Text Display

**Vertical text support.** Chinese and Japanese text can be displayed vertically in supported apps and components like Contact Posters, Photos Memories and Calendar widgets.

**Arabic kashida support.** Arabic text can be presented in kashida style for creating a more beautiful and personalised look in supported apps and components like Contact Posters, Photos Memories and Calendar widgets.

**Text clipping and collision.** Character spacing dynamically adjusts to better accommodate non-Latin scripts with characters that may collide with one another or be vertically clipped.

**Punctuation white space.** Reduced punctuation white space in Chinese and Japanese scripts improves overall readability and design.

**Improved line breaks.** Enhanced line-breaking logic results in better readability of rendered text results.

## Translate

**New languages.** Translate, systemwide translation and Safari web page translation support Ukrainian.

**Streaming text.** See translations in real time as you enter text into the translation card with voice or the keyboard.

**New translation cards.** Translation cards are oriented to make it easier to know what language you are translating to and from.

**Copy translation.** After making a translation, you can tap the new copy button to add the translation to your Clipboard.

**Easier language selection.** Easily switch translation languages with a redesigned language picker.

**Redesigned conversations.** Viewing current translations is easier in the redesigned Conversation view.

**Single settings menu.** Settings are more easily discoverable in a single, consistent menu across tabs.

**Live camera translation.** Translate text in the Camera tab without needing to pause the view. High-quality tracking lets you simply point your camera at text and see overlaid translations in real time.

**Grammatical gender alternatives.** For gendered languages, view the gender alternatives for people and objects so you

can easily adjust translation outputs based on gender (e.g. “doctor/doctora”).

## Visual Look Up<sup>20</sup>

**Expanded domains.** Discover similar recipes from photos of food, map routes to stores identified in photos and the meaning of signs and symbols on things like laundry tags.

**Lift multiple subjects from background.** Lift multiple subjects from the background of photos and videos and place them in apps like Messages.

**Visual Look Up in Video.** Look up information about objects that appear in paused video frames.

**Visual Look Up from subject lift.** Look up information about objects you lift from photos directly from the callout bar.

## Weather

**Richer precipitation forecasts.** Prepare for potential precipitation conditions using the chance of precipitation forecast by the hour over the next 10 days.

**Wind overlay in maps.** Conveniently observe wind patterns including direction and speed for the next 24 hours through an animated wind map visualisation.

**Historical trends.** Plan your future travels and events using visualisations of seasonal

averages of temperature and precipitation conditions.

**Yesterday's weather.** Quickly understand how today's precipitation and temperature conditions compare to those from the day before.

**More specific location names.**<sup>21</sup> See the neighbourhood name for which the weather is being forecasted. This feature will be limited to your current location and selected cities.

**Intricate details about the moon.** Learn specific details about the moon on a given day including illumination, moonrise and moonset times, countdown to the next full moon and the geocentric distance of the moon from Earth. An all-new lunar phase calendar describes moon phase transitions.

**Improved support for standard units.** Weather conditions are displayed in standard units based on the region.

**Enhanced visual effects.**<sup>22</sup> Experience delightful depictions of weather conditions through visual effects that reflect the position of the sun and moon, wind direction and cloud cover, as well as rainy and frosty conditions.

## Video Conferencing

**Reactions and gestures.**<sup>2</sup> Layer screen effects like balloons, confetti, stormy rain, fireworks or laser beams directly into your camera feed. Trigger them with a tap, or go hands-free and trigger reactions using your gestures alone.

**Studio Light.**<sup>2</sup> Studio Light is available on iPadOS when using the front camera on iPad in a video conferencing app.

**Studio Light intensity.** Control the intensity of Studio Light, further darkening the background and illuminating your face.

**Portrait mode background blur.** Control the amount of background blur, adding more or less blur to the depth-of-field effect.

**External display camera support.**<sup>8</sup> Use the camera built into your external display or any USB camera when connected to iPad.

**External USB microphone support.** Use the microphone built into your external display or any USB camera when connected to iPad.

## Continuity Camera with Apple TV

**FaceTime app on Apple TV 4K.**<sup>3</sup> Connect with family and friends around the world from the comfort of your couch. Launch the FaceTime app on Apple TV to initiate a call or start on iPad and hand off to Apple TV. And Centre Stage always keeps you perfectly framed on the call.

**iPhone and iPad support.** Unlock new communications and entertainment experiences on the biggest screen in the home by taking advantage of the front-facing camera on iPad and its microphones.

## Stocks

**Business news in widget.** Business news relevant to the tickers you follow is surfaced in the Stocks widget.

## Wallet

**Multi-device provisioning.** When adding eligible payment cards to your iPad, you will be able to add the cards to your other Apple Pay-capable devices with one easy step.

Features are subject to change. Some features, applications and services may not be available in all regions or all languages.

<sup>1</sup>Coming in an update later this year. <sup>2</sup>Available on 12.9-inch iPad Pro (5th generation and later), 11-inch iPad Pro (3rd generation and later), iPad (10th generation), iPad Air (4th generation and later) and iPad mini (6th generation) when using the Front Camera. <sup>3</sup>Available on 12.9-inch iPad Pro (3rd generation and later), 11-inch iPad Pro (1st generation and later), iPad (8th generation and later), iPad Air (3rd generation and later) and iPad mini (5th generation and later) on Apple TV 4K (2nd generation and later). <sup>4</sup>Available on 12.9-inch iPad Pro (3rd generation and later) and 11-inch iPad Pro (1st generation and later). <sup>5</sup>Available on Apple Watch SE (2nd generation), Apple Watch Series 6 and later, and Apple Watch Ultra. <sup>6</sup>Available on 12.9-inch iPad Pro (3rd generation and later), 11-inch iPad Pro (1st generation and later), iPad Air (3rd generation and later), iPad mini (5th generation and later) and iPad (8th generation and later). <sup>7</sup>Available on iPad Air (5th generation), 12.9-inch iPad Pro (3rd generation and later) and 11-inch iPad Pro (1st generation and later). <sup>8</sup>Available on 12.9-inch iPad Pro (3rd generation or later), 11-inch iPad Pro (1st generation or later), iPad (10th generation), iPad Air (4th generation or later) and iPad mini (6th generation). <sup>9</sup>Available on 12.9-inch iPad Pro (2nd generation and later), 10.5-inch iPad Pro, 11-inch iPad Pro (1st generation and later), iPad Air (3rd generation and later), iPad (6th generation and later), iPad mini (5th generation and later) and AirPods Pro (2nd generation) with the latest firmware. <sup>10</sup>Available on 12.9-inch iPad Pro (2nd generation and later), 10.5-inch iPad Pro, 11-inch iPad Pro (1st generation and later), iPad Air (3rd generation and later), iPad (6th generation and later), iPad mini (5th generation and later), and AirPods Pro (2nd generation), AirPods (3rd generation), AirPods Pro (1st and 2nd generation) and AirPods Max with the latest firmware. <sup>11</sup>Available in English. <sup>12</sup>Available on 12.9-inch iPad Pro (4th generation and later) and 11-inch iPad Pro (2nd generation and later). <sup>13</sup>Electric vehicle routing requires iPhone and a compatible vehicle. <sup>14</sup>Available on 12.9-inch iPad Pro (3rd generation and later), 11-inch iPad Pro (1st generation and later), iPad (8th generation and later), iPad Air (3rd generation and later) and iPad mini (5th generation and later) with Apple TV 4K (3rd generation) running the latest operating system software. Apple Music subscription required. <sup>15</sup>Available for homes using the new Home architecture and a HomePod or Apple TV running as a home hub. <sup>16</sup>Available in Arabic (Saudi Arabia), Cantonese (China mainland, Hong Kong), Danish (Denmark), Dutch (Belgium, Netherlands), English (Australia, Canada, India, Ireland, New Zealand, Singapore, South Africa, UK, US), Finnish (Finland), French (Belgium, Canada, France, Switzerland), German (Austria, Germany, Switzerland), Hebrew (Israel), Italian (Italy, Switzerland), Japanese (Japan), Korean (South Korea), Malay (Malaysia), Mandarin Chinese (China mainland, Taiwan), Norwegian Bokmål (Norway), Portuguese (Brazil), Russian (Russia), Spanish (Latin America, Mexico, Spain, US), Swedish (Sweden), Thai (Thailand) and Turkish (Türkiye). Requires download of speech models. <sup>17</sup>Available in Australia, Austria, Brazil, Canada, Colombia, France, Germany, Indonesia, Ireland, Italy, Malaysia, Mexico, New Zealand, Portugal, Russia, Saudi Arabia, Spain, Switzerland, United Arab Emirates, United Kingdom and United States. <sup>18</sup>Available in English on 12.9-inch iPad Pro (5th generation and later), 11-inch iPad Pro (3rd generation and later), iPad (10th generation), iPad Air (4th generation and later) and iPad mini (6th generation). <sup>19</sup>Available in Arabic, Dutch, German, Hebrew, Italian, Korean, Polish, Portuguese, Romanian and Thai. <sup>20</sup>Available on 12.9-inch iPad Pro (3rd generation and later), 11-inch iPad Pro (1st generation and later), iPad (8th generation and later), iPad Air (3rd generation and later) and iPad mini (5th generation and later) when using the TrueDepth camera. <sup>21</sup>Neighbourhood names available in San Francisco, Los Angeles and New York City. <sup>22</sup>Available on 12.9-inch iPad Pro (3rd generation and later), 11-inch iPad Pro (1st generation and later), iPad Air (3rd generation and later), iPad mini (5th generation and later) and iPad (8th generation and later).

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