

Adobe Photoshop Help

Legal notices

For legal notices, see http://help.adobe.com/en_US/legalnotices/index.html.

Contents

Chapter 1: Introduction to Photoshop

What's new in Photoshop	1
Create documents	7
Photoshop Common Questions	16
Photoshop system requirements	18
Photoshop manual (PDF)	21
Migrate presets, actions, and settings	21

Chapter 2: Photoshop and Adobe services

Creative Cloud Libraries in Photoshop	26
Use the Adobe Color Themes extension	34
Touch capabilities and customizable workspaces	46
Error: Waiting for Bridge Mini Bridge panel	49
Untab image windows	51

Chapter 3: Photoshop on the iPad

Photoshop on the iPad Common questions	53
Get to know the workspace	60
System requirements Photoshop on the iPad	65
Add photos to your canvas	67
Work with layers	69
Make selections and add masks	74
Retouch your composites	80
Draw and paint with brushes	84
Apply transform operations	88
Crop and rotate your composites	90
Pan, zoom, and reset canvas	91
Work with Type layers	94
Japanese Text in Photoshop on the iPad	99
Manage app settings	99
Touch shortcuts and gestures	102
Keyboard shortcuts	105

Chapter 4: Cloud documents

Photoshop cloud documents Common questions	108
Photoshop cloud documents Workflow questions	110
Create, open, and export cloud documents	117
Manage and work with cloud documents in Photoshop	121
Get missing fonts in Photoshop on the iPad	128
Upgrade cloud storage for Photoshop	129
Solve Photoshop cloud document errors	130

Chapter 5: Workspace

Photoshop search	135
Use the Touch Bar with Photoshop	141
Microsoft Dial support in Photoshop	145
Tool galleries	148
Performance preferences	155
Use tools	160
Touch gestures	164
Technology previews	164
Metadata and notes	165
Quickly share your creations	167
Place Photoshop images in other applications	169
Preferences	172
Default keyboard shortcuts	174
Rulers	196
Show or hide non-printing Extras	197
Specify columns for an image	198
Undo and history	198
Panels and menus	204
Place files	209
Position elements with snapping	211
Position with the Ruler tool	212
Presets	213
Customize keyboard shortcuts	215
Grid and guides	217

Chapter 6: Web, screen, and app design

Photoshop for design	222
Artboards	228
Device Preview	237
Slice web pages	241
HTML options for slices	244
Modify slice layout	247
Work with web graphics	251
Create web photo galleries	252

Chapter 7: Image and color basics

How to resize images	260
Video Resizing images in Photoshop	260
Image essentials	262
Image size and resolution	264
Acquire images from cameras and scanners	271
Create, open, and import images	273
View images	278
Invalid JPEG Marker error Opening images	283
Viewing multiple images	285
Customize color pickers and swatches	286



High dynamic range images	288
Match, replace, and mix colors	296
Convert between color modes	302
Color modes	307
Erase parts of an image	309
Blending modes	313
Choose colors	317
Customize indexed color tables	324
Image information	325
Distort filters are unavailable	329
About color	329
Color and monochrome adjustments using channels	331
Choose colors in the Color and Swatches panels	334
Sample	337
Color mode or Image mode	338
Color cast	338
Add swatches from HTML CSS and SVG	339

Chapter 8: Layers

Layer basics	340
Nondestructive editing	344
Create and manage layers and groups	344
Select, group, and link layers	348
Place images into frames	350
Layer opacity and blending	353
Mask layers	357
Video tutorial: Mask out part of an image	357
Video tutorial: Remove a person from the background with masking	357
Apply Smart Filters	361
Video tutorial: Learn Photoshop Smart filters	361
Layer comps	365
Move, stack, and lock layers	367
Mask layers with vector masks	369
Manage layers and groups	370
Layer effects and styles	373
How to use new Presets in Photoshop	374
Edit layer masks	383
Extract assets	383
Reveal layers with clipping masks	386
Generate image assets from layers	387
Video: Generate web assets in Photoshop	387
Work with Smart Objects	393
Combine multiple images into a group portrait	400
Combine images with Auto-Blend Layers	401
Align and distribute layers	402
Copy CSS from layers	404

Load selections from a layer or layer mask's boundaries	405
Knockout to reveal content from other layers	406
Layer	407
Flattening	408
Composite	408
Background	409

Chapter 9: Selections

Select And Mask workspace	411
Make quick selections	416
Make selections	421
Select with the marquee tools	422
Video tutorial: Select part of an image	422
Select with the lasso tools	424
Select a color range in an image	426
Adjust pixel selections	429
Extract an object from its background	436
Convert between paths and selection borders	436
Channel basics	437
Move, copy, and delete selected pixels	440
Create a temporary quick mask	445
Save selections and alpha channel masks	447
Video tutorial: Mask out part of an image	447
Select the image areas in focus	451
Duplicate, split, and merge channels	453
Channel calculations	455
Selection	457
Bounding box	458

Chapter 10: Image adjustments

Perspective warp	460
Reduce camera shake blurring	468
Video Using the camera shake reduction filter	468
Healing brush examples	475
Export color lookup tables	502
Adjust image sharpness and blur	503
Video Sharpening in Photoshop	503
Video Selective focus in Photoshop	503
Understand color adjustments	509
Apply a Brightness/Contrast adjustment	515
Adjust shadow and highlight detail	516
From an expert: Shadows/Highlights	516
Levels adjustment	518
Adjust hue and saturation	521
Make quick tonal adjustments	525
Apply special color effects to images	528
Apply the Color Balance adjustment	530

View histograms and pixel values	532
Convert a color image to black and white	537
Video tutorial: Creative black and white	538
Video Black and White adjustment layer	538
Adjustment and fill layers	538
Curves adjustment	542
Target images for press	546
Adjust color and tone with Levels and Curves eyedroppers	549
Adjust HDR exposure and toning	550
Filter	551
Blur	552
Dodge or burn image areas	552

Chapter 11: Adobe Camera Raw**Chapter 12: Image repair and restoration**

Remove objects from your photos with Content-Aware Fill	555
Content-Aware Patch and Move	560
Retouch and repair photos	561
Correct image distortion and noise	569

Chapter 13: Image transformations

Transform objects	574
Adjust crop, rotation, and canvas size	578
Video Cropping and straightening photos	578
How to crop and straighten photos	582
Create and edit panoramic images	585
Warp images, shapes, and paths	590
Vanishing Point	594
Content-aware scaling	609
Transform images, shapes, and paths	610
Warp	612
Transform	613
Panorama	613

Chapter 14: Drawing and painting

Paint symmetrical patterns	615
Modify shapes	619
About drawing	620
Draw shapes	621
Painting tools	626
Create and modify brushes	629
Add color to paths	640
Edit paths	642
Paint with the Mixer Brush	651
Brush presets	654
Gradients	657
Fill and stroke selections, layers, and paths	663

Draw with the Pen tools	666
Create patterns	679
Generate a pattern using the Pattern Maker	679
Manage paths	681
Manage pattern libraries and presets	683
Draw or paint with a graphics tablet	685
Create textured brushes	685
Add dynamic elements to brushes	687
Gradient	690
Paint stylized strokes with the Art History Brush	691
Paint with a pattern	692
Chapter 15: Text	
Work with OpenType SVG fonts	693
Format characters	695
Format paragraphs	700
How to create type effects	706
Edit text	711
Line and character spacing	716
Arabic and Hebrew type	719
How to access Arabic and Hebrew features in Photoshop	719
Fonts	722
Troubleshoot fonts	730
Asian type	733
Create type	740
Text Engine error using Type tool in Photoshop Windows 8	743
World-Ready composer for Asian Scripts	744
Chapter 16: Video and animation	
Video editing in Photoshop	748
Video Walk through a video project	748
Edit video and animation layers	750
Video and animation overview	754
Preview video and animations	760
Paint frames in video layers	763
Import video files and image sequences	765
Create frame animations	768
Create timeline animations	775
Create images for video	781
Chapter 17: Filters and effects	
Use the Blur Gallery	787
Filter basics	796
Filter effects reference	800
Add Lighting Effects	810
Use the Adaptive Wide Angle filter	814
From an expert: Adaptive wide angle filter	814

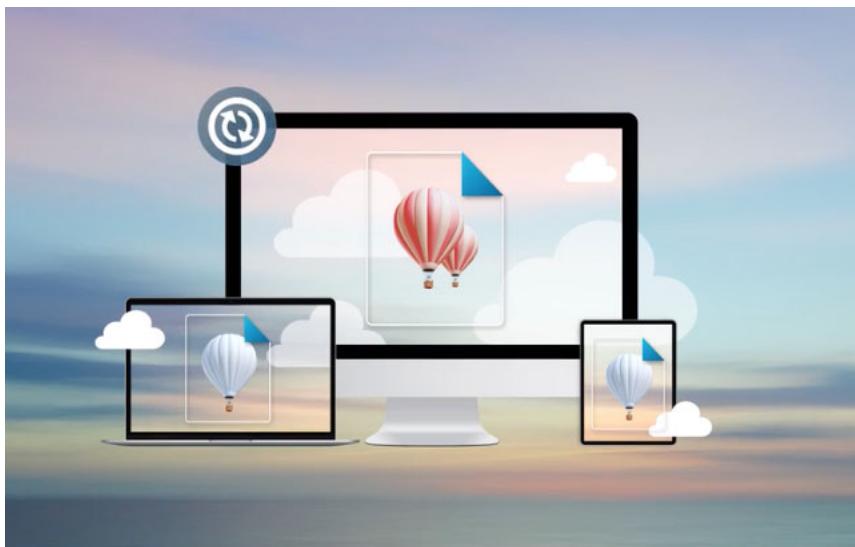
Use the Oil Paint filter	815
Apply specific filters	817
Smudge image areas	820
Chapter 18: Saving and exporting	
Supported file formats	821
Save files in graphics formats	823
Save images	828
File formats	830
Save and export video and animations	837
Save PDF files	844
Digimarc copyright protection	852
Supported file formats	854
Chapter 19: Printing	
Print 3D objects	856
Print from Photoshop	865
Print with color management	867
Contact Sheets and PDF Presentations	870
Print photos in a picture package layout	871
Print spot colors	874
Duotones	878
Print images to a commercial printing press	880
Improve color prints from Photoshop	886
Troubleshoot printing problems Photoshop	889
Chapter 20: Automation	
Creating actions	896
Video tutorial: Record actions	896
Create data-driven graphics	900
Scripting	906
Process a batch of files	906
Video Using the Image Processor to batch process multiple files	906
Play and manage actions	911
Add conditional actions	915
About actions and the Actions panel	915
Record tools in actions	916
From an expert: Tool recording	917
Add a conditional mode change to an action	917
Photoshop UI toolkit for plug-ins and scripts	917
Chapter 21: 3D and technical imaging	
Creative Cloud 3D Animation (Preview)	921
3D painting	927
Video 3D painting - The next level	927
3D panel enhancements Photoshop	932
Essential 3D concepts and tools	934
3D rendering and saving	939

Create 3D objects and animations	944
Image stacks	946
3D workflow	948
Measurement	951
DICOM files	957
Photoshop and MATLAB	961
Count objects in an image	963
Combine and convert 3D objects	965
3D texture editing	967
3D panel settings	970
 Chapter 22: Color Management	
Understanding color management	982
Keeping colors consistent	984
Color settings	988
Work with color profiles	992
Color-managing documents for online viewing	996
Color-managing documents when printing	997
Color-managing imported images	1002
Proofing colors	1004

Chapter 1: Introduction to Photoshop

What's new in Photoshop

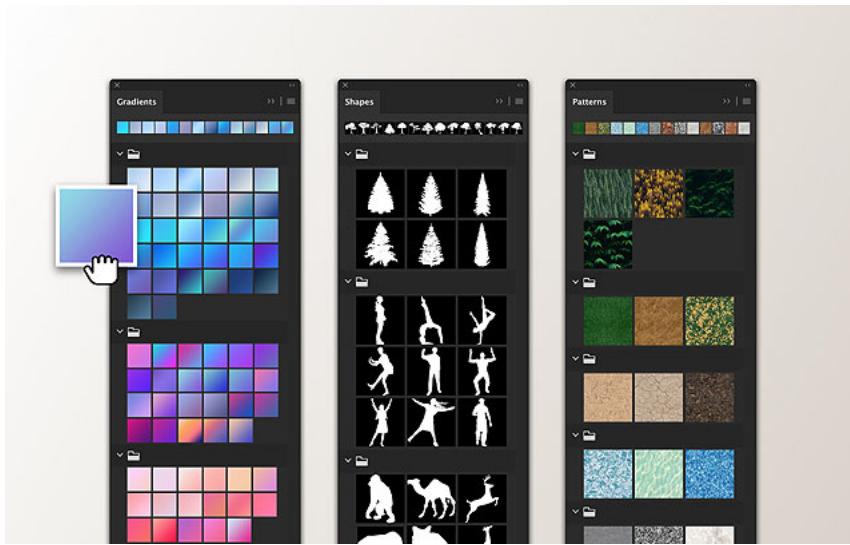
Photoshop desktop



Cloud documents

With Photoshop now on the iPad, use cloud documents to work seamlessly across Mac, Windows, and your iPad. Your documents are saved to Adobe's cloud as you work.

Introduction to Photoshop



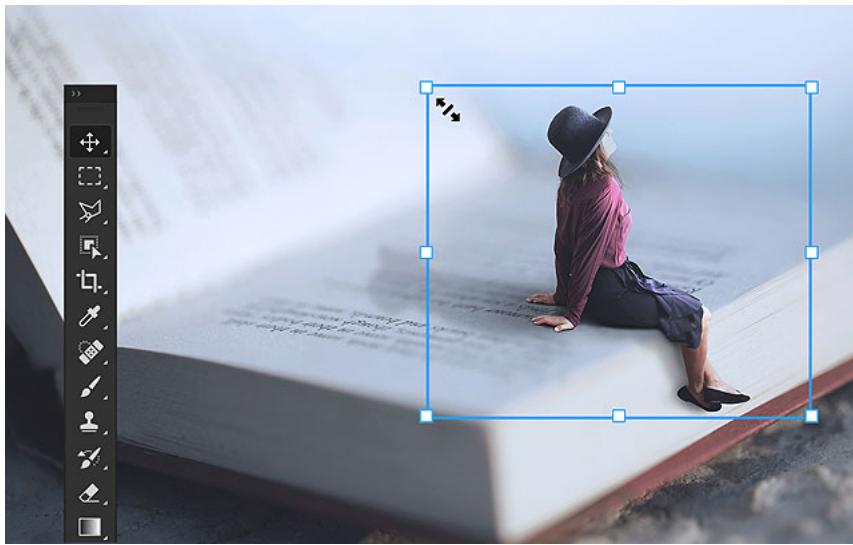
Improvements to presets

Explore new swatches, gradients, patterns, shapes, and styles effortlessly. Presets are now more intuitive to use and easier to organize.



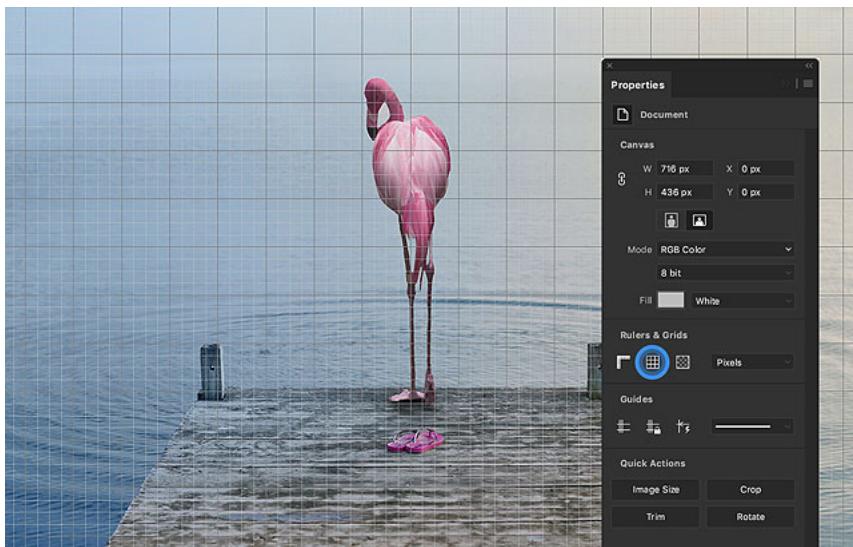
New Object Selection tool

Use the new Object Selection tool to better automate complex selections. Simply define a region and Photoshop does the rest.



Consistent transform behavior

Proportionally transform multiple layers, regardless of the layer type, without using the Shift key.



Improved properties panel

Find even more of the controls you need in one central location. Easily change document settings, access all type layer settings, and conveniently use Quick Actions.

Introduction to Photoshop**Smart Object to layers**

Easily convert your Smart Objects back into component layers to fine-tune your designs—all in one place, without having to switch between document windows.

**Enhanced Transform Warp**

Get more control with the Warp tool. Add control points anywhere or divide your image with a customizable grid to transform by individual nodes, or a larger selection.



Other enhancements

Check out all the new enhancements to Photoshop and learn how you can simplify and accelerate your workflow.

[See detailed new feature summary](#)

Photoshop on the iPad



Cloud documents

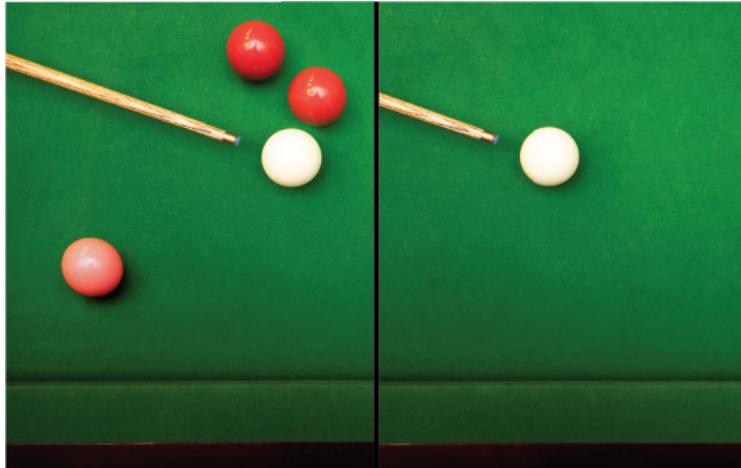
With Photoshop now on the iPad, use cloud documents to work across Mac, Windows, and iPad; they're saved to Adobe's cloud as you work.

Introduction to Photoshop**Open and edit large PSDs**

Seamlessly create professional PSDs, work on real-world projects—anywhere, anytime, and across devices.

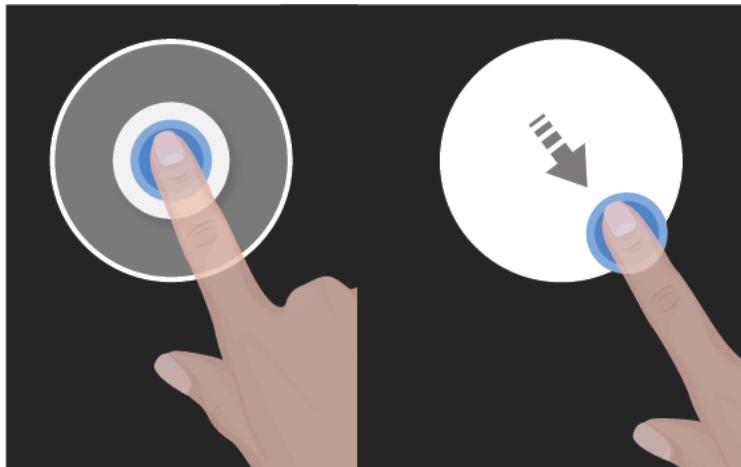
**Create stunning composites**

Combine your selections and layer masks to create sophisticated, non-destructive composites with the precision and control of your fingers or stylus.



[Retouch your documents](#)

Quickly select powerful tools such as clone stamp and spot heal healing to remove unwanted parts from your composites.



[Use touch shortcuts and gestures](#)

Use touch shortcuts and quick gestures to speed up your workflow in a modern, natural touch-based environment.

[See detailed new feature summary](#)

Create documents

Introduced in Adobe Photoshop 2017 release



When you create a document in Photoshop, instead of beginning with a blank canvas, you can choose from a wide variety of templates from Adobe Stock. Templates include assets and illustrations that you can build on to complete your project. When you open a template in Photoshop, you can work with it just as you would work with any other Photoshop document (.psd).

In addition to templates, you can also create a document by selecting one of the numerous presets available in Photoshop or create your custom sizes. You can also save your own presets for reuse.

Templates and presets

Templates provide inspiration and reusable elements for your documents. You can download templates from Adobe Stock that include quality graphics and illustrations right within Photoshop. You can then build on these templates to easily create documents that share common settings and design elements. Templates open as .psd files in Photoshop and generally include multiple artboards.

Blank Document Presets are blank documents with predefined dimensions and settings. Presets make designing for specific device form factors or use cases easier. For example, you can use a preset to quickly start designing for the iPad Pro. Blank document presets have predefined size, color mode, unit, orientation, positioning, and resolution settings. You can modify these settings before creating a document using the preset.

Templates and presets are categorized into these sets:

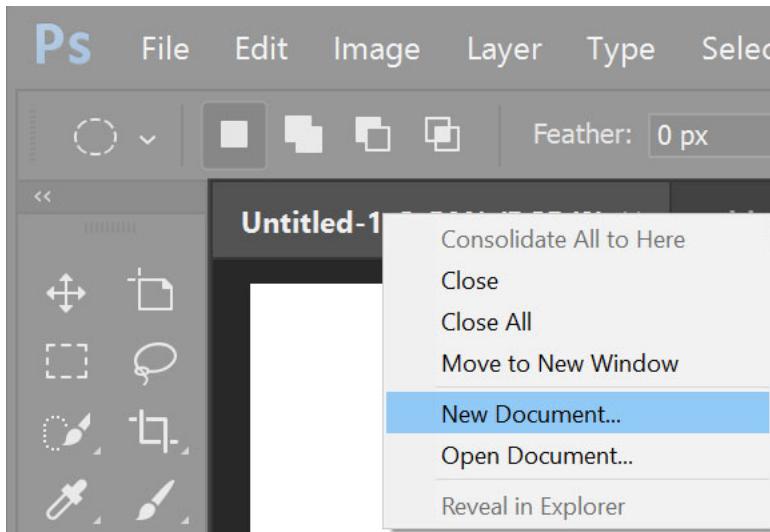
- Photo
- Print
- Art & Illustration
- Web
- Mobile
- Film & Video

Access the New Document dialog

- 1 Launch Photoshop.

2 Do one of the following:

- Use the following keyboard shortcut:
 - (Mac) Cmd+N
 - (Windows) Ctrl+N
- Select **File > New**.
- Click **New** or **Start New** in the **Start** workspace.
- Right-click the tab for an open document and choose **New Document** from the in-context menu.



Overview: New Document dialog

The New Document window lets you:

- Create documents using selected templates from Adobe Stock across several categories: **Photo, Print, Art & Illustration, Web, Mobile, and Film & Video**.
- Find more templates and create documents using them. See [Search for more templates from Adobe Stock](#).
- Quickly access files, templates, and items that you've have recently accessed (**Recents** tab).
- Save your own custom presets for reuse and quickly access them later (**Saved** tab).
- Create documents using **Blank Document Presets** for multiple categories and device form factors. Before opening the presets, you can modify their settings.

Introduction to Photoshop

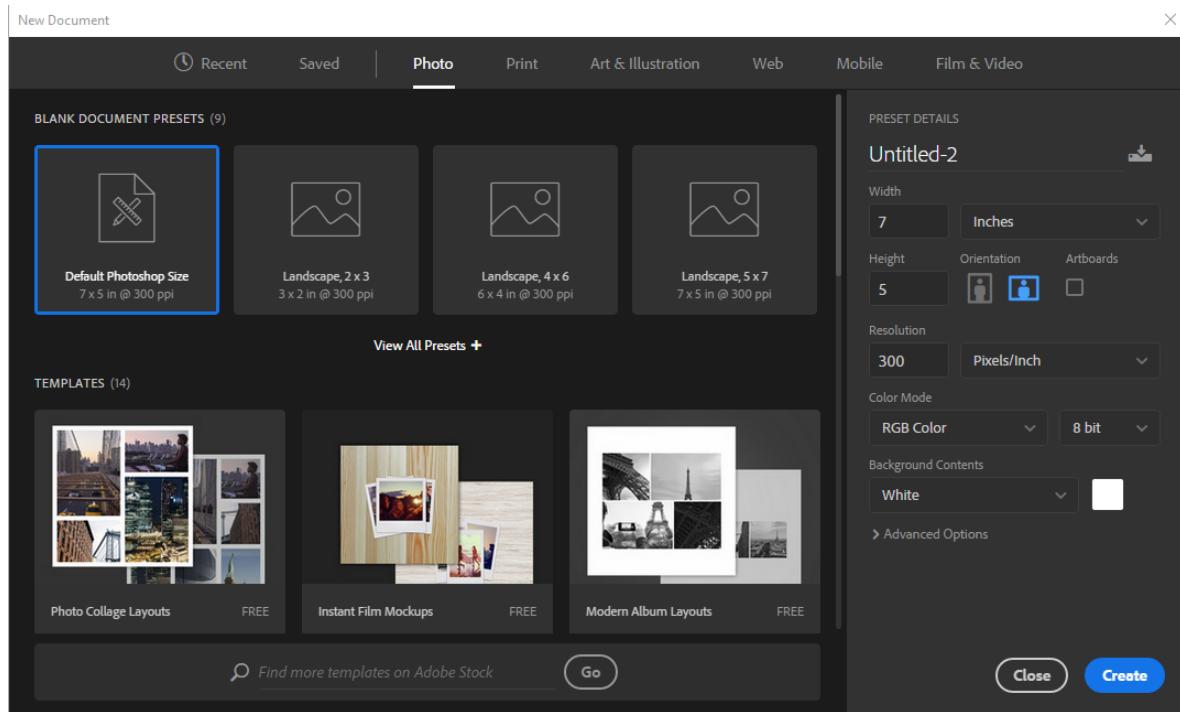


Photo tab | New Document dialog box

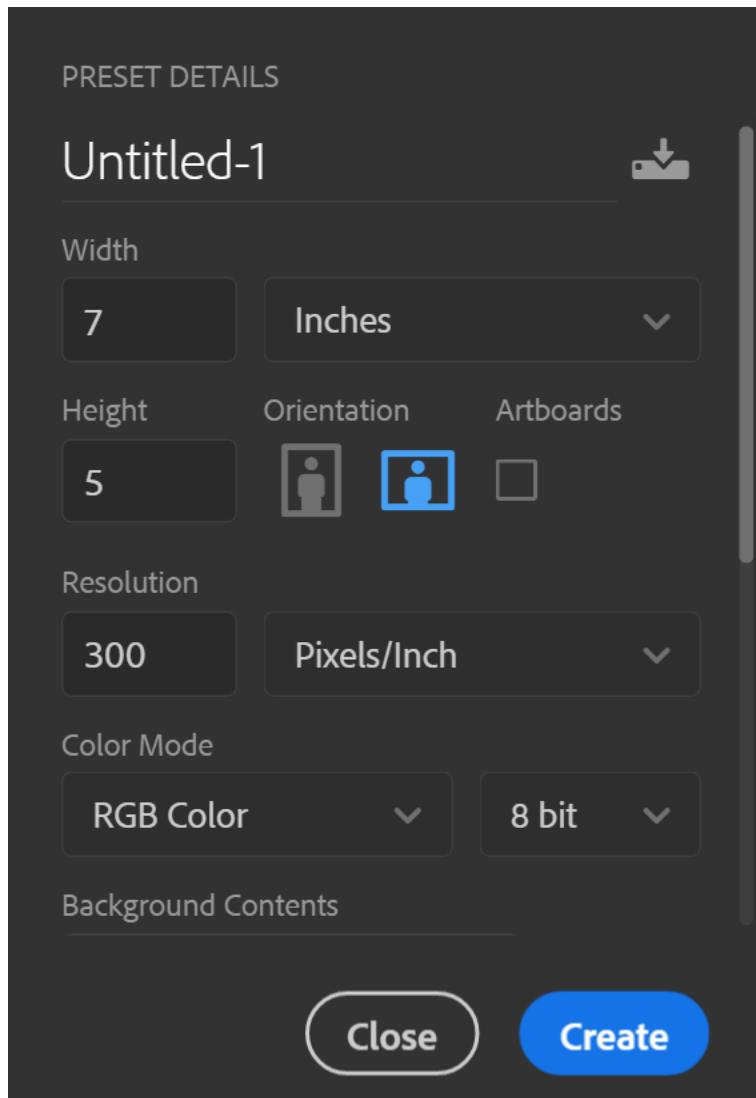
Create documents using presets

- 1 In the **New Document** dialog box, click a category tab: **Photo**, **Print**, **Art & Illustration**, **Web**, **Mobile**, and **Film & Video**.
- 2 Select a preset.
- 3 Optionally, change the settings for the selected preset in the **Preset Details** pane on the right. See [Modify presets](#) to understand how.
- 4 Click **Create**. Photoshop opens a new document based on the preset.

Modify presets

Before opening a document using the preset, you can modify its settings in the right pane.

- 1 Specify a file name for the new document.



The Preset Details pane

2 Specify the following options for the selected preset:

Width and Height: Specify the size of the document. Select the unit from the pop-up menu.

Orientation: Specify a page orientation for the document: Landscape or Portrait.

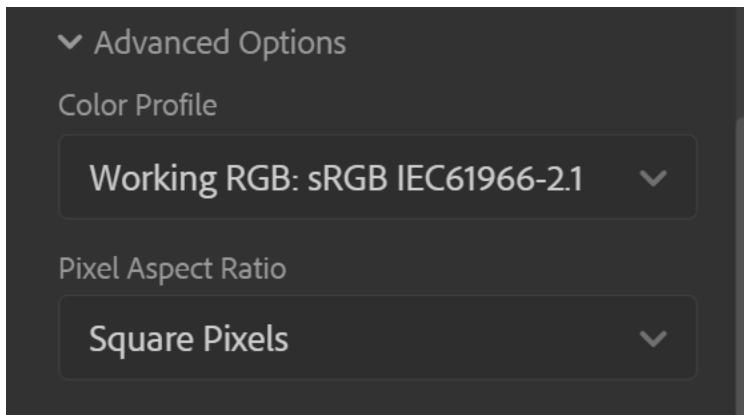
Artboards: Select this option if you want your document to have artboards. Photoshop adds an artboard while creating the document.

Color Mode: Specify a color mode for the document. Changing the color mode converts the default contents of the selected new document profile to a new color.

Resolution: Specify the fineness of detail in a bitmap image measured in pixels/inch or pixels/centimetre.

Background contents: Specify a background color for the document.

3 To specify the following extra options, click **Advanced Options**.



Color Profile: Specify the color profile for your document from a wide range of options.

Pixel Aspect Ratio: Specify the ratio of width to height of a single pixel in a frame.

- 4 Click **Create** to open a document with the preset settings.

Save your own presets

The **Preset Details** pane lets you modify an existing preset or specify fresh settings for a new one. To save your custom settings as a new preset, follow these steps:

- 1 After you're done specifying the settings, click the  icon in the **Preset Details** pane.
- 2 Specify a name for the new preset.
- 3 Click **Save Preset**.

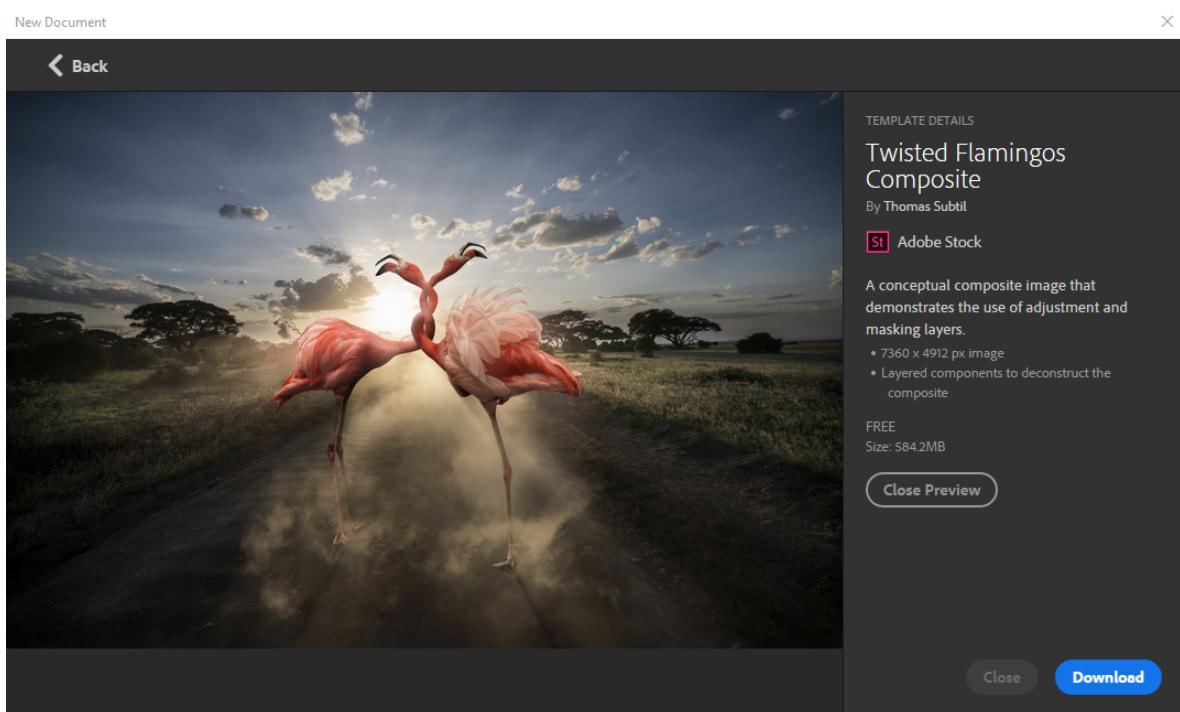
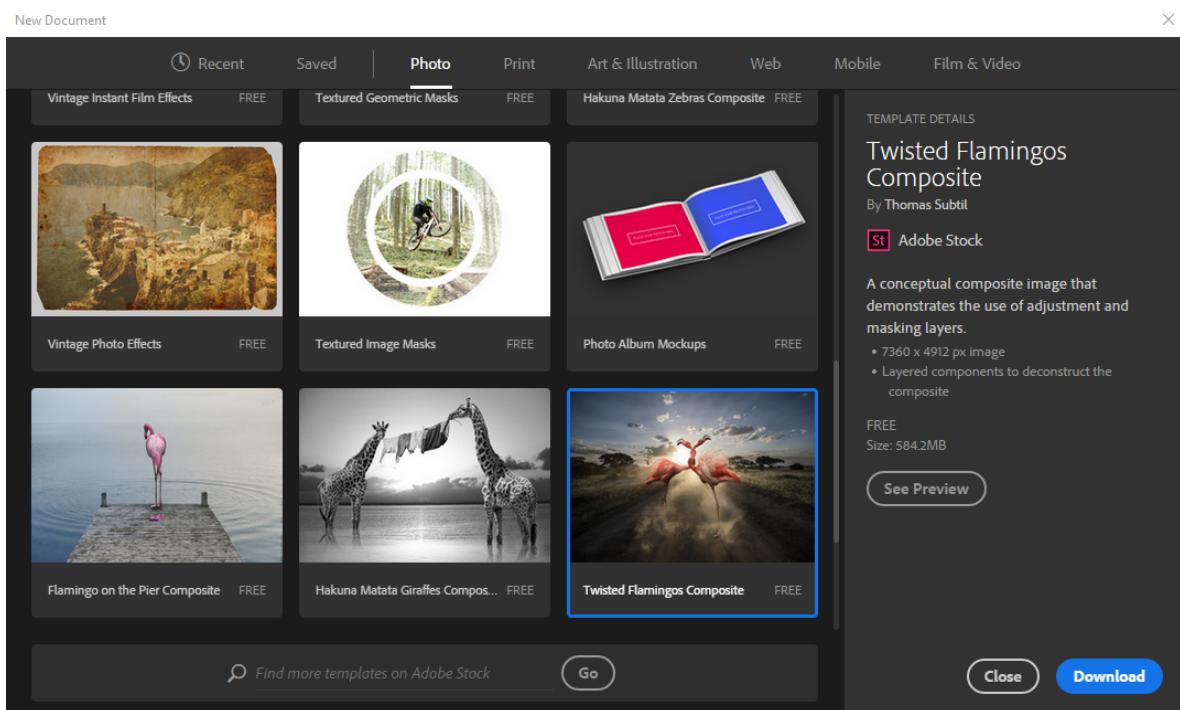
You can later access the new preset from the Saved tab of the New Document dialog.

Create documents using templates from Stock

Photoshop comes with various templates from Adobe Stock. Templates with font layers use basic fonts or fonts that can be synced from Adobe Typekit. To create a document using a template, do one of the following:

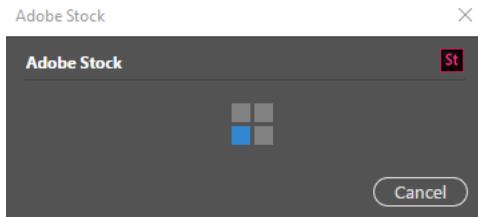
- 1 In the **New Document** dialog, click a category tab: **Photo, Print, Art & Illustration, Web, Mobile, and Film & Video**.
- 2 Select a template.
- 3 Click **See Preview** to view a preview of the template. A preview is an image representation of a template that you can review and decide if you want to license that template.

Introduction to Photoshop



4 Click Download.

Photoshop prompts you to license the template from Adobe Stock. See [Adobe Stock Help](#) for more information about licensing and related considerations. After the template has been licensed using asset entitlements or credits in your account, you can open it as a Photoshop document for you to work on.



Template licensing in progress

- 5 After the template has downloaded, click **Open**. While opening the template, if you're prompted to sync some fonts from Typekit, click **OK**.

You can now work with the open document in Photoshop just as you would work with any other .psd document.

Notes:

- Downloaded templates are added to a Creative Cloud library called Stock Templates. You can access this library in the Libraries panel.
- Photoshop templates carry the .psdt filename extension. However, when you open a template, an instance of it is opened as a .psd document. Changes made to that .psd document don't affect the original .psdt template.

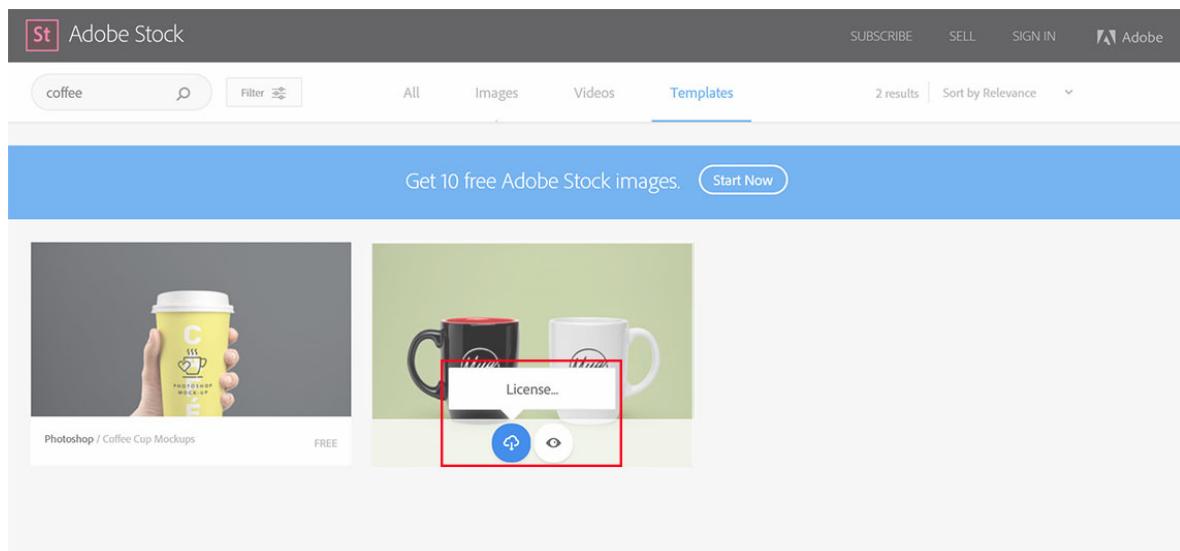
Search for more templates from Adobe Stock

Aside from the preselected templates from Adobe Stock, you can search for and download numerous other such templates directly from within the New Document dialog.

- While working in the New Document dialog, enter a search string in the **Find More Templates On Adobe Stock** box. Alternatively, simply click **Go** to browse the full selection of available templates.

Photoshop opens the Adobe Stock website in a new browser window for you to explore. Search for more templates and download the one that best meets your project's requirements.

Introduction to Photoshop

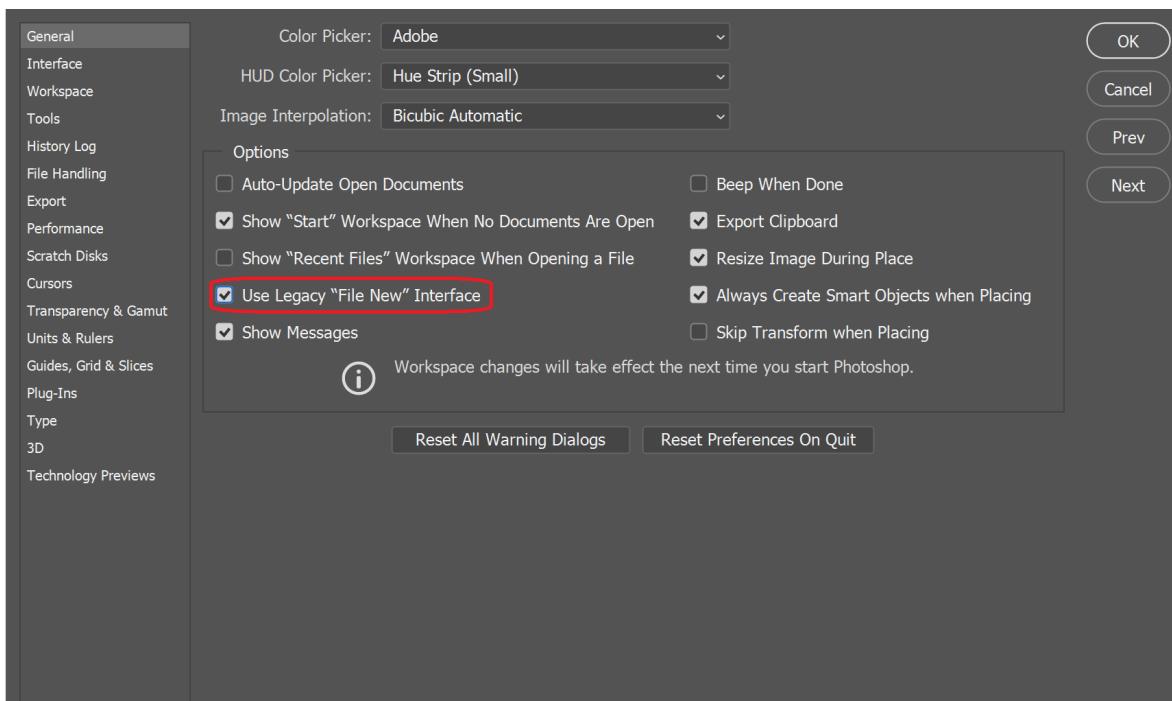


Explore and license templates on the Adobe Stock website

Use the legacy File New experience

Although not recommended, you can disable the latest New Document experience and revert to the File New experience that Photoshop provided by default (in versions 2015.5 and earlier).

- 1 Select **Edit > Preferences > General**.
- 2 Select **Use Legacy File New Interface**. Click **OK**.



Enable the legacy File New experience (not recommended)

Note:

You can use the keyboard shortcuts for opening files (Ctrl/Cmd+O) or starting new documents (Ctrl/Cmd+N) to open this dialog box.

FAQ

- **What are the available formats for a template?**

Templates in Photoshop exist in the *.psdt* format. When you open a template, Photoshop creates an instance of it as a document. You can work on and save that document just as you would work with any other Photoshop document.

- **Can I customize a preset after I have saved it?**

You can further customize a saved preset in the **Preset Details** pane. The new preset, however, must be saved with a different name.

- **Can I customize a template?**

No. Any changes you make to the template instance after downloading it aren't applied to the original template.

- **I have downloaded templates in Photoshop and Illustrator. Can I use them interchangeably?**

The templates that you download in Photoshop and Illustrator are found in **Libraries**. You can open only *.psdt* templates in Photoshop and only *.ait* templates in Illustrator.

Photoshop | Common Questions

Basics

- **What is Photoshop and who is it for?**

Adobe Photoshop is the world's most advanced digital imaging software, used by photographers, designers, web professionals, and video professionals. The app gives you the utmost power and creative control for 2D and 3D image manipulation and compositing, video editing, and image analysis. And because Photoshop is part of Adobe Creative Cloud, you get access to all the latest updates and future releases the moment they're available. Learn more about [Creative Cloud](#).

- **Can I use Photoshop on more than one machine?**

Yes. You can download and install Photoshop on multiple computers regardless of operating system. However, activation is limited to two machines per individual associated with the membership. See the [terms of use](#) for more information. Learn how to [deactivate](#) a Creative Cloud license on a machine.

- **I use Photoshop Elements. Why should I consider Photoshop?**

Photoshop is the professional standard in image editing, used worldwide by people who want to create and edit photos with superior results. Consider moving up to Photoshop if you want a more complete toolkit for editing raw photos; creating sophisticated image composites; making videos; and pushing your creativity with 3D creation, 3D editing, and painting tools.

- **What is Photoshop Lightroom and how does it work with Photoshop?**

Lightroom, also included in Creative Cloud, helps you quickly import, process, manage, and showcase volumes of photos. Its tight integration with Photoshop lets you easily take advantage of unrivaled pixel-level retouching and compositing, giving you a complete professional photography solution.

- **Does Photoshop include the features that were previously exclusive to Photoshop Extended?**

Yes. Photoshop includes the full set of Photoshop tools, including the 3D image creation, 3D editing, and quantitative image analysis tools that were previously available only in Photoshop Extended.

- **What cameras does Photoshop/Adobe Camera Raw support?**

See [Supported cameras](#).

- **Where can I learn more about new features?**

See the [What's New](#) page for details.

- **How does Photoshop compare with earlier versions?**

Check out the Photoshop [version comparison](#).

Technical questions

- **What are the minimum system requirements to run Photoshop?**

See the [Photoshop system requirements](#) for information.

- **Where can I ask a technical or how-to question related to Photoshop?**

Visit the [Photoshop forums](#) to get answers from product team members and other expert users.

You can also use the following helpful resources:

- [Find basic troubleshooting steps to fix most issues](#).
- [Report a bug or request a feature](#).
- [Need help? Start here to get support](#).

Free trials

- **Where can I get a trial version of Photoshop?**

With a free [Creative Cloud membership](#), you can download a trial version of Photoshop - and other applications in Creative Cloud. When you upgrade to an All Apps plan, you'll be able to download the full version of every Creative Cloud application.

- **Can I convert my trial version to a paid plan?**

If you were prompted to enter your payment details before downloading Photoshop, the trial automatically converts to a paid plan after the trial period ends. Otherwise, you can purchase a plan directly from the [Creative Cloud website](#).

Purchasing options

- **How can I purchase Photoshop?**

Learn more about purchasing options on the [Creative Cloud plans](#) page.

- **What's the difference between Photoshop Single App Subscription, Creative Cloud Photography Plan, and Photoshop Photography Program?**

See [Differences between Photoshop and Creative Cloud Photography programs](#).

Learning Photoshop

- [How can I get started with Photoshop?](#)

Check out [Photoshop Learn & Support](#) for all you need to get started—video and step-by-step-tutorials, Help content, and links to resources offering comprehensive product support from Adobe and our knowledgeable community.

- [Where can I find the manual?](#)

You can find web and PDF versions of the Photoshop manual on the [Photoshop User Guide](#) page. To learn more about the latest features in Photoshop, read the [New features summary](#).

Photoshop system requirements

Applicable for November 2019 release (version 21.0)

System requirements for earlier releases [Photoshop system requirements | earlier releases](#)

Minimum system requirements for Photoshop

Windows

	Minimum requirement
Processor	Intel® or AMD processor with 64-bit support*, 2 GHz or faster processor
Operating system	Microsoft Windows 7 with Service Pack 1 (64-bit)*, Microsoft Windows 10** October 2018 update (64-bit) version 1809 or later
RAM	2 GB or more of RAM (8 GB recommended)
Graphics card	nVidia GeForce GTX 1050 or equivalent; nVidia GeForce GTX 1660 or Quadro T1000 is recommended
Hard disk space	3.1 GB or more of available hard-disk space for 64-bit installation; additional free space required during installation (cannot install on a volume that uses a case-sensitive file system)
Monitor resolution	1280 x 800 display at 100% UI scaling with 16-bit color and 512 MB or more of dedicated VRAM; 2 GB is recommended***
OpenGL	OpenGL 2.0-capable system
Internet	Internet connection and registration are necessary for required software activation, validation of subscriptions, and access to online services †

* The 32-bit version of Windows is no longer supported. For support with 32-bit drivers and plug-ins, use earlier versions of Photoshop: [Links to prior version installers and updates](#).

** Not supported on Windows 10 versions 1511, 1607, 1703,?1709,?and?1803.

*** 3D features are disabled on computers having less than 512MB of VRAM.

† NOTICE TO USERS. Internet connection, Adobe ID, and acceptance of license agreement required to activate and use this product. This product may integrate with or allow access to certain Adobe or third-party hosted online services. Adobe services are available only to users 13 and older and require agreement to additional terms of use and Adobe's online privacy policy (see <http://www.adobe.com/aboutadobe/legal.html>). Applications and Services may not be available in all countries or languages and may be subject to change or discontinuation without notice. Additional fees or membership charges may apply.

macOS

	Minimum requirement
Processor	Multicore Intel processor with 64-bit support
Operating system	macOS version 10.13 (High Sierra), macOS version 10.14 (Mojave), macOS version 10.15 (Catalina)
RAM	2 GB or more of RAM (8 GB recommended)
Graphics card	nVidia GeForce GTX 1050 or equivalent; nVidia GeForce GTX 1660 or Quadro T1000 is recommended
Hard disk space	4 GB or more of available hard-disk space for installation; additional free space required during installation (cannot install on a volume that uses a case-sensitive file system)
Monitor resolution	1280 x 800 display at 100% UI scaling with 16-bit color and 512 MB or more of dedicated VRAM; 2 GB is recommended*
OpenGL	OpenGL 2.0-capable system
Internet	Internet connection and registration are necessary for required software activation, membership validation, and access to online services †

* 3D features are disabled on computers having less than 512MB of VRAM.

† NOTICE TO USERS. Internet connection, Adobe ID, and acceptance of license agreement required to activate and use this product. This product may integrate with or allow access to certain Adobe or third-party hosted online services. Adobe services are available only to users 13 and older and require agreement to additional terms of use and Adobe's online privacy policy (see <http://www.adobe.com/aboutadobe/legal.html>). Applications and Services may not be available in all countries or languages and may be subject to change or discontinuation without notice. Additional fees or membership charges may apply.

Language versions available for Photoshop

Windows and macOS

Photoshop is available in the following languages:

Dansk

Deutsch

English

Español

Français

Français*

Hebrew*

Hungarian

Italiano

Nederlands

Norwegian

Polish

Português (Brasil)

Suomi

Svenska

Turkish

Ukrainian

čeština

Русский

????*

???

????

????

???

* Arabic and Hebrew supported in a Middle Eastern version with full right-to-left language support, Arabic/Hebrew features, and an English interface; also in a North African French (Français*) version with full right-to-left language support, Arabic/Hebrew features, and a French interface.

iOS

On [supported iOS devices](#), Photoshop is available in the following languages:

Deutsch

English

Français

???

Graphic processor requirements

Features requiring the graphics processor

Tested graphics card

Don't see your card on the list?

Unsupported card series

System requirements for Adobe Camera Raw

The Adobe Camera Raw plug-in gives you ability to import and work with camera raw files in Photoshop. You can also use Camera Raw to work with JPEG and TIFF files.

Your computer may need to meet additional system requirements to work efficiently with Adobe Camera Raw. See [Photoshop system requirements](#) for details.

Unsupported video adapters on macOS

See considerations for Graphics Processor (GPU)-accelerated features:

- [Camera Raw 11.4 and later](#)
- [Camera Raw 11.3 and earlier](#)

Photoshop manual (PDF)

Find a PDF of articles to learn how to use Photoshop.

[Photoshop manual \(PDF\)](#)

Migrate presets, actions, and settings

Presets, settings, and actions

Presets are collections of items and values that are applied to artwork in Photoshop. You can save and load presets, or replace them with custom values at any time. Actions, brushes, and keyboard shortcuts are examples of presets. Photoshop comes with presets, but you can also create your own.

Settings are actual values that are currently loaded in Photoshop. They control various elements and tools in the application, such as your current brush and all its values.

Actions are series of tasks that you play back on a single file or a batch of files—menu commands, panel options, tool actions, and so on. For example, an action can change the size of an image, apply an effect to that image, and then saves the file in the desired format.

Migrate presets

You can migrate your custom preset collections, as well as some Photoshop presets, from one version of Photoshop to another on the same computer. The presets you can migrate include:

- Actions
- Brushes
- Black and White (Adjustment)
- Channel Mixer (Adjustment)
- Color Range
- Color Swatches
- Contours
- Curves (Adjustment)
- Custom Shapes
- Doutone (Mono, Duo, Tri, Quad)
- Exposure (Adjustment)
- Gradients
- HDR Toning (Adjustment)
- Hue and Saturation (Adjustment)
- Keyboard Shortcuts
- Levels (Adjustment)
- Lighting Effects
- Lights (3D)
- Materials (3D)
- Menu Customization
- Patterns
- Render Settings (3D)
- Repousse (3D)
- Selective Color (Adjustment)
- Styles
- Tools
- Volumes (3D)

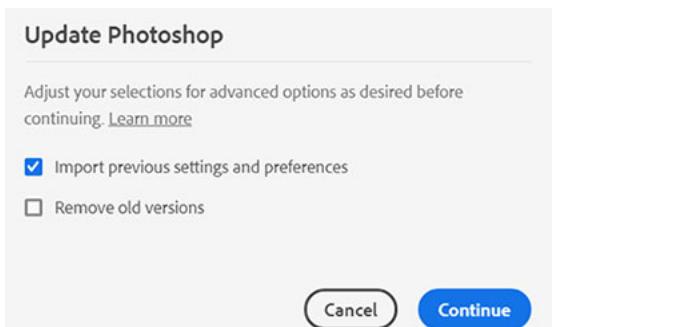
Migrate presets while updating Photoshop

By default, when you update to the latest version of Photoshop using the Creative Cloud desktop app, your presets, settings, and preferences are migrated from the earlier version of Photoshop. Also, when you launch Photoshop for the first time, you're prompted to migrate all available presets from the most recent version of Photoshop installed on your computer.

Presets can be migrated from the latest version installed before Photoshop, going back to Photoshop CS3. To migrate from multiple versions of Photoshop, migrate presets sequentially from one version of Photoshop at a time.

Note:

*You can, however, choose not to migrate them by deselecting **Advanced Options > Import previous settings and preferences** on the confirmation screen that appears after you click Update in the Creative Cloud desktop app.*



Advanced options available after you click Update in the Creative Cloud desktop app

Migrate presets after installing/updating Photoshop

If you chose not to migrate your presets when you updated Photoshop, or if you faced issues while migrating presets, you can select **Edit > Presets > Migrate Presets** to migrate presets, settings, and preferences later in Photoshop. Photoshop looks for an older version of Photoshop on the same system and prompts you to migrate presets.

Export and import presets

You can bring your presets from one computer to another, or to an offline computer, by manually exporting them and then importing. The Export/Import Presets is not restricted to computers running Photoshop as part of Creative Cloud.

SOURCE COMPUTER: On the computer that has the presets you want to migrate, do the following:

- 1 Open Photoshop.
- 2 Choose **Edit > Presets > Export/Import Presets**.
- 3 Choose **Export Presets**.
- 4 Select the desired presets and move them to the **Presets To Export** column.
- 5 Click **Export Presets**.
- 6 Select the folder to export your presets to. Choose a folder you can use to transfer the files using a USB drive, network, or an online sharing service.
- 7 Click **OK**.

TARGET COMPUTER: On the computer receiving the imported settings, do the following:

- 1 Choose **Edit > Presets > Export/Import Presets**.

- 2** Select **Import Presets**.
- 3** Select the presets you want to import, or click **Add All**.
- 4** If you saved your presets to a folder that is not the default, choose **Select Import Folder**, and select the appropriate folder.
- 5** Click **Import Presets**.

Save and load presets

You can move actions and presets across different versions of Photoshop on same or different desktops by saving them and loading them into the target application.

SOURCE COMPUTER: On the computer that has the presets you want to migrate, do the following:

- 1** Open Photoshop.
- 2** Choose **Edit > Presets > Presets Manager**.
- 3** Choose the desired option from the **Preset Type** drop-down menu. For example, choose **Brushes**.
- 4** Select the desired presets. For example, select the brushes that you want to migrate.
- 5** Click **Save Set** and then, click **Save**. For a set of Brushes, then Photoshop creates a .ABR file at the following location by default:
 - (Windows) *C:\Users\<username>\AppData\Roaming\Adobe\Adobe Photoshop <version>\Presets\Brushes*
 - (macOS) *Applications/Adobe Photoshop <version>/Presets/Brushes*

TARGET COMPUTER: On the computer receiving the imported settings, do the following:

- 1** Choose **Edit > Presets > Presets Manager**.
- 2** Click **Load** in the Presets Manager dialog box.
- 3** Select the saved set you want to load.
- 4** Click **Load**.

Migrate actions

See  [Migrate actions](#).

Manually copy settings

Photoshop has a number of setting files that you can manually copy from one installation to another. These files include:

- Actions Palette.psp
- Brushes.psp
- Contours.psp
- CustomShapes.psp
- Default Type Styles.psp
- Gradients.psp
- Patterns.psp
- Styles.psp

- Swatches.psp
- ToolPresets.psp

To move these settings to a new installation, copy these files from the following path on the source installation to the same path on the target installation:

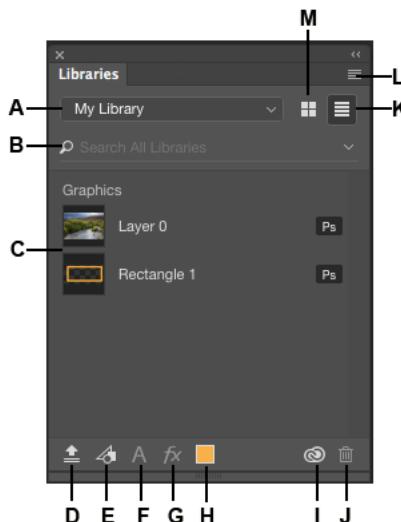
- **Mac:***<Username>/Library/Preferences/Adobe Photoshop <version> Settings*
- **Windows:***C:\\\\Users\\\\<username>\\\\AppData\\\\Roaming\\\\Adobe\\\\Adobe Photoshop <version>\\\\Adobe Photoshop <version> Settings*

Chapter 2: Photoshop and Adobe services

Creative Cloud Libraries in Photoshop

Creative Cloud Libraries is a web service that allows you to access your assets across various Adobe desktop and mobile applications. You can add graphics, colors, text styles, brushes, and layer styles to libraries in Photoshop and then easily access those elements in several Creative Cloud apps.

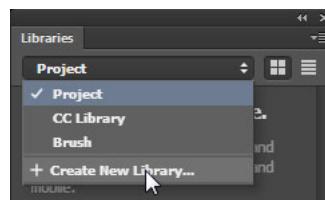
A first look at Creative Cloud Libraries



A Libraries list | B Search C Assets | D Library from Document E Add graphics | F Add character style | G Add layer style | H Add foreground color | I Libraries sync status | J Delete | K Show items in a list | L Libraries options | M Show items as icons

Create a library

- 1 In Photoshop, select **Window > Libraries**.
- 2 In the **Libraries** panel, select **Create New Library** from the pop-up menu.



Create a library

- ? In the dialog box that appears, enter a name for the new library and click **Create**.

Photoshop and Adobe services

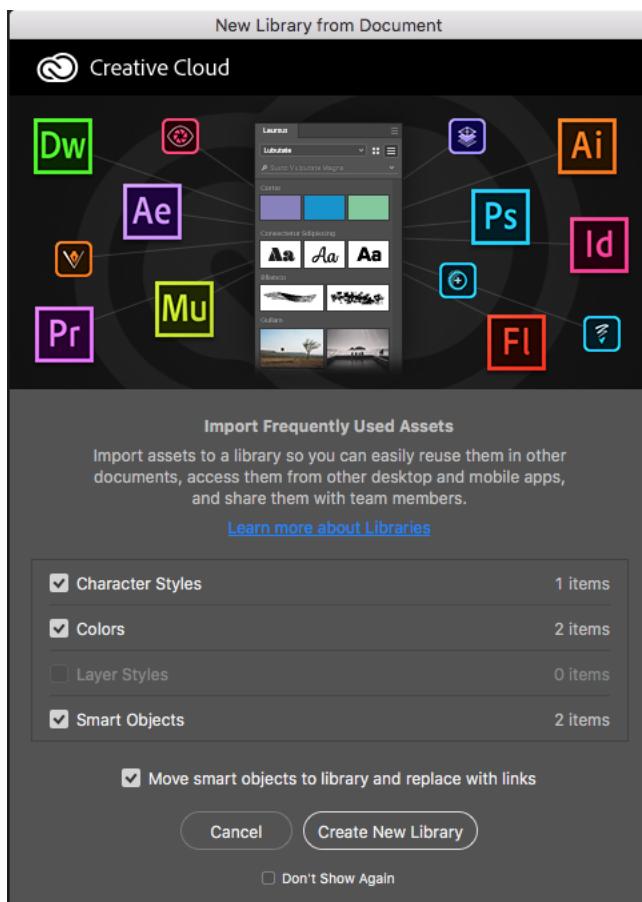
The new library is now available in the Libraries panel.

Create new library from a document

When you open a document containing assets that can be automatically added to a library, Photoshop prompts you to create a new library. There are four types of assets that can be automatically added to a library from a document:

- Character styles
- Colors
- Layer styles
- Smart objects

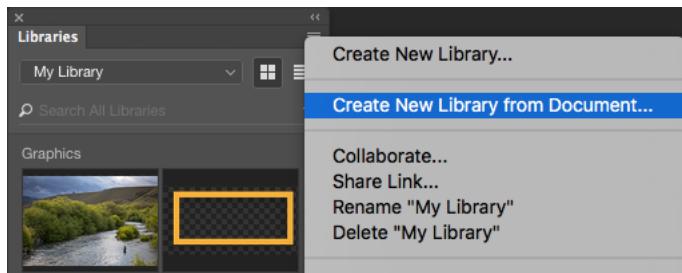
Based on the contents of the document, Photoshop shows you the count for each type of asset.



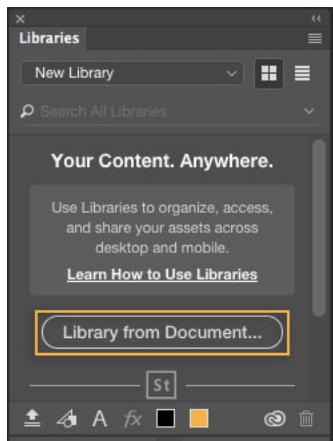
Create new library from a document

You can also create a new library from a document in one of the following ways:

- From the **Libraries** panel options, select **Create New Library From Document**



- Click the **Library from Document** (⬆️) icon at the bottom of the **Libraries** panel.
- Click **Library from Document** in the **Libraries** panel. This option is available only if your current library is empty.



Linked and unlinked assets

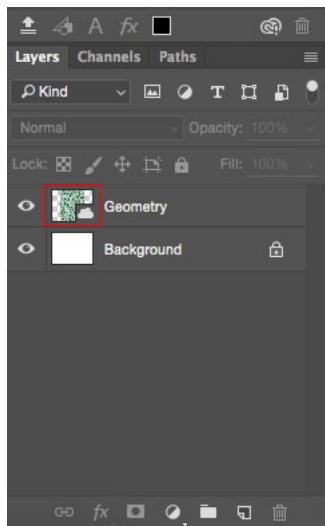
You can use assets in libraries as linked assets or unlinked assets in your Photoshop documents. Library-linked assets are instances that stay associated with the original asset in the library. When the original asset in the library is updated, its instances in your Photoshop documents are automatically updated. Any effects that you applied to the instances are retained as well. Library-linked assets are similar in their behavior to Linked Smart Objects.

Unlinked assets, on the other hand, are embedded in your Photoshop documents and are decoupled from the original asset in the library. Unlinked assets are not updated automatically when the original asset changes.

Use library-linked assets in your Photoshop document

- In the **Libraries** panel, right-click an asset in a library and select **Place Linked** from the context menu.

Photoshop places the asset in your Photoshop document as a new layer. The layer thumbnail displays a cloud icon (☁️) indicating that the layer is linked to a library asset.



A layer containing a library-linked asset

File sync

Creative sync makes your libraries accessible across multiple applications, devices, and the web automatically. For cross-device syncing to work, file sync must be enabled in Creative Cloud desktop app. You can check the status of library syncing by the Creative Cloud icon in the Libraries panel.



Library sync status
A Sync enabled B Sync disabled

On your local desktop machine all apps share a single local cache for your libraries data. This enables optimal use of disk space and network bandwidth as well as near-instant propagation of libraries changes between local apps, even when you are not connected to the network.

Turn on file sync

Depending on your version of Creative Cloud desktop app, do one of the following:

When you turn on file sync, libraries start syncing. Your libraries are kept up to date across devices. File syncing may take some time, depending on the volume of content in your libraries.

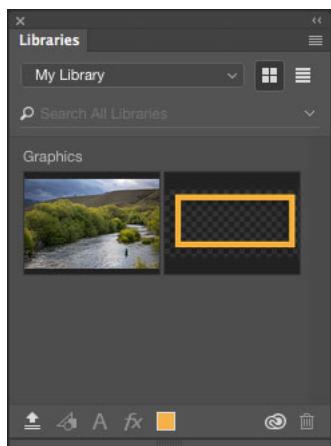
Add assets to the library

Open the file containing your assets. You can add graphics, colors, text styles, and layer styles to the library. You can also add assets to the library from [Creative Cloud Market](#).

Add graphics

- 1 Select the appropriate layers or layer groups containing the graphic asset in the **Layers** panel.
- 2 Select the Move tool.
- 3 Drag and drop the layers or layer groups into the **Libraries** panel.

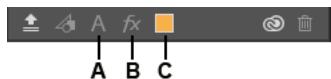
The graphic asset is now available in the library.



Graphic assets added to a library.

Add layer styles, character styles, and colors

- 1 In the **Layers** panel, select the appropriate layer containing the asset.
- 2 Click an icon in the **Libraries** panel.



Add layer styles, character styles, or colors
A Add Character Style | B Add Layer Style | C Add Color

The assets are now available in the library.

Note:

Layer Styles apply only to Photoshop layers. Although you can add these styles to a library, you cannot use them in other Creative Cloud desktop applications that support Creative Cloud Libraries.

You can also drag brush presets from Brush Presets panel, layers from Layers panel, colors from Swatches panel, and layers styles from Styles panel and drop them in the Libraries panel.

Add assets from Adobe Stock



Adobe Stock is deeply integrated with Creative Cloud Libraries. You can add a watermarked stock image to any of your libraries directly using the Adobe Stock website. You can then use the watermarked image in your Photoshop documents as a library-linked asset.

When you choose to license the image—which you can do directly from within the Libraries panel in Photoshop—all instances of the watermarked asset in your open documents are updated to the high-resolution licensed image.

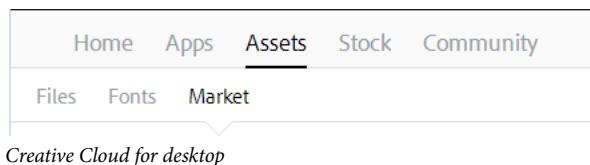
For more information, see these resources:

- [Use Adobe Stock in apps supporting Creative Cloud Libraries](#)

Add assets from Creative Cloud Market

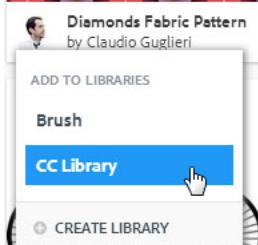
You can use the Creative Cloud for desktop app to browse and add assets from Creative Cloud Market.

- 1 Launch the Creative Cloud for desktop app.
- 2 Go to the **Assets** tab and select **Market**.



- 1 Browse and select the asset you want to add to the library.
- 2 Select the library you created in Adobe Photoshop from the pop-up menu.

Photoshop and Adobe services



Add asset from Creative Cloud Market

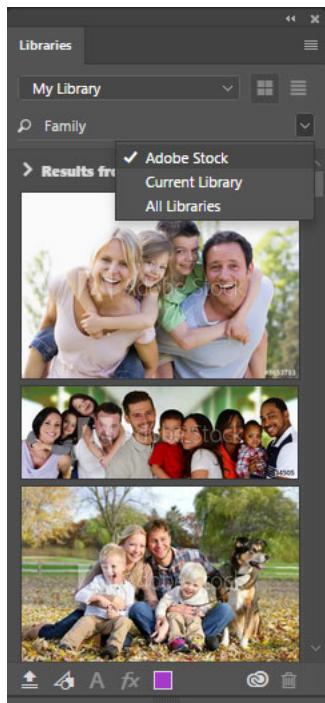
The asset is now available in the library.

Add assets from other Adobe applications

You can add assets from other Adobe applications, such as Adobe Illustrator, and mobile applications, such as Adobe Brush. Creative Cloud keeps all the assets in sync and you can use these assets in Photoshop.

 For more information, see [Apps supporting Creative Cloud Libraries](#).

Library search



Adobe Stock search from Libraries panel

The search box in the Libraries panel enables you to search for the right asset, quickly and efficiently. You can modify your search based on the following available options:

Adobe Stock Search for the assets in Adobe Stock from directly within the Libraries panel.

Current Library Perform a search for your asset within your current library.

All Libraries Perform a search for your asset across all your libraries.

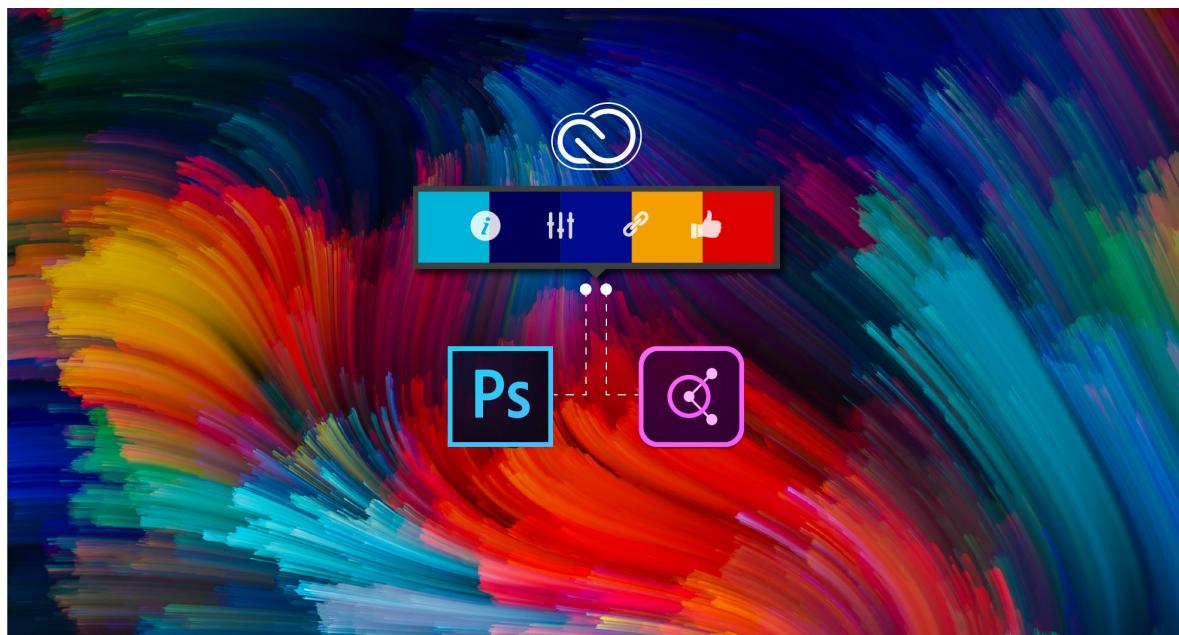
Find stock images visually similar to a library element

The visual search functionality in the Libraries panel lets you quickly find stock images similar to a library element. Follow these steps:

- In the Libraries panel, right-click an element and then select **Find Similar** from the context menu.

Photoshop displays the search results right within the Libraries panel.

Use the Adobe Color Themes extension



The Adobe Color service helps you choose harmonious and appealing color combinations for your design projects. Adobe Color is integrated right within Photoshop in the form of an extension that lets you create, save, and access your color themes. You can also explore the many public color themes available on Adobe Color and filter them in several ways: **Most Popular**, **Most Used**, **Random**, themes you've published, or themes you've appreciated in the past. Once you've found a theme that you like; you can edit it and save it to your themes, or add it to your swatches in Photoshop.

Aside from Photoshop, the **Adobe Color Themes** extension is currently available in three other Creative Cloud desktop applications: Adobe Illustrator, Adobe InDesign and Adobe After Effects. Themes saved to Creative Cloud libraries from within these desktop apps, mobile apps such as Capture, or using the [Adobe Color website](#) are accessible seamlessly in Photoshop.

Additionally, Adobe Color Themes panel is your portal to groups of colors, or themes, created by an online community of designers. Using the Adobe Color Themes panel, you can create or edit thousands of themes, and then use them in your projects. You can also use the this panel to share your themes with the community by uploading them.

Access the Adobe Color Themes panel

- In Photoshop, select **Window > Extensions > Adobe Color Themes**.

Explore color themes

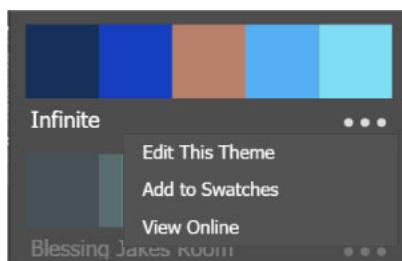


Explore themes

- 1 Click the **Explore** tab in the **Adobe Color Themes** panel. By default, the **Explore** tab displays all public color themes.
- 2 If necessary, filter the color themes by a category and a timeframe. Use the search bar if you're looking for a specific theme.

Work with the color theme

Once you've found a theme that you like; click icon to choose the desired option from the flyout menu of a color theme using the **Adobe Color Themes** panel:



Options available for color themes under the Explore tab

Edit This Theme Opens the selected color theme in the **Create** tab of the **Adobe Colors Theme** panel. You can modify and work with the colors present in the theme as desired and save it in your Creative Cloud Libraries.

Note:

Alternatively, you can click the name of a color theme to edit it.

Add To Swatches Saves the selected color theme in the Swatches panel.

View Online View the color theme and related information, such as who created this color theme, the date of sharing this color theme, ratings and reviews, and so on in your browser. You can also appreciate, save, share, and edit this theme from your browser.

Photoshop and Adobe services

Explore / Times Changing

Comments:

- [REDACTED] Oh my, love this! 10/4/2011 4:19PM
- [REDACTED] Absolutely gorgeous! How are you doing Maria? 10/6/2011 5:24AM
- [REDACTED] Beauty; love it. 10/7/2011 7:52PM
- [REDACTED] perfekt - genau mein Geschmack 😊 10/8/2011 3:25PM
- [REDACTED] ***** 10/9/2011 3:53PM
- [REDACTED] amazing! 10/9/2011 5:42PM
- [REDACTED] wonderful! 10/9/2011 7:56PM
- [REDACTED] spectacular, soft, like a gentle rainbow - just looking at these colors makes me smile 10/10/2011 8:48AM
- [REDACTED] what a stunning oragen combination. 10/10/2011 10:38AM

Actions:

- Appreciate
- Save to Library
- Share
- Edit Copy
- Report Abuse

Info:

- Created By: [marlagreenlu...](#)
- Created: 10/3/2011
- Viewed: 251 times
- Rating: ★★★★☆
- Appreciated By: 1K+ members

View a color theme online

Create and save a color theme

- 1 Click the Create tab in the Adobe Color Themes panel.
- 2 Select the color rule on which you want to base the theme: **Analogous, Monochromatic, Triad, Complementary, Compound, Shades, or Custom**. For details, see [Color rules](#).
- 3 Now, choose a base color by clicking the little triangle corresponding to a color in the theme you're editing. Based upon the color rule selected, a color theme is automatically built around the base color.



Choose a base color

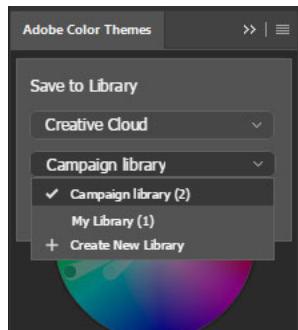


While a color is selected, you can adjust it either using the color wheel or by changing its value in one of the following color systems: CMYK, RGB, LAB, HSB, or HEX.

- 1 (Optional) You can choose one of the following options while creating a color theme:
 - Click the **Set Selected Color From Active Color** icon () to add the active color from Illustrator workspace to your color theme.
 - Click the **Click To Set Active Color** icon () to set the active color in the Illustrator workspace from your color theme.

Photoshop and Adobe services

- Click the **Add To Swatches** icon (■) to add your color theme to the Swatches panel.
- 2** Enter a name for the new color theme. Click **Save**.
- 3** Choose the Creative Cloud library to which you want to save the theme.



Save the new theme to a library

- ? Click **Save**.

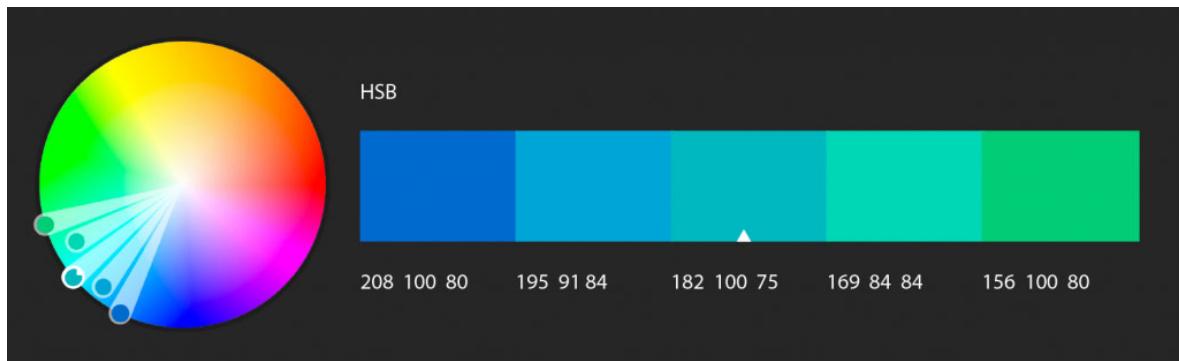
Note:

Depending on whether you're logged in using your Adobe ID or your enterprise credentials, different sets of libraries may be available for saving themes. Select **Help > Manage My Account** to check the credentials with which you're logged in. If you land at the authentication screen for your organization when you select this option, you're logged in using your enterprise credentials.

The same email ID may be associated with an Adobe ID as well as an enterprise ID.

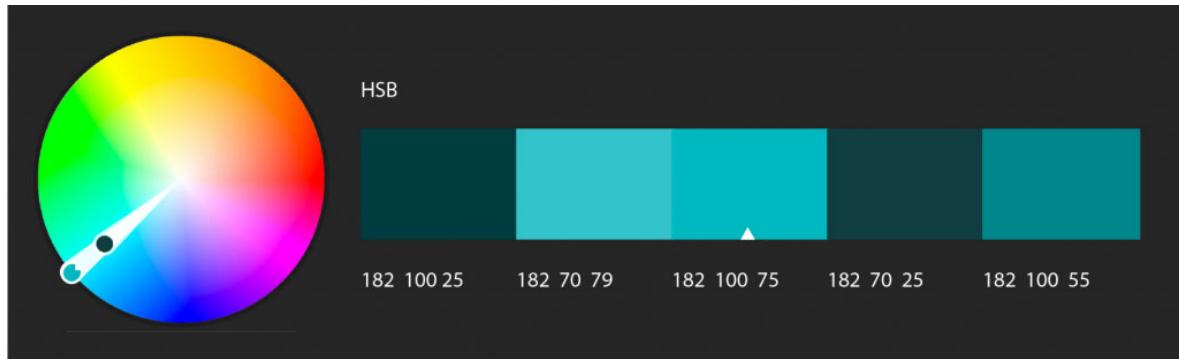
Color rules

Analogous Uses colors that are adjacent on the color wheel. Analogous colors usually blend well with one another and are harmonious and pleasing to the eye.



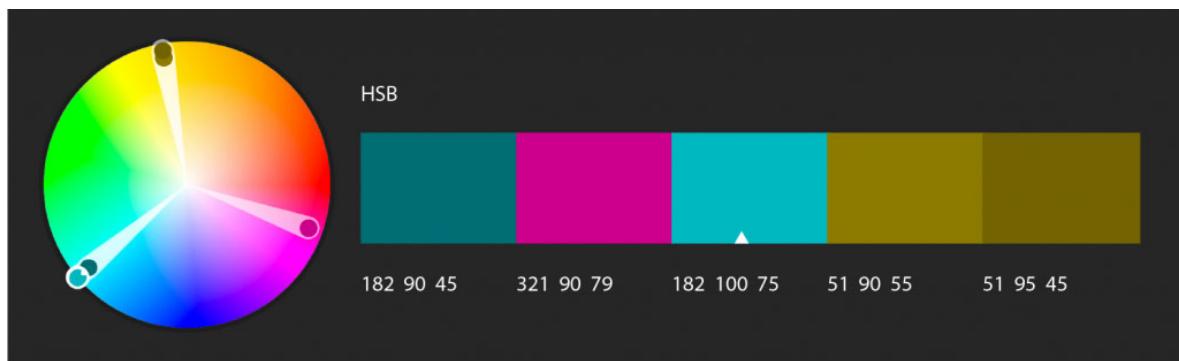
Example: Analogous color rule

Monochromatic Uses variations in saturation and brightness of a single color. When you use this color rule, you're presented with five colors sharing the same hue (example: $H:182$) but different saturation and brightness values. Monochromatic colors go well together and produce a soothing effect.

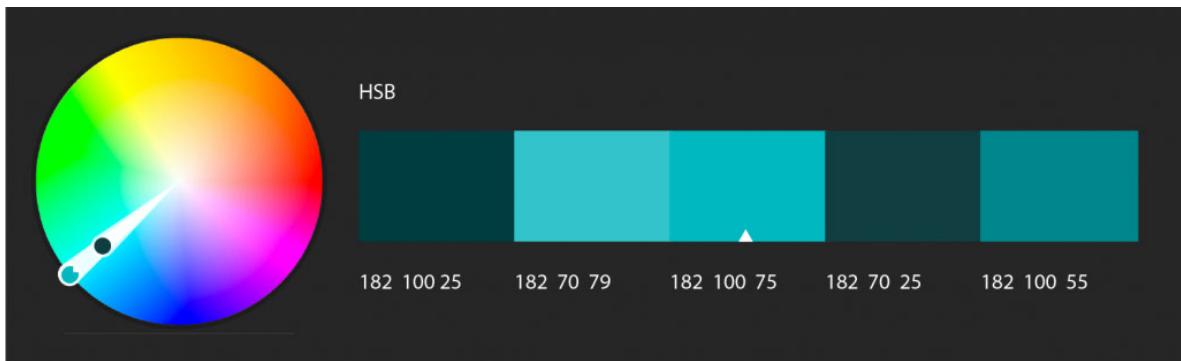


Example: Monochromatic color rule

Triad Uses colors evenly spaced around three equidistant points on the color wheel. When you use this color rule, you're presented with two colors with the same hue but different saturation and brightness values from the first point on the color wheel (example: HSB: 182, 90, 45 & HSB: 182, 100, 75), two from the second point on the color wheel (HSB: 51, 90, 55 & HSB: 51, 95, 45), and one color from the third point (HSB: 321, 90, 79). Triadic colors tend to be contrasting—albeit not as contrasting as complementary colors—while still retaining harmony when used together.

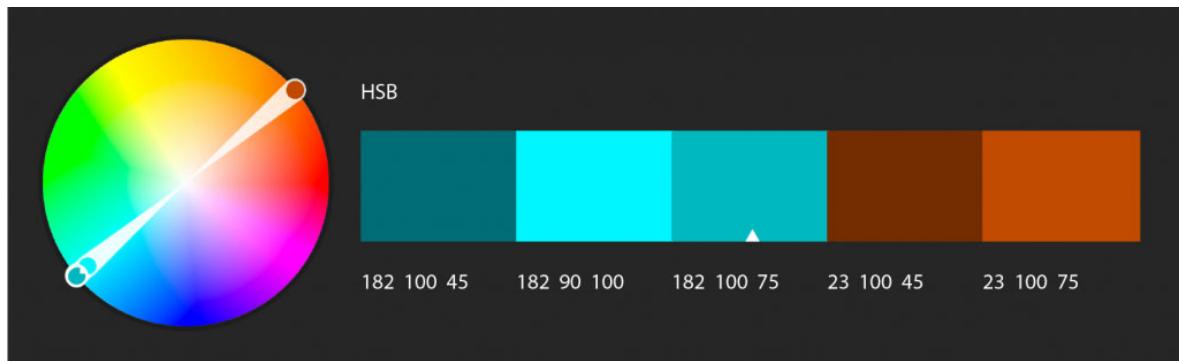


Example: Triad color rule



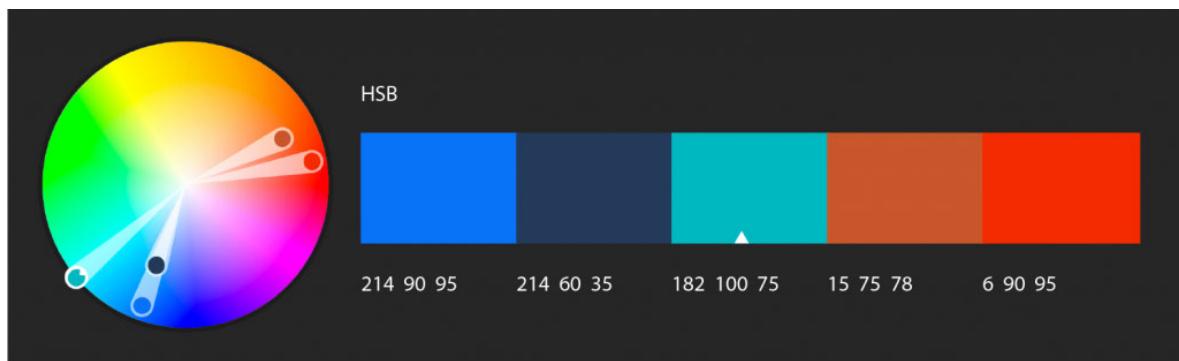
Example: Monochromatic color rule

Complementary Uses colors opposite to each other on the color wheel. When you use this color rule, you are presented with two colors with the same hue as the base color (example: HSB: 182, 100, 45 & HSB: 182, 90, 100), the base color itself (HSB: 182, 100, 75), and two colors with the same hue from the opposite point on the color wheel (HSB: 23, 100, 45 & HSB: 23, 100, 75). Complementary colors provide high contrast and tend to stand out when used together.



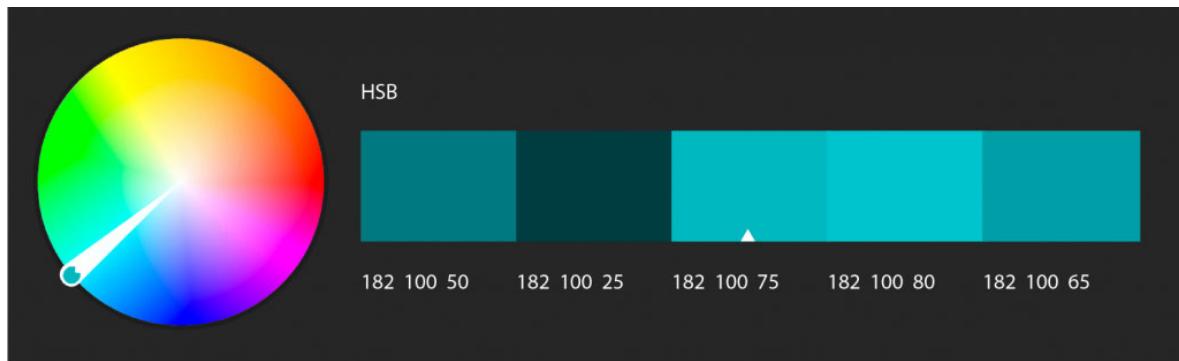
Example: Complementary color rule

Compound Uses a mix of complementary and analogous colors. When you use this color rule, you are presented with two colors with the same hue that are adjacent (analogous) to the base color (example: HSB: 214, 90, 95 & HSB: 214, 60, 35), the base color itself (HSB: 182, 100, 75), and two colors opposite to the base color (complementary) but adjacent to each other (HSB: 15, 75, 78 & HSB: 6, 90, 95). Compound color themes have the same strong visual contrast as complementary color themes, but they have less pressure.



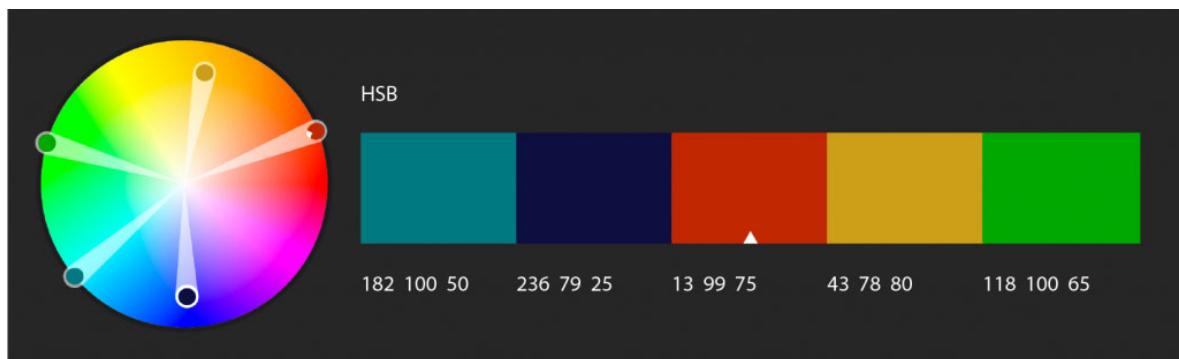
Example: Compound color rule

Shades Uses five colors—all sharing the same hue (example: $H: 182$) and saturation ($S: 100$) but different brightness values.



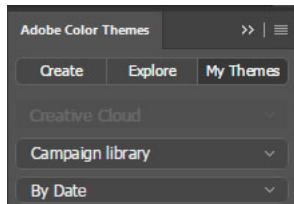
Shades color rule

Custom Lets you manually select the colors on the color wheel in your palette without any rules controlling them.



Custom color rule

Access themes saved to your libraries



Access your themes

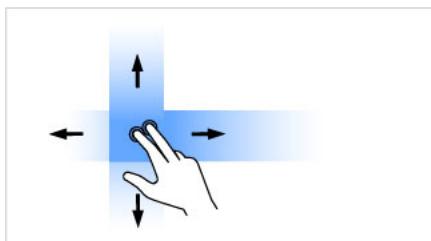
- 1 In the **Adobe Color Themes** panel, click the **My Themes** tab.
- 2 Select the Creative Cloud library from which you want to access the color theme.
- 3 If necessary, select a sorting parameter/order for the listed themes: **By Date**, **By Name**, or **By Quantity**; ascending or descending.

Touch capabilities and customizable workspaces

Photoshop now features a modern user experience that provides robust touch capabilities, an updated UI, and customizable toolbar and workspaces.

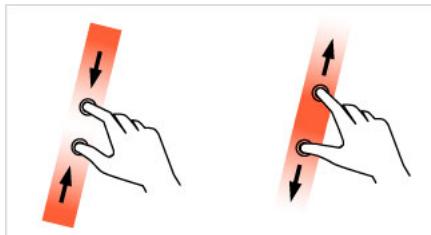
Touch workspace and gestures

If you own a Photoshop-supported Windows-powered device, such as the Surface Pro, you can use these touch gestures while using Photoshop on it.



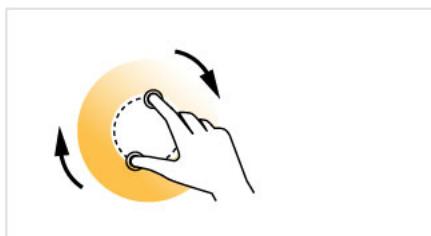
Two-Finger Pan

Move two fingers in any direction on the canvas without changing the distance between them or the angle of the line connecting them. You may, this way, pan the canvas view.



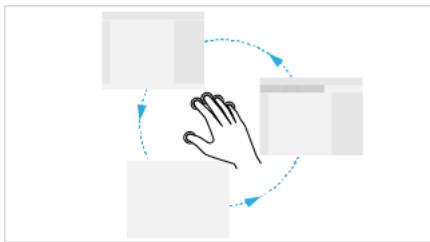
Two-Finger Pan and Zoom

Move two fingers toward or away from each other. You may, this way, pan or zoom the canvas view (scaled).



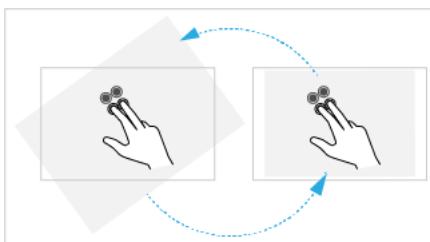
Two-Finger Pan and Rotate

Rotate two fingers around the center of the line connecting them. You may, this way, pan and rotate the canvas.



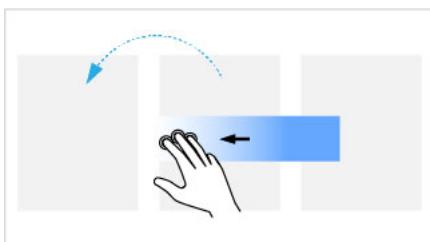
Five-Finger Cycle Screen Mode

Tap once with five fingers to cycle through the three application display screen modes, including full screen.



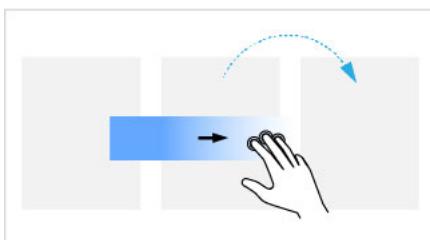
Two-Finger Reset or Restore View

Double-tap two fingers on the tablet surface to reset the view to an unrotated transform that nearly fills the document canvas. Double-tap with two fingers again to restore the view to its previous state.



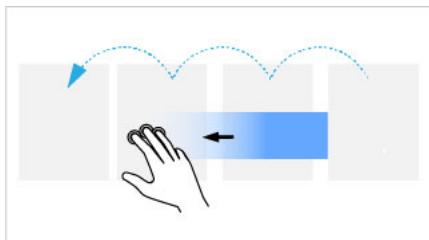
Three-Finger Step Back in History (Undo)

Move three fingers rapidly from right to left. The document view moves back one step in the change history.



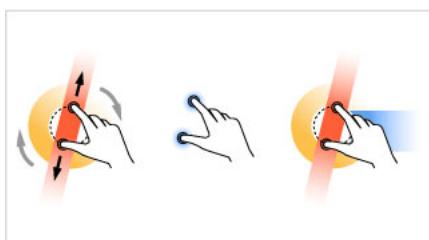
Three-Finger Step Forward in History (Redo)

Move three fingers rapidly from left to right. The document view moves forward one step in the change history.



Three-Finger History Scrub

Move three fingers from right to left or from left to right. The document view moves continuously through the entire change history.



Two-Finger Free Transform (Pan, Zoom, and Rotate)

- Place two fingers on the tablet surface and rest motionless for a moment.
- Rotate the two fingers around the center of the line connecting them while simultaneously moving them nearer to or farther from each other.

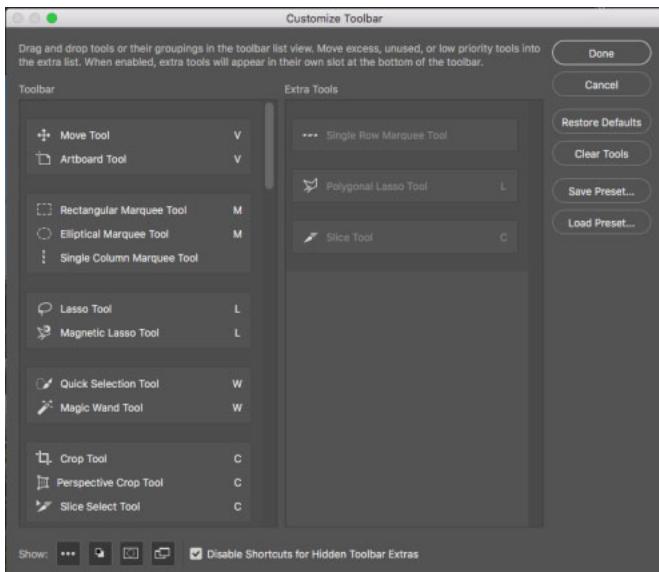
You may, this way, freely pan, zoom, and rotate the canvas view.

Customizable toolbar and workspaces

Photoshop now features an updated UI. In addition to look-and-feel improvements, it now lets you customize your toolbar and save multiple toolbar configurations as parts of different workspaces. Also, included Photoshop workspaces have been streamlined to give you quick access to only the tools you need.

[Customize the toolbar.](#)

Photoshop and Adobe services



Customize your toolbar

Error: Waiting for Bridge | Mini Bridge panel

Issue

When you browse files using the Mini Bridge panel in Photoshop, InDesign, or InCopy, you see the following message in the Content pod:

"Waiting for Bridge."

No files or folders appear.

Mini Bridge uses a background process called SwitchBoard to communicate with Adobe Bridge. If SwitchBoard can't open Adobe Bridge, then Mini Bridge can't display your files. This issue also occurs if Photoshop, InDesign, or InCopy can't communicate with Adobe Bridge through SwitchBoard. Solutions to the "Waiting for Bridge" error involve fixing this SwitchBoard communication. Try the following solutions in order, and stop when you resolve the issue.

Solution 1: Re-create the SwitchBoard preferences files.

- 1 Quit all Adobe applications.
- 2 In the Finder (Mac OS) or Windows Explorer (Windows), navigate to one of the following folders:
 - **Mac OS X:** /Users/Your User Name/Library/Preferences/Adobe
 - **Windows 7/Vista:** C:\Users\Your User Name\AppData\Roaming\Adobe
 - **Windows XP:** C:\Documents and Settings\Your User Name\Application Data\Adobe

Note: Replace Your User Name above with the name of your Mac OS or Windows user account.

- 3 Delete the SwitchBoard folder.

- 4** Restart your computer.
- 5** Open Photoshop, InDesign, or InCopy and then open the Mini Bridge panel.

Solution 2: Add SwitchBoard to your firewall software's exception list.

Firewall software is used to protect computers from threats on the Internet. Some examples of firewall software are Mac OS Application Firewall, McAfee, Norton, Windows Firewall, and ZoneAlarm.

If firewall software prevents SwitchBoard from communicating with Adobe Bridge, however, Mini Bridge can't display your files. Most firewall software can store a list of exceptions, that is, a list of programs that are allowed to access network resources. It's possible that your firewall software calls these exceptions a "white list" or an "allow list."

For instructions on how to add an exception to your firewall software, see the firewall software's documentation, or contact its manufacturer.

SwitchBoard is installed to one of the following locations:

- **Mac OS X:** /Library/Application Support/Adobe/SwitchBoard/SwitchBoard.app
- **32-bit editions of Windows:** C:\Program Files\Common Files\Adobe\SwitchBoard\SwitchBoard.exe
- **64-bit editions of Windows:** C:\Program Files (x86)\Common Files\Adobe\SwitchBoard\SwitchBoard.exe

After adding SwitchBoard to the list of exceptions in your firewall software, restart your computer. Open Photoshop, InDesign, or InCopy, and then open the Mini Bridge panel.

Solution 3: (Windows) Ensure that the Windows hosts file contains its default entries.

SwitchBoard points to the localhost server, which is an internal name for your computer, to communicate with Adobe Bridge. By default, the Windows OS "hosts" file contains a reference to localhost. If the hosts file is missing this entry, however, or if this entry is incorrect, then Mini Bridge can't access your content.

To determine what information is required in the hosts file for your edition of Windows, see [Microsoft Support article 972034](#). This article also includes information about resetting the hosts file to its default.

Solution 4: (Windows) Clear the Windows cryptographic database and reset SwitchBoard.

The first time SwitchBoard runs on your computer, it uses information in the Windows cryptographic database to create values in the registry and switchboard.ini file. If SwitchBoard cannot read this database, then the resulting registry values and the data in switchboard.ini are all invalid. These invalid files prevent SwitchBoard from functioning.

- 1** Close all Adobe applications.
- 2** Choose Start > Run (Windows XP) or click Start (Windows Vista or Windows 7), type "%appdata%\Microsoft\Crypto" (including the quotation marks), and press Enter.
- 3** Rename the RSA folder to, for example, oldRSA.
- 4** Choose Start > Run (Windows XP) or click Start (Windows Vista or Windows 7), and type *regedit* and then press Enter. The Registry Editor opens.
- 5** In the left pane of the Registry Editor, navigate to HKEY_CURRENT_USER\Software\Adobe\IAC. Select the IAC key.
- 6** In the right pane, right-click the MD5ID value and choose Delete. Click Yes in the Confirm Value Delete dialog box.

- 7 In the right pane, right-click the user ID value and choose Delete. Click Yes in the Confirm Value Delete dialog box.
- 8 Close the Registry Editor.
- 9 Choose Start > Run (Windows XP) or click Start (Windows Vista or Windows 7), type "%appdata%\Adobe\SwitchBoard" (including the quotation marks), and press Enter.
- 10 Delete the switchboard.ini file. (If you do not see the .ini filename extension, then delete the file that is of the type Configuration Settings. The file has an icon that looks like a notepad with a gear on top of it.)
- 11 Restart your computer; open Photoshop, InDesign, or InCopy; and open the Mini Bridge panel.

Solution 5: Create a different user account.

Occasionally, a user account can become corrupted, which can prevent SwitchBoard from accessing or creating the necessary files. Create an account with the same permissions as your current account, log in to the new account, and then run your Adobe applications.

For assistance creating a user account, see the following documents:

- [Creating a new user account](#) in the Mac OS X Help
- [How to create and configure user accounts in Windows XP](#), [Create a user account in Windows](#) (select Windows 7 or Windows Vista from the menu) on the Microsoft support website.

For additional assistance, contact your system administrator.

Untab image windows

Issue

When you open images in Adobe Photoshop they are tabbed together instead of in individual windows.

Solutions

Solution 1: Float your images in windows.

- To float one image in a window, choose Window > Arrange > Float in Window.
- To float all open images in windows, choose Window > Arrange > Float All In Windows.

Note: Window > Arrange is only available when an image window is open.

Solution 2: Disable image tabs and window docking.

To prevent images from opening in tabs in the future, do the follow:

- 1 Choose Photoshop > Preferences > Interface (Mac OS) or Edit > Preferences > Interface (Windows).
- 2 Deselect Open Documents As Tabs.
- 3 Deselect Enable Floating Document Window Docking.
- 4 Click OK.

Additional information

When you drag an image into Photoshop (and the Application Frame is on in Mac OS), the image opens in a tab. This issue occurs even if the tabbed preferences are disabled.

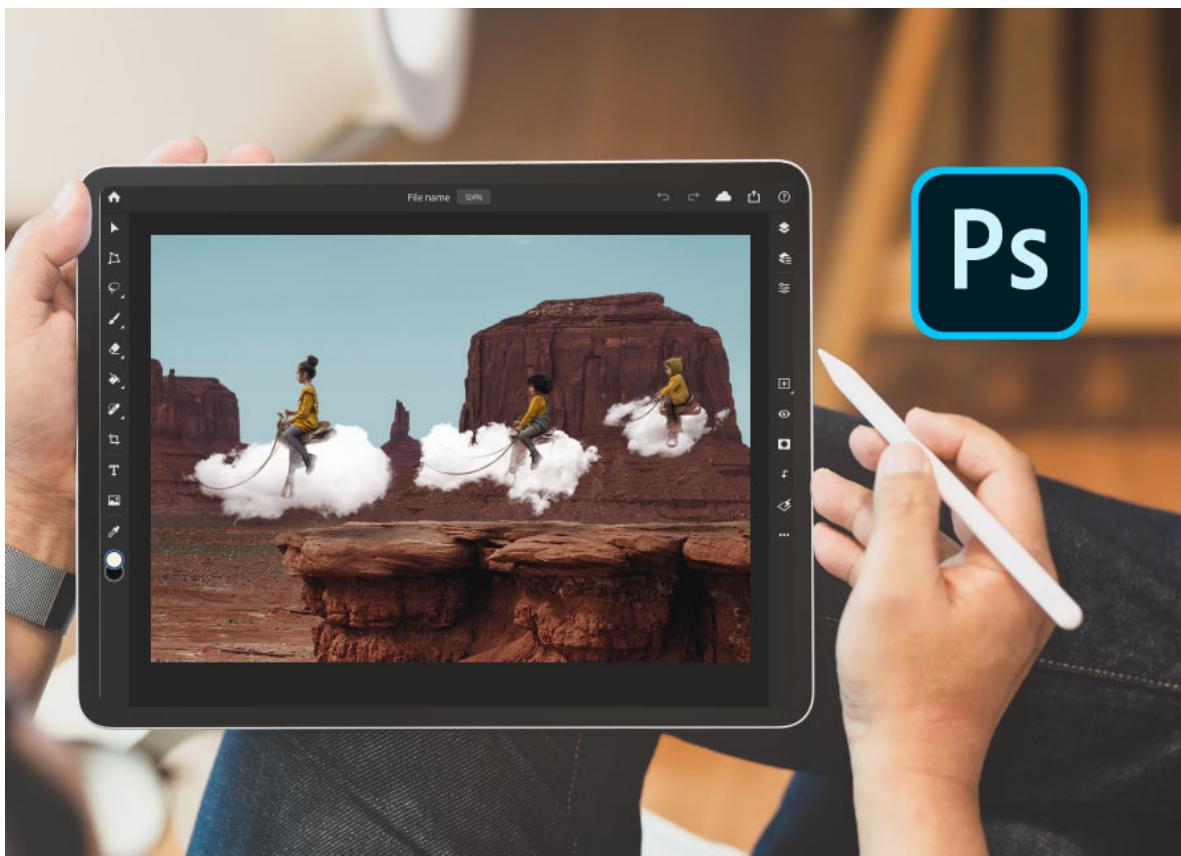
For more information, see [Manage windows and panels](#) and [View images in multiple windows](#) in the Photoshop User Guide.

Chapter 3: Photoshop on the iPad

Photoshop on the iPad | Common questions

Can I use Photoshop on the iPad?

Yes, you can now use Photoshop on your iPad and create anything, anytime, and anywhere.



Inspiration is everywhere. So is Photoshop!

When you're inspired to create something new, Photoshop on the iPad allows you to open and edit large Photoshop files, create stunning composites, retouch your images, and apply effects while on the go. With Photoshop on the iPad, you can untether yourself from your desktop and resume work seamlessly across devices — with the power of [Photoshop cloud documents](#) | [Common questions](#).

Begin creating with Photoshop on the iPad today by subscribing to a [Creative Cloud plan](#) that includes Photoshop. Already have an active plan that includes Photoshop? Sign-in with your Adobe ID on your iPad and download Photoshop for the iPad today.

Which iPad do I need to download and use Photoshop?

To use Photoshop on the iPad, see the list of supported iPad models updated to iPadOS:

	Minimum requirement
iPadOS version	iPadOS (13.1)
iPad models	<ul style="list-style-type: none"> • iPad Pro 12.9-inch (<i>recommended</i>) • iPad Pro 11-inch • iPad Pro 10.5-inch • iPad Pro 9.7-inch • iPad (7th generation) • iPad (6th generation) • iPad (5th generation) • iPad mini (5th generation) • iPad mini 4 • iPad Air (3rd generation) • iPad Air 2
Apple Pencil models	<ul style="list-style-type: none"> • Apple Pencil (2nd generation) (<i>recommended</i>) • Apple Pencil (1st generation)

What languages are supported in Photoshop on the iPad?

On supported devices, Photoshop is available in the following languages:

Deutsch

English

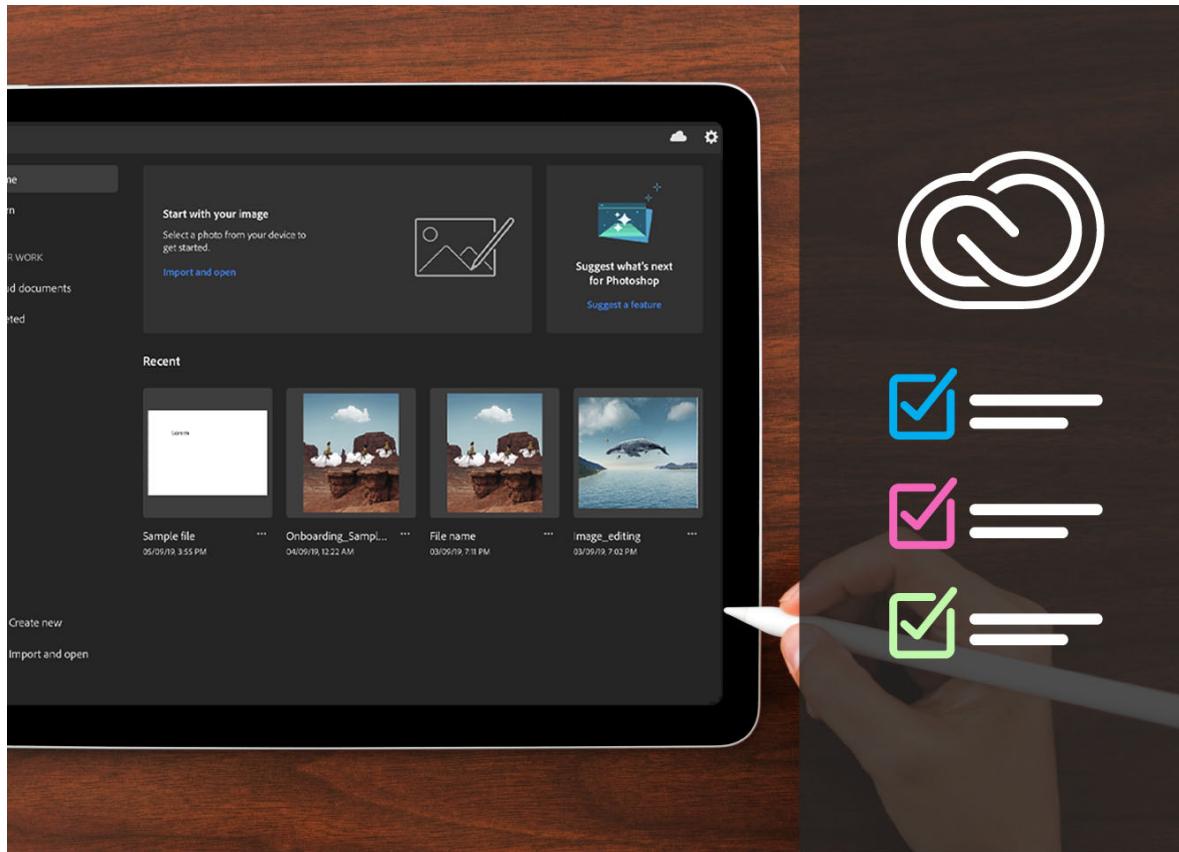
Français

???

Note:

In Photoshop on the iPad, you may be able to use unsupported languages by selecting a native font. However, the functionality will be limited and your experience may vary. Adobe is working to provide support for additional languages in the future releases.

Which Adobe plans include Photoshop on the iPad?



Get Photoshop and start working with Photoshop on the iPad.

If you have an Adobe Creative Cloud plan that already includes Photoshop, you can simply download Photoshop on the iPad for a limited time without purchasing another plan — simply sign-in with your Adobe ID.

If you don't have a plan that includes Photoshop, for a limited time, you can purchase the Creative Cloud Photography plan that includes Photoshop on the iPad, Photoshop desktop, Lightroom, Lightroom Classic, Spark and Portfolio. [Simply sign-in with your Adobe ID](#) to purchase the Creative Cloud Photography plan.

Don't have an Adobe ID? It's free and easy to create one. Click here to quickly [create your Adobe ID](#).

Is Photoshop on the iPad available in my country?

Photoshop on the iPad is available only in countries where Creative Cloud services are available. See the latest [list of countries that support Creative Cloud services](#).

Adobe Creative Cloud services are currently not available on adobe.com in mainland China. As a result, Photoshop on the iPad is not available in this region.

How does Photoshop on the desktop work with Photoshop on the iPad?



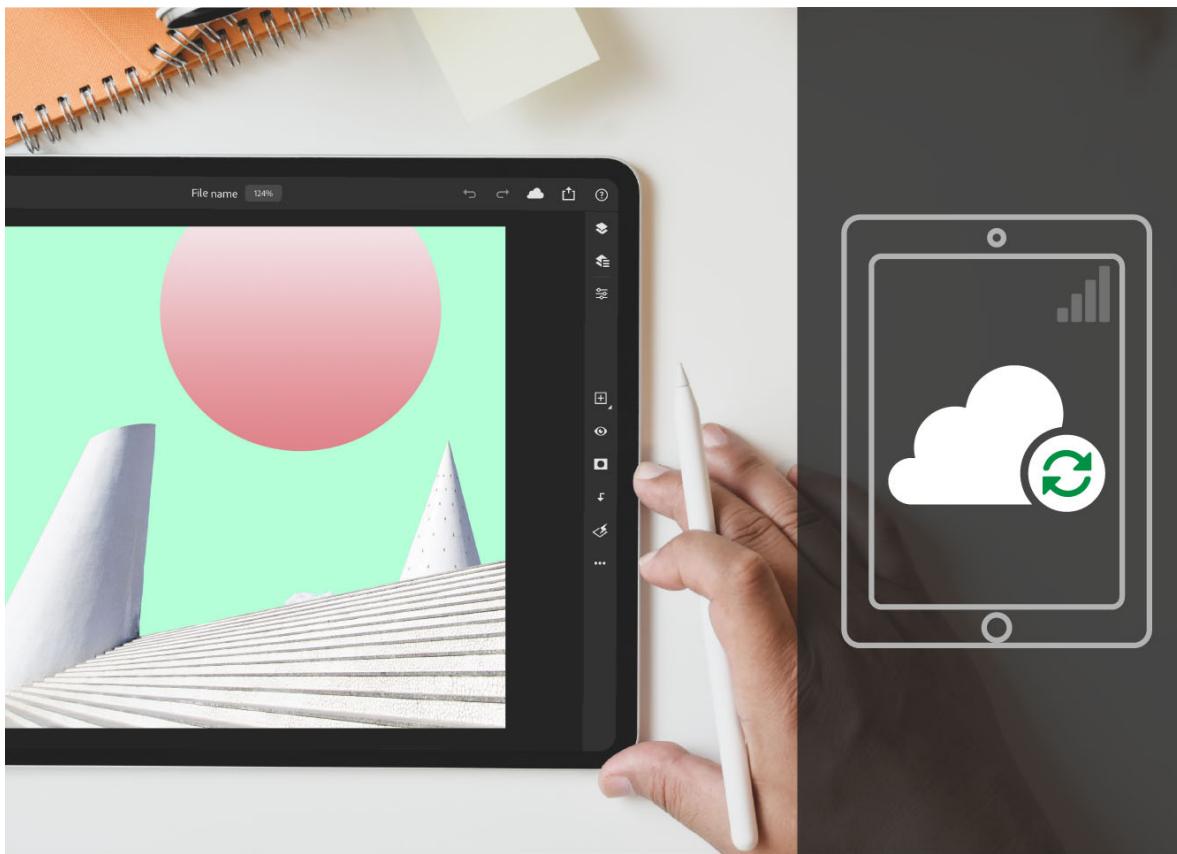
You can access cloud documents from both the desktop or the iPad.

Any document you create with Photoshop on the iPad is automatically saved as a cloud document, so that you can easily access your creative work from iPad to desktop. Cloud documents are automatically synced across devices to create a seamless workflow.

For example, if you want to resume your desktop work on the iPad, simply save your PSD as a cloud document.

To view your cloud documents, simply navigate to the **Cloud documents** tab on the home screen.

Can I turn off auto-save in cloud documents?



Cloud documents are automatically saved to the cloud and help you work seamlessly across devices.

A cloud document is always automatically saved to the cloud — this is what helps you work seamlessly on your creative projects anytime, anywhere, across your devices.

Although cloud document auto-save does not turn off, you can restrict syncing over your cellular network when working on an iPad.

To learn more about cloud documents workflows in Photoshop, see [Photoshop cloud documents | Common questions](#).

How much cloud storage does Photoshop on the iPad provide? Can I upgrade my storage?

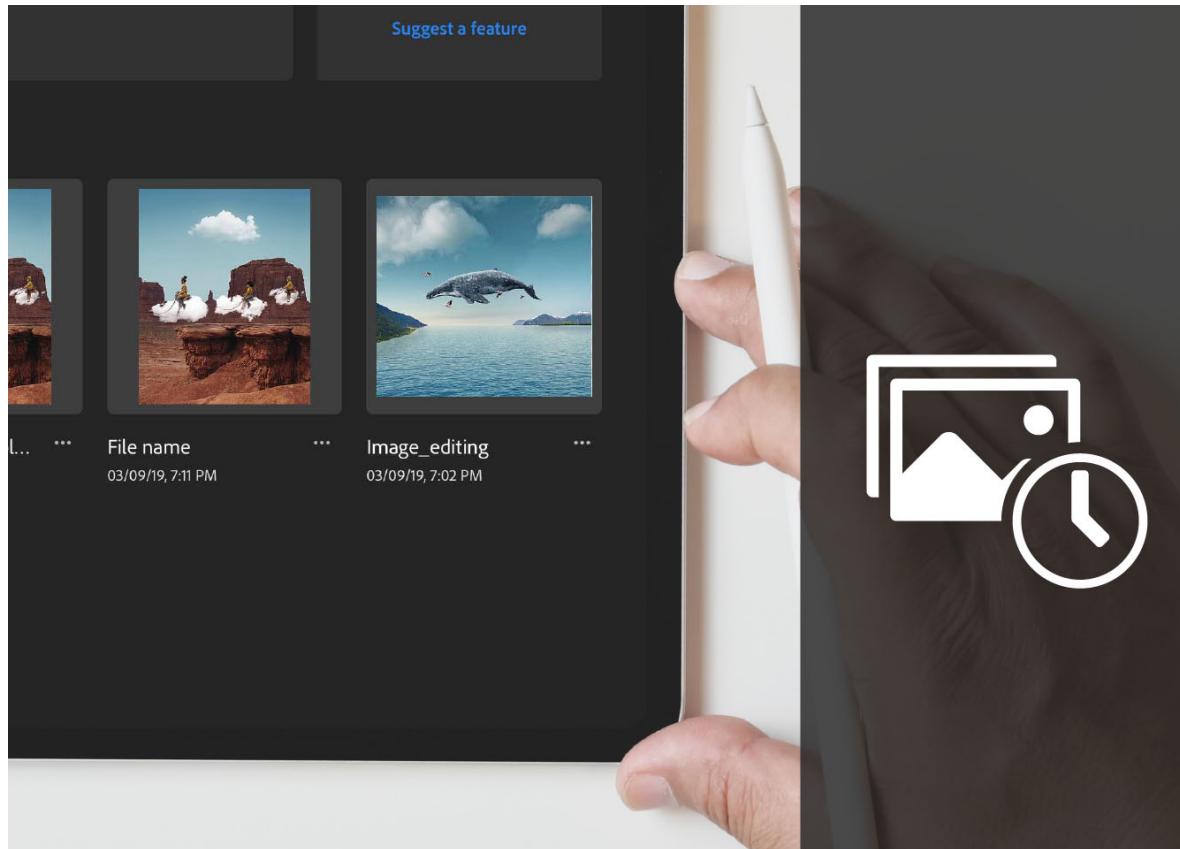
Your cloud storage is shared across your Adobe Creative Cloud apps. The amount of your cloud storage is determined by your Adobe Creative Cloud subscription plan.

Plan	Storage
In-app purchase (via Apple App Store)	100 GB
Free trial	2 GB
Creative Cloud Photography plan (20 GB) (For existing subscribers and new subscribers who purchase this plan by January 31, 2020)	20 GB

Creative Cloud Photography plan (1 TB)	1 TB
Photoshop Single App	100 GB
Creative Cloud All Apps	100 GB

If your cloud storage goes over your quota, your documents can be saved as a local document only. If you need more cloud storage, easily [upgrade your subscription plan](#) to include additional storage at any time.

What happens to my assets if I close or delete my Adobe account?



Assets are available for download for a limited period of time even after your plan expires.

If you close or delete your Adobe account, or if your subscription expires, your assets remain in the cloud and available to download for 30 days. After 30 days, you may lose access to some or all of your documents that are saved on the cloud servers.

To view your assets, go to assets.adobe.com. To learn more about Creative Cloud, see [Common Questions | Creative Cloud](#).

What are the keyboard and touch shortcuts for Photoshop on the iPad?



Simplify your workflows with keyboard and touch shortcuts.

To view a list of popular keyboard shortcuts in Photoshop on the iPad, see [Keyboard shortcuts](#).

To learn more about touch shortcuts and touch gestures in Photoshop on the iPad, see [Touch shortcuts and gestures](#).

How do I suggest a feature or report an issue with Photoshop on the iPad?



Your feedback is valuable! Send us your suggestions. Connect with us on Adobe forum.

Adobe actively listens to our large community of users. We value your input and make it easy to report issues or request new features for Photoshop on the iPad.

To report a problem, suggest a feature, or take a survey, navigate to **App Settings > General > Help > Send feedback**.

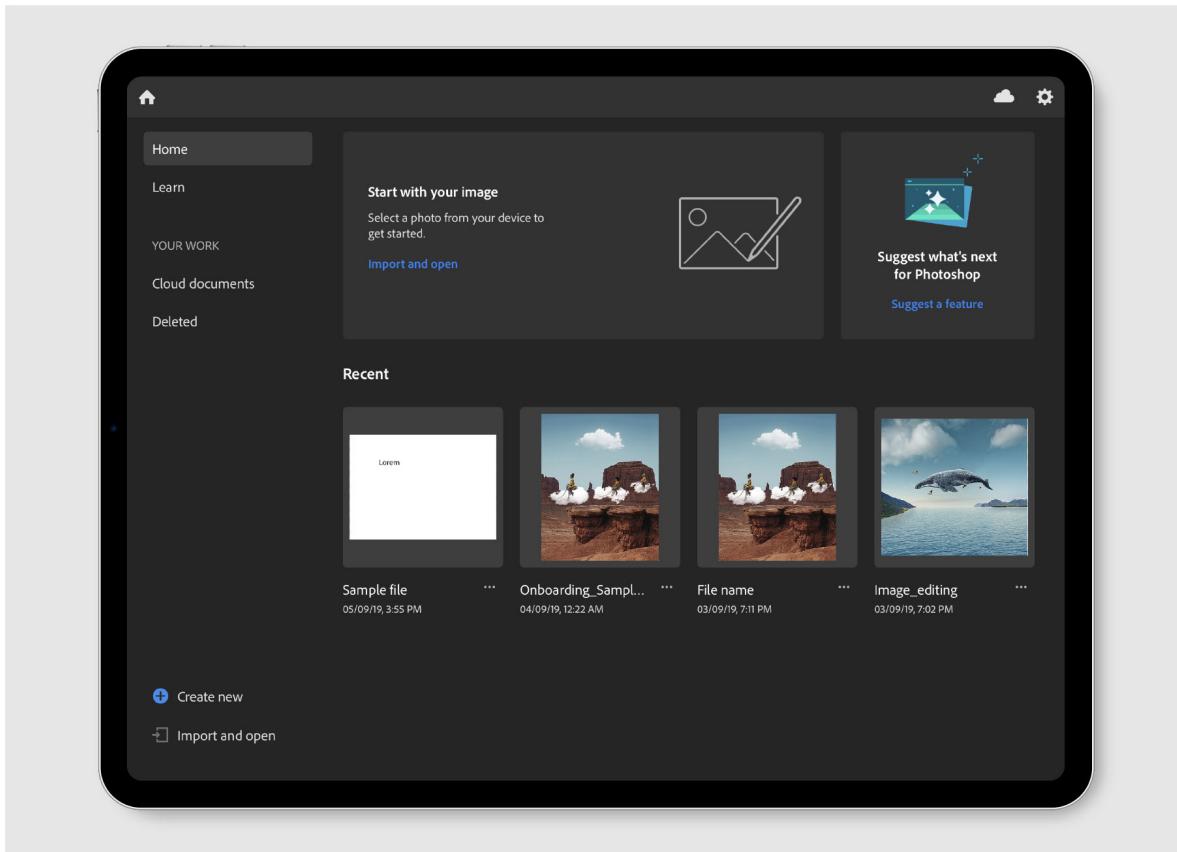
To ask a question and be a part of community discussions on Adobe Forum for Photoshop, navigate to **App Settings > General > Help > Community forum**.

To join a discussion or post to the community, go to [Adobe Support Community | Photoshop](#).

Get to know the workspace

As you launch Photoshop on the iPad, you can view the home screen of the app. From the home screen, you can start creating your composites or documents and proceed to the editing workspace. In the workspace, you can find your favorite Photoshop tools, panels, and other options that will equip you to create composites and retouch your creative work. More Photoshop tools and features are coming to your iPad in future releases.

Home screen



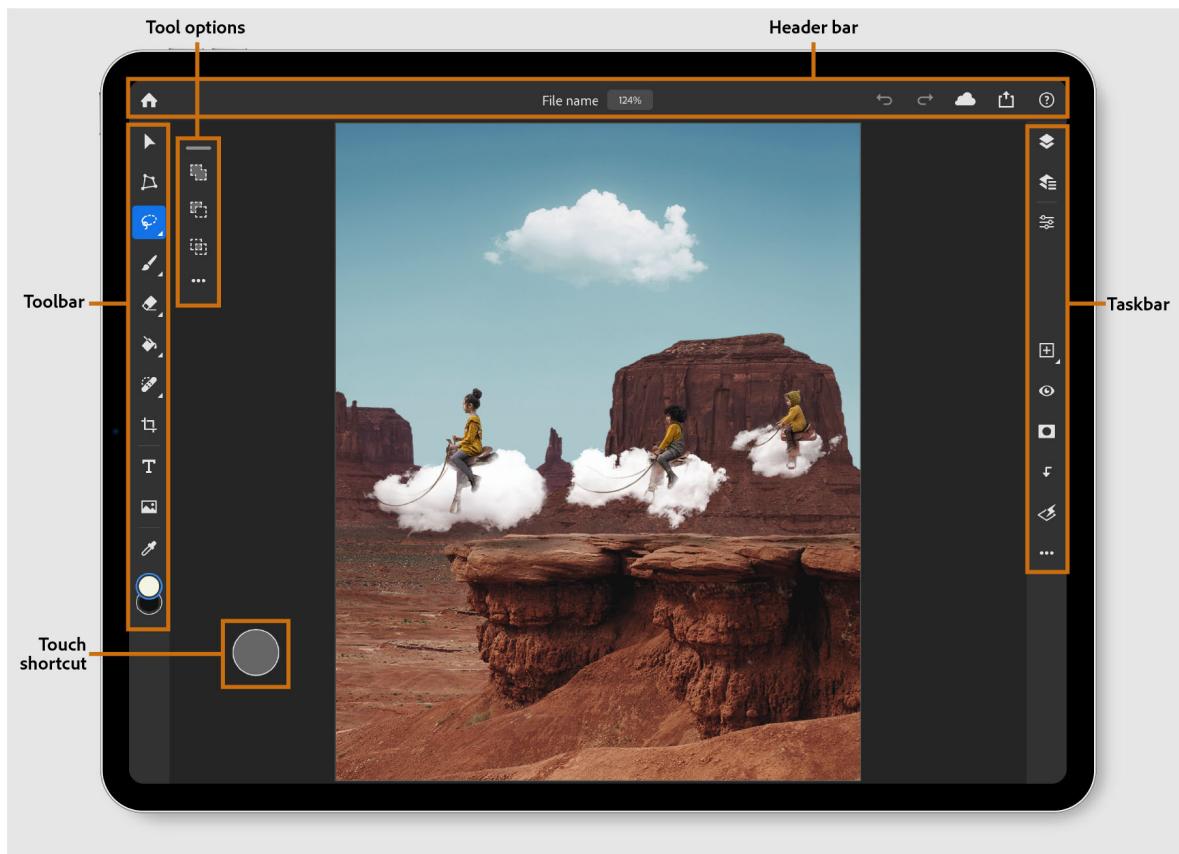
Easily find all your documents on the home screen in Photoshop on the iPad.

- **Home:** Use the Home icon () to switch back to the home screen from the editing workspace at any time.
- **Learn:** Access an interactive app tour and hands-on tutorials to help you explore what's different when you use Photoshop on the iPad and understand common workflows.
- **Cloud documents:** View a list of all saved cloud documents in Photoshop, whether created in Photoshop on your iPad or desktop. To learn more about cloud documents, see [Photoshop cloud documents | Common questions](#).
- **Deleted:** Accidentally deleted a file? No worries! Find a complete list of cloud documents that you have deleted here. You can choose to restore the documents or permanently delete them.
- **Create new:** Easily create a new document with the option to name the document, set the canvas dimension, change orientation, select resolution and choose black, white or transparent background color. You can also explore common preset canvas options in the **Print**, **Screen**, **Film**, or **Video** categories.
- **Import and open:** Quickly import and open your document from the **Camera Roll**, **Files**, or take a new photo with your iPad's **Camera**. Your imported file converts to a Photoshop cloud document and opens on the canvas.
- **Suggest a feature:** Suggest features you would like to see in future releases of Photoshop on the iPad. Adobe is building Photoshop with valuable inputs from its large community of users like you.
- **Recent:** Use the Recent section to access all the documents you worked on recently.

- **App Settings:** Tap  to set your preferences while working with Photoshop on the iPad. To learn more, see [Manage app settings](#).
- **Cloud docs help:** Tap  to check whether you're online or offline, and the save status of your cloud documents.

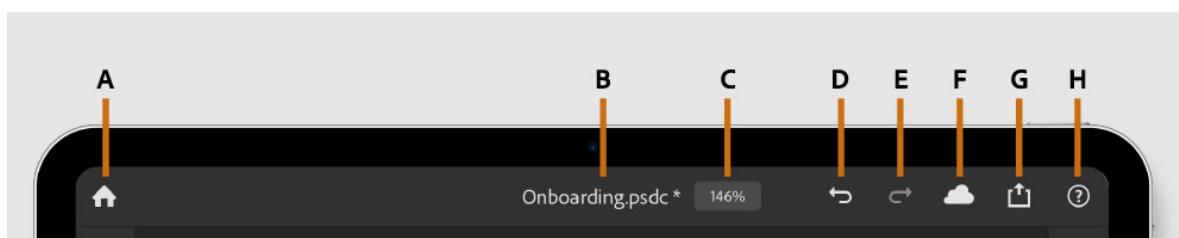
Edit workspace

As soon as you open a document, you will enter into the editing workspace and your creative work can begin. The canvas displays the area where you interact with your open document. Photoshop on the iPad offers you a context-aware user interface. Core tools and tool options are contextual and surface only when you need them.



Get to know the Photoshop workspace on your iPad

Header bar



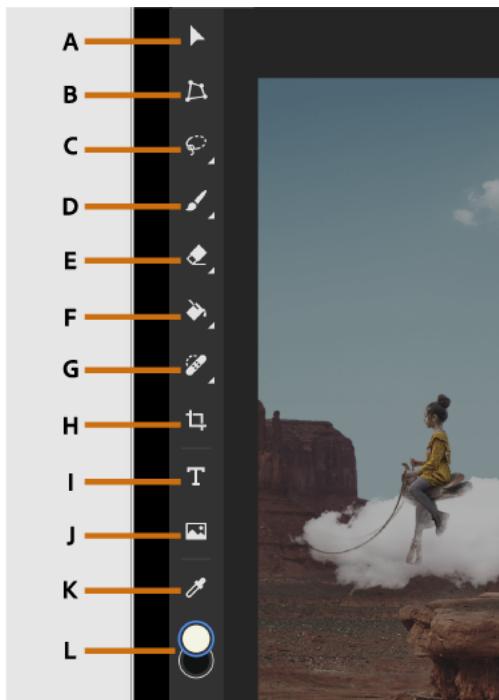
A Home B File name C Current zoom level D Undo E Redo F Cloud docs help G Send to H Help

A. Home: Use the Home icon () to switch back to the home screen from the editing workspace at any time.**B. Filename:** Displays the name of the document currently open.**C. Current zoom level:** Displays the current zoom level of the open document. **D. Undo:** Reverts the last action performed.**E. Redo:** Restore the last action undone.**F. Cloud docs help:** Check whether you're online or offline, and the save status of your cloud documents.**G. Send to:** Use the **Send to** icon to save and send your work to **Photos**, **Files**, or **Share**. **H. Help:** Tap the help icon to browse tutorials, take the in-app tour, view shortcuts, check the Photoshop user guide, reach out to the community forum, and share your feedback with Adobe.

Toolbar

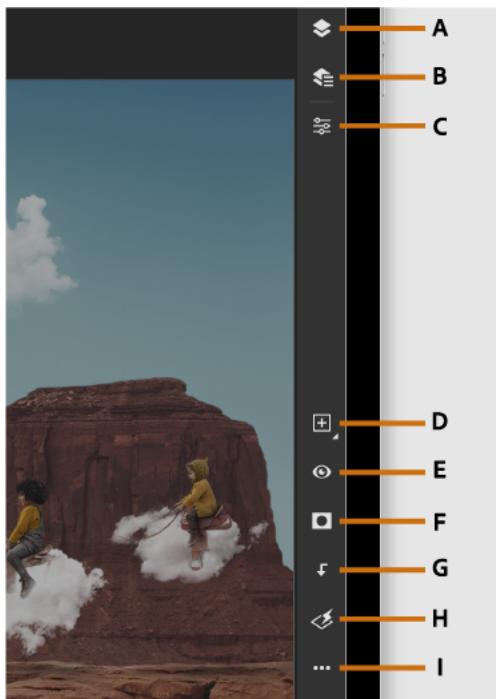
A. Move: Move selections and layers.**B. Transform:** Apply various transform operations to the selected layer or object.**C. Select:** Make a selection with the selection tools—**Lasso**, **Quick select**, **Rectangular marquee**, and **Elliptical marquee**. Long press icon to reveal all selection tools.**D. Brush:** Apply brush strokes and control brush settings.**E. Erase:** Remove portions in your photo where you apply the eraser brush strokes.**F. Fill:** Fill the active selection with the foreground color. Long press icon to reveal the **Gradient** tool.**G. Heal:** Retouch and fix imperfections with the **Heal** tool. Long press icon to reveal the **Clone stamp** tool.**H. Crop:** Crop your selection, and choose to rotate and recenter.**I. Type:** Create a type layer to add text.**J. Place photo:** Add photos from **Camera Roll**, **Files**, **Libraries**, and **Camera**. **K. Eyedropper:** Easily change foreground color by sampling from any layer.**L. Color chip:** View the selected foreground and background colors in the color chip. Swipe vertically to switch between the two colors. Tap the color chip to choose a new color from the color picker that appears.

Note: Long press the icons that have triangles on the bottom right to reveal more tools.



A Move **B** Transform **C** Select **D** Brush **E** Erase **F** Fill **G** Heal **H** Crop **I** Type **J** Place Photo **K** Eyedropper **L** Color chip

Taskbar



A. Compact layer view **B. Detail layer view** **C. Layer properties** **D. Add new layer** **E. Layer visibility** **F. Add mask** **G. Add clipping mask** **H. Filters and adjustments** **I. More layer actions**

A. Compact layer view: See all the layer thumbnails in a simplified view. **B. Detail layer view:** See an expanded layer stack with masks, layer names, visibility, and group contents. **C. Layer properties:** View blending options, adjustments, and dimensions for the type of layer selected (type, pixel, adjustment, and so on). **D. Add layer:** Insert a new layer. Long press for more options — add a new layer, adjustment layer, or empty group. **E. Layer visibility:** Control layer visibility. **F. Add layer mask:** Add layer masks to hide or reveal portions of a layer. **G. Add clipping mask:** Add clipping masks to hide or reveal portions of a layer based on the layer below. **H. Filters and adjustments:** Apply various filters and adjustments to the selected layer. **I. More layer actions:** Reveal more actions you can perform with layers.

Note: Long press the icons that have triangles on the bottom right to reveal more tools.

Tool options

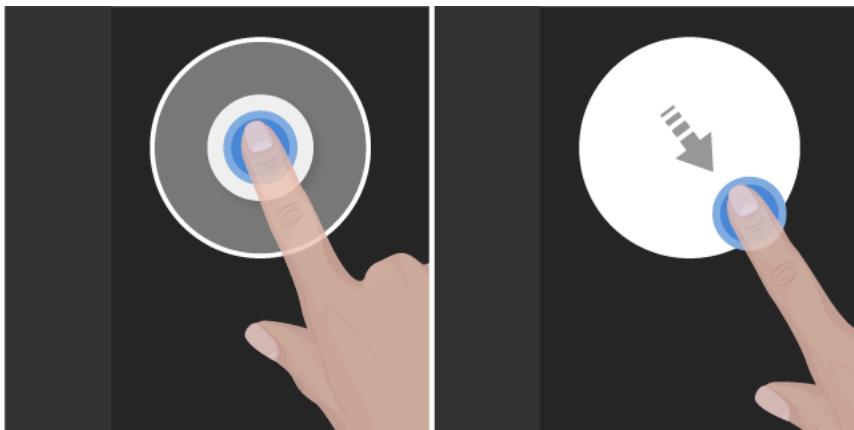


You can control the settings of your selected tools using the tool options. Tap a tool icon to bring up the tool options.

Hold and drag the grabber at the top of the tool options to move it around the canvas. You can also dock tool options by dragging it to the bottom of the toolbar and releasing.

Note: All tools do not have tool options.

Touch shortcut



Left: Primary touch shortcut. Right: Secondary touch shortcut.

Use the touch shortcut to quickly access alternate actions of a selected tool in Photoshop on the iPad.

To learn how to use primary and secondary touch shortcuts, see [Touch shortcuts and gestures](#)

System requirements | Photoshop on the iPad

Minimum and recommended system requirements

	Minimum requirement
iPadOS version	iPadOS (13.1)
iPad models	<ul style="list-style-type: none"> • iPad Pro 12.9-inch (<i>recommended</i>) • iPad Pro 11-inch • iPad Pro 10.5-inch • iPad Pro 9.7-inch • iPad (7th generation) • iPad (6th generation) • iPad (5th generation) • iPad mini (5th generation) • iPad mini 4 • iPad Air (3rd generation) • iPad Air 2
Apple Pencil models	<ul style="list-style-type: none"> • Apple Pencil (2nd generation) (<i>recommended</i>) • Apple Pencil (1st generation)

To identify iPadOS supported devices, see [Apple's support documentation](#).

To identify your iPad model, see [Apple's support documentation](#).

To find out which Apple Pencil works with your iPad, see [Apple's support documentation](#).

Language versions available

On supported iPadOS devices, Photoshop is available in the following languages:

Deutsch

English

Français

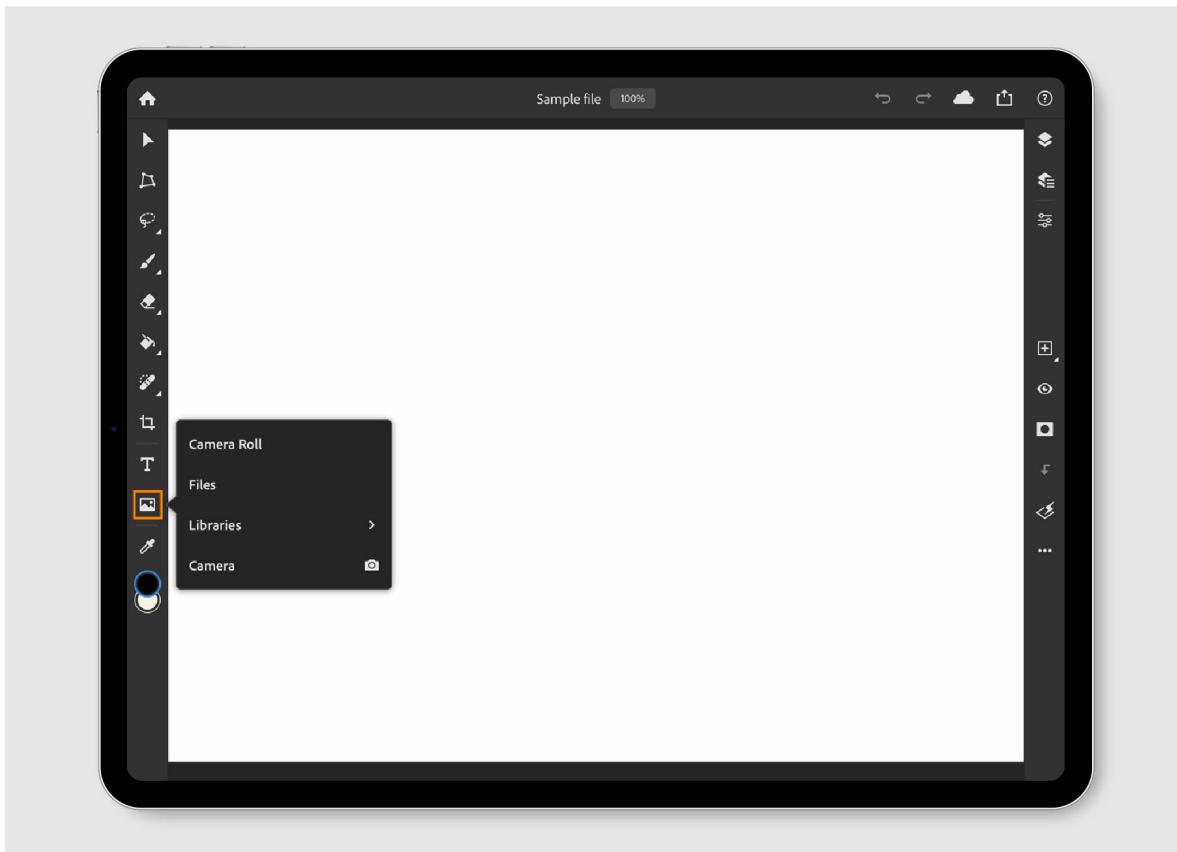
???

Note:

In Photoshop on the iPad, you may be able to use unsupported languages by selecting a native font. However, the functionality will be limited and your experience may vary. Adobe is working to provide support for additional languages in the future releases.

Add photos to your canvas

Placing photos in Photoshop on the iPad is easy with the **Place Photo** tool. Every photo placed is added as a new layer to your document. You can effortlessly select photos from your iPad's **Camera Roll**, **Files**, **Libraries**, or take a new photo right in the app with the **Camera** option. Easily transform your photo to finalize its placement in your document.

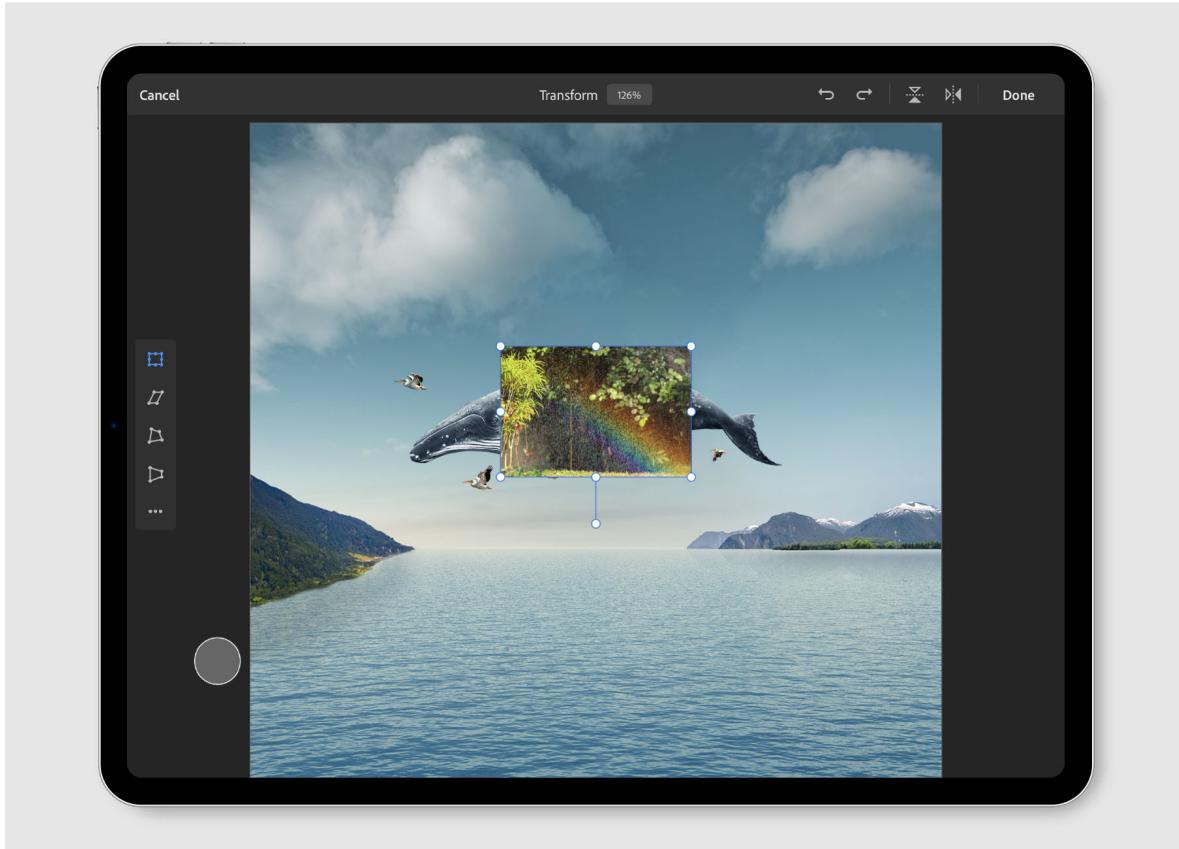


Tap the Place Photo icon and view the sources from which you can add photos.

5 Simple steps to quickly place a photo in your document

- 1 Open the Photoshop document you want to add a photo to.
- 2 Simply tap  from the toolbar on the left side of the canvas.
- 3 In the options panel that opens, select the source of the photo you want to add:
 - **Camera Roll:** Tap Camera Roll to see all your Camera Roll photos.
 - **Files:** Tap Files to browse through your file **Locations** on your iPad. You can also add selected files to **Favorites** and find tagged files under the **Tags** section.
 - **Libraries:** Tap **Libraries** to access the images saved in your Creative Cloud Libraries, and other third-party apps that are installed on your iPad and signed-in. Library assets are placed unlinked and flattened for now.
 - **Camera:** Tap the camera icon to open the camera on your iPad. On opening the camera for the first time, a dialog opens: "**Photoshop would like to access the Camera**". Tap **OK** to grant access. Capture a photo with your iPad. Tap **Retake** to capture a better shot or tap **Use Photo** to continue.

- 4 Tap a photo to select it from any of the above sources. The selected photo opens in the **Transform** mode. Select a transform operation to apply on the photo before placing it in the canvas. To learn more about transform operations, see [Apply transform operations](#).



- 5 Tap **Done** to apply transformations and add the photo to your canvas. Tap **Cancel** to go back to the open document and start the process again.

Have a question on supported file types?

Find answers to some of your common queries. If your question isn't listed here, or you want to share your feedback, join discussions on [Adobe Photoshop Community](#).

What file formats can I place in a document?

The supported file formats for placing a photo in Photoshop are - PSD, PSB, TIFF, JPG, and PNG.

Can I place .pdf and .ai files in a document?

Yes. However, PDF and AI files are converted to flat PNG images before getting added to a document.

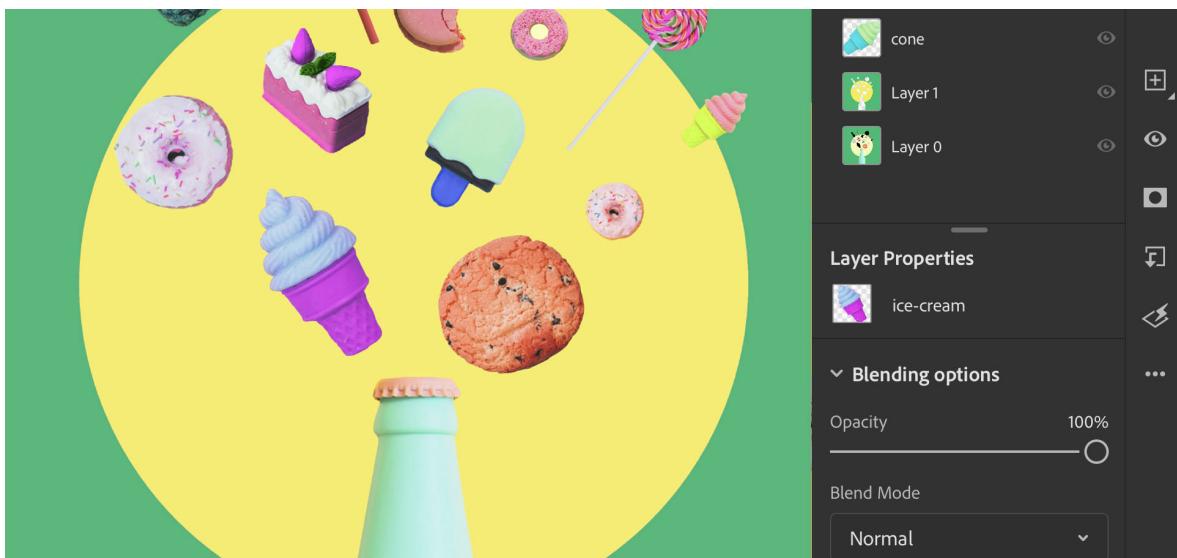
Can I place smart objects and linked assets in a document?

Yes. However, linked assets and smart objects are placed as unlinked raster layers for now.

Work with layers

Layers contain the images, fonts, and objects that make up a layered file. Layers enable you to move, edit, and work with content on one layer without affecting the content within your other layers. Use layers to perform tasks such as compositing multiple images, adding text to an image, and applying filters and adjustments.

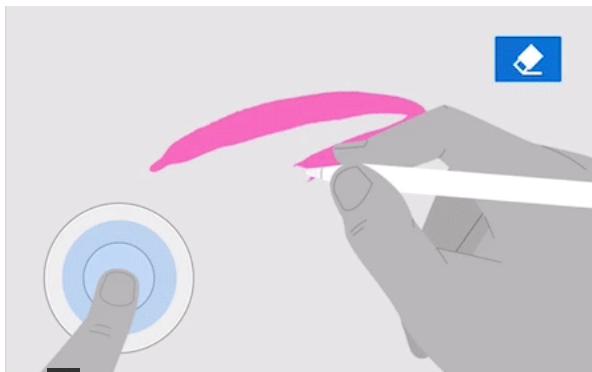
Layers are arranged in a stack and can be viewed by tapping either the compact or detailed layer view from the [taskbar](#) in the workspace.



Layer views

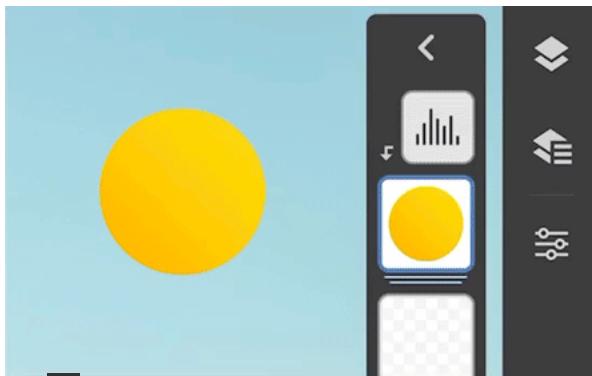
You can choose to view the layers in your document and other layer information from the taskbar. The available layer view options are compact, detailed, or hidden layer view.

Compact layer view



Tap  from the taskbar to view layer thumbnails only. Swipe left on a thumbnail to see applied mask, if one has been applied to the layer.

Detailed layer view



Tap from the taskbar to view layer names, visibility, and thumbnails of the layer and applied mask, if one has been applied to the layer.

Hidden layer view

Deselect the compact layer view and detail layer view to hide both layer views from the canvas.

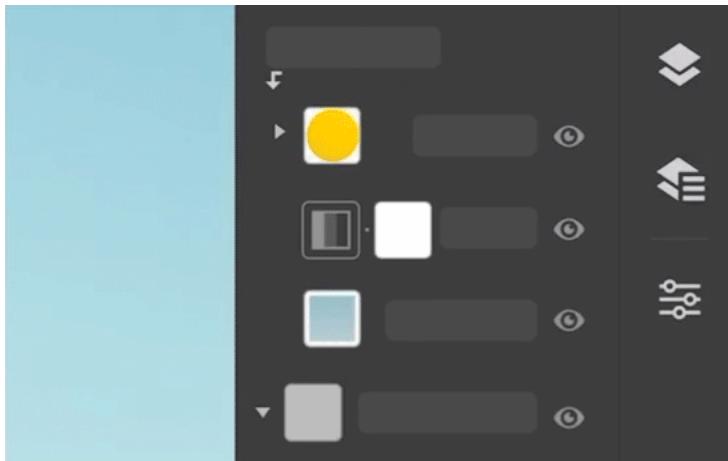
Layer properties

Tap from the taskbar to access layer properties:

Thumbnail: Displays the layer thumbnail and name.

Blending options: You can create various special effects using blending options — Opacity and Blend mode.

- **Opacity:** Use the **Opacity** slider to adjust the overall opacity level of a layer. Opacity determines to what degree the selected layer is obscured or revealed. A layer with 1% opacity appears nearly transparent, whereas one with 100% opacity appears opaque. To learn more about how opacity works in Photoshop, see [Layer opacity and blending](#).
- **Blend mode:** A layer's blending mode determines how its pixels blend with underlying pixels in the image. You can choose from a list of special effects using blending modes available in the drop-down list. To learn more about blending options in Photoshop, see [Blending modes](#).



Add clipped adjustment: Adds a clipped adjustment layer to the current layer — Brightness/Contrast, Black and white, Color balance, Exposure, Hue/Saturation, Levels, and Vibrance.

Effects: This feature is not supported on the iPad yet.

Smart filters: This feature is not supported on the iPad yet.

Dimensions: Displays the dimensions of the current layer bounds.

Add and name a layer

Tap  from the taskbar, to add a new layer. The new layer is inserted above the currently selected layer. To name or rename a layer, open the detailed layer () view. Double tap the layer name to bring up the **Rename layer** dialog. Type a name for the layer and tap **Rename** to confirm the name.

Layer visibility

You can choose to show or hide the contents of a particular layer with the layer visibility () option available in the taskbar. Tap  from the taskbar, or from the detailed layer view to hide the contents of a selected layer. Tap again to view the contents of that layer.

Layer mask

You can add a mask to a layer to show parts of the layer and hide others by tapping on the layer mask () icon. In the areas where the layer is masked (hidden), the layers below are visible. Masking layers is a valuable compositing technique for combining multiple photos into a single image or for removing a person or object from a photo.

You can edit a layer mask to add or subtract from the masked region. Areas you paint in black on the mask, hides those areas of the layer while areas you paint white on the mask are visible. For areas you paint on the mask in shades of gray, the layer appears in various levels of transparency.

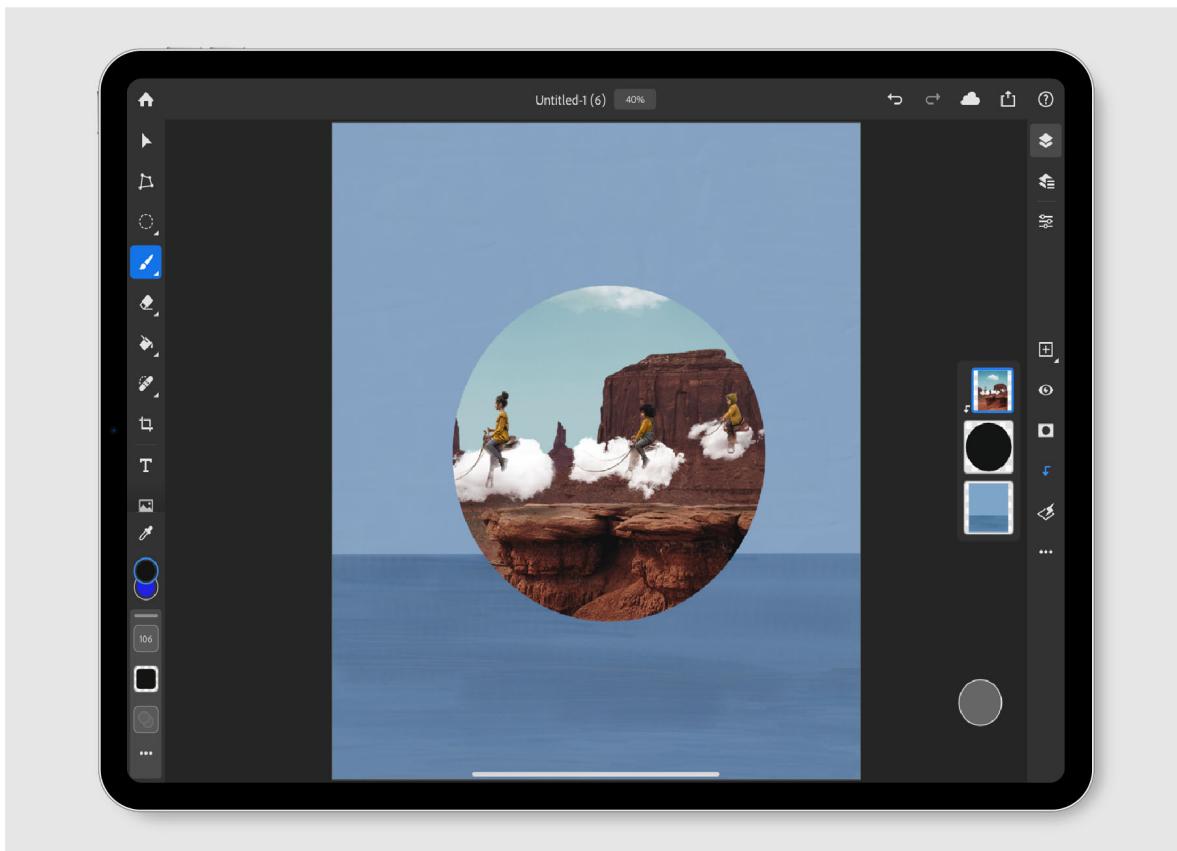
Tap the mask visibility () icon to temporarily make the mask invisible, so that you can see the entire layer without the mask applied.

By default, a layer or group is linked to its layer mask. To break the link between a layer and a mask, tap () This allows you to move the layer image and the mask independent of one another.

Clipping mask

A clipping mask allows you to use the content of one layer to mask the layers above it. The masking is determined by the content of the bottom or base layer. The non-transparent content of the base layer clips (reveals) the content of the layers above it in the clipping mask. All other content in the clipped layer is masked out. When the layer to be clipped is selected, tap the clipping mask () icon and the layer below it is used to clip the layer. More layers can be placed on top and clipped to the same shape.

The top layer is the layer to be clipped. The middle layer determines what is clipped. The bottom layer is the lower layer that shows through when the top layer is clipped.



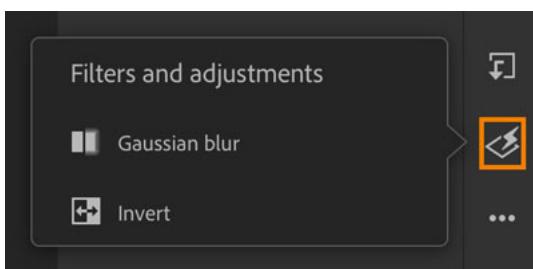
Add a clipping mask in Photoshop on the iPad

Filters and adjustments

Tap from the taskbar to bring up the **Filters and adjustments** panel.

Gaussian blur: Applies the selected amount (from .1 to 1000) of gaussian blur to a layer.

Invert: Inverts the contents of the layer.



Filters and adjustments in Photoshop on the iPad

Layer actions

Tap from the taskbar to bring up the **Layer actions** panel.

Lock layer: Locks the layer so it can't be edited.

Delete layer: Deletes the active layer.

Rename layer: Renames the active layer.

Add clipped adjustment: Adds a clipped adjustment layer to the selected layer.

Begin multi-select mode: Allows you to select multiple layers.

Duplicate layer:Duplicates the active layer.

Copy layer: Allows you to copy a selection or layer to be pasted.

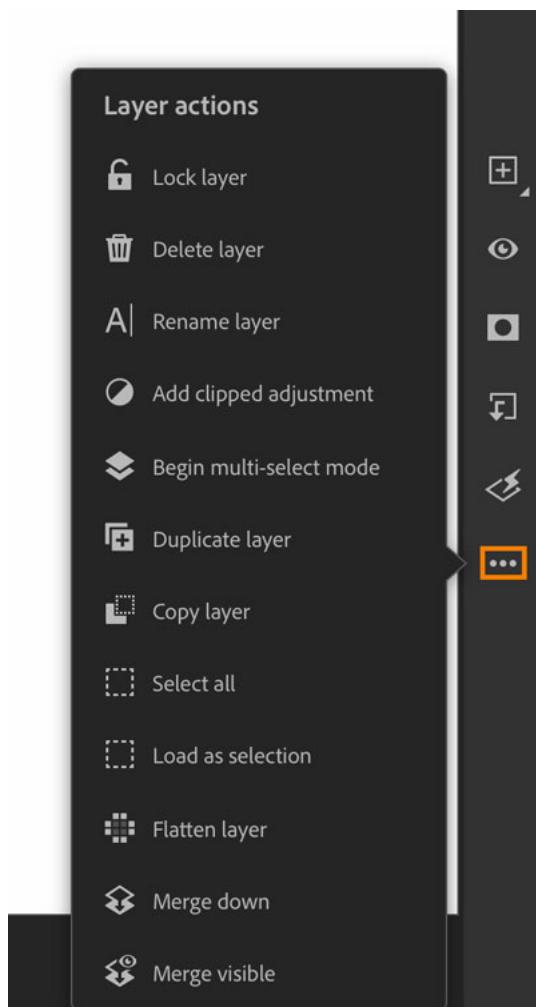
Select all: Selects all contents of the active layer.

Load as selection: Selects all the nontransparent areas on a layer, or if a layer mask exists all the unmasked areas. Selecting these areas is useful when you want to select text or image content that is surrounded by or contains transparent areas or to create a selection that excludes masked areas on a layer.

Flatten layer: Brings all layers of a multi-layered document to one plane.

Merge down: Merges the active layer with the layer below it.

Merge visible: Merges all visible layers into the active layer.



Layer actions panel in Photoshop on the iPad

Manage your layers

Select multiple layers

You can select multiple layers to work with. Select the compact layer view or the detailed layer view, and tap the layer actions (⋮) icon. Select **Begin multi-select mode** from the layer actions panel that opens. In the **Select layer** mode, checkboxes appear next to each layer thumbnail in the layer view. Tap only those checkboxes that are next to layer thumbnails you want to select. Tap **Done** in the **Select layer** mode, or **Cancel** to exit selection.

Group and ungroup layers

You can [Select multiple layers](#) that you want to group as described above. Tap the folder icon (📁) to group the layers together. To ungroup layers, do the following:

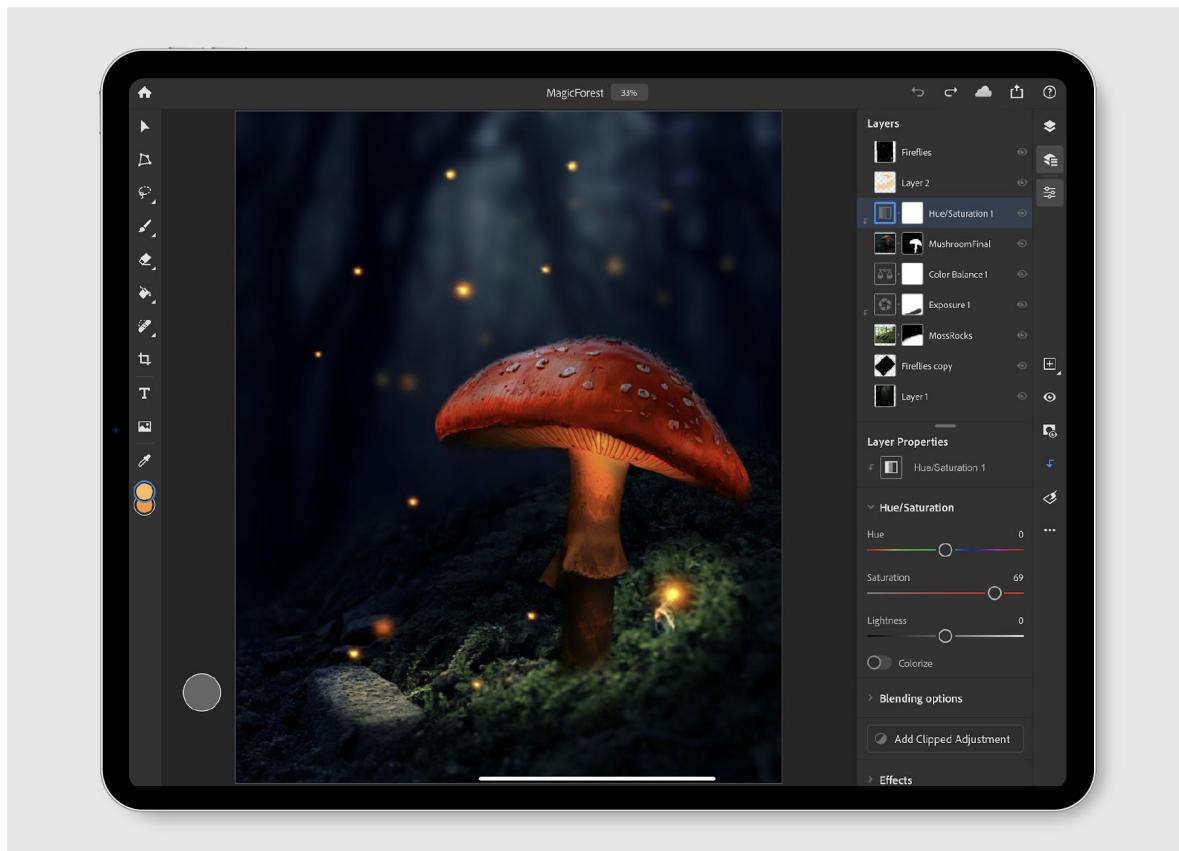
- 1 Select the grouped layer.
- 2 Tap the three dots icon (⋮) on the taskbar .
- 3 Tap the open folder (📁) icon to ungroup layers.

Reorder layers

To reorder a layer, long-press the thumbnail of the layer you want to move and then move it to the desired location in the layer stack.

Make selections and add masks

Making selections and adding masks are two powerful ways to edit selective areas and add effects to your composites.

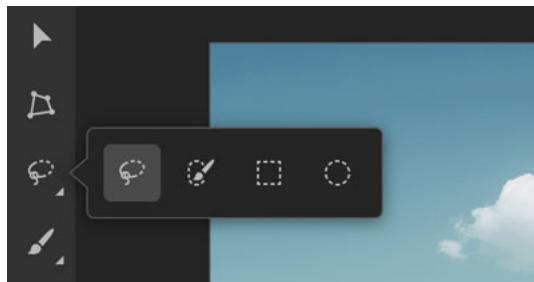


Easily create accurate selections and masks in Photoshop on your iPad.

Make selections

A selection isolates one or more parts of your image. By selecting specific areas, you can edit, and apply effects and filters to portions of your document while leaving the unselected areas untouched.

- Double tap the Lasso tool from the toolbar, to bring up more selection tools. You can select areas of a layer with — **Lasso**, **Quick selection**, **Rectangular marquee**, and **Elliptical marquee**.



- When you tap a selection tool, the associated tool options appear. From the tool options, you can choose whether to add to your selection (), subtract from your selection (), or select the areas that intersect with the current selection ().



- When you make a selection, the **active selection properties** appear at the bottom of the workspace. It gives you the option to **deselect, mask, erase, invert, transform the selection, or select similar**.



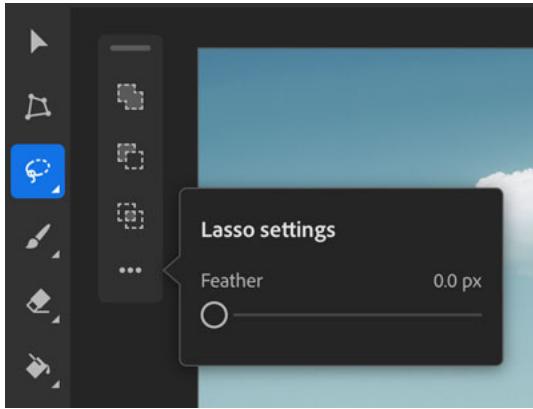
Selection tools

Select with the Lasso tool

The Lasso tool is useful for drawing freeform segments of a selection border. To select using the Lasso tool, tap the () icon.

As you tap Lasso, choose from the tool options that appear. Simply draw a freehand selection to proceed.

- Add to selection** (): Next selections will be added to the current selection.
- Subtract from selection** (): Next selections will be subtracted from the current selection.
- Select the areas that intersect with the current selection** (): Select the intersection of current and next selection.
- Lasso settings** (): **Feather** - Select the number of pixels to feather the edges of a selection.

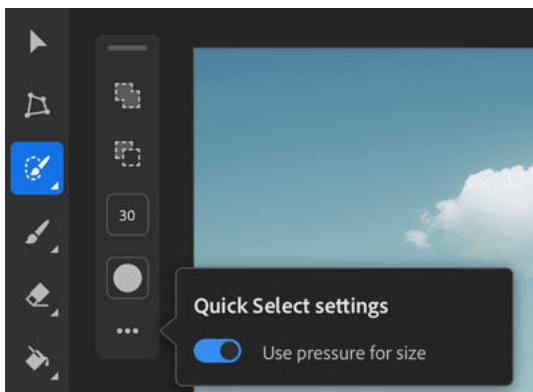


Select with the Quick selection tool

The Quick selection tool allows you to quickly paint a selection using an adjustable round brush. As you drag, the selection expands outward and automatically finds and follows defined edges in your document.

Double tap the Lasso tool from the toolbar to bring up the Quick selection tool (🖌). As you tap the Quick selection tool, choose from the tool options that appear:

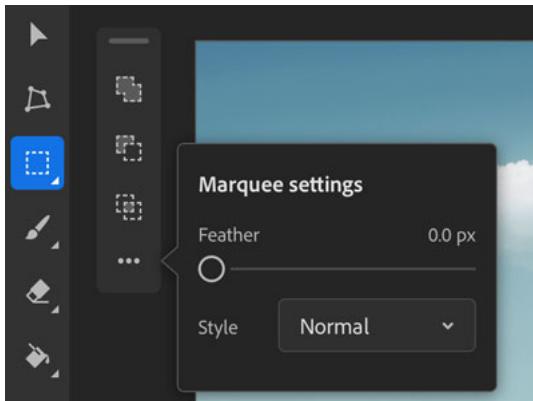
- **Add to selection** (✚): Next selections will be added to the current selection.
- **Subtract from selection** (⊖): Next selections will be subtracted from the current selection.
- **Brush size**: Determines the pixel size of the quick selection tool.
- **Hardness**: The hardness setting controls the size of the brush's hard center.
- **Quick Select settings** (☰): Enable/disable **Use pressure for size**.



Select with the Marquee tools

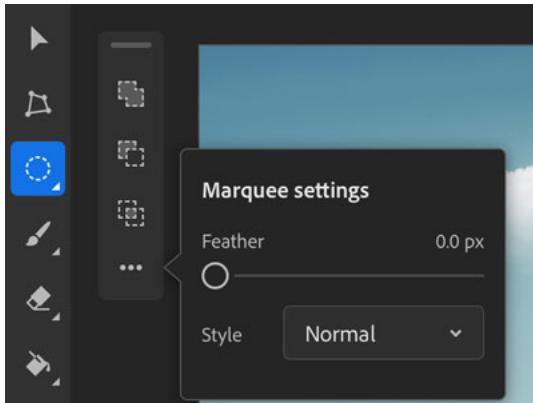
The marquee tools allow you to select rectangles and ellipses. To make a marquee selection, choose one of the marquee tools and simply drag over the area you wish to select. If you have a physical keyboard connected to your iPad, you can also press **M (Shift)** to select the Marquee tools.

The Rectangular marquee tool ((Rectangle)) makes a rectangular selection.



Rectangular marquee tool

The Elliptical marquee tool (🕒) makes an elliptical selection.



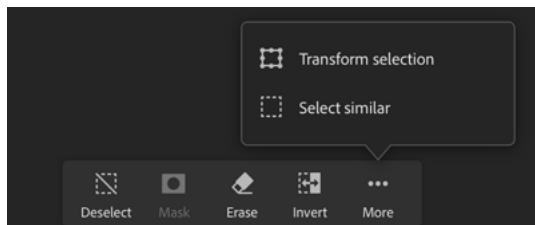
Elliptical marquee tool

- **Add to selection** (✚): Next selections will be added to the current selection.
- **Subtract from selection** (⊖): Next selections will be subtracted from the current selection.
- **Select the areas that intersect with the current selection** (✖): Select the intersection of current and next selection.
- **Lasso settings** (ℓ): **Feather** - Select the number of pixels to feather the edges of a selection. **Style** - Select a style from the drop-down list.

Active selection properties

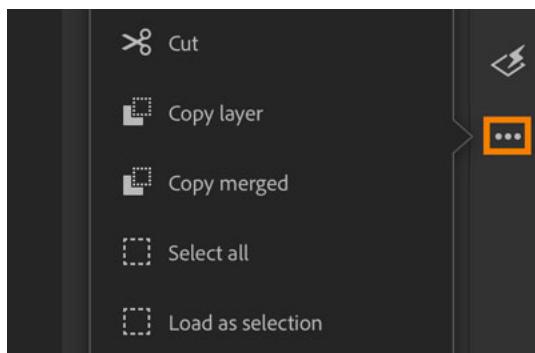
Once you make a selection, you can see **active selection properties** at the bottom of the workspace:

- **Deselect**: Deselects the current selection
- **Mask**: Turns the current selection into a mask for the layer
- **Erase**: Allows you to erase the selected area
- **Invert**: Inverts the selection so that the deselected area becomes the selection
- **Transform**: Allows you to transform the selection
- **Select similar**: Adds pixels to the selection that are similar to the ones already selected



More options on toolbar

- **Cut:** Allows you to cut a selection or layer
- **Copy merged:** Allows you to copy a merged selection or layer to be pasted over another layer.



Apply masks

You can use masks to hide portions of a layer and reveal portions of the layers below. Masks are nondestructive, which means you can go back and edit the masks again without losing the pixels they hide.

- A layer mask hides part of a layer from view.
- A clipping mask uses the contents of one layer to clip or hide the contents of one or more other layers from view.

Layer mask

You can create a layer mask to show parts of a layer and hide others by turning a selection into a layer mask, or by painting on the layer mask after creating it. In areas where the layer is masked or hidden, the layers below are visible. Masking layers is a valuable compositing technique for combining multiple documents into a single document or for removing unwanted objects from a composite.

Create a layer mask from a selection

- 1 Make sure the layer you wish to mask is selected. Simply tap a layer thumbnail from the toolbar to select a layer.
- 2 Create a selection using one of the selection tools.
- 3 Tap the layer mask icon on the toolbar (☒).

You can view the selected area while the rest of the layer gets masked.

From the compact layer view, you can swipe left and right on the layer thumbnail to switch the view from layer view to layer mask view. Both thumbnails are visible on the detailed layer view. To learn more about layer views, see [Work with layers](#).

Create a layer mask and edit the mask with a brush

- 1 Make sure the layer you wish to mask is selected. Simply tap a layer thumbnail from the taskbar to select a layer.
- 2 Tap the layer mask ( icon) on the taskbar to create a mask.
- 3 Tap the brush ( icon).
- 4 Set up brush properties as desired. Choose black to fully mask where you paint. To learn more about brush properties, see [Draw and paint with brushes](#).
- 5 Paint over the mask layer.

To learn more about layer masks, see [Work with layers](#).

Clipping mask

A clipping mask allows you to use the content of one layer to mask the layers above it. To learn more about clipping masks, see [Work with layers](#).

Retouch your composites

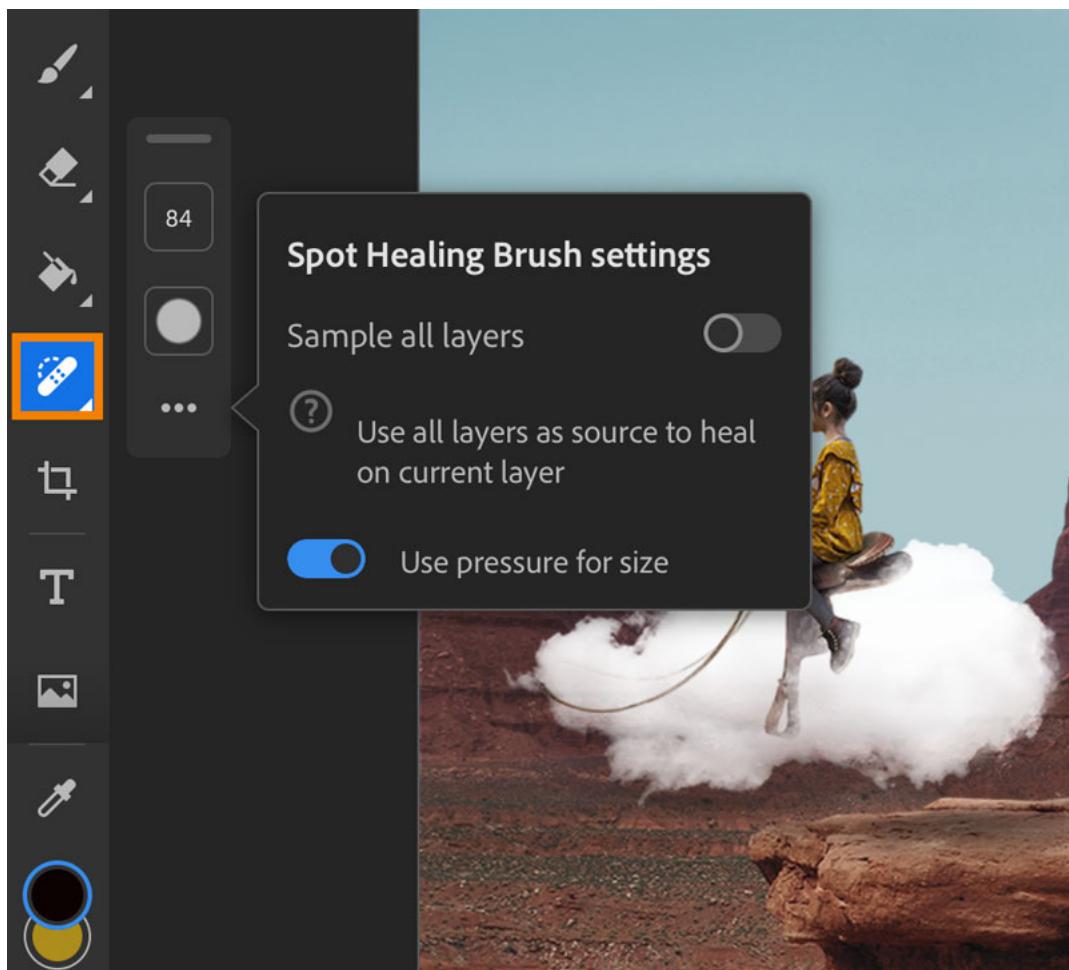
With Photoshop now available on your iPad, you can select powerful tools such as **Spot Healing Brush** and **Clone Stamp** to retouch and remove unwanted parts from your composites.

Retouch with Spot Healing Brush

The Spot Healing tool paints with a sampled part from your document and matches the texture, lighting, transparency, and shading of the sampled part to the part of the document being healed. The Spot Healing Brush does not require you to specify a sample spot and automatically picks samples from around the part of the document to be retouched.

To work with the Spot Healing Brush, do the following:

- 1 Tap the **Spot Healing Brush** () icon from the toolbar.
- 2 From the tool options that open, you can set the brush size, and hardness.
- 3 Tap () to access more settings.
- 4 In the **Spot Healing Brush** settings panel that opens, enable **Sample all layers** to use all visible layers in your document as a source to apply healing on the selected layer. Deselect **Sample All Layers**, to sample only from the active layer. Also, you can enable/disable **Use pressure for size** as required.
- 5 Tap the area in your document you want to retouch, or tap and drag to smooth over imperfections in a larger area.

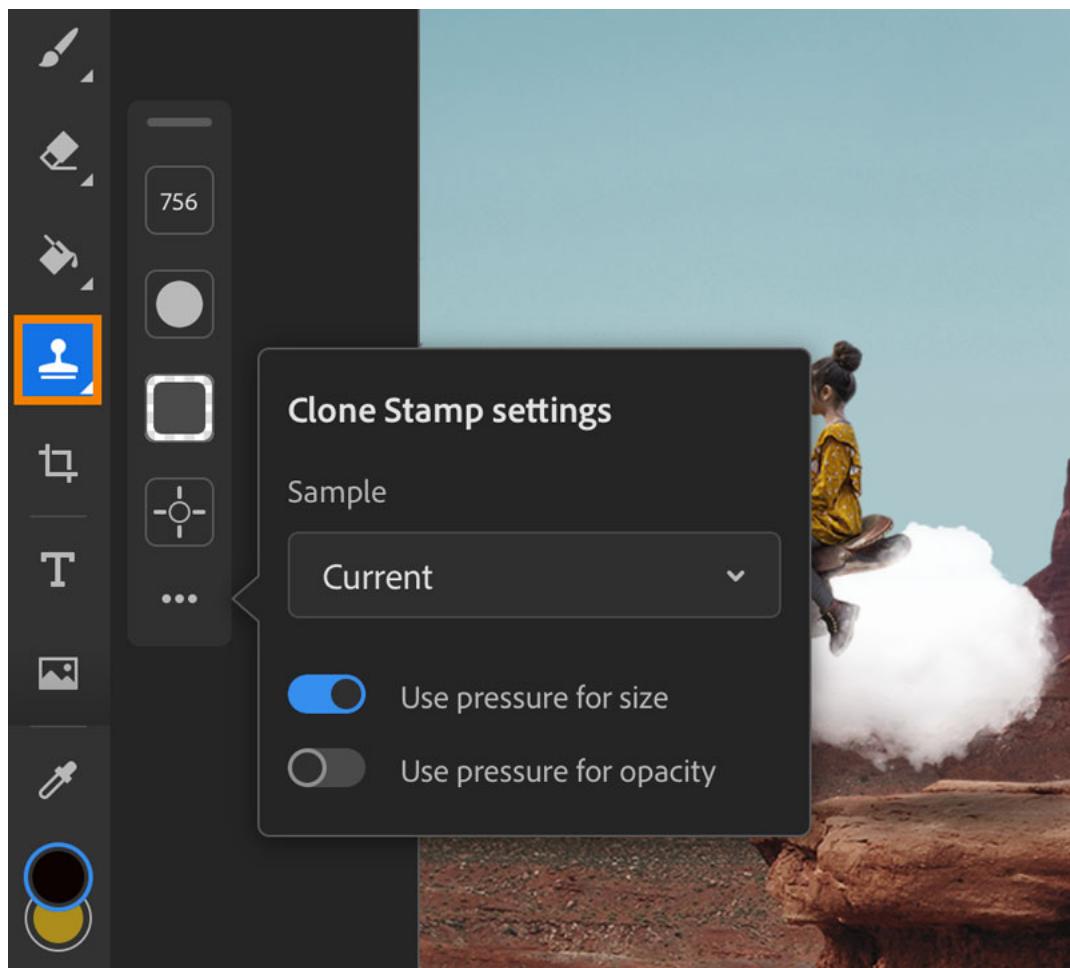


Retouch using Clone Stamp

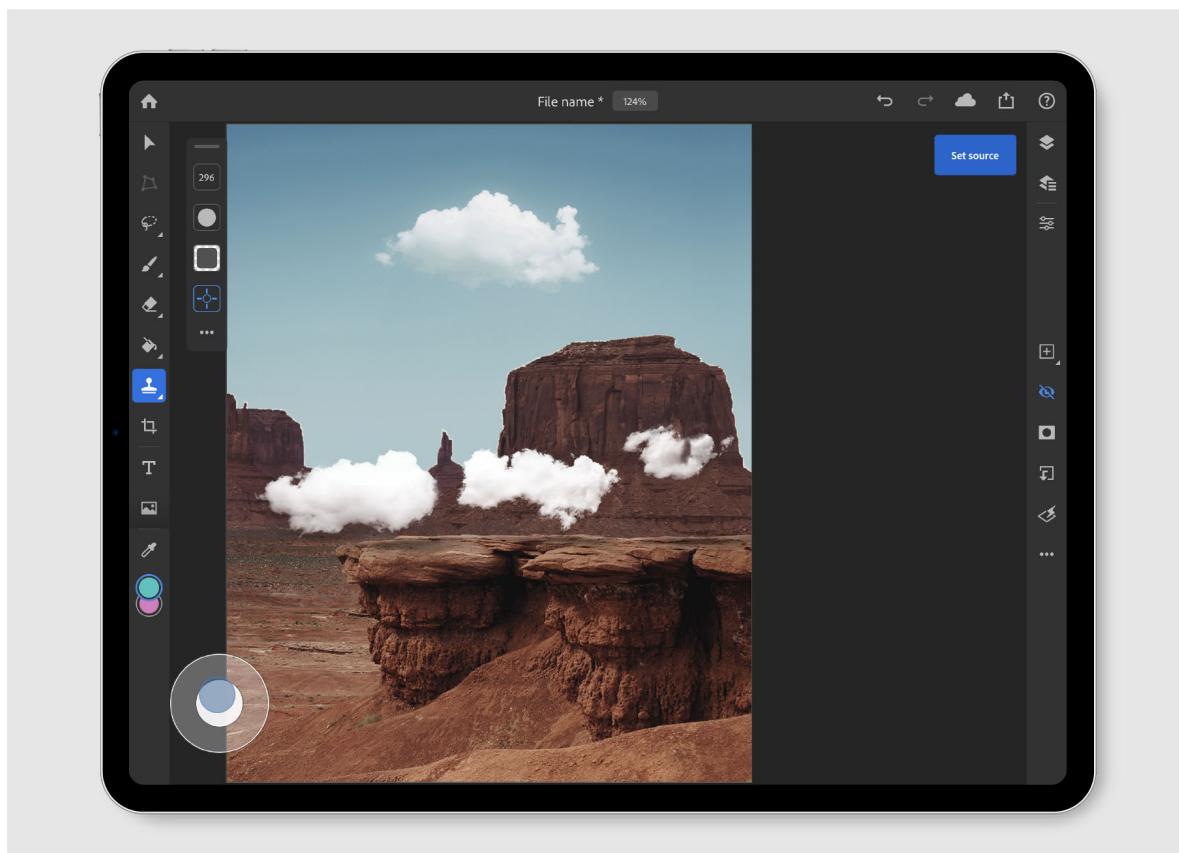
The Clone Stamp (深厚的) tool paints one part of your document over another part of the same document. You can also paint one part of a layer over another layer. The Clone Stamp tool is useful for duplicating objects or removing a defect in your composite. To use the Clone Stamp tool, you set a sampling source on the area you want to clone from and paint over another area. By default, your last sampling area is selected when you access the Clone Stamp.

To work with the Clone Stamp tool, do the following:

- 1 Double tap the **Spot Healing Brush** (深厚的) icon from the toolbar to reveal the hidden **Clone Stamp** tool.
- 2 Tap (深厚的) to select the **Clone Stamp** tool.
- 3 From the tool options that open, you can change the **brush radius**, **hardness**, **opacity**, and **set source**.
- 4 Tap (更多) to access more settings.
- 5 In the **Clone Stamp settings** panel that opens, you can select your **Sample**—Current, Current and below, and All layers. You can also enable/disable the **Use pressure for size** and **Use pressure for opacity** options.

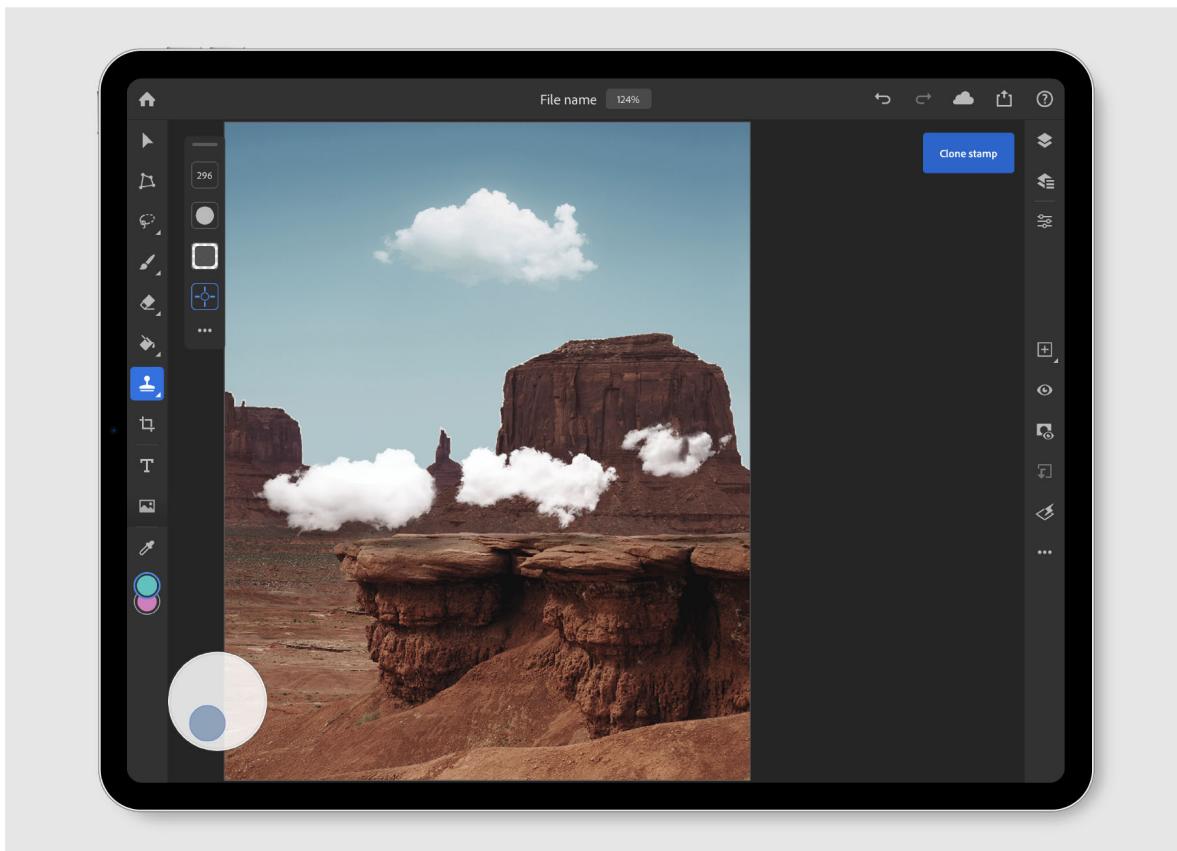


6. Work with touch shortcuts to Set source and tap over an area you want to select as the cloning source.



Use the primary touch shortcut to set the source from where you wish to clone.

7. Release the touch shortcut after setting the source and tap over an area on which you want to apply **Clone stamp**. This action paints the source area over your selected area.



Use the secondary touch shortcut to apply Clone stamp to the destination area in your document.

Draw and paint with brushes

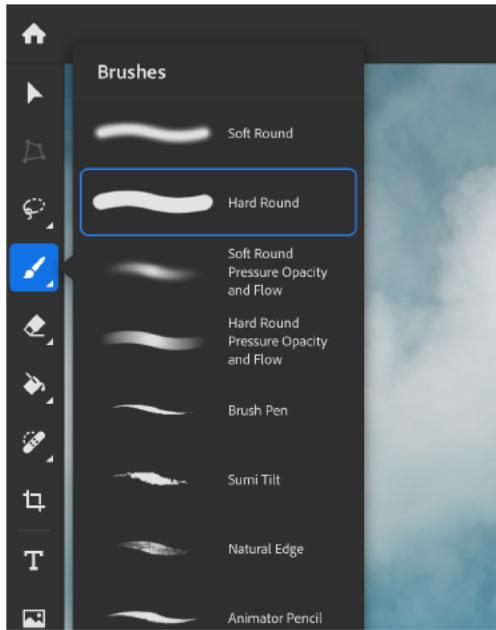
With Photoshop on the iPad, you can draw and paint with brushes—whenever, wherever inspiration strikes.

Not sure where to begin? Start with selecting a brush type to create your composite.

How to choose a brush type

1. Tap  from the toolbar to select the brush tool.
2. A small triangle in the lower right corner of the brush icon represents hidden tool options. Long press the brush icon to reveal the **Brushes** panel.
3. In the **Brushes** panel that opens, you can scroll through a list of default brush types. Tap to select the desired brush type and apply to the canvas.

Note: The brush type used in your previous session remains selected when you use the brush tool again. You can always come back to the **Brushes** panel and change your brush.



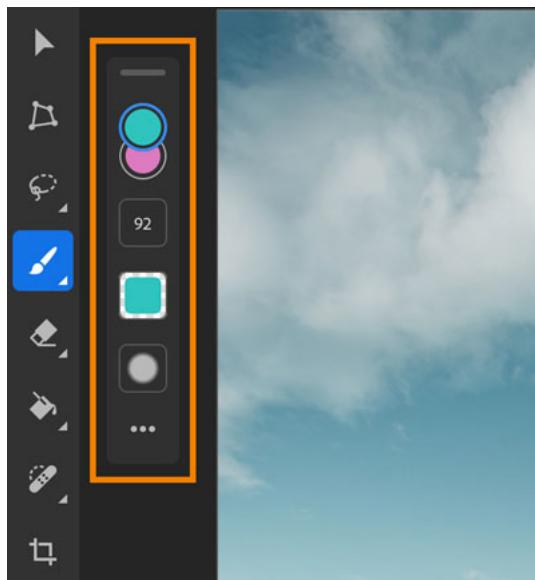
Quickly adjust brush properties

You can adjust brush properties from the floating options panel to suit your creative work.

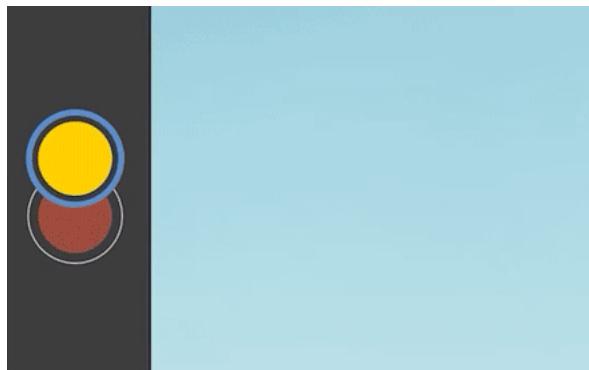
To bring up the [tool options](#), simply tap the brush icon from the toolbar.

From the tool options, tap an icon to select the attribute and modify:

- **Color chip:** The color chip allows you to choose a color from the color picker, enter a hex color code, or enter numbers for HSB, RGB, Lab, or CMYK colors. You can swipe the color chip vertically to easily switch between the foreground and background colors.
- **Brush size:** The brush size option allows you to choose the diameter of your brush, which can vary in size from 1 to 1000 pixels.
- **Opacity:** The opacity option sets the maximum transparency of the color you apply per brush stroke. 100% opacity represents opaqueness. As you paint over an area, the opacity doesn't exceed the set level until you complete the stroke (even when you paint over an area several times).
- **Hardness:** The hardness setting controls the size of the brush's hard center. Select a value that is a percentage of the brush diameter.
- **More brush settings:** Tap the three dots icon to bring up the settings panel. To learn more about brush settings, see [Apply more brush settings](#).



Tool options corresponding to the Brush tool in Photoshop on the iPad



Swipe the color chip vertically to switch between the two colors in the tool options.

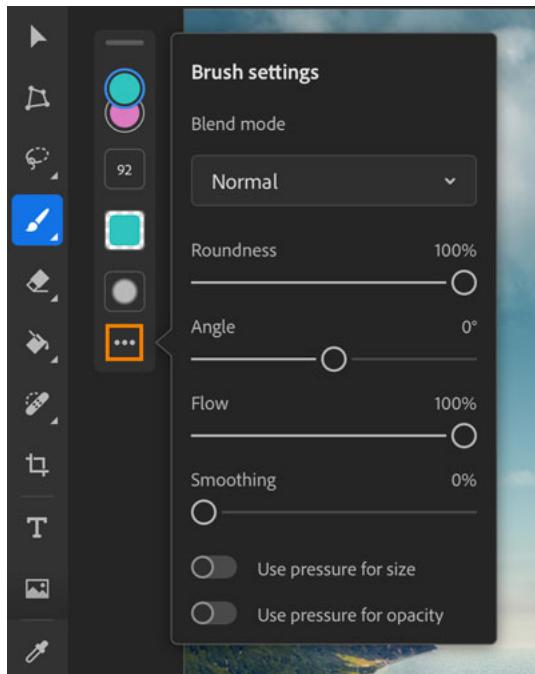
Apply more brush settings



To access more **Brush settings**, tap the three dots (icon) at the bottom of the tool options bar. You can modify more brush settings as desired:

- **Blend mode:** The blend mode determines how the active layer blends with the layers below it. Tap the blend mode icon to see a list of available modes. For more information, see [Blending modes](#).
- **Roundness:** The roundness setting specifies the ratio between the brush's short and long axes. Select a percentage value. A value of 100% indicates a circular brush, a value of 0% indicates a linear brush, and intermediate values indicate elliptical brushes.
- **Angle:** The angle setting specifies the angle by which an elliptical or sampled brush's long axis is rotated from horizontal. Select a value in degrees.
- **Flow:** Flow sets the rate at which color is applied on your canvas as you move your finger or stylus over an area in your document.

- **Smoothing:** Smoothing produces smoother curves in brush strokes. Higher values apply increasing amounts of intelligent smoothing to your strokes. This option is most effective when you are painting quickly with a stylus; however, it may produce a slight lag time in stroke rendering.
- **Use pressure for size:** Selecting **Use pressure for size** varies the diameter of the brush based on the brush pressure applied while painting.
- **Use pressure for opacity:** Selecting **Use pressure for opacity** varies the opacity of the brush based on the brush pressure applied while painting.

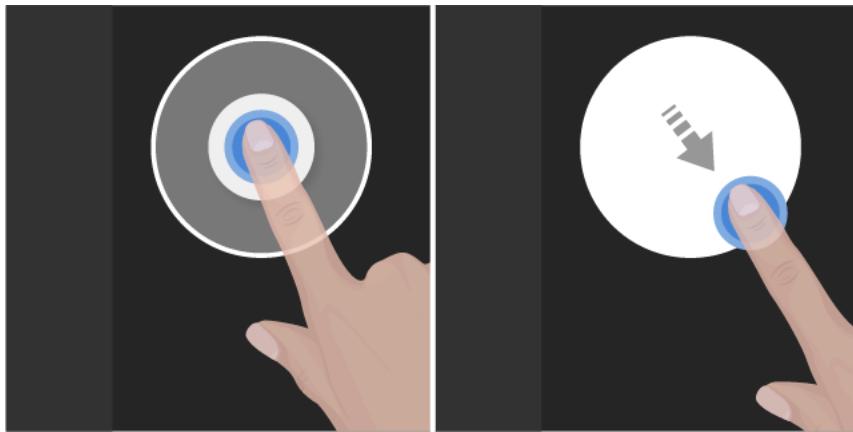


Modify brush settings.

Use touch shortcuts

While using the Brush tool you can activate the primary touch shortcut to access the Eraser version of your Brush, and activate the secondary touch shortcut to switch to the Eyedropper tool.

To know more about how to use the touch shortcut, see [Touch shortcuts and gestures](#).



Left: Primary touch shortcut. Right: Secondary touch shortcut.

Apply transform operations

Transform is one of the basic tools in Photoshop and lets you easily modify your document by performing scale, skew, perspective, distort, rotate, and horizontal/vertical flip transformation operations.

Read on to learn how to transform your document just the way you want!



Apply transformations to your document in Photoshop on mobile

How to select an object to transform

- To transform a layer, tap a layer from the **Layer** panel in the taskbar to make the layer active.
- To transform a selection, select the Lasso tool from the toolbar and make a selection on the layer you desire.

You can now simply apply your transformations to the selected object.

Apply basic transform operations

You can apply transform operations to an active layer, or a selection.

1. Tap the transform () icon from the toolbar to select the Transform tool.
2. In the **Transform** mode, do any of the following:
 - To select a transformation, tap an icon from the transform options panel to select—**scale**, **skew**, **perspective**, and **distort**.
 - To select rotate transformation, tap the three dots () icon to access **Transform settings** and set a rotation angle. You can also drag the handle hanging off the bottom of the bounding box to rotate your selection.
 - To flip your selection, tap the **horizontal flip** () or **vertical flip** () icons at the top of the transform mode.
3. Simply drag any of the handles of the bounding box that appears to apply your selected transformation. You can also drag the center of the transform bounding box to move your selection on the canvas.
- Note:** Drag the corner handles to transform proportionally, and non-corner handles to transform non-proportionally. You can use the pinch gesture within the transform bounding box to scale the selection, or to rotate the selection. Use the pinch gesture outside the layer bounding box to pan or zoom the canvas.
4. Tap the undo () icon to revert to the last transformation action performed. Tap redo () to restore the undone transformation action.
5. Tap **Done** at the top of the transform mode to save your applied transformations. Tap **Cancel** to exit the transform mode without saving any of the applied transformations.

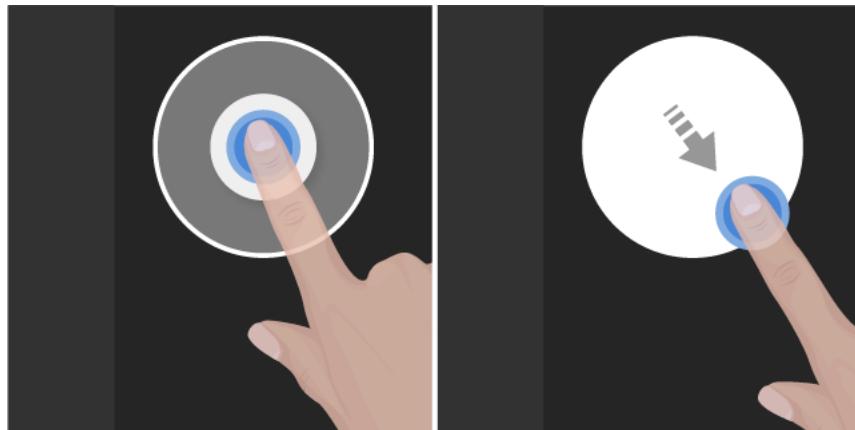
Use touch shortcuts

Scale:

- If you are using corner handles while scaling, activate the primary touch shortcut to scale non-proportionally, and activate the secondary touch shortcut to scale from the center.
- If you are using non-corner handles while scaling, activate the primary touch shortcut to scale non-proportionally from the center and secondary touch shortcut to scale proportionally from the center.
- By default, the scale tool lets you transform proportionally about the reference point.

Rotate: While rotating, you can activate the primary touch shortcut to snap rotation in every 15°.

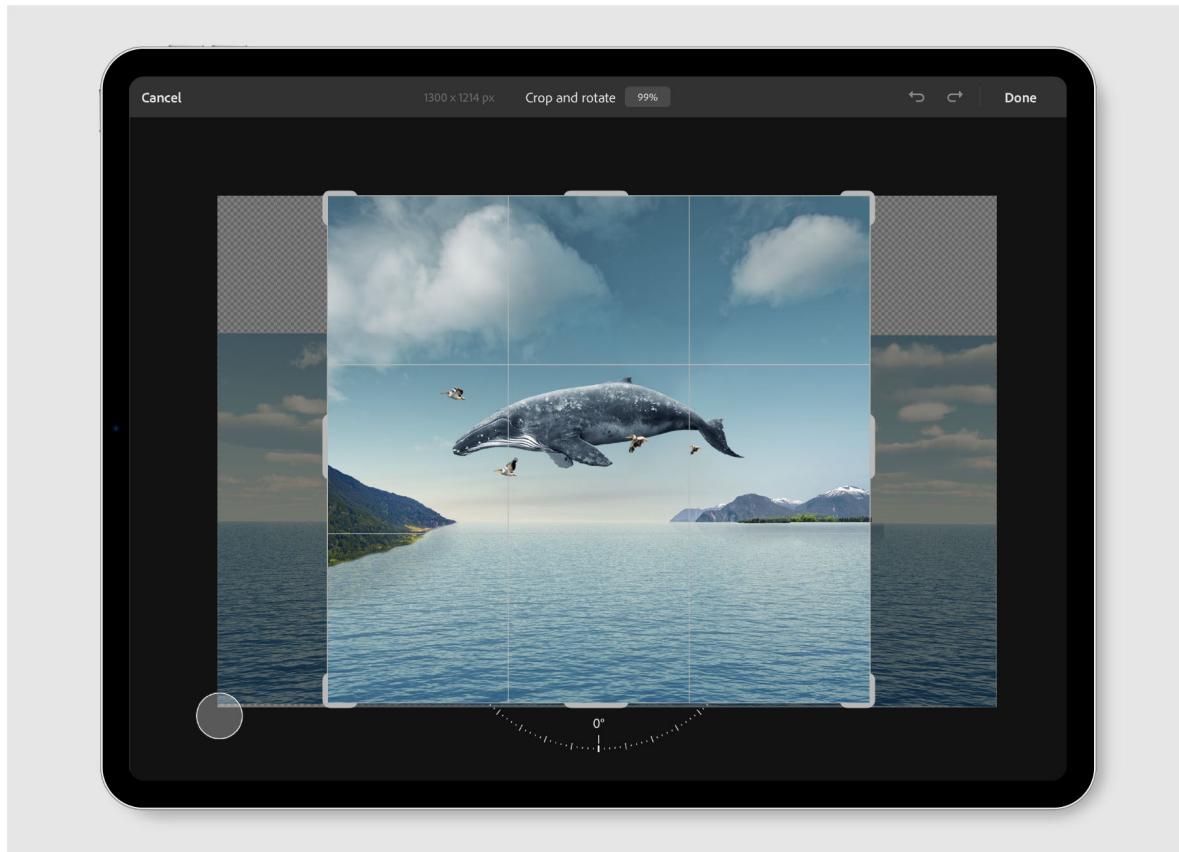
To learn more about touch shortcuts, see [Touch shortcuts and gestures](#).



Left: Primary touch shortcut. Right: Secondary touch shortcut.

Crop and rotate your composites

Cropping is easy with Photoshop on the iPad. The crop tool lets you eliminate unwanted edges of a photo and helps you improve the overall composition. You can crop constrained or free-form, and also rotate your selection while you crop.



Set your crop size and rotation angle in the Crop and rotate mode.

How to quickly crop and rotate your selection

You can crop and rotate an active layer, or the contents of a selection. To make a layer active, tap the layer thumbnail from the taskbar. To proceed with crop and rotate, do the following:

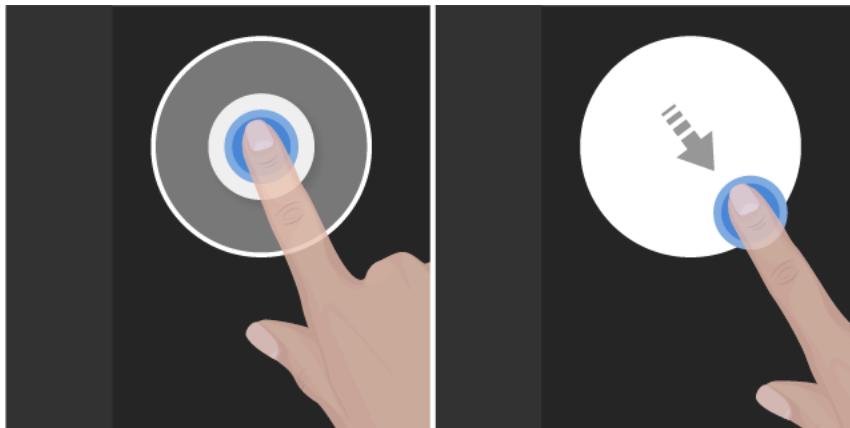
- 1 Tap  from the toolbar to select the crop tool.
- 2 In the **Crop and rotate** mode, a bounding box appears around your active layer or selection.
- 3 Drag any of the handles of the bounding box and release to set the crop size. You can view the crop size at the top of the **Crop and rotate** mode. By default, the crop tool lets you perform free-form crop around the reference handle. For alternate crop actions, see [Use touch shortcuts](#).
- 4 Move the rotation dial that appears below the bounding box to freely rotate your layer or selection. While rotating, the crop size remains unchanged. For alternate rotation actions, see [Use touch shortcuts](#).
- 5 Apply touch gestures to [pan, zoom, and reset](#) your layer or selection in the **Crop and rotate** mode.
- 6 Tap the undo () icon to revert the last action performed. Tap redo () to restore the undone action.
- 7 Tap **Done** to apply your crop and rotate actions. Your active layer or selection scales to fit the crop size and rotation angle. Tap **Cancel** to exit the **Crop and rotate** mode.

Use touch shortcuts

While using the crop tool, you can activate the primary touch shortcut to apply constrained crop around the reference handle, and activate the secondary touch shortcut to apply constrained crop scale from center.

While using the rotation action, you can activate the primary or secondary touch shortcut to snap rotation in every 15°.

To learn more about how to use the touch shortcuts, see [Touch shortcuts and gestures](#).



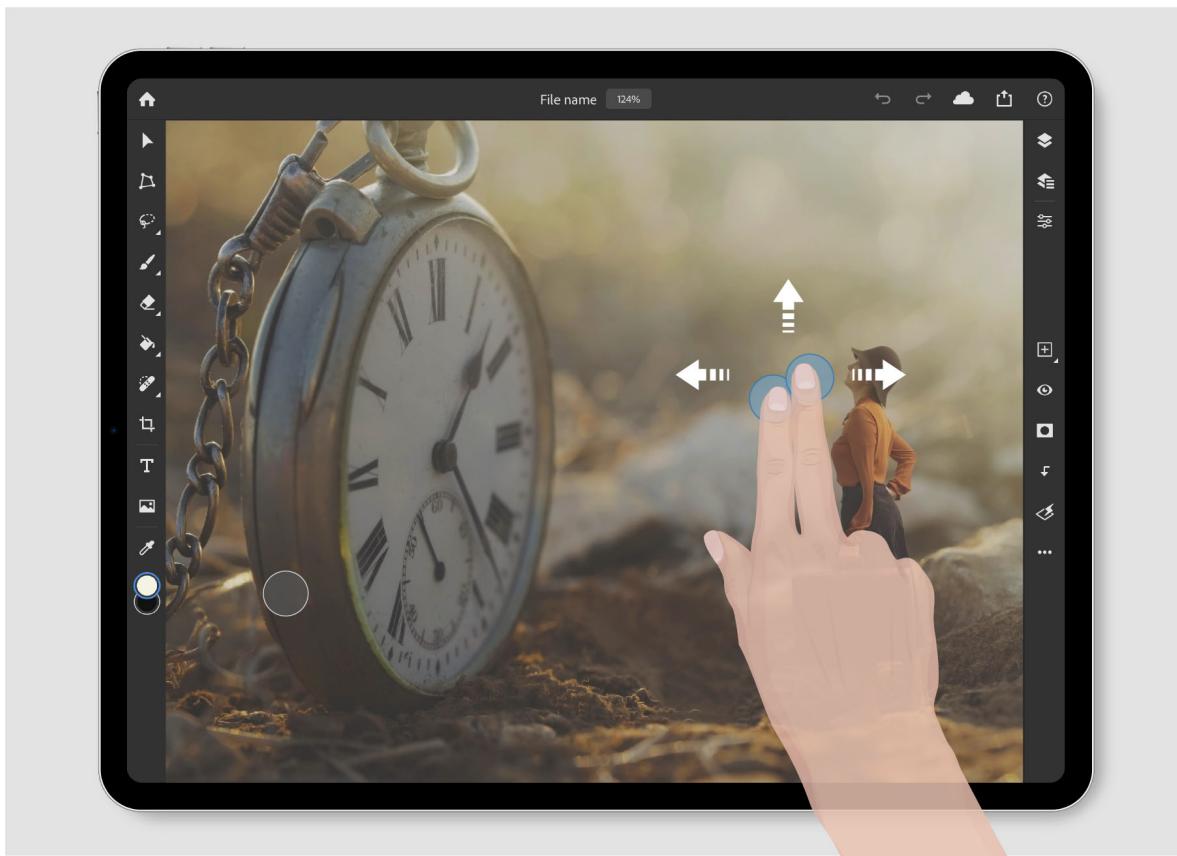
Left: Primary touch shortcut. Right: Secondary touch shortcut.

Pan, zoom, and reset canvas

While working with Photoshop on the iPad, you can bring to focus and take a closer look at a part of your document by zooming in and reduce magnification as you zoom out. You can also pan around to view other portions of your document.

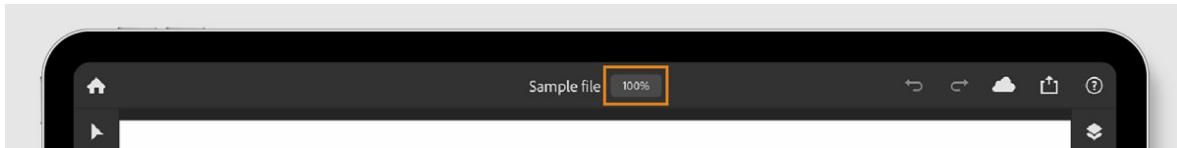
How to pan through your canvas

Tap the canvas with any two fingers. While pressing the two fingers to the canvas, simultaneously slide in any direction to move around the canvas.



Use two-finger pan gesture to move around the canvas.

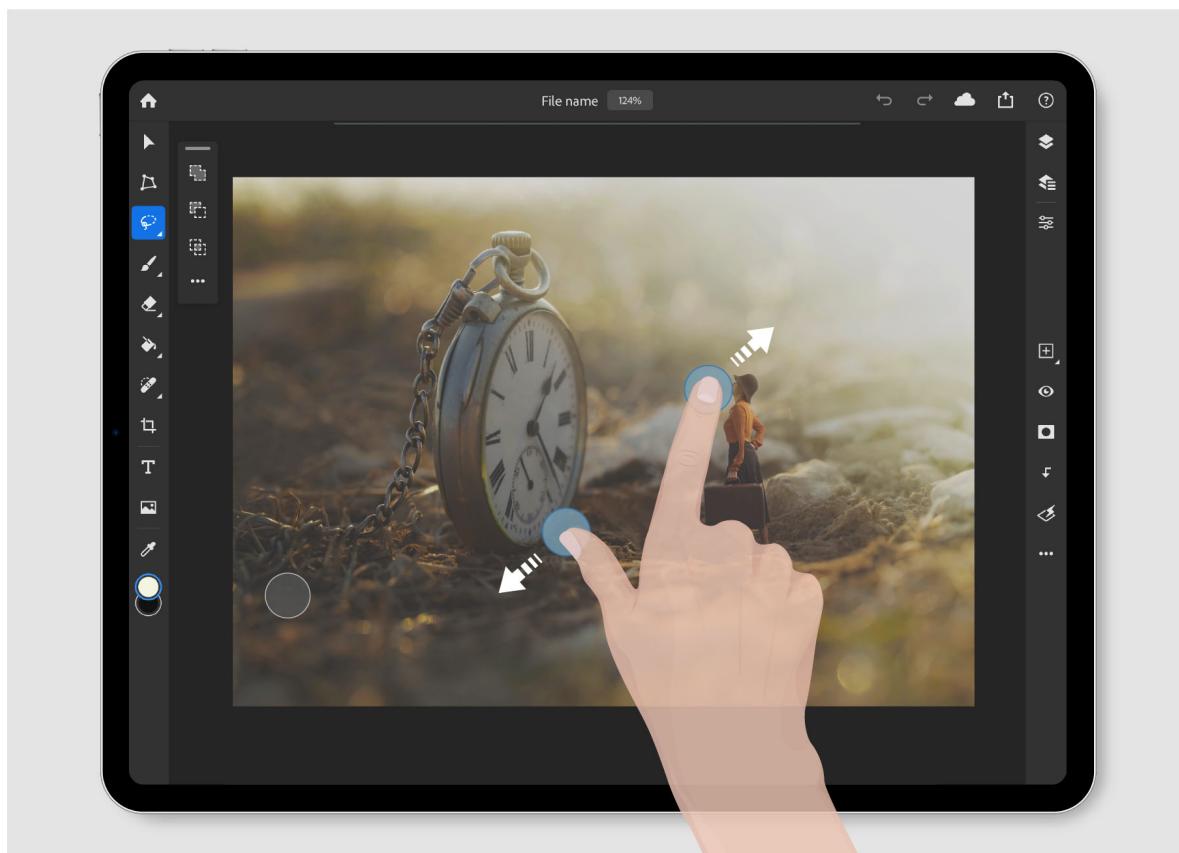
How to zoom your canvas



To zoom your selection, do any of the following:

- The current zoom level of your canvas is displayed at the center of the Top bar. Tap and roll the current zoom level indicator side to side to zoom in and out.
- You can also use pinch gestures to quickly:**Zoom in** - Tap anywhere in the canvas with two fingers and move them closer toward each other while keeping the fingers pressed to your iPad screen.**Zoom out** - Tap anywhere in the canvas with two fingers and move them away from each other while keeping the fingers pressed to your iPad screen.

Note: The maximum sustained zoom level in Photoshop on mobile is 25,600%.



Use pinch finger gestures to zoom in and out of your canvas.

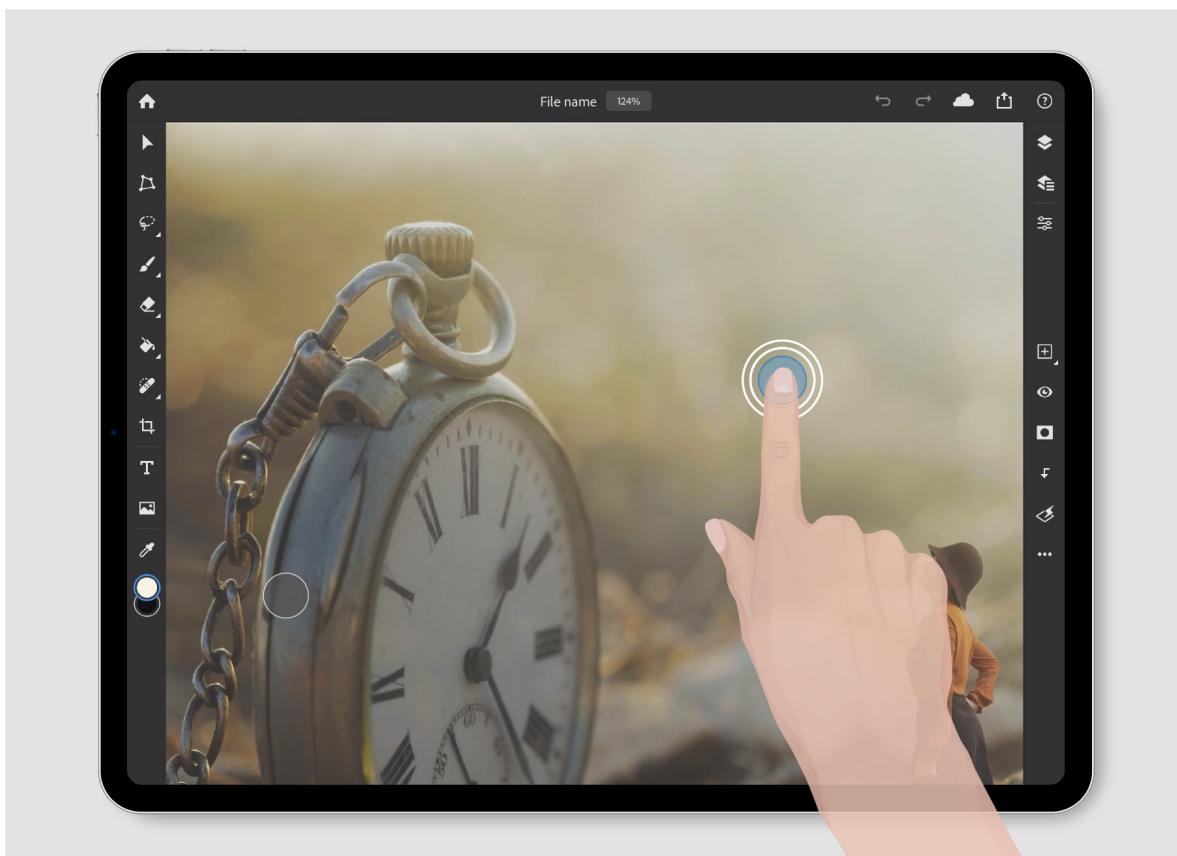
Note:

Usually, the pan and zoom actions are best achieved with your thumb and index fingers.

How to reset your canvas

Double tap anywhere in the canvas to fit canvas to the screen and recenter.

Note: The reset canvas gesture works only when you are working with the Move, Transform, and Place Photo tools.



Double tap to reset your canvas.

Work with Type layers

Adding and editing text is another important way to enhance your composites in Photoshop on your iPad. You can create a type layer, edit the text and attributes, and apply layer commands.

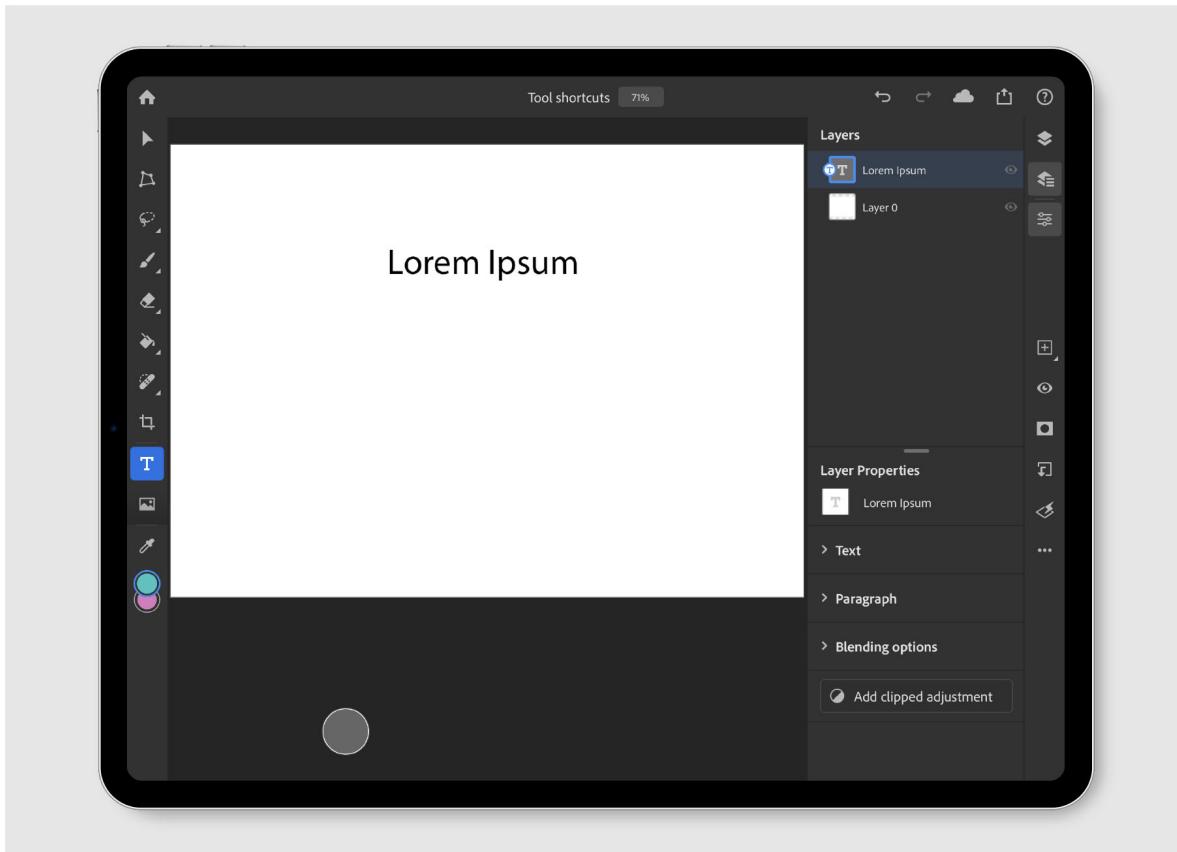
Access the Type tool

To access the Type tool, do any of the following:

- From the [toolbar](#), tap the Type tool (icon) to select it.
- Simply press 'T' if you have a physical keyboard connected to your iPad to select the Type tool.

Note:

Setting vertical text in Photoshop on the iPad is not available. However, vertical text frames are visible and supported if the document was first created in Photoshop on the desktop.



Work with Type layers in Photoshop on the iPad

Create a Type layer

A type layer is automatically created when you create **point** or **paragraph** text. A  badge visible over the type layer thumbnail helps you distinguish the type layer from other layers in the [Compact layer viewer](#) [Detailed layer viewer](#) layer views.

Point text

Use point text to add a few words like a heading or title to your document in Photoshop on the iPad.

To add point text, do the following:

- 1 Simply select Type () from the toolbar and tap anywhere in your canvas to enter the **Type** mode.
- 2 Some sample text appears surrounded by a bounding box by default, as the type layer gets created. Tap anywhere inside the bounding box and start typing your desired text.
- 3 Use () icon visible over the text bounding box to move your type layer around your canvas.
- 4 In the Layer Properties panel that opens by default in the Type mode, you can [modify — Text, Paragraph, Blending options, and Add clipped adjustment](#).
- 5 Use the cut (, copy (, and paste () icons visible on the virtual keyboard that appears by default in the Type mode, and apply corresponding actions.
- 6 Tap **Done** from the top of the Type mode to save your edits to the type layer. Tap **Cancel** to exit the Type mode.



Create point text layer in Photoshop on the iPad

Paragraph text

Use paragraph text to add a paragraph of text to your document. Click and drag the cursor on the canvas to create a bounding box in which you can type your paragraph. This helps you efficiently edit and align the paragraph later.

To add paragraph text, do the following:

- 1 Simply select Type (**T**) from the toolbar
- 2 Tap and drag the pointer on the canvas to create a bounding box in which you can type your text paragraph. As you create a paragraph you enter the **Type** mode automatically.
- 3 You can see sample text inside the bounding box. Tap anywhere inside the bounding box and start typing your desired text.
- 4 Use (+) icon visible over the text bounding box to move your type layer around your canvas.
- 5 In the **Layer Properties** panel that opens by default in the **Type** mode, you can [modify — Text, Paragraph, Blending options, and Add clipped adjustment](#).
- 6 Use the cut (**⌫**), copy (**✉**), and paste (**✉**) icons visible on the virtual keyboard that appears by default in the **Type** mode, and apply corresponding actions.
- 7 Tap **Done** from the top of the **Type** mode to save your edits to the type layer. Tap **Cancel** to exit the **Type** mode.



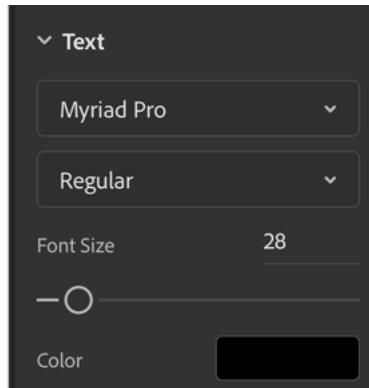
Create paragraph text layer in Photoshop on the iPad

Edit text using the Type tool

In the **Layer Properties** panel, you can edit and modify text attributes:

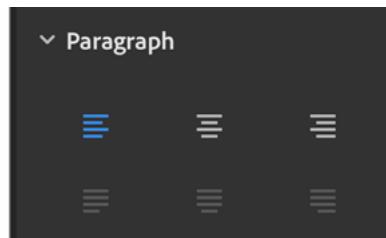
Text

Under **Text**, choose your desired font type and font style from the drop-down list. You can either manually type in a font size or use the slider to set a desired text size. Set a color for your text from the **Color** box.



Paragraph

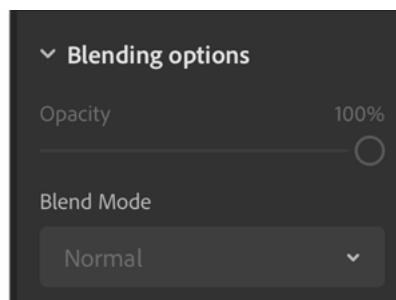
Under **Paragraph**, you can view various justify options. Select an option to view changes to alignment in your text.



Blending options

Under **Blending options**, you can use the **Opacity** slider to change the opacity of your text. Also, you can select a **Blend Mode** for your text.

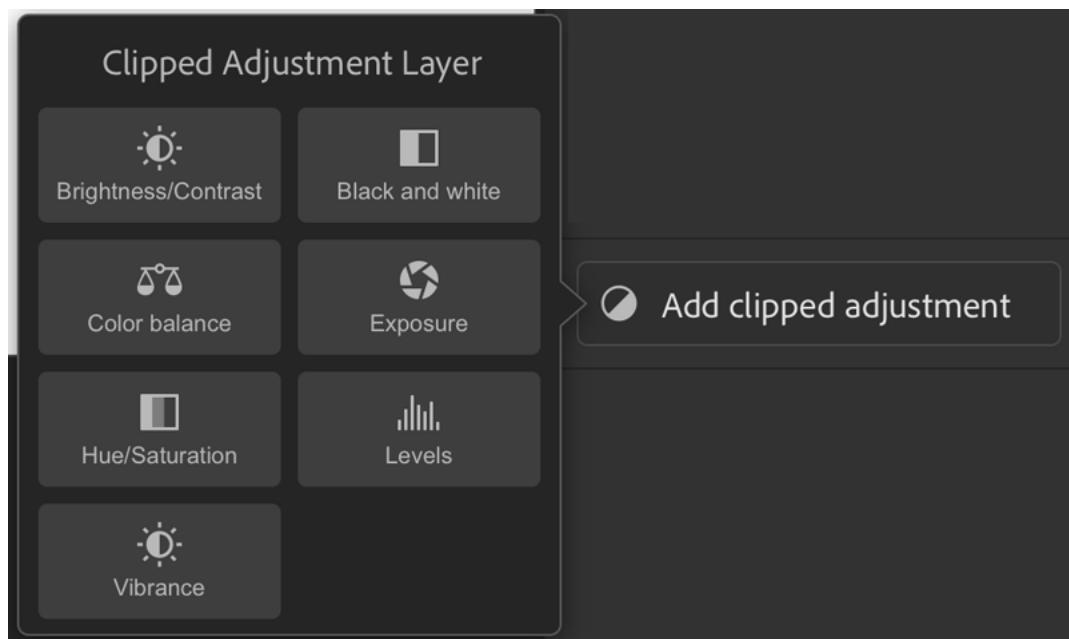
To learn more about blending options, see [Work with layers](#).



Add clipped adjustment

Adds a clipped adjustment layer to your type layer.

To learn more about clipped adjustments, see [Work with layers](#).



Font substitutions

In Photoshop on the iPad, not all fonts are available by default when you work with the Type tool. If there is a font in the document that is not available on your iPad and you attempt to edit text, the font will be substituted with an available font. If you attempt to transform the text, the layer will be flattened to pixels but you won't lose your font.

To learn more about missing fonts and accent characters, see:

- [Get missing fonts in Photoshop on the iPad](#)
- [Can't type French and German accent characters with a physical keyboard](#)

Japanese Text in Photoshop on the iPad

When in the Japanese version 1.0 of Photoshop on the iPad, any Japanese text attribute that can be set in the desktop version of Photoshop are supported when opened on the iPad. However, none of those text attributes are editable. In some cases, importing or opening up a Photoshop document from Photoshop desktop can cause text reflow.

For 1.0, it is recommended that, for any documents that need rich text features and assets, you do your work in the desktop Photoshop version and not in Photoshop on the iPad. While Adobe is considering expanding the Japanese text feature set for future releases of Photoshop on the iPad, the current text tool set for Japanese is limited.

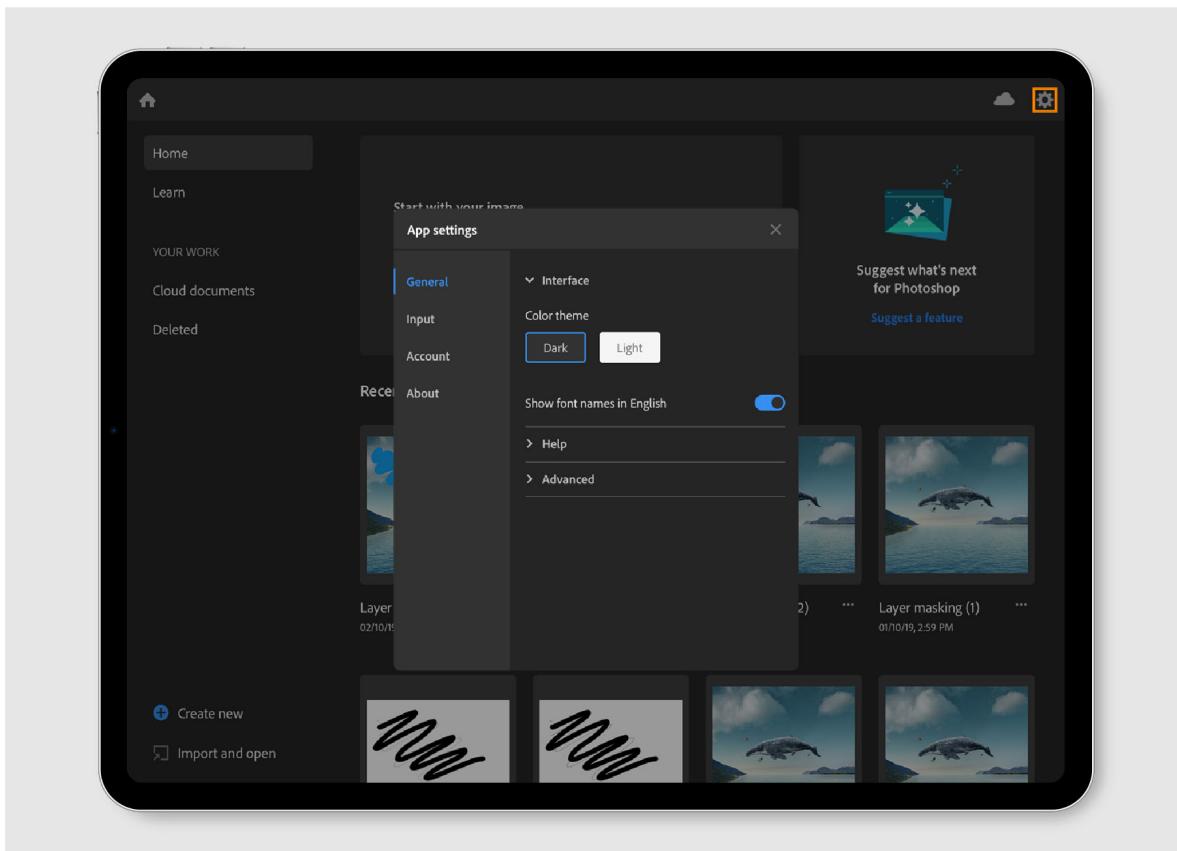
Limitations

- You can enter Japanese characters through the iOS Romaji and Kana through both the inline and attached keyboards.
- You can apply Justification, Color, and Japanese Fonts bundled with the application.
- Dummy text is not available.
- Setting vertical text in Photoshop on the iPad is not available. However, vertical text frames are visible and supported if the document was first created in Photoshop on desktop.
- Under certain conditions, Japanese text created in Photoshop on the iPad can recompose when opening Photoshop on the iPad and desktop Photoshop files back and forth.

Manage app settings

How to manage your app settings

- 1 Tap the Settings icon (⚙️) in the upper-right corner of the home screen.



- 2 In the **App Settings** dialog, choose any of the setting groups: **General**, **Input**, **Account**, or **About**. Within these setting groups, tap to expand any section to view the available settings and options.
- 3 Update the settings as required depending on your preferences for working in the app. Close the **App Settings** dialog when done.

General

Interface

Color Theme: Choose a **Dark** or **Light** color theme for the app interface.

Show font names in English: View the available font names in English. This button is turned on by default. Turn it off to see font names in their respective languages.

Help

View All Tutorials: Takes you to the **Learn** page on the home screen where you can explore and view Photoshop tutorials within the app.

Check Out FAQ: Read frequently asked questions about Photoshop. Opens in your device's default web browser.

Send feedback: Tap to report a problem, suggest a feature, or take a survey in the **How can we help?** dialog that opens.

Community forum: Connect with fellow community members and be a part of trending discussions in Photoshop. Tap to open [Adobe Support Community](#) in your device's default web browser.

Advanced

Reset preferences on quit: To reset to default app preferences, quit the app from the **App Switcher**. To do so, swipe up from the bottom to the middle of your screen and hold until the App Switcher appears, then swipe the app up to quit.

Reset all warning dialogs: Resets the default warnings. The warning dialogs will appear again when appropriate.

Legacy compositing: Enable the Legacy compositing button if you feel layer blending is not working properly. You won't need to enable this for new documents, but some older documents might look different from what it looked like in older versions of Photoshop.

Export cloud document logs: Tap to export your cloud document logs in the **Files** app > **On My iPad** > **Photoshop**.

Input

Touch

Touch indicator: Turn on to show the area where your finger or stylus touches the screen. Disabled by default.

Touch shortcut: Turn on to see the touch shortcut activated on the canvas. Quickly perform alternate actions with the selected tool using touch shortcuts. Enabled by default.

Stylus double-tap: Turn on to activate double-tap gesture using the stylus. Enabled by default.

Stylus-only painting: Turn on to ignore finger touches on the canvas and only accept touched from the stylus. Disabled by default.

View gestures: Tap to view a map of all the gestures you can use within the app.

View touch shortcuts: Tap to view a map of all the touch shortcuts you can use within the app.

Keyboard

View all keyboard shortcuts: Tap to view a map of all the keyboard shortcuts you can use within the app.

Account

Profile information

The Account section displays the profile information associated with your Adobe account.

Link

Edit profile: Tap to access your Adobe ID account online and manage the account information for your Adobe ID. For example, you can change your password, add a profile picture, and view your plans.

Sign out: Tap to sign out of the app. You have to sign back in to use the app.

Creative cloud storage

Available cloud storage: Displays the amount of cloud storage available with your Creative Cloud membership. A bar indicates the space used by your documents backed up in the cloud.

Use cellular data to sync: Turn on to use your cellular network's Internet bandwidth to:

- Download your documents from the cloud when you open them for editing.
- Sync your changes and edits to the cloud.
- Upload any recently created documents to the cloud.

Turn off to sync only over a WiFi connection.

About

About Photoshop

Find a brief introduction about Photoshop along with current version details.

What's new

Find a link to visit the What's new page of Photoshop. Page opens in your default browser.

Follow and share

- **Follow and share:** Follow Photoshop on the social platforms and share your inspirational work with fellow enthusiasts.
- **Leave a review:** Leave a review for the Photoshop on mobile app.
- **Share this app:** Find your experience with the Photoshop on mobile app exciting? Share the app with friends!

Improvement program

Help improve Photoshop by sharing anonymous usage statistics and crash information with Adobe. No personal information or assets are shared.

- **Send usage info:** Turn on to share your usage information with the Photoshop team.
- **Send crash info:** You can choose to send crash reports that help improve Photoshop.

Legal

Walks you through the terms of use, privacy policy, and third party notices.

Contributors

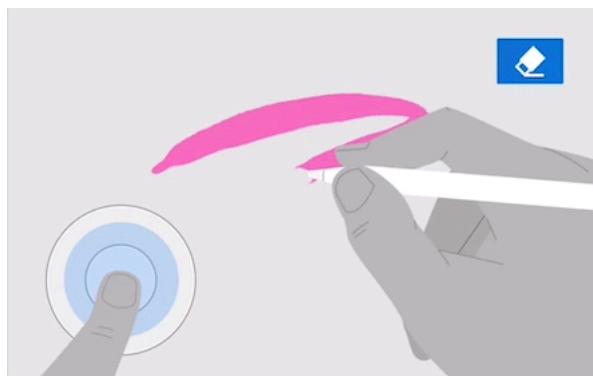
Shows you a list of Adobe resources who have dedicatedly worked on creating the best Photoshop experience.

Touch shortcuts and gestures

Work with touch shortcuts

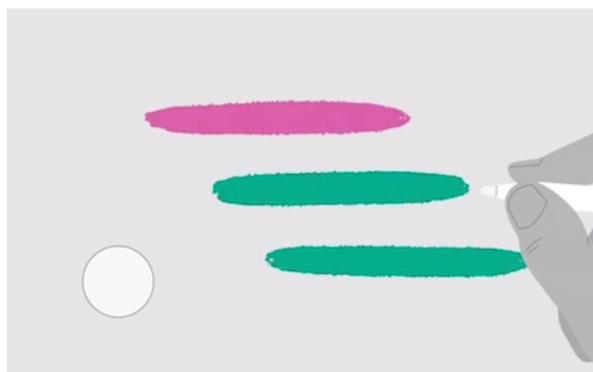
Use the touch shortcuts to quickly access the alternate actions of a selected tool in Photoshop on your iPad. You can tap and drag the touch shortcut to move it across your canvas. For each selected tool, the touch shortcut offers upto two alternate actions. Keep the touch shortcut pressed down the entire time you want to use the alternate behavior of a selected tool. A blue indicator appears on the upper right side of the canvas to notify you about the activated state of the touch shortcut.

For example, while using the Brush tool you can activate the primary touch shortcut to access the Eraser version of your Brush, and activate the secondary touch shortcut to switch to the Eyedropper tool.



Using the Primary Touch Shortcut to activate the Eraser version of the Brush tool.

Using primary touch shortcut: Tap and hold the center of the touch shortcut with your other hand to activate the **primary** action of the selected tool.



Using the Secondary Touch Shortcut to activate the Eyedropper tool with the Brush tool selected.

Using secondary touch shortcut: Tap and slide to the outer edge of the touch shortcut with your other hand to activate the **secondary** action of the selected tool.

The Brush tool is just one of the many tools you can use with the Touch shortcut. To access a list of tools that work with touch shortcuts in Photoshop on your iPad from within the app, navigate to Help (ⓘ) > View touch shortcuts, or see the table below:

Icon	Tool	Primary Touch Shortcut	Secondary Touch Shortcut
	Move	Move on the X/Y axis	Duplicate
	Scale	Scale unproportionally	Scale from center
	Rotate	Snap to 15 degrees	None
	Lasso	Add to selection	None
	Quick select	Add to selection	None
	Rectangular marquee	Select with a fixed ratio	Select from the center with a fixed ratio
	Elliptical marquee	Select with circle	Select from the center with circle
	Brush	Eraser	Eyedropper
	Clone stamp	Set source	None
	Crop	Crop proportionally	Crop proportionally from the center
	Tap Layer	Enter multi-select mode	None
	Tap Layer group	Enter multi-select mode	None

Use gestures

Quickly perform helpful common actions using gestures to interact with the touch-based user interface of Photoshop on the iPad. To access a list of touch gestures that you can use in Photoshop on your iPad from within the app, navigate to Help (ⓘ) > View gestures, or see the table below:

Illustration	Gesture	Action
	2 finger tap	Undo
	3 finger tap	Redo
	Hold and drag the grabber at the top of the floating tool panel to move it around the canvas	Move tool options
	Double tap or long press icons that have triangles on the bottom right to reveal more tool options	Reveal more options
	2 finger drag to pan	Pan canvas
	Double tap	View at 100%
	Pinch to zoom	Zoom canvas

Keyboard shortcuts

You can connect a physical keyboard to your iPad and enjoy a great typing experience whenever you need it.

While you have a keyboard connected to your iPad, you can also use popular keyboard shortcuts to easily perform common actions when working with Photoshop on the iPad.



To access the in-app keyboard shortcuts map on your iPad:

- From the Home screen, go to App Settings () > Input > View keyboard shortcuts.

- From the editing workspace, go to Help (?) > View keyboard shortcuts.

Let's take a look at the comprehensive list of keyboard shortcuts to work quickly on the iPad:

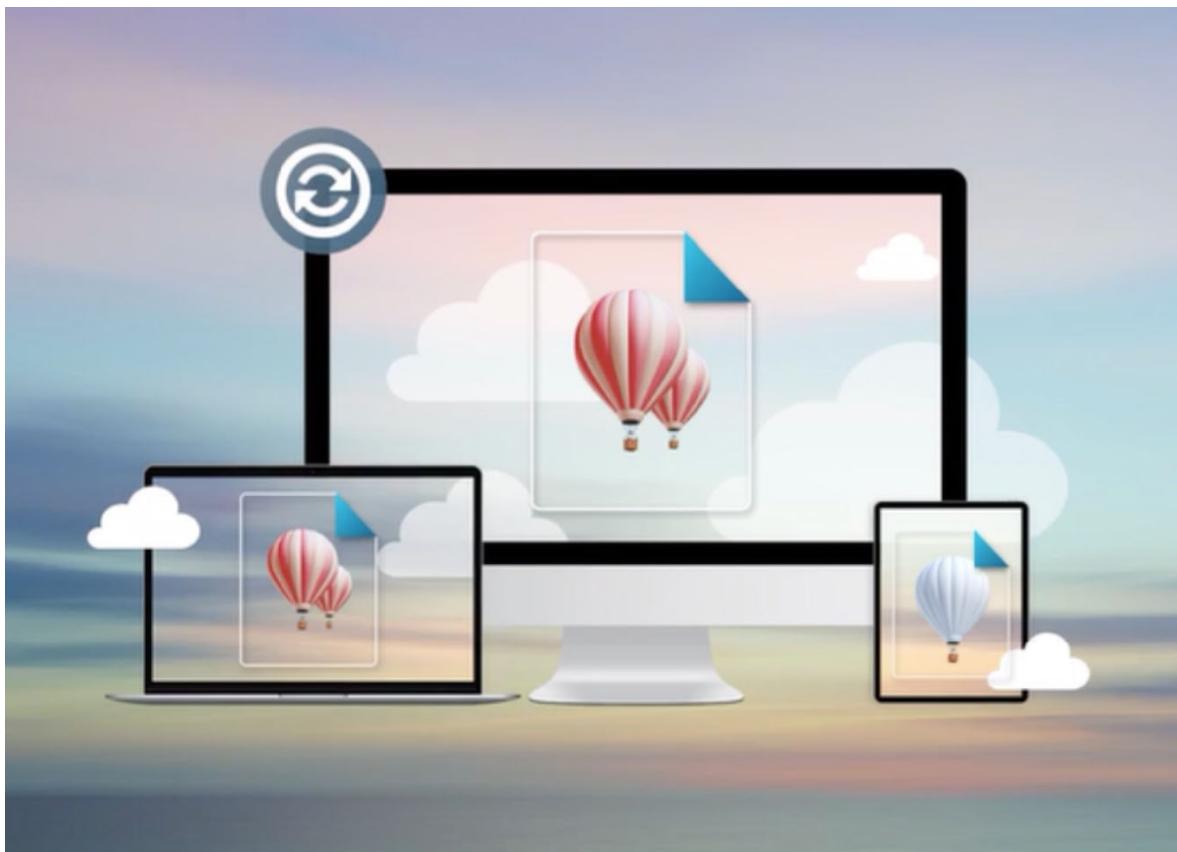
Action	
Keyboard shortcut (iPad)	
Copy	Command + C
Copy content from all visible layers	Command + Shift + C
Paste	Command + V
Undo	Command + Z
Redo	Command + Shift + Z
Move	V
Transform	N
Lasso	L
Quick select	W
Rectangular marquee	M (Shift)
Elliptical marquee	M (Shift)
Brush	B
Eraser	E
Paint bucket	G (Shift)
Gradient	G (Shift)
Spot healing brush	J
Clone stamp	S
Crop	C
Type	T
Eyedropper	I
Use default foreground and background colors	D
Switch foreground and background colors	X
Brush size increase]
Brush size decrease	[
Select All	Command + A
Deselect	Command + D
Reselect	Command + Shift + D
Invert Selection	Command + Shift + I
Next selection view	F
Previous selection view	Shift + F
Fill with the foreground color	Option + Delete

Fill with the background color	Command + Delete
Invert	Command + I
Nudge 10 pixels at a time	Shift + Arrow
Nudge 1 pixel at a time	Arrow
Cycle to next blend mode	Shift -
Cycle to previous blend mode	Shift =

Chapter 4: Cloud documents

Photoshop cloud documents | Common questions

What are Photoshop cloud documents?



Cloud documents are Adobe's new cloud-native document file type that can be accessed online or offline directly from within the Photoshop application. Cloud documents can be accessed across devices while your edits are automatically saved through the cloud. To learn more about cloud documents, see [What are cloud documents](#).

What are the benefits of using Photoshop cloud documents?

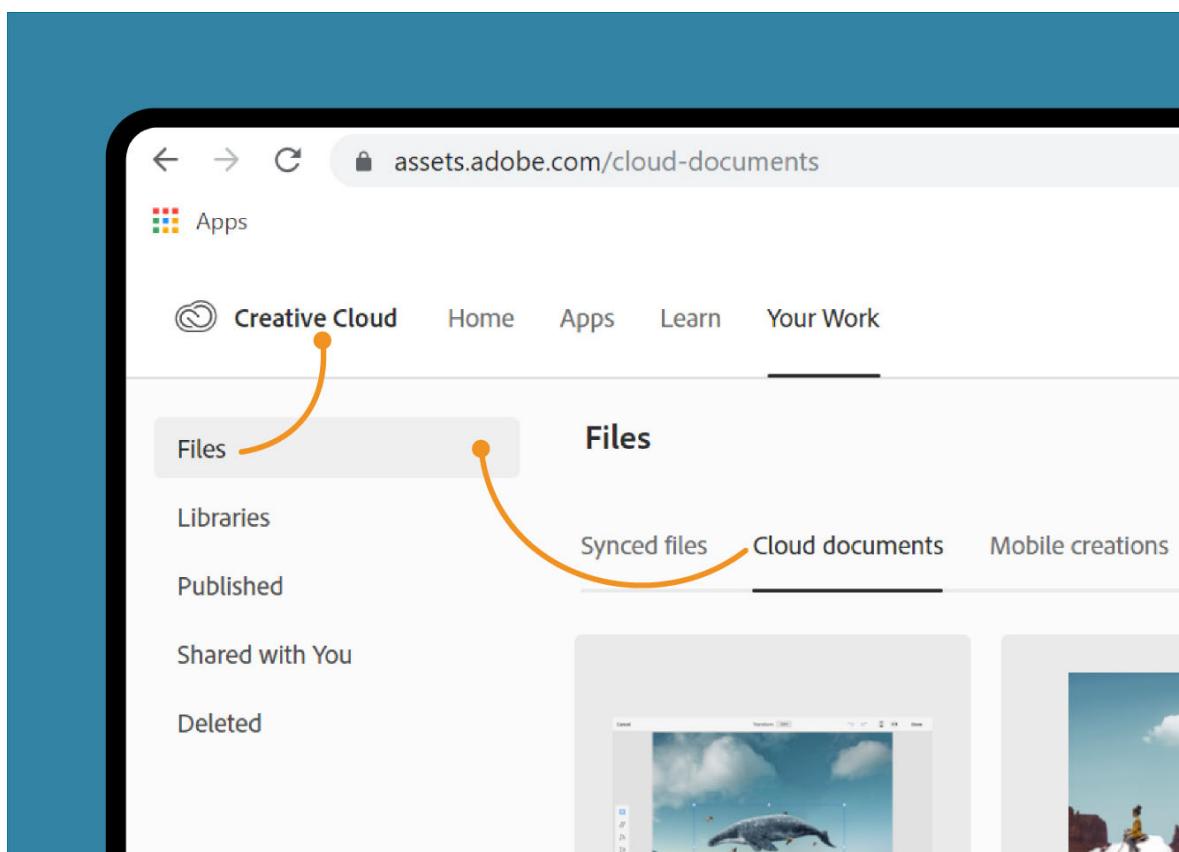
Photoshop cloud documents provide you with:

- **Reliability:**? Your edits are automatically updated and saved in Photoshop on the iPad. When working on a desktop, save your project as a cloud document so that you never have to worry about losing your work.

- **Mobility:** Access your cloud documents across devices - anytime, anywhere.
- **Quality:** Cloud documents stored every layer, at full fidelity.
- **Access all your work:** You can easily find all your cloud documents right within Photoshop whether on your desktop or iPad.

What is the difference between cloud documents and Adobe Creative Cloud Files?

Cloud document is the next generation of document files that are optimized for working on the go. You can easily work seamlessly between applications like Photoshop, XD, Fresco, and Aero using cloud documents. [Creative Cloud Files](#) allow you to save, store and sync any file type in your Creative Cloud.



- While working with Photoshop on the iPad, you can save your work as a cloud document but not as Creative Cloud File directly from within the app.
- Cloud documents and Creative Cloud Files are stored in different locations within your Creative Cloud account.
- Unlike cloud documents, PSDs saved as Creative Cloud Files are not native to the cloud, and therefore do not have the same [What are the benefits of using Photoshop cloud documents?](#) as cloud documents.

Can I access cloud documents from Creative Cloud Libraries?

Cloud documents can be accessed from within the Photoshop app and from on the web at [assets.adobe.com](#), but not from Creative Cloud Libraries.

Am I going to be forced to save my documents to the cloud in Photoshop?

On the desktop, you can always choose between saving documents to the document cloud or choose to save locally. Photoshop remembers how you saved or opened your most recently accessed document and will continue to present you with the same experience until you choose otherwise.

While working with Photoshop on the iPad, **cloud documents** are the default experience, but you can export your cloud documents locally as other file formats, including PSD, JPEG, PNG, TIFF, to ensure interoperability with other applications.

To learn more about save and export workflows, see [Create, open, and save cloud documents](#).

Is there a limit to the number of cloud documents I can save in Photoshop?

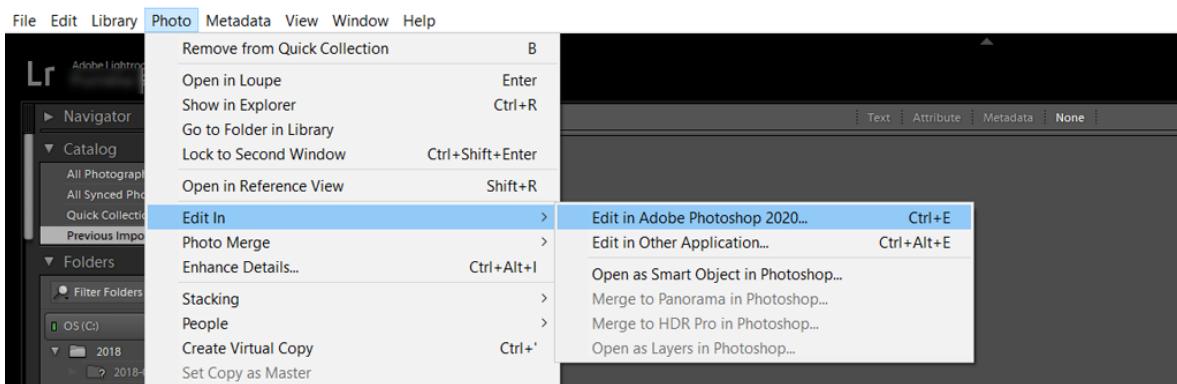
You are only limited by the amount of Creative Cloud storage you have. To know more about your Creative Cloud storage, or how to add more storage to your plan, see [File storage and quota](#).

Do cloud documents in Photoshop have anything to do with Lightroom photos?

Although both Lightroom photos and cloud documents are stored in your Creative Cloud account, your Lightroom photos and cloud documents are unrelated and stored separately. For saving a file as a cloud document in Photoshop on the desktop, you require Adobe Photoshop 2020.

To work with Lightroom photos in Photoshop on the iPad, select a photo from within Lightroom Classic or Lightroom Desktop, and open the photo within Photoshop on your desktop by selecting **Photo > Edit In > Edit in Adobe Photoshop** from the Lightroom top menu. Once your photo is open within Photoshop on your desktop, choose **Save as cloud document**. Your photo will then be saved as a cloud document and available for your use on the go within Photoshop on the iPad.

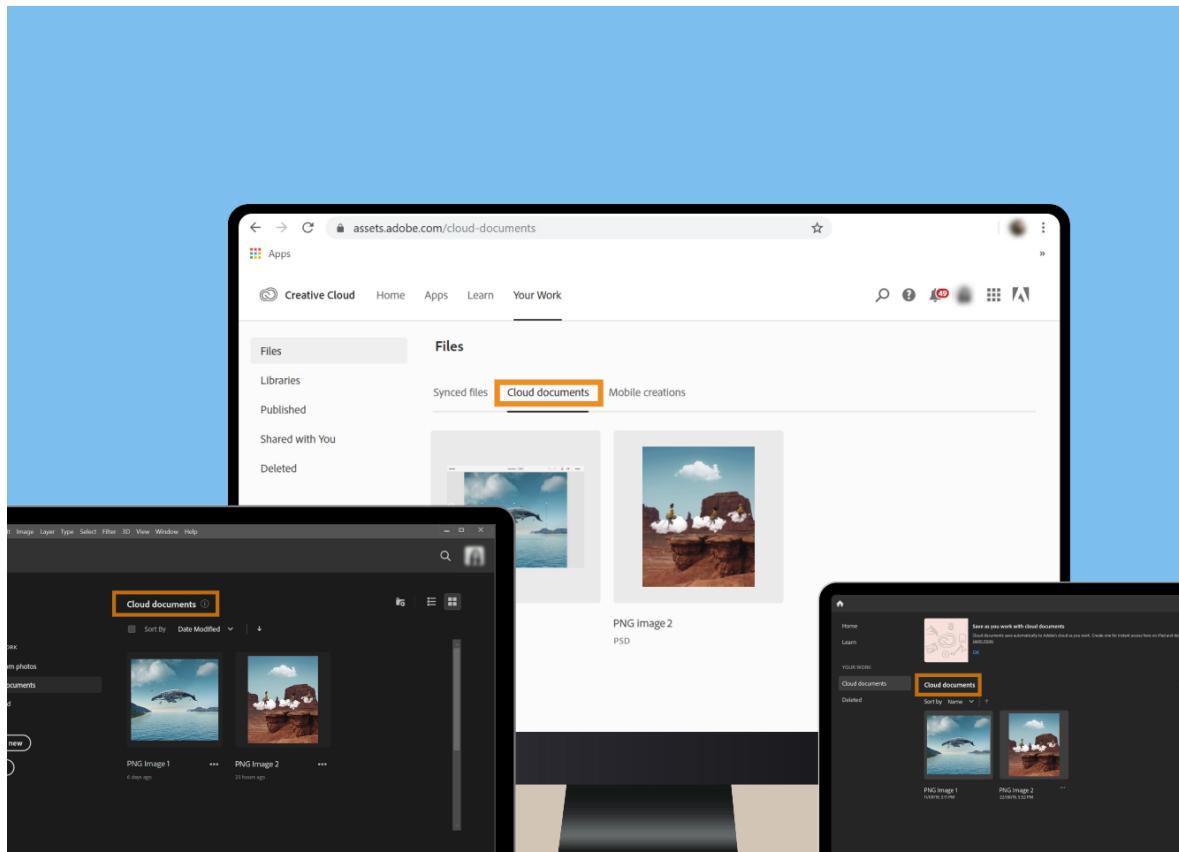
To see your Photoshop edits reflected within your Lightroom catalog, you can export your cloud document into a file format supported by Lightroom, such as a PSD or TIFF, and import your photo back into Lightroom.



Open a photo to edit in Photoshop on your desktop directly from Lightroom Classic.

Photoshop cloud documents | Workflow questions

Where can I find my Photoshop cloud documents?



To find your? Photoshop cloud documents, access:

- [Photoshop](#) (desktop or iPad): **Cloud documents** tab in the Photoshop home screen.
- [assets.adobe.com](https://assets.adobe.com/cloud-documents) (web): Navigate to **Creative Cloud > Files > Your work > Cloud documents**.

To learn more about accessing your cloud documents, see [Access your cloud documents](#).

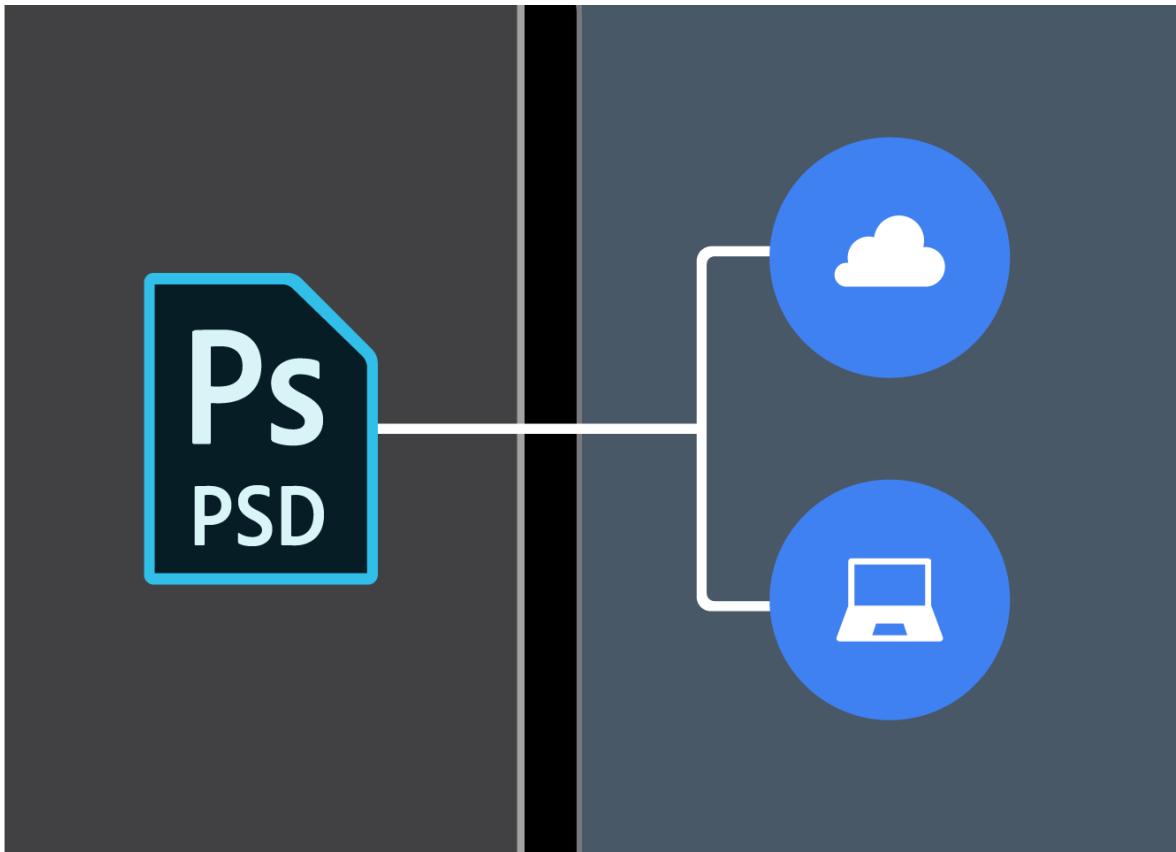
What are the workflows associated with cloud documents in Photoshop?

The common workflows for cloud documents in Photoshop include create, edit, save, rename, share, move, and delete actions, both on the iPad or desktop. To learn more about common workflows in cloud documents, see:

- [Create, open, and export cloud documents](#)
- [Manage and work with cloud documents in Photoshop](#)

Note: Work with Smart Objects are supported in cloud documents. [Create Linked Smart Objects | Photoshop](#) are only supported on the device where the cloud document was created.

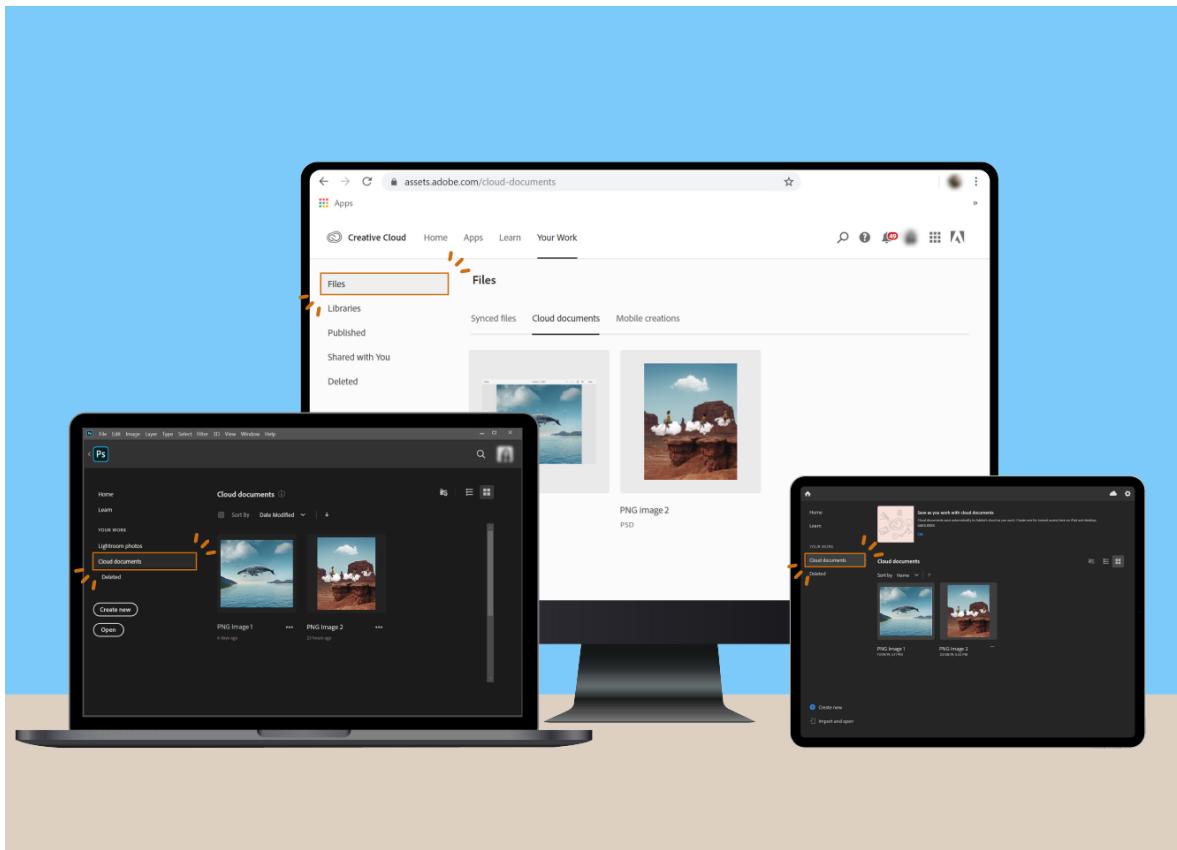
Can I save my documents as local PSD files?



Yes, Photoshop on the desktop enables you to save your Photoshop document as a local file or as a cloud document. When working with Photoshop on the iPad, you can explicitly save your document locally in any file format other than the default cloud document format.

To learn more about the saving your documents, see [Manage and work with cloud documents in Photoshop](#).

How can I make my PSD accessible across my devices?



To make your PSD accessible across your devices, you [can convert?](#) your PSD to a cloud document and save it to the cloud.

To do so, open Photoshop on the desktop and select **File ?>? Save as? >? Save Adobe Cloud document**. Documents created with Photoshop on your iPad are automatically saved to the cloud by default and are accessible on Photoshop across your devices.

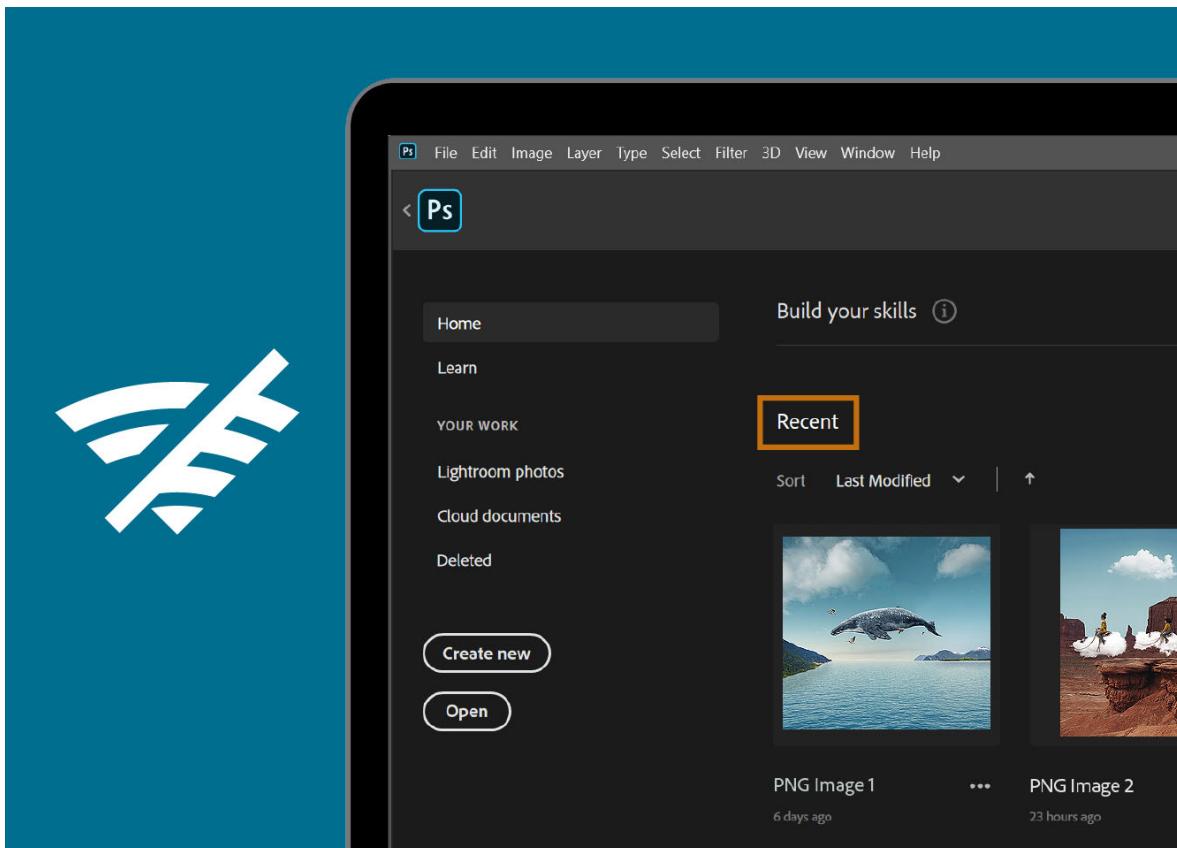
To learn more about the saving and working with your documents, see [Manage and work with cloud documents in Photoshop](#).

Can I simultaneously edit a cloud document on multiple devices?

While editing a document on multiple devices at the same time, conflict arises when you try to save changes to the cloud documents.

When making changes on different devices, we recommend to make sure your changes have been saved to the cloud before you resume editing on another device to avoid version conflict.

Can I work with cloud documents in Photoshop on the iPad when I'm not connected to the Internet?

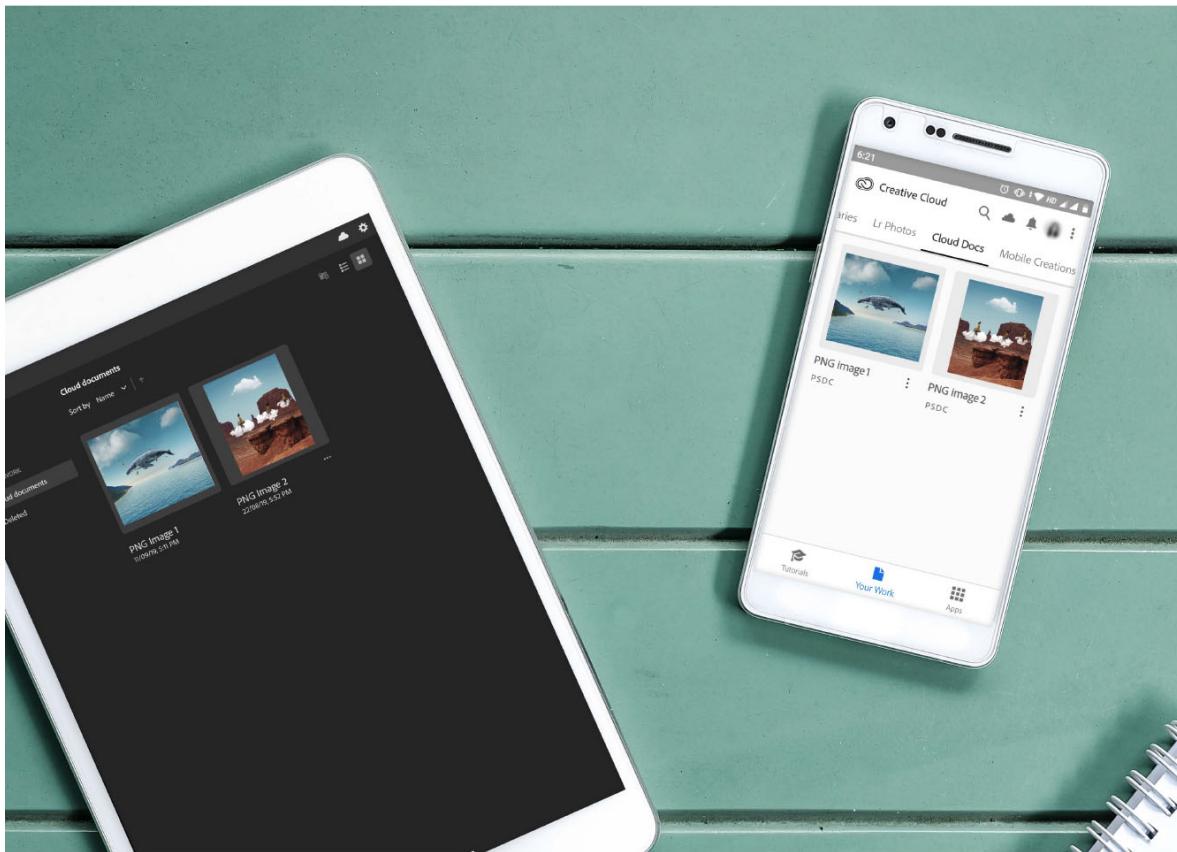


Yes, you can work offline with any cloud document that is currently available in your device cache. To make sure you have access to a cloud document locally, open the cloud document before going offline. *You will then be able to find your project under the Recent section on the home screen and can continue to work. Your document changes will be saved to the cloud as soon as your device is reconnected to a network.*

Under the **Cloud documents** section in the app home screen, cloud documents that do not have their local cache available on your device have a cloud icon (cloud with a lightning bolt) visible on their thumbnail. Caches are not shared between devices or other applications like Fresco, XD, or Aero and it is recommended that you open only the documents that you will need while you work offline as the app cache is limited.

To learn more about working offline with cloud documents, see [Prepare to work offline with cloud documents](#).

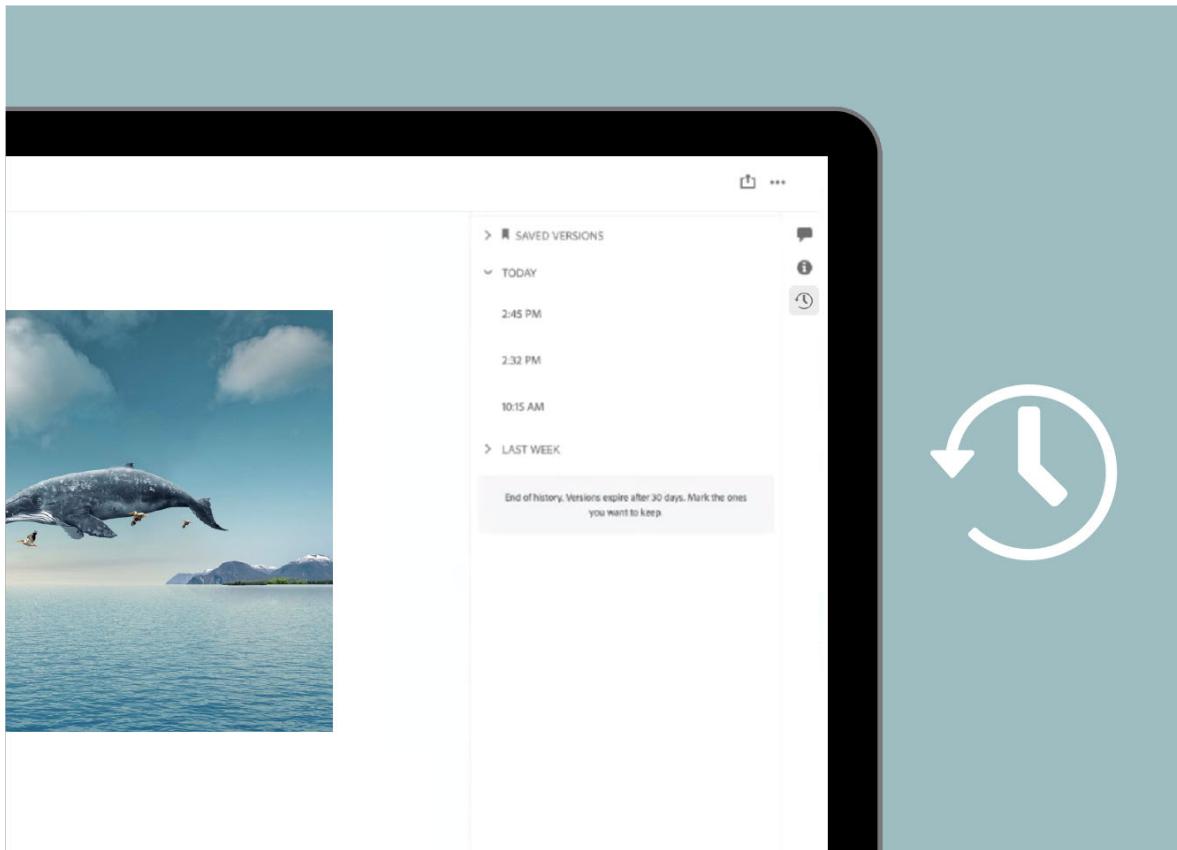
Can I access Photoshop documents through the Creative Cloud mobile app?



To access your Photoshop documents from Creative Cloud files, save them as cloud documents from the Photoshop desktop app. Documents created with Photoshop on the iPad are automatically saved as cloud documents by default. Your cloud documents will appear in the Creative Cloud mobile app.

To learn more about the save experiences in Photoshop on your iPad and desktop, see [Manage and work with cloud documents in Photoshop](#).

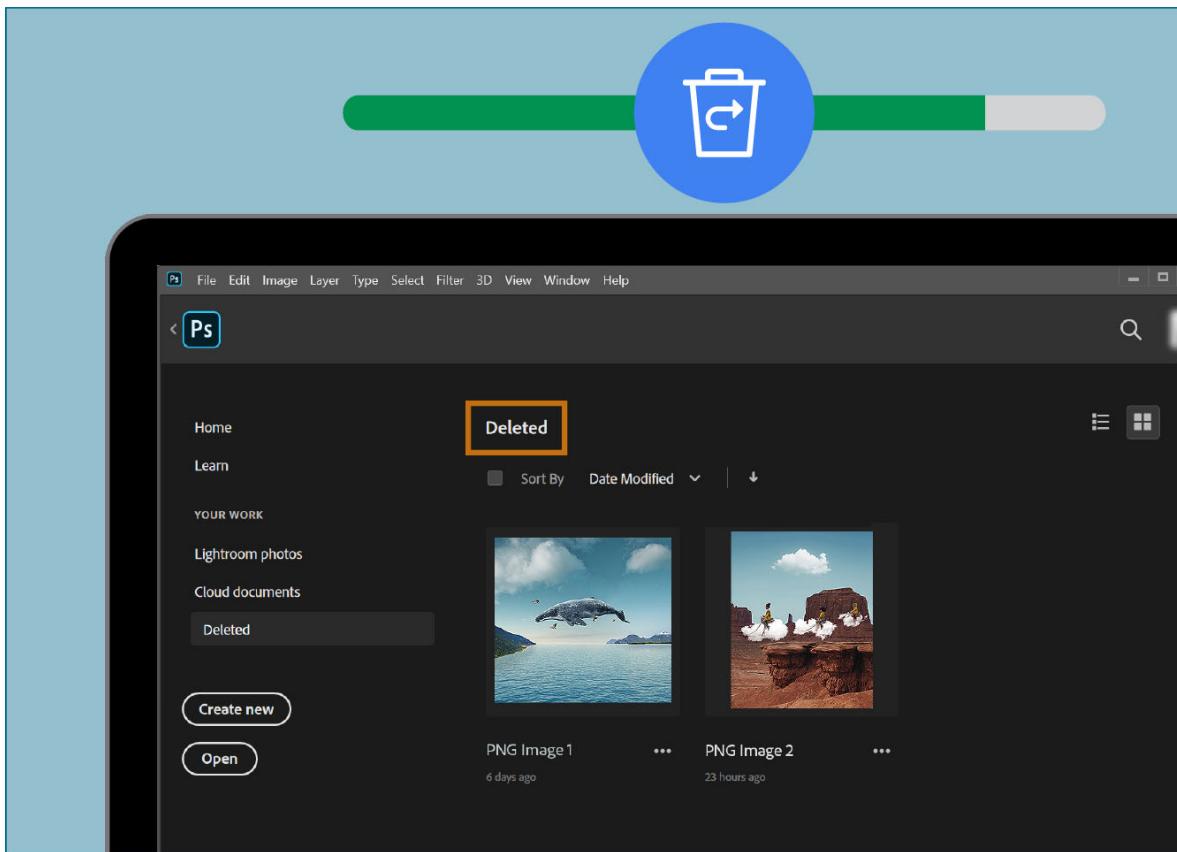
How do I get back to an older version of a cloud doc?



Go to assets.adobe.com > Files > Your work > Cloud documents, to browse through your cloud documents. Open a cloud document and select the Timeline icon from the right side of the document preview. In the timeline view, you can find all your document versions listed. To learn more, see:

- [View the version history of a cloud document](#)
- [Revert to the previous version of a cloud document](#)

How can I clear my Creative Cloud storage quota?



The assets you delete while working on Photoshop remain in the **Deleted** section in the app home screen. As a result, these deleted assets will still consume cloud storage space. To clear up your cloud storage, tap the three dots (**...**) icon that appears below a document in the **Deleted** section and tap **Permanently Delete**.

To learn more about deleting your cloud documents permanently, see

- [Manage and work with cloud documents in Photoshop](#)
- [Delete files permanently from cloud storage](#)

Create, open, and export cloud documents

Open up full-size Photoshop files on your iPad and automatically store them in the cloud as Photoshop cloud documents, without the fear of losing your work. You get the same fidelity, power, and performance no matter what device you're working on, even when you're designing with thousands of layers.

Create new

While working with Photoshop on the iPad, tap **Create new** (⊕) from the home screen to easily create a new cloud document.

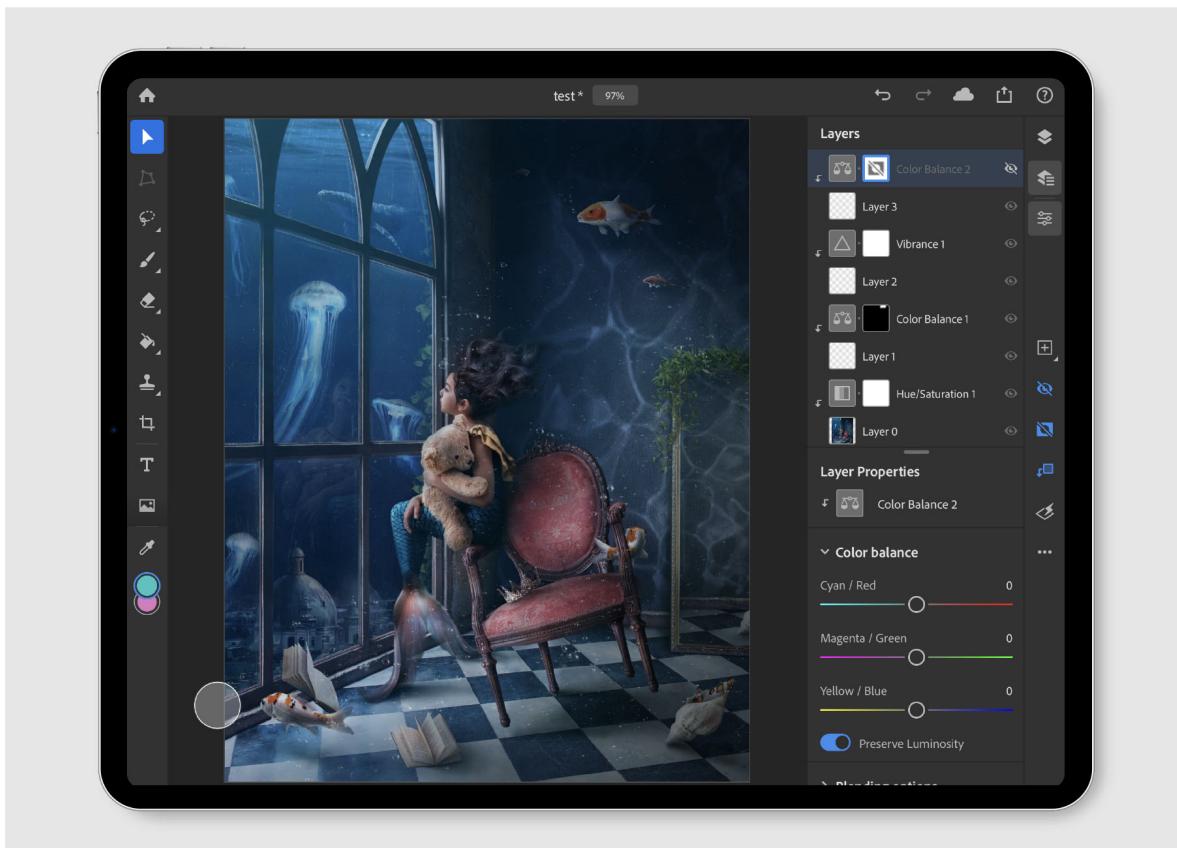
Cloud documents

In the **New document** panel that opens, you can type a name for your document, set the canvas dimension, change orientation, select resolution, and choose the background content. Currently, Photoshop on the iPad supports RGB 8-bit color mode. Also, you can explore common preset canvas options based on the field of usage: **Print**, **Screen**, and **Film and video**, and find the recently used canvas formats listed under **Recent**. Tap **Create** to create a new document and place it in the canvas.

Any document you create in Photoshop on the iPad is a cloud document by default. You can also choose to [export](#) your cloud documents in other file formats if required.

Cloud documents give you the ability to work on the go. With Photoshop on the iPad, you can:

- [Add photos to your canvas](#) to your composite.
- [Make selections and add masks](#) to create non-destructive composites.
- [Retouch your composites](#) to remove specific parts.
- [Draw and paint with brushes](#).
- [Work with layers](#).
- [Apply transform operations](#).
- [Crop and rotate your composites](#).
- [Touch shortcuts and gestures](#) to speed up your workflows.



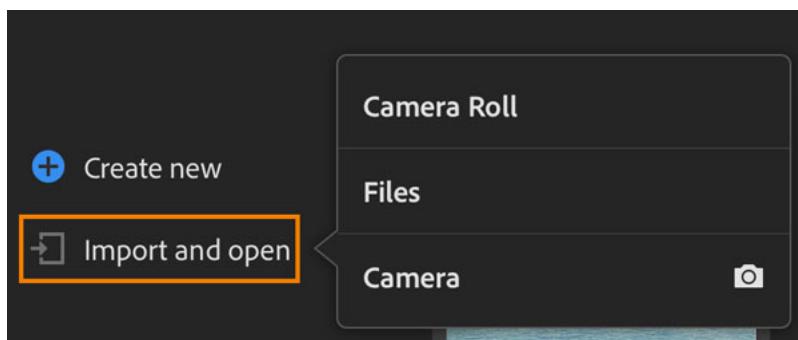
Feel closer to your creative work with Photoshop on the iPad.

Import and open

Tap Import and open () to quickly import a document from:

- **Camera Roll:** Tap Camera Roll to see all your Camera Roll photos.
- **Files:** Tap Files to browse through your file Locations on your iPad. You can also add selected files to Favorites and find tagged files under the Tags section.
- **Camera:** Tap the camera icon to take a new photo with your iPad's camera and open it directly on the canvas.

Any file imported and opened in Photoshop on the iPad is converted to a cloud document by default.



Select from — Camera Roll, Files, or Camera, to import and open a document in Photoshop on the iPad.

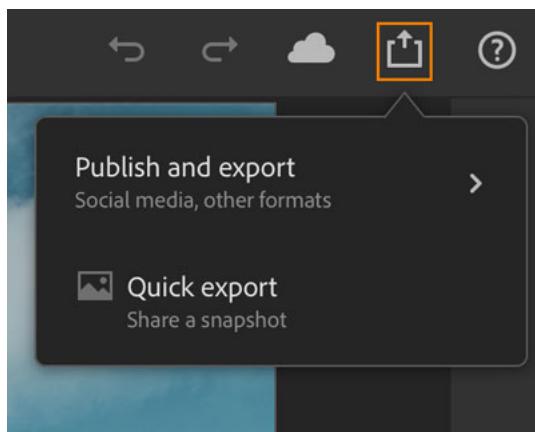
Publish and export

A document you create or open in Photoshop on the iPad is auto-saved to the cloud.

Tap the export () icon to easily export your saved documents in formats other than the default cloud document format. You can use this option to share your document to text, email, or any other application available on your mobile devices, such as Instagram, Facebook, Behance, and more. You can also use the export options to easily work with compatible apps like Fresco, Aero, XD, and others.

Publish and export: Use this option to set your export preferences.

Quick export: Use this option to quickly share a snapshot of your document.



Save and export in formats other than the default cloud document.

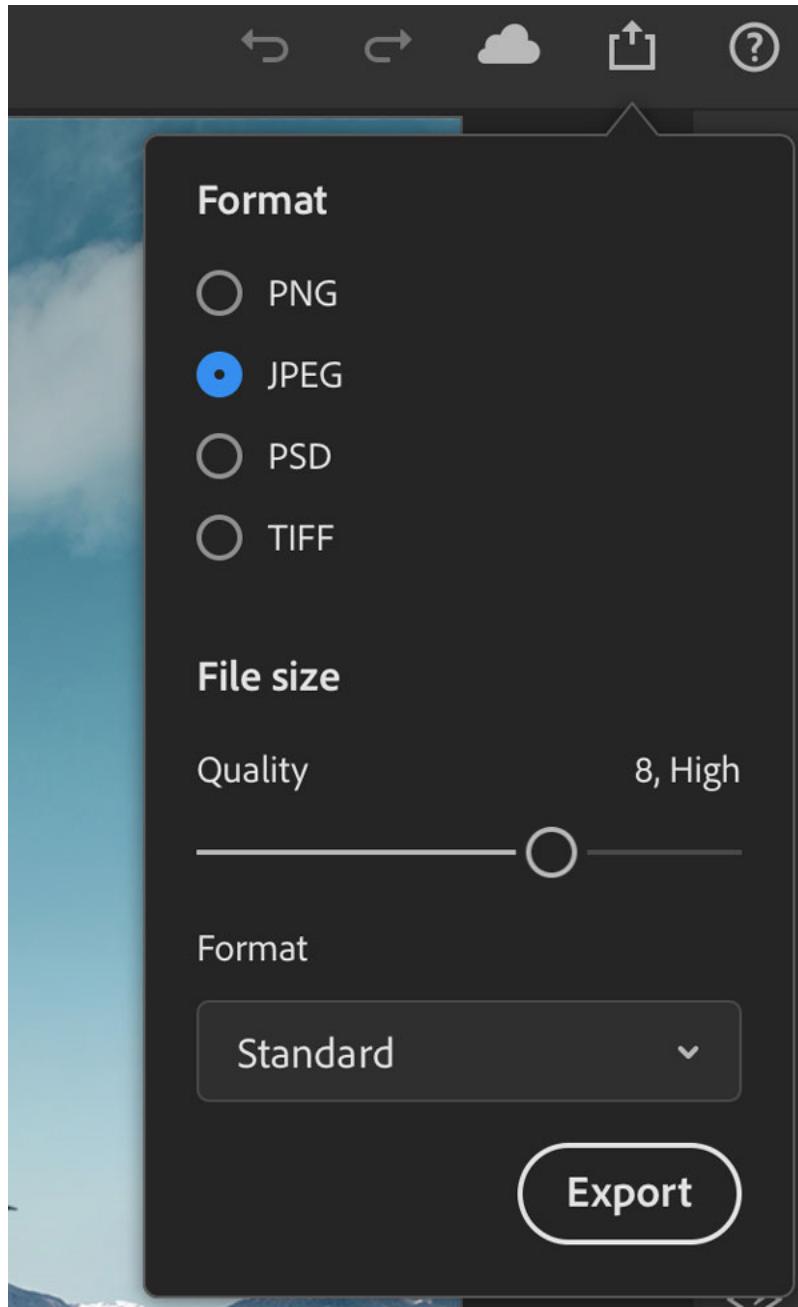
On selecting **Publish and export**, you can further set:

- **Format:** Choose from an available format option — PNG, JPEG, PSD, or TIFF

- **File size:**

- **Quality:** Adjust the slider to select the quality of your exported file. The value varies between 0 and 12.
- **Format:** Select a suitable file export format — **Standard**, **Optimized**, or **Progressive**.

Tap the **Export** button to export your document with the preferences you have selected above.

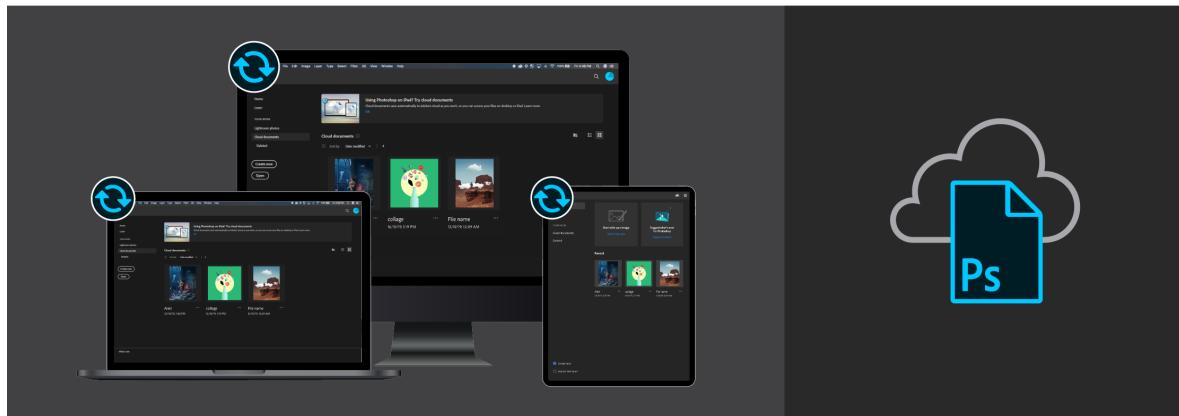


Set your preferences while using the Publish and export option to export your documents.

Manage and work with cloud documents in Photoshop

Cloud document is Adobe's new cloud-native document file type that is optimized for a seamless online or offline work experience across devices. With cloud documents, you can enjoy the security of knowing that your edits get saved and synced to the cloud all the time.

Read the full article below to learn more about common workflows associated with cloud documents in Photoshop.



Create a cloud document and save

iPad

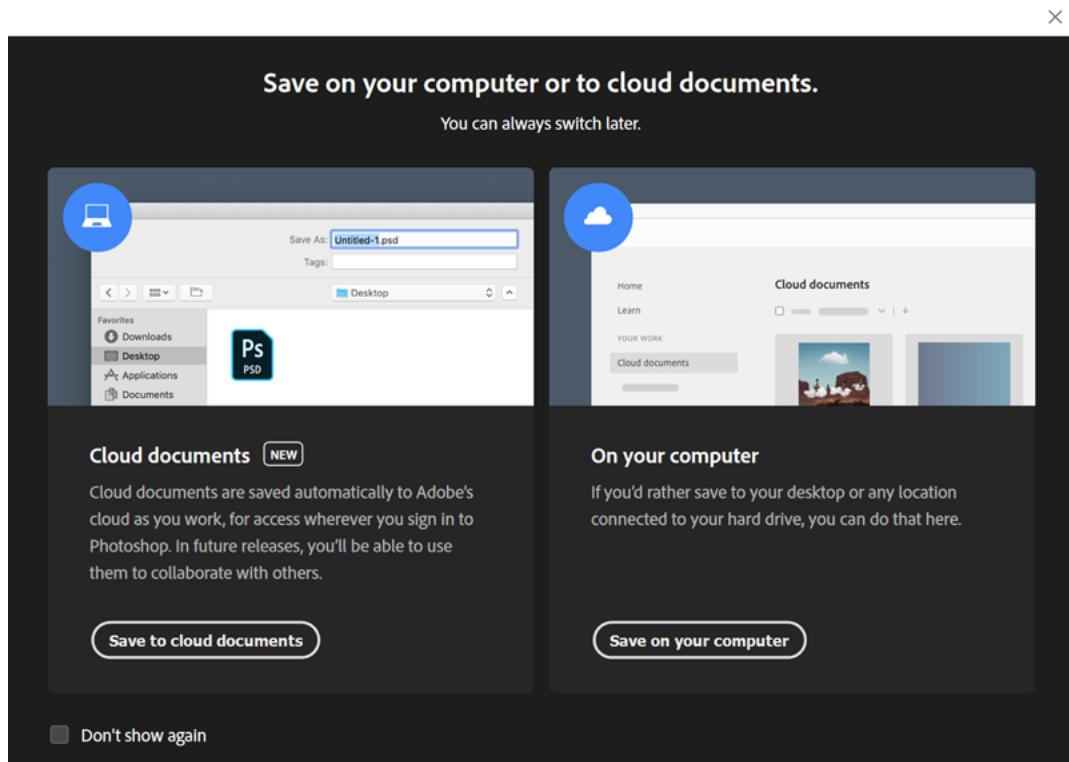
Any document you create with Photoshop on mobile is automatically saved as a cloud document by default. Use the [Create new](#) option in the app home screen to create a cloud document.

To learn more about creating and explicitly exporting a cloud document to other file formats, see [Create, open, and export cloud documents](#).

Desktop

You can create a document with Photoshop on desktop and save it as a cloud document to work anytime, anywhere, and across devices.

To save a document, go to **File > Save as** and select an option from the **Save on your computer or to cloud documents** window that opens. You can always switch between the available save options in the cloud document picker—**Save to cloud documents** and **Save on your computer**.

Cloud documents

Select the **Don't show again** check box if you don't want to see **Save on your computer or to cloud documents** window again. Photoshop remembers the save behavior from your last session and intuitively presents you with the same experience when you try to save a document again.

Web

You can [Access your cloud documents](#) from web (assets.adobe.com) but not create, open, make edits, or save.

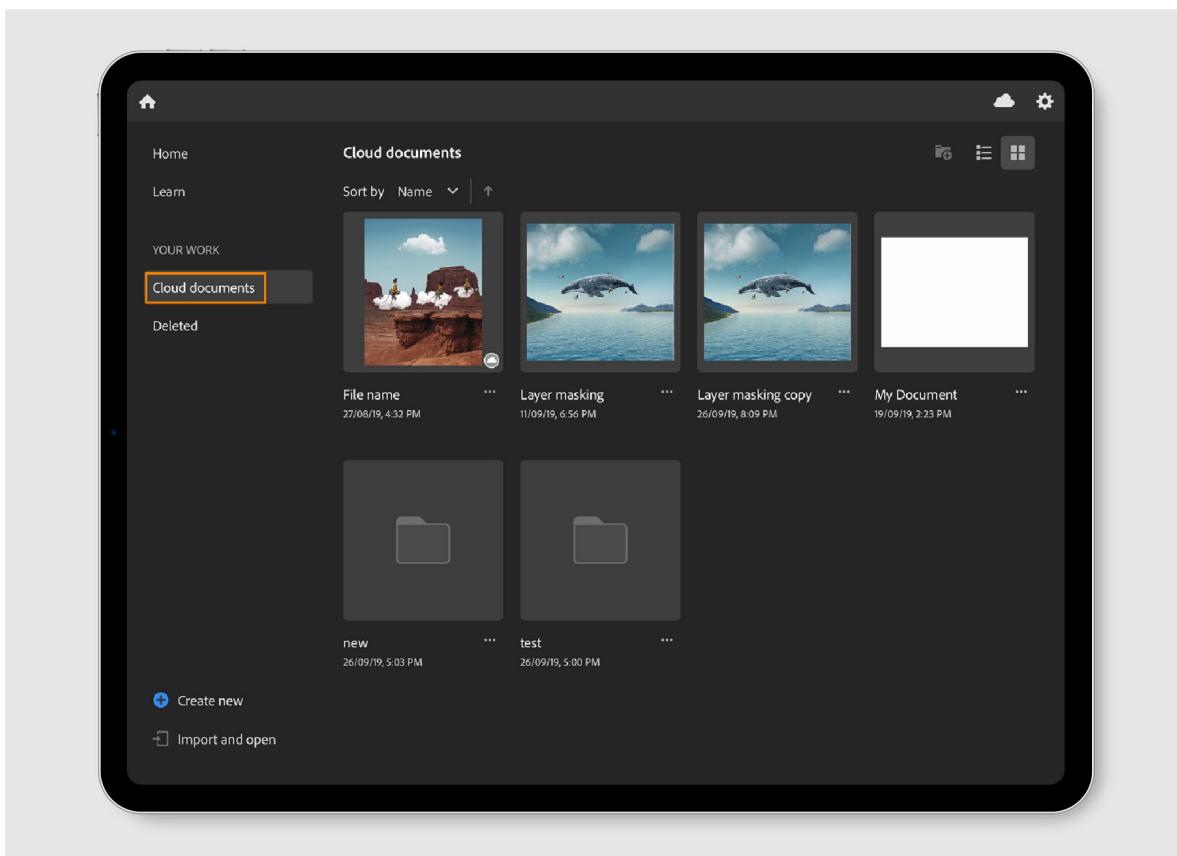
Access your cloud documents**iPad**

Tap the **Cloud documents** tab in the app home screen on your iPad.

Under the **Cloud documents** section, you can:

- Sort your cloud documents by **Date Created**, **Date Modified**, or **Name** in ascending or descending orders.
- You can switch between the list view (grid icon) and the grid view (list icon).
- You can create a folder (camera icon) to organize your cloud documents.

Cloud documents



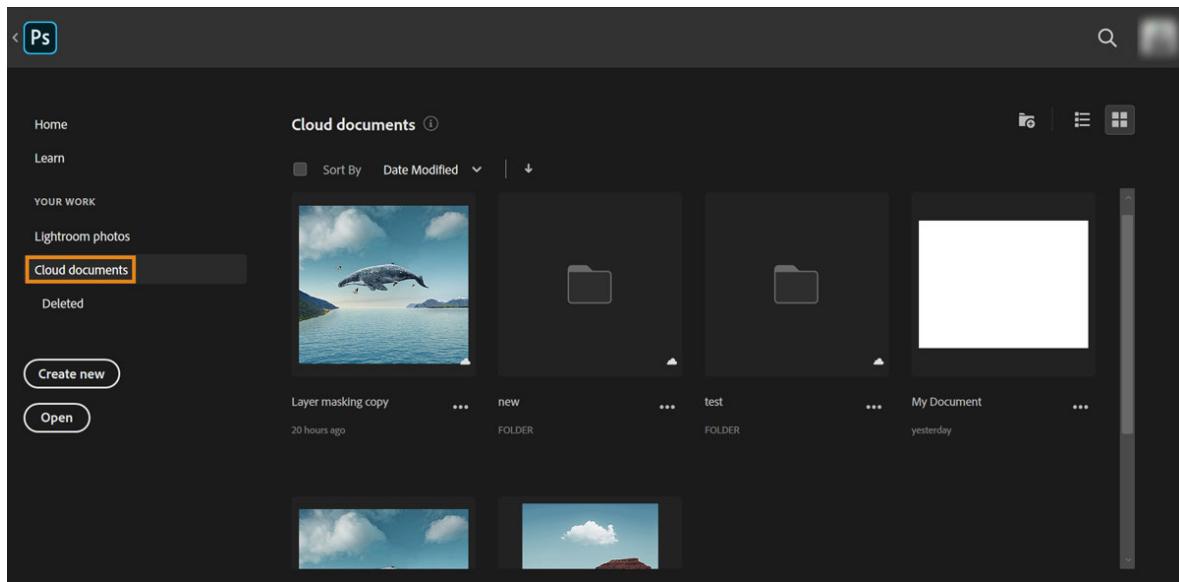
Desktop

Click the **Cloud documents** tab in the app home screen on your desktop.

Under the **Cloud documents** section, you can:

- You can enable the check box to select multiple cloud documents simultaneously.
- Sort your cloud documents by **Date Modified**, or **Name** in ascending or descending orders.
- You can switch between the list view () and the grid view ().
- You can create a folder () to organize your cloud documents.

Cloud documents

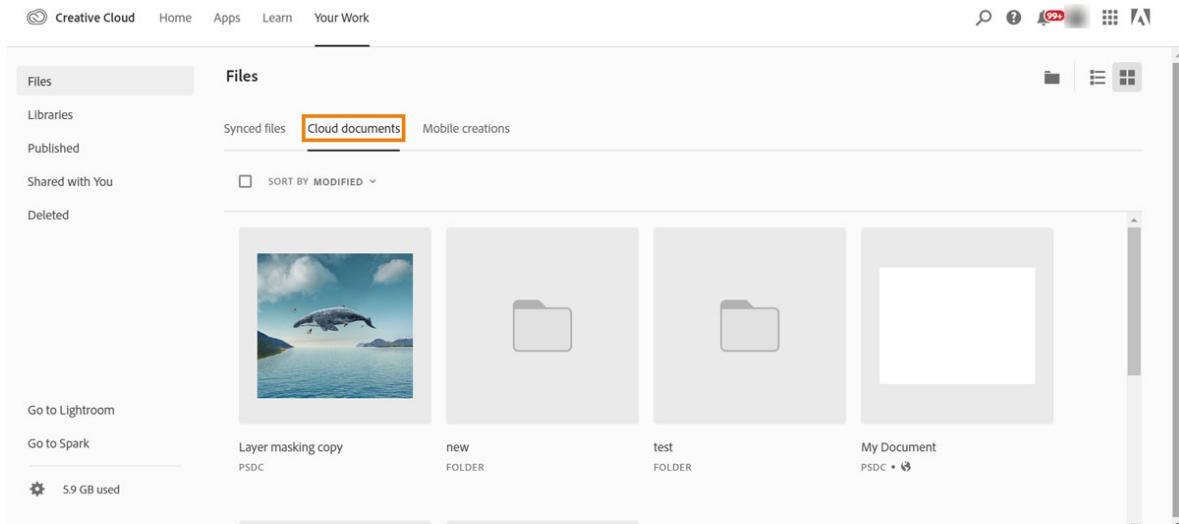


Web

Open assets.adobe.com. Navigate to **Creative Cloud > Files > Your work > Cloud documents**.

Under the **Cloud documents** section, you can:

- You can enable the check box to select multiple cloud documents simultaneously.
- Sort your cloud documents by **Modified**, or **Name** in ascending or descending orders.
- You can switch between the list view () and the grid view ().
- You can create a folder () to organize your cloud documents.



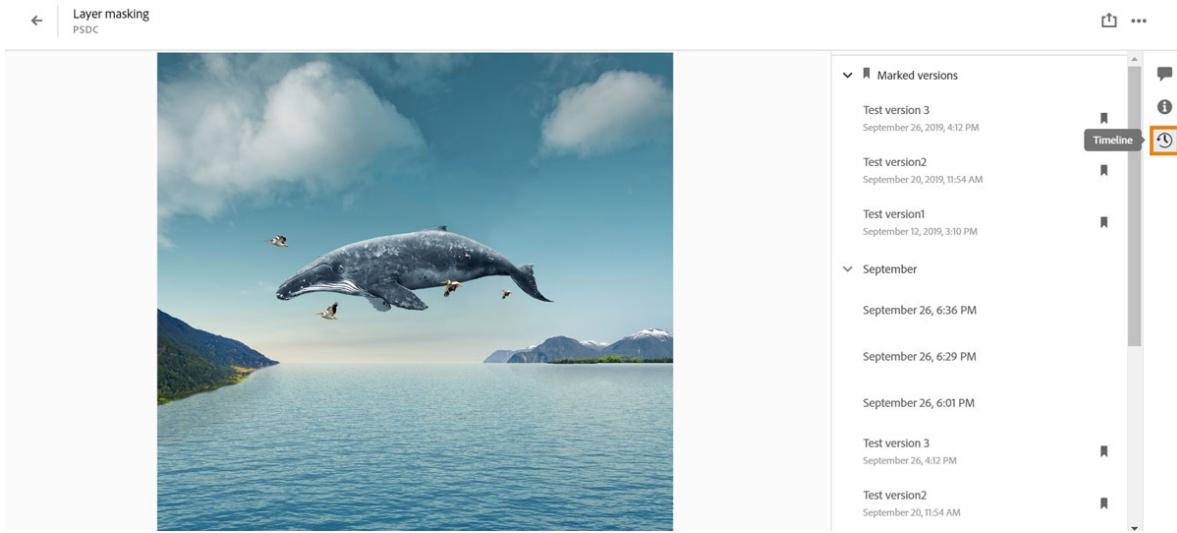
View version history of a cloud document

You can view and manage the version history of your Photoshop cloud documents from only from web.

Cloud documents

To view the version history, do the following:

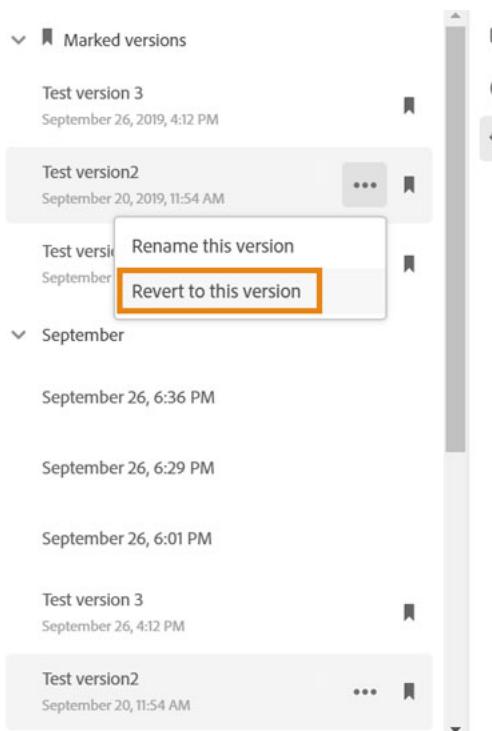
1. Go to assets.adobe.com > Files > Cloud documents and browse through your cloud documents.
2. Open a cloud document and click the Timeline (⌚) icon.



3. In the timeline panel that opens, you can find auto-saved versions of your cloud document. Hover over a cloud document version to see more options:

- Click the three dots (⋮) icon and select **Name this version** to give a name to the selected version.
- Click the **Mark version** (🔖) icon to save that version of your cloud document, and easily access your saved cloud document versions under the **Marked Versions** section at the top of the timeline panel.
- Click the Mark version icon again to remove a saved cloud document version from the Marked Versions section.

Revert to previous version of a cloud document



1. Hover over a cloud document version that is already named and click the three dots (•••) icon.
2. Select **Revert to this version** to revert to a previous version. When you open the same cloud document in Photoshop, you can see the reverted version and start working.

Also, you can use **Rename this version** to change the name of your previously named cloud document version.

Rename, delete, and move

Rename your cloud documents

Once you have accessed your cloud documents from within the Photoshop home screen on your **device (desktop or mobile)**, or on the **web** (assets.adobe.com), you can rename your cloud documents.

Tap the three dots (•••) icon visible below a cloud document thumbnail and select **Rename**. Simply type in a new name for your cloud document to rename it.

Delete your cloud documents

Open the three dots (•••) menu visible below a cloud document thumbnail on your **device (desktop or mobile)**, or on the **web** (assets.adobe.com) and select **Delete**.

The documents you delete from within the app or from the web, get archived and stored under the **Deleted** section in the app home screen or **Creative Cloud > Your work > Deleted**. Tap or click the three dots (•••) menu that appears below a cloud document in the **Deleted** section and choose to **Restore** or **Permanently Delete** your cloud document. You can find the restored cloud documents again under the **Cloud documents** section.

Cloud documents

Delete your cloud documents permanently to clear your cloud storage. To learn more about storage quota, see [File storage and quota](#).

Move and organize your cloud documents

iPad

Under the **Cloud documents** section in the app home screen, simply drag and place a cloud document to an available folder or create a folder (). You cannot multi-select your cloud documents while on the iPad.

Desktop

Tap the three dots () icon visible below the cloud document thumbnail and select **Move To**. In the panel that opens, you can select from available folders or use the **Add folder** () option to create a folder. Tap **Move** to place your selected cloud documents in a folder or **Cancel** to exit the move operation.

To move multiple cloud documents simultaneously, you can enable the check box below the **Cloud document** section to enter multi-select mode.

Web

Hover over a cloud document thumbnail and click the three dots () icon. Select **Move To** to move your cloud documents. In the **Move To** panel that opens, you can choose from available folders or use the **Add folder** () option to create a folder. Click **Move Here** to place your selected cloud documents in a folder or **Cancel** to exit the move operation.

To move multiple cloud documents simultaneously, you can enable the check box below the **Cloud document** section to enter multi-select mode.

Create a duplicate copy of a cloud document

iPad

Tap the three dots () icon visible below a cloud document thumbnail under **Cloud documents** in the app home screen. Select **Duplicate** to create a copy of your cloud document.

Desktop

You cannot **Duplicate** a cloud document while working with Photoshop on desktop.

Web

While you are on the web ([assets.adobe.com](#)), go to **Creative Cloud > Files > Your work > Cloud documents**. Tap the three dots () icon visible below the cloud document thumbnail and select **Copy** to create a copy of your selected cloud document.

Share a link to your creative work

While you are away from your iPad, desktop, or laptop, you can simply visit [assets.adobe.com](#) and login with your Adobe ID to access your creative work. On the web ([assets.adobe.com](#)), tap the three dots () icon visible below the cloud document thumbnail and select **Share** to generate a public link. Anyone with the link can view your creative work and post comments.

Get missing fonts in Photoshop on the iPad

In Photoshop on the iPad, not all fonts are available by default when you open a Photoshop cloud document.

You may see one of the following missing fonts dialogs:

- Replace Missing Fonts
- Transform With Missing Fonts

These dialogs appear when you use a font on your computer that is not installed or active on your iPad device. Learn how to install the missing fonts on your iPad device using the Creative Cloud for iOS app.

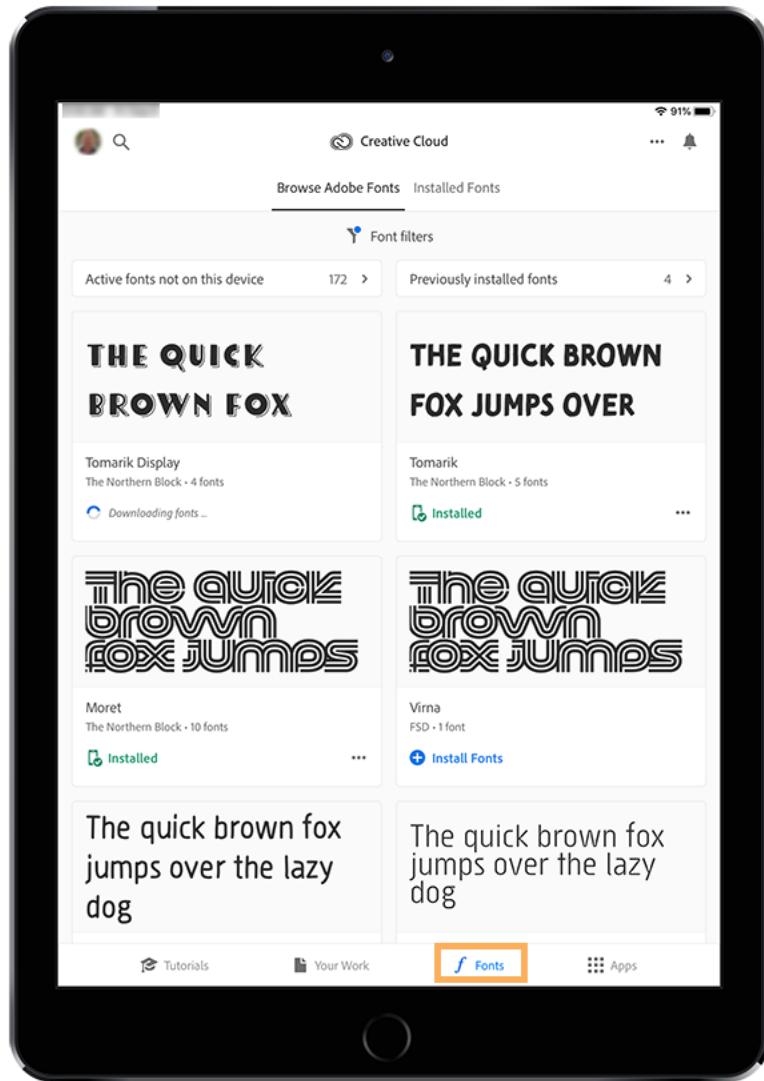
Before you begin

Update the iOS software on your iPad to the latest version. See [Update your iPhone, iPad, or iPod touch](#).

Download the Creative Cloud app to install fonts

After updating iOS software to the latest version, follow these steps:

1. On your iPad, download the [Creative Cloud for iOS app from the App Store](#).
2. Open the Creative Cloud app and sign in to your Adobe account.
3. In the Creative Cloud app, tap **Fon**ts at the bottom of the screen.



Tap Fonts in the Creative Cloud app

4. Under **Browse Adobe Fonts**, tap **Active Fonts Not On This Device**.

5. Tap **Install Fonts** to download the fonts on your iPad.

The installed fonts are now available for use in other apps on your iPad including Photoshop.

Upgrade cloud storage for Photoshop

All Creative Cloud plans come with cloud storage. This allows you to access your cloud documents across your devices, so you can create and share your files wherever you go. Read on to understand how you can upgrade and manage your cloud storage.

How much cloud storage am I entitled to?

Plan	Base cloud storage
Free trial	2 GB
Photography plan (20 GB) (Paid)	20 GB
Photography plan (1 TB) (Paid)	1 TB
Adobe Photoshop Single App (Paid)	100 GB
Adobe Creative Cloud All Apps (Paid)	100 GB

I have a free trial. How do I upgrade to a paid plan and get more cloud storage?

If you are using the free trial of Photoshop on the iPad, you are entitled to 2 GB of cloud storage. If you run out of storage and are enjoying your trial, simply [upgrade to a paid plan on Adobe.com](#) to receive a greater allotment of cloud storage.

I have a paid plan. Can I upgrade my cloud storage?

If you are a paid subscriber, you can upgrade your storage from [Adobe's upgrade storage](#) site.

How do I free up space from my cloud storage?

If you have reached your storage limit, you can either upgrade your storage or delete older projects to free up space.

- 1 From the Home screen of Photoshop on the iPad, go to the **Cloud documents** tab. Tap the three-dots icon(...) next to any of your documents, and then tap on **Delete**.
- 2 To permanently delete a document and free up space, navigate to the **Deleted** tab and tap the three-dots icon (...) next to the deleted document, then select the **Permanently Delete** option.

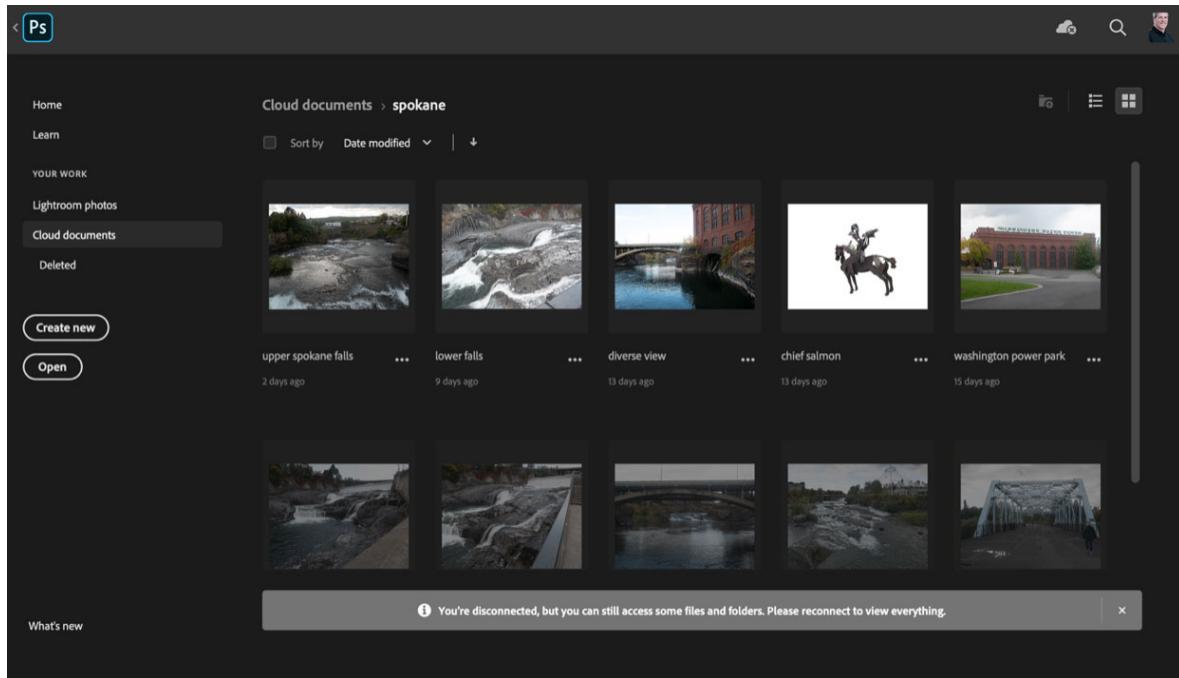
Solve Photoshop cloud document errors

Follow these steps to resolve errors when working with cloud documents.

networkError

Issue	Workaround
Network connection error - The cloud documents system has detected that your computer is either not connected to a network or the connection is intermittent. Normally this results in cloud documents falling back into offline mode.	You can determine if your computer is operating in offline mode by going to the <i>Home screen > Cloud Documents</i> and seeing if either the offline banner or cloud icon with x is displayed in this screen. If your computer is displaying the Cloud Document organizer in online mode and you are getting this error dialog from the application please follow the steps outlined here: Resolve connection errors

Cloud documents



noInternetConnection

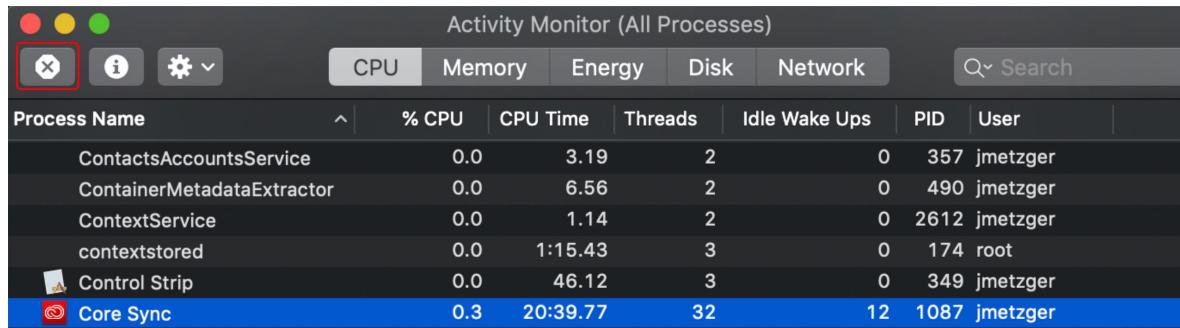
Issue	Workaround
No internet connection - The cloud documents system has detected that your computer is either not connected to a network or the connection is intermittent. Normally this results in cloud documents falling back into offline mode. In this case the application thinks you are trying to operate on a document that is online only.	If you are getting this error dialog from the application please follow the steps outlined here - you are getting this error dialog from the application please follow the steps outlined here: Resolve connection errors

operatingOnOnlineOnlyAssetWhileDeviceIsOffline

Issue	Workaround
Editing a cloud document while device is offline - The cloud documents system has detected that your computer is either not connected to a network or the connection is intermittent. Normally this results in cloud documents falling back into offline mode. In this case the application thinks you are trying to edit a document that is online only.	If you are getting this error dialog from the application please follow the steps outlined here - you are getting this error dialog from the application please follow the steps outlined here: Resolve connection errors

syncingFailed

Issue	Workaround
Syncing Failed - The application is attempting to synchronize changes either made locally back to the cloud or changes in the cloud back to the local computer. Due to either a non performing or disconnected internet connection it was not able to sync the changes.	<p>Please check your internet connection by following the steps outlined here: Resolve connection errors</p> <p>If you think the internet connection is fine and you still receive this error please try quitting Photoshop then stopping your coresync process (Either by using Activity Monitor on macOS or Task Manager on Windows).</p> <p>After stopping the coresync process, launch Photoshop and see if the error persists. If so, please Contact Adobe Customer Care.</p>



requestTimedOut

Issue	Workaround
Request Time Out - The cloud documents system is either not connected to the internet or the connection is intermittent.	<ol style="list-style-type: none"> 1 Retry the operation that failed. Sometimes the request fails due to slow internet connection. Retrying again will often succeed. 2 Please check your internet connection by following the steps outlined here: Resolve connection errors. 3 If you think the internet connection is fine and you still receive this error please try quitting Photoshop then stopping your coresync process (Either by using Activity Monitor on macOS or Task Manager on Windows). <p>After stopping the coresync process, launch Photoshop and see if the error persists. If so, please Contact Adobe Customer Care.</p>

userBlackListedPleaseContactSupport

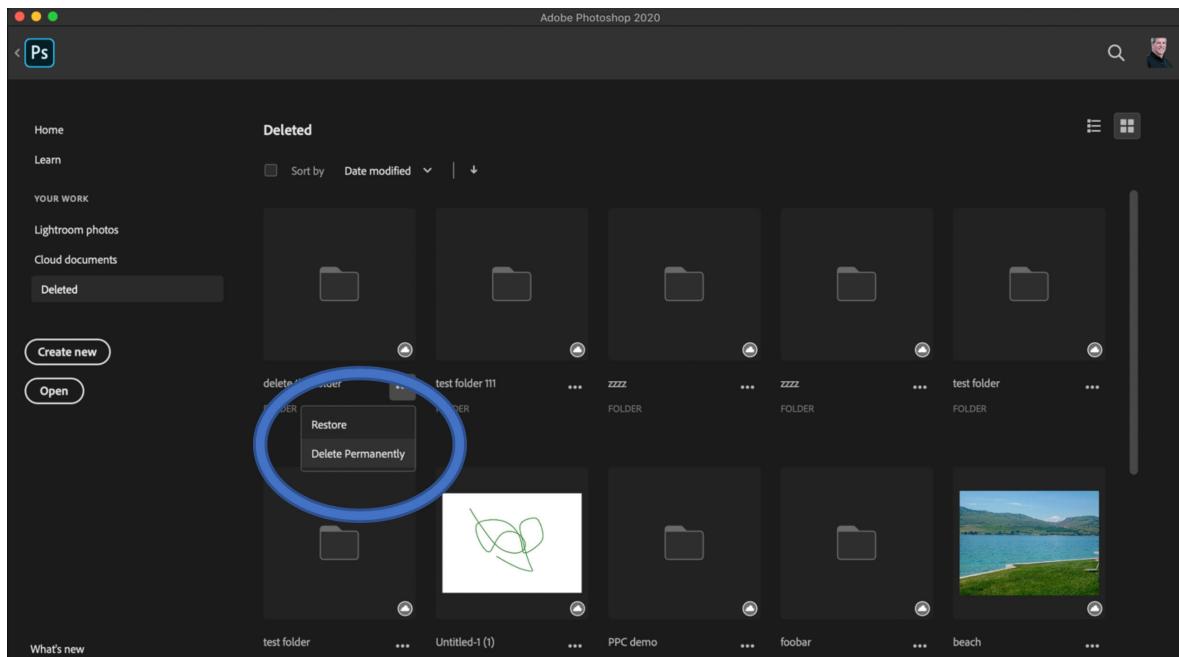
Issue	Workaround
User black listed – Adobe has suspended your account due to violation of the terms of service.	Please Contact Adobe Customer Care .

Cloud documents**genericRetriableError**

Issue	Workaround
An unknown error has occurred.	Please retry and see if it succeeds. If you continue to get this failure, quit and restart Photoshop. If it continues, rebooting your computer may be required.

fullCloudStorage

Issue	Workaround
Your cloud storage is full.	You can free space by permanently deleting documents several ways. In the Home Screen > Cloud Documents > Deleted location, select one or multiple documents to delete permanently. Note: Deleting from the Cloud documents location of the home screen just moves them into your deleted folder. You must permanently delete them (from the deleted area) in order to free up storage space.

**loggedInUserLimitExceeded**

Issue	Workaround
Activation limit reached - Adobe has determined that you have exceeded the maximum sign-ins/activations allowed to Creative Cloud.	To get to an acceptable number of sign-ins/activations please follow the steps outlined here: Creative Cloud "Activation limit reached" or "Sign-in failed" error

outOfBounds

Issue	Workaround
Out of bounds - You've exceeded the number of items allowed in a single folder.	Delete or move items into another folder in order to access them.

cannotPerformOpWhenAssetNotInSync

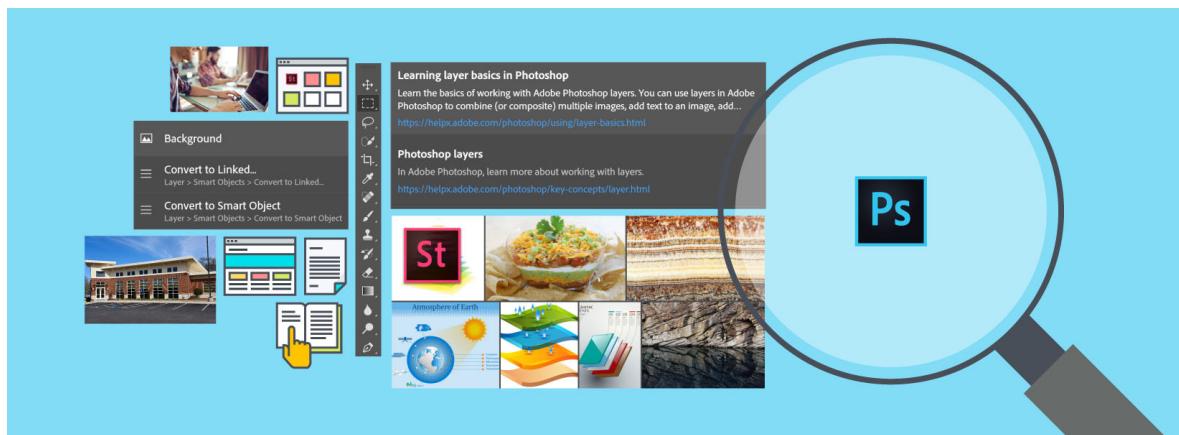
Issue	Workaround
The operation you are trying to perform can not be started when a document is in the middle of syncing changes to or from the cloud.	Please wait for the sync operation to complete then try it again. Sync operations will vary in time based on the size of the document and network performance.

conflictOfSamePathOrName

Issue	Workaround
Naming conflict - Two documents can not have the same name in the same folder.	In the case of 1 item temporarily having the same name as another, the system will rename one of the documents to a unique name. Once the rename is complete the cloud documents system will refresh to show the unique name and you can try your operation again. This situation happens only when 1 document is in the cloud and the other is a locally synced document.

Chapter 5: Workspace

Photoshop search

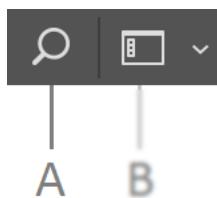


Photoshop features powerful search functionality that lets you search across UI elements, documents, Help & learning content, inspiring Stock assets, and much more—all from within a unified dialog. You can search for items right after launching Photoshop or when one or more documents are open. The in-app search experience also lets you find, filter, sort, and import your Lightroom photos into Photoshop.

Begin searching

In Photoshop, do any of the following:

- Select **Edit > Search**.
- Use the **Cmd/Ctrl+F** keyboard shortcut.
- At initial launch, click the Search icon (🔍) in the right extremity of the Options bar, to the left of the Workspace Switcher icon.



*Search icon in the Options bar
A Search icon B Workspace switcher*

Note:

In earlier releases of Photoshop, Cmd/Ctrl+F used to be the keyboard shortcut for reapplying the last-used filter. Beginning the 2017 release of Photoshop CC, it invokes the Photoshop search experience.

To set a different keyboard shortcut for reapplying the last-used filter, see [Customize keyboard shortcuts](#).

Scope of search

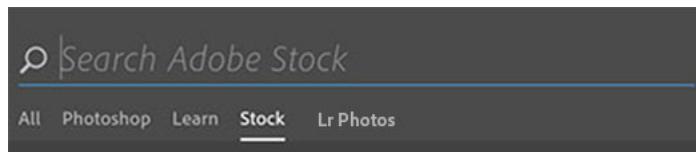
Using the Photoshop search functionality, you can find items across the following:

- UI elements
 - Tools
 - Panels, including the Styles panel
 - Menu items
 - New document presets
 - Open documents
 - Recent files
 - Layers
 - Smart objects
- Help & learning content; documentation and instructional tutorials
- Stock assets
- Your Lightroom photos

Note:

- The search scope does not currently include library elements and individual styles.
- The search scope shows menu items that are disabled too.

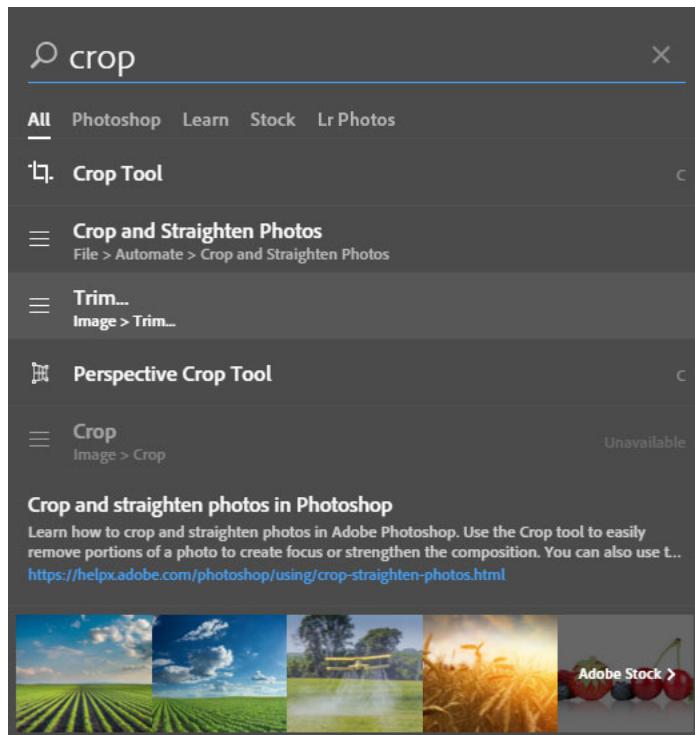
Search interface



Search tabs

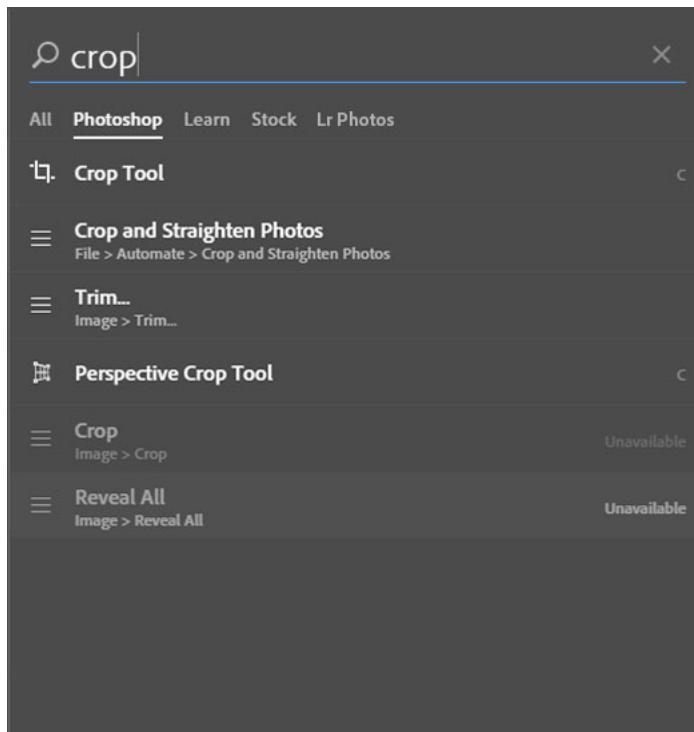
Photoshop organizes search results into the following tabs:

All: Displays, in order, Photoshop UI elements, Help & Learn content, and Adobe Stock assets

Workspace

Photoshop search | All tab

Photoshop: Displays only results from the Photoshop UI: tools, commands, panels, presets, open documents, layers, etc.

Workspace*Photoshop search | Photoshop tab*

Learn: Displays Photoshop Help/documentation & learning content relevant to the keywords.

Photoshop search | Learn tab

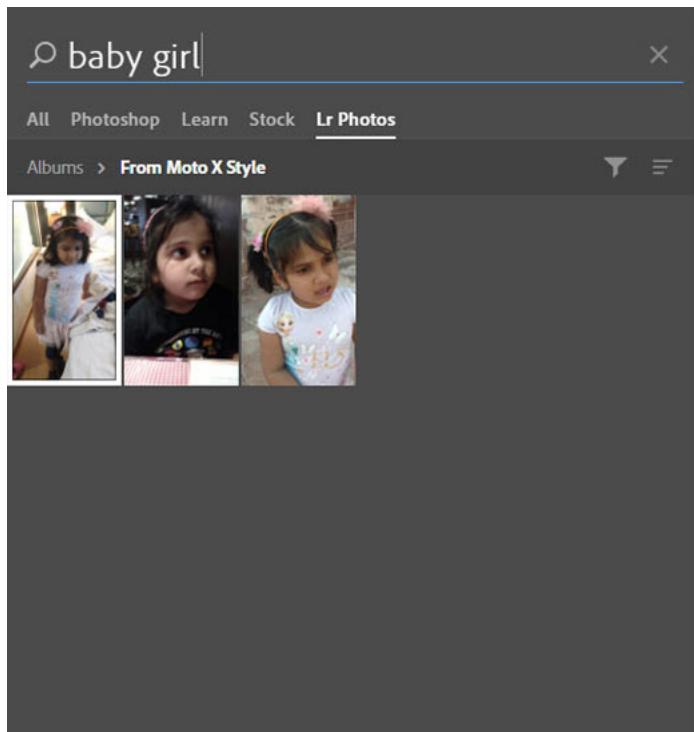
Workspace

Stock: Displays Adobe Stock images relevant to the keywords. The search experience minimizes the number of clicks required to add a Stock image to your project. Stock images here include photographs and vector graphics.



Photoshop search | Stock tab

Lightroom Lets you find, filter, sort, and import Lightroom photos matching the search keywords into Photoshop.



Work with your Lightroom photos in Photoshop

Note:

To dismiss the Search dialog, press Esc or Cmd+F. Alternatively, click any Photoshop UI element outside the Search dialog.

Visual canvas search

You can find similar images in Adobe Stock based on your canvas selection.

Default behaviors with search results

When you click a search result, Photoshop performs the default operation associated with its type:

Layer: Selects the layer and makes it visible in the Layers panel

Tool: Activates the tool and highlights it in the UI

Panel: Makes the panel visible and active; highlights and opens it

Menu command: Runs that command; search results may also include disabled menu commands

Recent file: Opens the file

Open document: Makes the document active

Help or Learn topics: Opens the topic in a new browser window

Stock asset: Downloads the image asset and adds it to your active Creative Cloud library. For licensed assets full resolution images are added, while for unlicensed assets watermarked previews are added. It also gets placed as a cloud-linked asset on the canvas.

Use the Touch Bar with Photoshop

Photoshop supports Touch Bar, the multitouch display at the top of the new MacBook Pro keyboard. Using the Touch Bar, you can access Photoshop features and controls right in the context of your current task on the main screen. The Touch Bar supports familiar gestures, such as tap, drag, and slide.

Touch Bar support in Photoshop is currently a technology preview feature.

Note:

For more information about Touch Bar fundamentals, see this [Apple documentation page](#).

Touch Bar interface

By default, a part of the Touch Bar interface is reserved for macOS system controls. Controls for Photoshop are displayed in the app-specific area in the middle of the Touch Bar interface.



*Default Touch Bar interface
A Photoshop controls B macOS system controls (Control Strip and Esc)*

Note:

If necessary, you can configure the Touch Bar to display only app-specific controls. In this configuration, the middle and right parts of the Touch Bar interface (B on the right + A) display Photoshop controls. To do so, in the macOS System Preferences > Keyboard dialog, select **Touch Bar Shows: App Controls**.

Touch Bar modes in Photoshop

Tap the icon in the Touch Bar to choose one of the three available modes:

Layer Properties () Default mode; lets you work with Layer properties and related functions

Brushes () Lets you work with Brush and paint properties

Favorites () Customizable mode to which you can add your favorite controls

Context-sensitive operations

In addition to the commands available in the three modes, several context-specific operations become available depending on what you're working on in Photoshop.

- When a modal tool, such as Text or Transform is active, the Touch Bar displays **OK** and **Cancel**.

- When the Select & Mask taskspace is active, the Touch Bar displays controls related to making selections.

Photoshop controls in the Touch Bar

Default Mode Using the History panel	Icon	Control name	Description
All three		History Scrubber	<p>Works much like the History panel in Photoshop. Use this control to jump to any recent state of the document created during the current session. Each time you apply a change to the document, a new document state is added.</p> <p>Tap the History Scrubber icon to view thumbnails representing document states. Scroll through or tap the thumbnails to navigate the document history.</p> <p>For related useful information, see Using the History panel.</p>
Layer Properties		Add Content	<p>Imports a file into the currently-open document using the Place Embedded command. See Place files.</p>
	Layer Visibility and Opacity	<p>Adjusts the layer opacity and visibility.</p> <ul style="list-style-type: none"> Use the slider to adjust layer opacity (0-100%). The buttons at either end of the slider decrease or increase the value by a preset amount. Tap the icon to hide the layer altogether. <p>You can use this command by tapping or by simply pressing and holding over the tap gesture. The changes you make in the Touch Bar reflect instantaneously in the Layers panel.</p>	
	Blend Mode	Lets you scroll through the available blending modes— <i>Normal, Dissolve, Darken</i> , etc—and select the one you want. For more information, see Blending modes .	
	Clipping Mask	Makes a layer a clipping mask or reverts it from that state. For related information, see Reveal layers with clipping masks .	

Workspace

	Select & Mask	Launches the Select And Mask workspace .	
Brushes		Color	<p>Displays a color picker for the foreground color. The first 16 swatches are displayed by default.</p> <ul style="list-style-type: none"> Long-press any swatch to get hues. Click the  icon to make finer adjustments by individually adjusting hue, saturation, and brightness (HSB).
	Brush Size	<p>Controls the size of the current brush. This command is active when a brush allowing for multiple sizes is selected.</p> <p>For more information about brush options, see:</p> <ul style="list-style-type: none"> Painting tools Create and modify brushes 	
	Brush Hardness	Controls the hardness of the current brush. This command is active when a brush that allows multiple hardness values is selected.	
	Brush Opacity	Controls the opacity of the current brush. This command is active when a brush that supports opacity is selected.	
	Brush Flow	Controls the flow of the current brush. This command is active when a brush that supports flow is selected.	
Favorites		Screen Mode	Toggles between the normal screen mode and full screen mode
	New Layer	Invokes the New Layer command	
	Flip Vertical	Flips the contents of the current set of selected layers vertically	
	Flip Horizontal	Flips the contents of the current set of selected layers horizontally	

None by default*		Fill Mode	Invokes the Fill command with the Content-Aware Fill option preselected. For more information, see Use Content-aware, pattern, or history fills .
	Duplicate Layer	Duplicates the currently-selected layer	
	Share	Shares a preview of the current document state in the JPEG format. The maximum shareable size is 1024 x 1024 px.	

* You can add these controls to the Touch Bar modes by [Customize the Touch Bar modes](#).

Customize the Touch Bar modes

Preferences

Photoshop provides three settings for the Touch Bar under **Preferences > Technology Previews**. These settings are enabled by default.

Enable Touch Bar Enables/disables the Touch Bar while working in Photoshop

Show Touch Bar Property Adjustments Shows/hides the informational pop-up windows displayed when you modify properties, such as Brush Size, using the Touch Bar

Add and delete commands from the Touch Bar

You can add and delete commands to any of the three Touch Bar modes in Photoshop. Follow these steps:

- 1 Select the Touch Bar mode to which you want to add or remove items: **Layer Properties**, **Brushes**, or **Favorites**.
- 2 In Photoshop, select **View > Customize Touch Bar**.

Photoshop invokes the standard macOS interface for customizing the Touch Bar. For more information about this interface, see "Customize your Touch Bar" on this [Apple documentation page](#).

- 3 Drag commands down into the Touch Bar, toward the bottom edge of your MacBook Pro's main display. You can also drag commands within the Touch Bar to arrange them, or drag them up and out of the Touch Bar to remove them.

When you're modifying the Touch Bar, the icon (Space) indicates an empty slot where you can add a command.



Customize the Touch Bar; this illustration shows the Favorites mode in Photoshop

Note:

- Select **Show Typing Suggestions** if you want to see autocomplete suggestions while entering or editing certain text related inputs, such as layer names.
 - To restore a mode layout to its default state, drag the **Default Set** strip down onto the Touch Bar while that mode is enabled.
- 4** When you've finished making changes, click **Done**.
macOS takes you back to Photoshop.

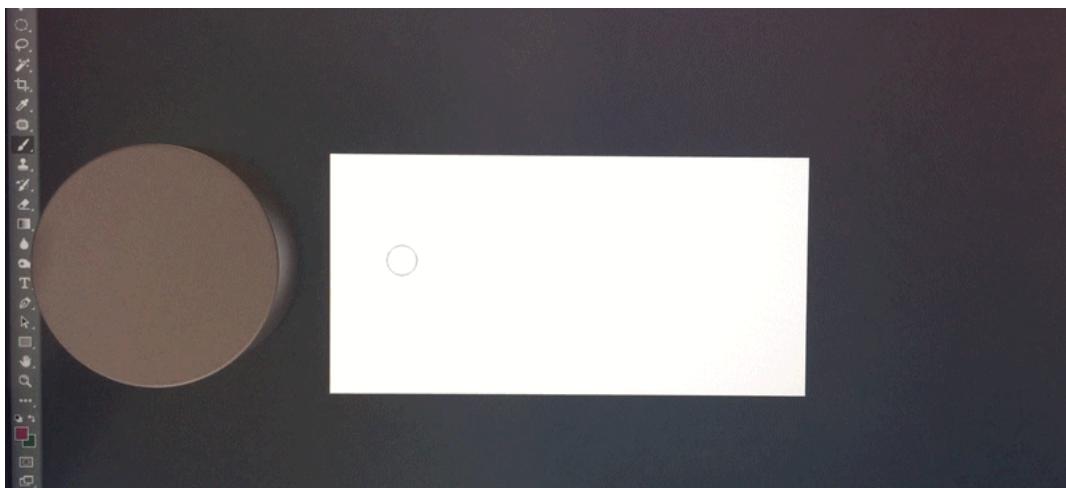
Microsoft Dial support in Photoshop

Note:

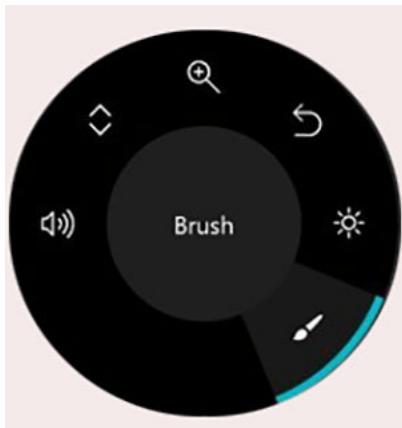
See [this Microsoft documentation page](#) for an introduction to the Surface Dial.

Using the Surface Dial with Photoshop, you can adjust tool settings without ever looking away from the canvas. Use the Dial to adjust size, opacity, hardness, flow, and smoothing for all brush-like tools. Using the **Control** option, you can also rotate the dial to make dynamic adjustments to settings while a brush stroke is in progress.

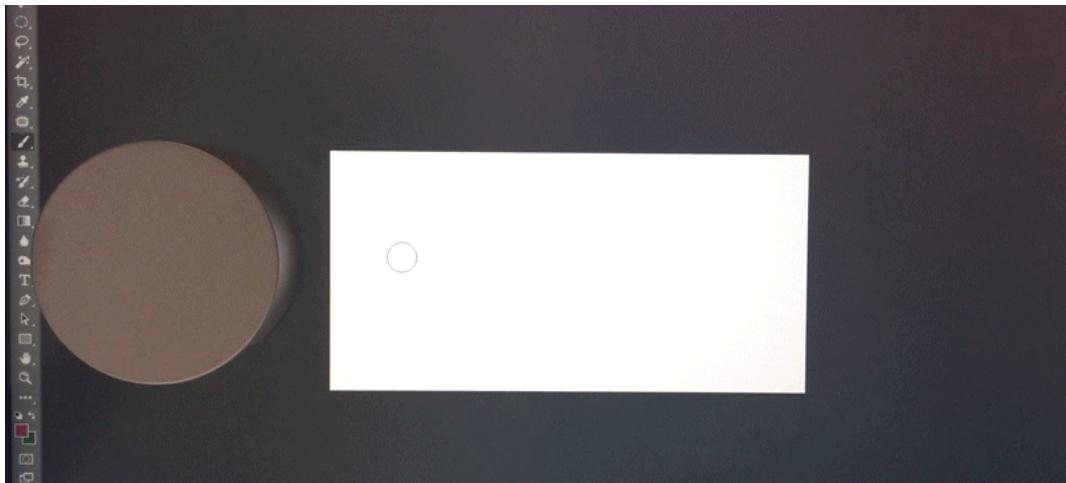
Photoshop supports the Surface Dial on bluetooth-enabled computers running Windows 10 Fall Creator's release (version 1709) and later versions.



- 1** In the Surface Dial home interface, rotate to select the brush icon and then press the dial.



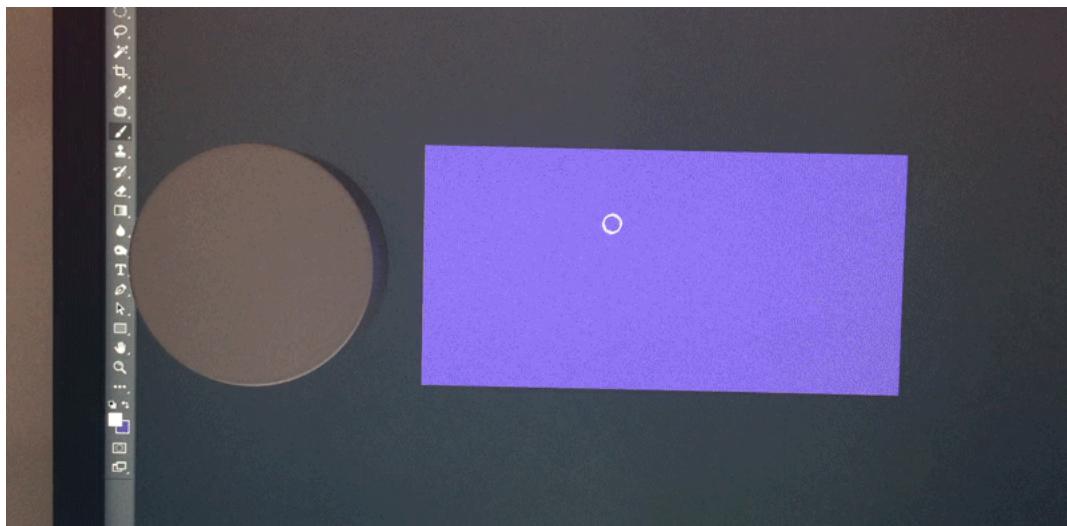
- 2 Rotate the dial to choose a setting, such as **Size** or **Opacity**. Press to enter the adjustment mode.



- 3 Adjust the setting in one of these ways:

Normal adjustment (Rotate the dial) Adjusts the setting in increments proportionate to the current value. For example, if you're working with a brush sized 5, rotating the dial increases the brush size to 6. Instead, if you're working with a brush sized 200, the size increases by a larger increment to 220.

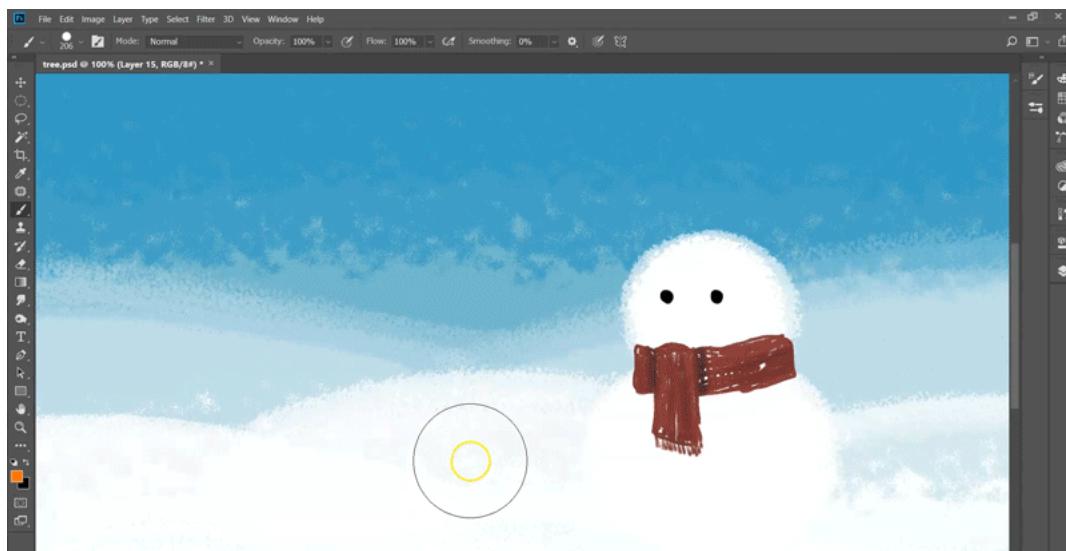
Fine adjustment (Press the dial and then rotate) Adjusts the setting by finer increments even at high values. For example, even for a large-sized brush, the size increases in smaller increments than normal adjustment.

Workspace

- 4** Tap/release the dial to commit your change to the setting.

Make dynamic adjustments

For several settings for brush-like tools, in the Brush Settings panel, you can set the **Control** option to **Dial**. Once this step is complete, you can make dynamic adjustments to that setting using the Dial while a brush stroke is in progress.



Dynamically adjust settings

- 1 In the **Brush Settings** panel, set the **Control** option to **Dial** for the desired setting. For example, set **Control** to **Dial** for the **Shape Dynamics > Size Jitter** setting.
- 2 While making a brush stroke, rotate the Dial to dynamically adjust the setting.

Note:

You can rotate the dial to vary the brush size to a maximum of the currently-selected brush size. For example, if you're working with a 24-px-sized brush, rotating the dial varies the brush size between 0-24 px. No changes are visible on the canvas when you draw with a zero-sized brush.

Workspace

Tool galleries

When you start Photoshop, the Tools panel appears at the left of the screen. Some tools in the Tools panel have options that appear in the context-sensitive options bar.

You can expand some tools to show hidden tools beneath them. A small triangle at the lower right of the tool icon signals the presence of hidden tools.

You can view information about any tool by positioning the pointer over it. The name of the tool appears in a tooltip below the pointer.



Some workspaces shipped with Photoshop CC 2015 customize the toolbar. When you switch to one of such workspaces, some tools may seem missing from the toolbar. See [Tools missing from the toolbar](#) to learn how to resolve this issue.

Note:

In Photoshop CS6, some tools were available as part of Photoshop Extended. All features in the erstwhile Photoshop Extended offering are now part of Photoshop. Photoshop does not have a separate Extended offering.

Tools Panel Overview

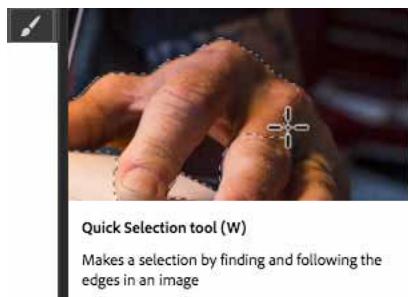
**Note:**

If you're looking for general information on how to use tools in Photoshop, see [Use tools](#)

Rich tooltips

Figuring out what Photoshop tools do is now easier than ever before! When you hover the pointer over certain tools in the Tools panel, Photoshop displays a description and a short video of the tool in action.

You can choose not to view rich tooltips. To do so, deselect the **Preferences > Tools > Use Rich Tooltips** preference.



Rich tooltip: Quick Selection tool



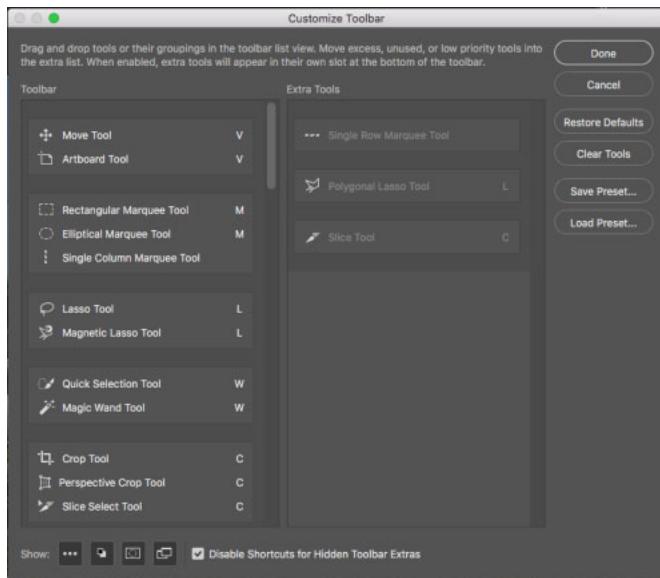
Rich tooltip: Crop tool

Customize the toolbar

You can customize the Photoshop toolbar to organize tools in a group and do much more.

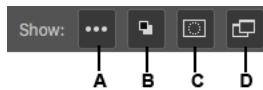
- ? Do one of the following:
 - Select **Edit > Toolbar**
 - Long press , located at the bottom of the toolbar and then select **Edit Toolbar**.

Workspace



The Customize Toolbar dialog

- ? In the **Customize Toolbar** dialog box, do one or more the following:
 - Drag and drop tools and/or groups to re-organize the toolbar.
 - Move excess, unused, or low priority tools to **Extra Tools**.
 - To access extra tools, long press  at the bottom of the toolbar.
 - To save the custom toolbar, click **Save Preset**.
 - To open a previously saved custom toolbar, click **Load Preset**.
 - To restore the default toolbar, click **Restore Defaults**.
 - To move all the tools to **Extra Tools**, click **Clear Tools**.
 - Select the non-tool widgets to show/hide them at the bottom of the toolbar.



A Show/Hide Extra Tools | B Show/Hide Foreground/Background Colors | C Show/Hide Quick Mask Mode | D Show/Hide Screen Mode

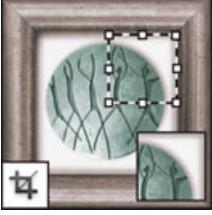
Tool galleries

- Selection tools gallery

Workspace

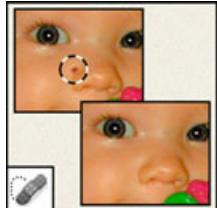
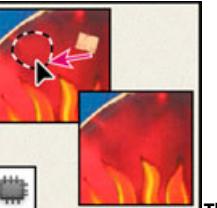
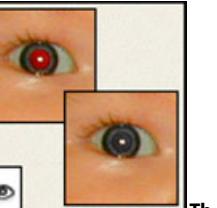
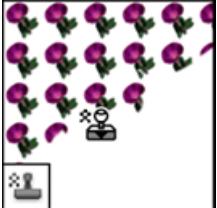
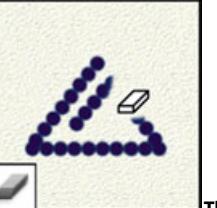
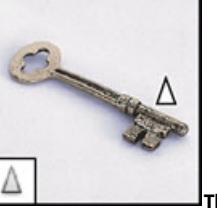
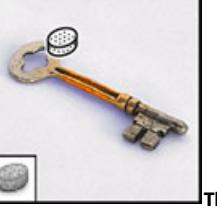
 Th	 Th	 Th	 Th
<p>e Marquee tools make rectangular, elliptical, single row, and single column selections.</p>	<p>e Move tool moves selections, layers, and guides.</p>	<p>e Lasso tools make freehand, polygonal (straight-edged), and magnetic (snap-to) selections.</p>	<p>e Quick Selection tool lets you quickly "paint" a selection using an adjustable round brush tip.</p>

- **Crop and slice tools gallery**

 The Crop tool trims images.	 The Slice tool creates slices.	 The Select tool selects slices.
---	--	---

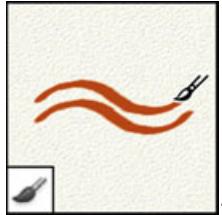
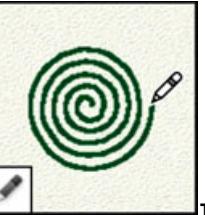
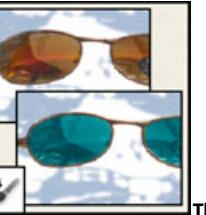
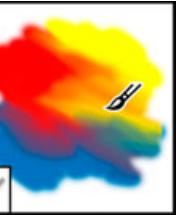
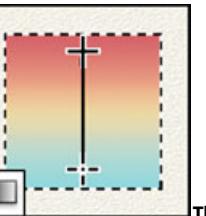
- **Retouching tools gallery**

Workspace

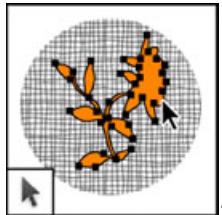
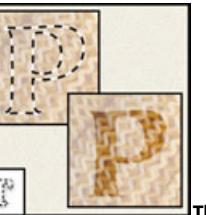
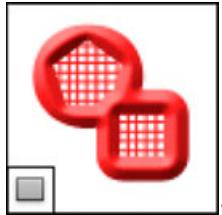
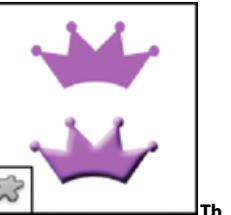
 <p>e Spot Healing Brush tool removes blemishes and objects.</p>	 <p>e Healing Brush tool paints with a sample or pattern to repair imperfections in a image.</p>	 <p>e Patch tool repairs imperfections in a selected area of an image using a sample or pattern.</p>	 <p>e Red Eye tool removes the red reflection caused by a flash.</p>
 <p>e Clone Stamp tool paints with a sample of an image.</p>	 <p>e Pattern Stamp tool paints with part of an image as a pattern.</p>	 <p>e Eraser tool erases pixels and restores parts of an image to a previously saved state.</p>	 <p>e Background Eraser tool erases areas to transparency by dragging.</p>
 <p>e Magic Eraser tool erases solid-colored areas to transparency with a single click.</p>	 <p>e Blur tool blurs hard edges in an image.</p>	 <p>e Sharpen tool sharpens soft edges in an image.</p>	 <p>e Smudge tool smudges data in an image.</p>
 <p>e Dodge tool lightens areas in an image.</p>	 <p>e Burn tool darkens areas in an image.</p>	 <p>e Sponge tool changes the color saturation of an area.</p>	

- **Painting tools gallery**

Workspace

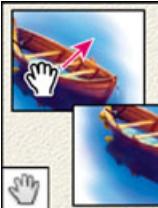
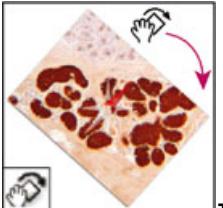
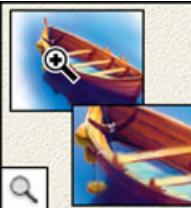
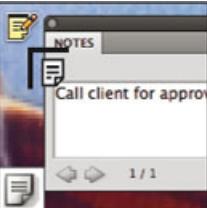
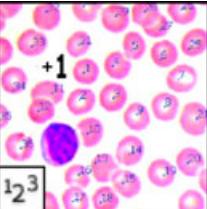
 <p>e Brush tool paints brush strokes.</p>	 <p>e Pencil tool paints hard-edged strokes.</p>	 <p>e Color Replacement tool replaces a selected color with a new color.</p>	 <p>e Mixer Brush tool Simulates realistic painting techniques such as blending canvas colors and varying paint wetness.</p>
 <p>e History Brush tool paints a copy of the selected state or snapshot into the current image window.</p>	 <p>e Art History Brush tool paints with stylized strokes that simulate the look of different paint styles, using a selected state or snapshot.</p>	 <p>e gradient tools create straight-line, radial, angle, reflected, and diamond blends between colors.</p>	 <p>e Paint Bucket tool fills similarly colored areas with the foreground color.</p>

- Drawing and type tools gallery

 <p>e path selection tools make shape or segment selections showing anchor points, direction lines, and direction points.</p>	 <p>e type tools create type on an image.</p>	 <p>e type mask tools create a selection in the shape of type.</p>	 <p>e pen tools let you draw smooth-edged paths.</p>
 <p>e shape tools and Line tool draw shapes and lines in a normal layer or a shape layer.</p>	 <p>e Custom Shape tool makes customized shapes selected from a custom shape list.</p>		

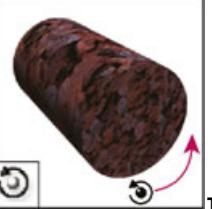
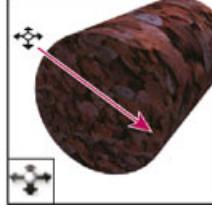
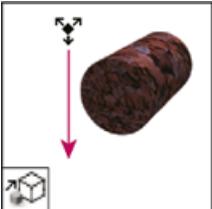
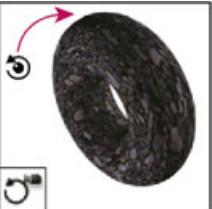
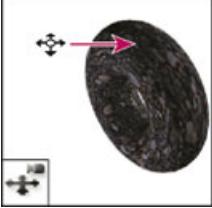
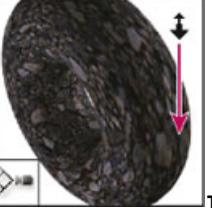
- Navigation, notes, and measuring tools gallery

Workspace

 e Hand tool moves an image within its window.	 e Rotate View tool non-destructively rotates the canvas.	 e Zoom tool magnifies and reduces the view of an image.	 e Note tool makes notes that can be attached to an image.
 e Eyedropper tool samples colors in an image.	 e Color Sampler tool displays color values for up to four areas.	 e Ruler tool measures distances, locations, and angles.	 e Count tool counts objects in an image.

- 3D tools gallery

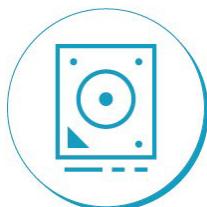
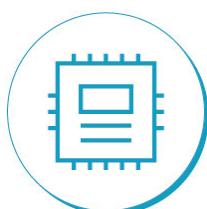
Workspace

 <p>e 3D Object Rotate tool rotates the object around its x-axis.</p>	 <p>e 3D Object Roll tool rotates the object around its z-axis.</p>	 <p>e 3D Object Pan tool pans the object in the x or y direction.</p>	 <p>e 3D Object Slide tool moves the object laterally when you drag horizontally, or forward and back when you drag vertically.</p>
 <p>e 3D Object Scale tool scales the object larger or smaller.</p>	 <p>e 3D Rotate Camera tool orbits the camera in the x or y direction.</p>	 <p>e 3D Roll Camera tool rotates the camera around the z-axis.</p>	 <p>e 3D Pan Camera tool pans the camera in the x or y direction.</p>
 <p>e 3D Walk Camera tool moves laterally when you drag horizontally, or forward and back when you drag vertically.</p>	 <p>e 3D Zoom Camera tool changes the field of view closer or farther away.</p>		

Performance preferences

[Adjust the allocated memory](#)

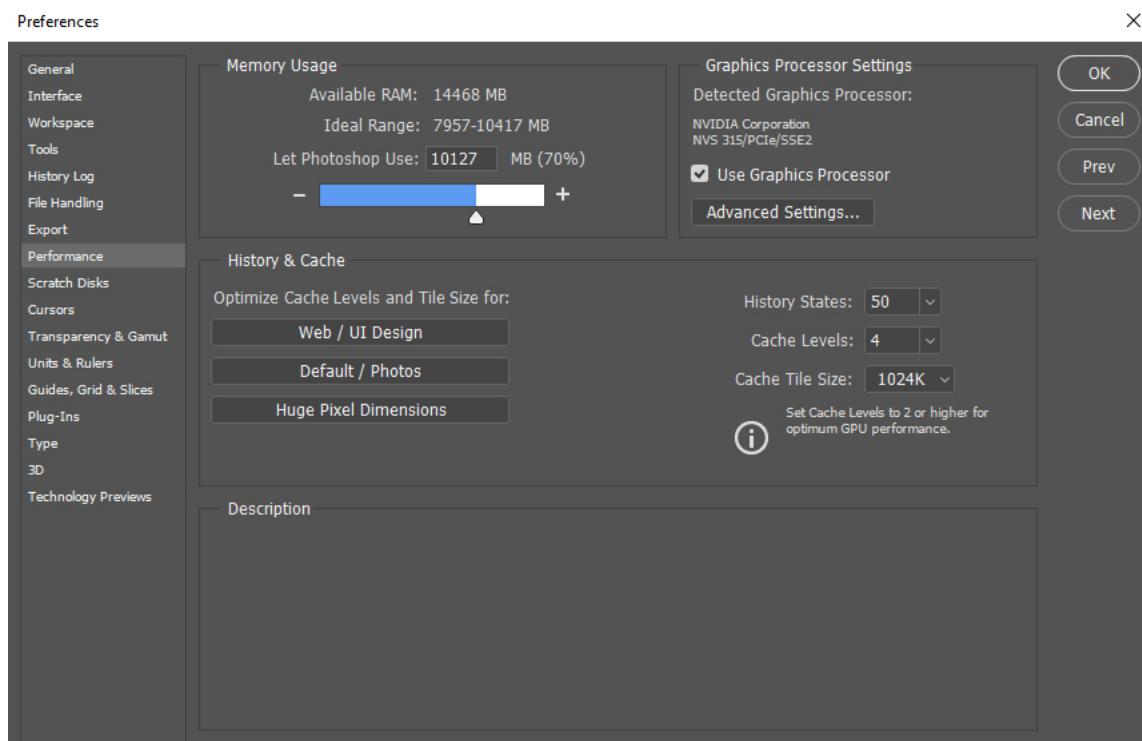


Workspace**Limit history states****Manage scratch disks****The Efficiency indicator****Adjust cache levels****Set GPU settings****Recovery and background save options**

Photoshop provides a set of preferences (**Preferences > Performance**) to help you make optimum use of your computer's resources, such as memory, cache, graphics processor, displays, etc. Depending on your primary use case for using Photoshop and the types of documents you generally work with, different combinations of these settings may suit you.

Workspace

Additional settings such as [Scratch Disks](#), available on other tabs of the Preferences dialog, may also directly impact your computer's running speed and stability.



Performance preferences in Photoshop

Adjust the memory allocated to Photoshop

You can improve performance by increasing the amount of memory/RAM allocated to Photoshop. The **Memory Usage** area of the **Performance** preferences screen ([Preferences > Performance](#)) tells you how much RAM is available to Photoshop. It also shows the ideal Photoshop memory allocation range for your system. By default, Photoshop uses 70% of available RAM.

- 1 Increase the RAM allocated to Photoshop by changing the value in the **Let Photoshop Use** box. Alternatively, adjust the Memory Usage slider.
- 2 Restart Photoshop to enable your changes.

To find the ideal RAM allocation for your system, change it in 5% increments and monitor performance in the Efficiency indicator. See [Keep an eye on the Efficiency indicator](#).

We don't recommend allocating more than 85% of your computer's memory to Photoshop. Doing so may affect performance by leaving no memory for other essential system applications.

Note:

If you experience out-of-RAM or out-of-memory errors in Photoshop, try increasing the amount of RAM allocated to Photoshop. However, setting the RAM allocation for Photoshop too high (>85%) could affect the performance of other running applications, making your system unstable.

The best solution to this issue is to add more RAM to your computer.

Adjust cache levels

Cache basics

Photoshop uses image caching to speed up the redrawing of high-resolution documents while you're working on them. You can specify up to eight levels of cached image data and choose one of the four available cache tile sizes.

Increasing cache levels improves Photoshop's responsiveness while you work, although images may take longer to load. The cache tile size determines the amount of data on which Photoshop operates at a time. Bigger tile sizes speed up complex operations, such as sharpening filters. Smaller changes, such as brush strokes, are more responsive with smaller tile sizes.

Cache presets

Three cache presets are available in the Performance preferences. Choose the one that matches your primary use case/purpose of using Photoshop:

- **Web/UI Design:** Choose this option if you use Photoshop primarily for web, app, or screen design. This option is appropriate for documents having numerous layers of low-to-medium pixel dimension assets.
- **Default/Photos:** Choose this option if you use Photoshop primarily to retouch or edit moderate-sized images. For example, use this option if you normally edit photos originating from your mobile or digital camera in Photoshop.
- **Huge Pixel Dimensions:** Choose this option if you work extensively with heavy documents in Photoshop; for example, panoramas, matte paintings, etc.

Cache levels

For finer control, specify cache levels manually; the default value is 4.

- If you use relatively small files—roughly 1 megapixel or 1280 by 1024 pixels—and many layers (50 or more), set Cache Levels to 1 or 2. Setting Cache Levels to 1 disables image caching; only the current screen image is cached.
- If you use files with larger pixel dimensions—say, 50 megapixels or larger—set Cache Levels higher than 4. Higher cache levels speed up redrawing.

Note:

You may not get high-quality results with some Photoshop features if you set Cache Levels to 1.

Limit history states

You can save scratch disk space and improve performance by limiting or reducing the number of history states Photoshop saves in the History panel. The amount of space you save varies depending on how many pixels an operation changes. For example, a history state based on a small paint stroke or a non-destructive operation, such as creating or modifying an adjustment layer, consumes little space. Applying a filter to an entire image, on the other hand, consumes much more space.

Photoshop can save up to 1,000 history states; the default number is 20. To reduce that number, go to the Performance preference dialog box, choose **History & Cache > History States**. In the History States pop-up menu, if necessary, drag the setting to a lower value.

Set graphics processor (GPU) settings

The best way to optimize GPU acceleration, which speeds up screen redraws, is to keep your video adapter driver up to date. For more information about GPU acceleration and instructions on updating video adapter drivers, see [Photoshop GPU and video card FAQ](#).

[Link](#)Turning on OpenCL, a technology that lets applications use the GPU, is likely to improve performance if you use these Photoshop features:

- Video Panorama
- Blur Gallery (Iris, Field, and Tilt-shift Blur)

To turn on OpenCL, in the Performance Preferences panel, click **Advanced Settings** and select **Use OpenCL**.

GPU preferences

Photoshop provides you with dedicated GPU settings in both the Performance and 3D sections in the Preferences dialog.

Settings in the Preferences > Performance section

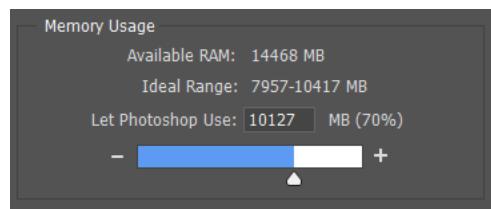
If a suitable video card is installed on your system, it will appear in the GPU Settings area of the Performance section.

- To enable GPU acceleration, make sure that the Enable OpenGL Drawing option is selected.
- To fine-tune the card's performance, click the Advanced Settings button and select Basic, Normal, or Advanced, matching the option with your requirements.
 - Basic—Uses the least amount of GPU memory to run the most basic OpenGL features when sharing the GPU with other applications or when experiencing slow responsiveness. Select this option if you have other programs running that also use the GPU or if you notice bad screen redraws or slower performance when using GPU-accelerated features.
 - Normal—Is the default setting. It uses a large amount of GPU memory to support advanced OpenGL features and should be selected if you regularly use the GPU-accelerated features in Photoshop.
 - Advanced—Uses the same amount of memory as the Normal mode, but enables more advanced features to improve drawing performance. This setting is best when working in 3D or when working extensively with the GPU-accelerated features.

Note: Mode changes take effect only after Photoshop is restarted.

Settings in the Preferences > 3D section

The 3D section of the Performances dialog box contains a VRAM slider similar to the memory control located in the Performance section. Use the slider to determine the upper limit of the video RAM (VRAM) available to the Photoshop 3D engine. The total value is a percentage of the overall VRAM available. A setting of 100% will still reserve a portion of the overall VRAM for use with the operating system. Higher values will help with overall 3D performance but may compete with other GPU-enabled applications.



3D: Memory usage

Manage scratch disks

A scratch disk is a disk drive or SSD used for temporary storage while Photoshop is running. Photoshop uses this space to store portions of your documents and their history panel states that don't fit in the RAM memory. Scratch files go into invisible OS-specified folders, except for non-boot volumes on Windows, at the root directory of the drive. When a non-boot drive is used as a scratch disk, the temporary files are placed in the drive's root directory.

By default, Photoshop uses the hard drive on which the operating system is installed as the primary scratch disk.

To learn more about managing scratch disk preferences, recommended settings, and troubleshooting, see [Set up scratch disks](#).

See also

- [Photoshop system requirements](#)
- [Optimize Photoshop performance](#)
- [Basic troubleshooting steps to fix most issues](#)
- [Troubleshoot Photoshop graphics processor \(GPU\) and graphics driver issues](#)
- [Photoshop plug-ins troubleshooting](#)
- [Photoshop lags, freezes, or runs slowly](#)

Use tools

When you start Photoshop, the Tools panel appears at the left of the screen. Some tools in the Tools panel have options that appear in the context-sensitive options bar.

You can expand some tools to show hidden tools beneath them. A small triangle at the lower right of the tool icon signals the presence of hidden tools.

You can view information about any tool by positioning the pointer over it. The name of the tool appears in a tool tip below the pointer.

For a pictorial overview of the different tools in Photoshop, see [Tool galleries](#).

Explore Photoshop Mix on your iPad and iPhone



Workspace

With Photoshop Mix, you can perform non-destructive photo enhancements, make selections, cut out and mix images, and do much more right from your iPhone or iPad.

[Read more and download Photoshop Mix.](#)

Select and display tools

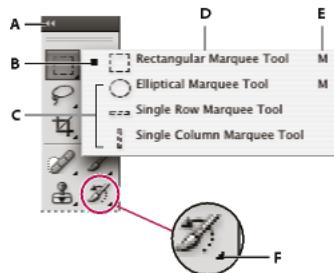
Select a tool

? Do one of the following:

- Click a tool in the Tools panel. If there is a small triangle at a tool's lower right corner, hold down the mouse button to view the hidden tools. Then click the tool you want to select.
- Press the tool's keyboard shortcut. The keyboard shortcut is displayed in its tool tip. For example, you can select the Move tool by pressing V.



Pressing and holding a keyboard shortcut key lets you temporarily switch to a tool. When you let go of the shortcut key, Photoshop returns to the tool you were using before the temporary switch.



Accessing tools

A Tools panel B Active tool C Hidden tools D Tool name E Tool shortcut F Hidden tool triangle

Cycle through hidden tools

By default, you cycle through a set of hidden tools by holding down Shift and repeatedly pressing a tool shortcut key.

If you prefer to cycle through tools without holding down Shift, you can disable this preference.

- 1 Choose Edit > Preferences > General (Windows) or Photoshop > Preferences > General (Mac OS).
- 2 Deselect Use Shift Key For Tool Switch.

Change tool pointers

Each default pointer has a different hotspot, where an effect or action in the image begins. With most tools, you can switch to precise cursors, which appear as cross hairs centered around the hotspot.

In most cases, the pointer for a tool is the same as the icon for that tool; you see that pointer when you select the tool. The default pointer for the marquee tools is the cross-hair pointer +; for the text tool, the default pointer is the I-beam I; and for the painting tools, the default pointer is the Brush Size icon.

1 Choose Edit > Preferences > Cursors (Windows) or choose Photoshop > Preferences > Cursors (Mac OS).

2 Choose tool pointer settings under Painting Cursors or Other Cursors:

Standard Displays pointers as tool icons.

Precise Displays pointers as cross hairs.

Normal Brush Tip The pointer outline corresponds to approximately 50% of the area that the tool will affect. This option shows the pixels that would be most visibly affected.

Full Size Brush Tip The pointer outline corresponds to nearly 100% of the area that the tool will affect, or nearly all the pixels that would be affected.

Show Crosshair In Brush Tip Displays cross hairs in the center of the brush shape.

Show Only Crosshair While Painting Improves performance with large brushes.

3 Click OK.

The Painting Cursors options control the pointers for the following tools:

Eraser, Pencil, Paintbrush, Healing Brush, Clone Stamp, Pattern Stamp, Quick Selection, Smudge, Blur, Sharpen, Dodge, Burn, and Sponge

The Other Cursors options control the pointers for the following tools:

Marquee, Lasso, Polygonal Lasso, Magic Wand, Crop, Slice, Patch, Eyedropper, Pen, Gradient, Line, Paint Bucket, Magnetic Lasso, Magnetic Pen, Freeform Pen, Measure, and Color Sampler



To toggle between standard and precise cursors in some tool pointers, press Caps Lock.

Visually resize or change hardness of painting cursors

You can resize or change the hardness of a painting cursor by dragging in the image. As you drag, the painting cursor previews your changes. (Previews require OpenGL.)

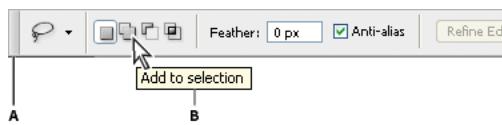
? To resize a cursor, press Alt+right-click (Windows) or Control+Option (Mac OS), and drag left or right. To change hardness, drag up or down.

Use the options bar

The options bar appears below the menu bar at the top of the workspace. The options bar is context sensitive—it changes as you select different tools. Some settings in the options bar (such as painting modes and opacity) are common to several tools, and some are specific to one tool.

You can move the options bar in the workspace by using the gripper bar, and you can dock it at the top or bottom of the screen. Tool tips appear when you position the pointer over a tool. To show or hide the options bar, choose Window > Options.

Workspace



*Lasso options bar
A Gripper bar B Tool tip*

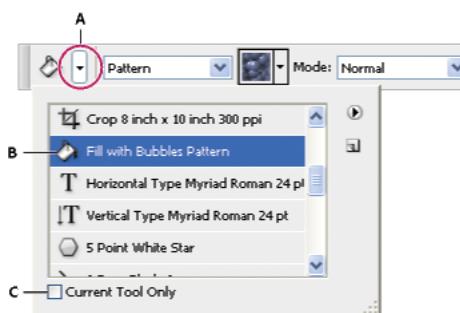
To return tools to their default settings, right-click (Windows) or Control-click (Mac OS) the tool icon in the options bar, and then choose Reset Tool or Reset All Tools from the context menu.

For more information on setting options for a specific tool, search for the tool's name in Photoshop Help.

Tool presets

Tool presets let you save and reuse tool settings. You can load, edit, and create libraries of tool presets using the Tool Preset picker in the options bar, the Tool Presets panel, and the Preset Manager.

To choose a tool preset, click the Tool Preset picker in the options bar, and select a preset from the pop-up panel. You can also choose Window > Tool Presets and select a preset in the Tools Presets panel.



Viewing the Tool Preset picker

A Click the Tool Preset picker in the options bar to show the Tool Preset pop-up panel. B Select a preset to change the tool's options to the preset, which applies each time you select the tool until you choose Reset Tool from the panel menu. C Deselect to show all tool presets; select to show presets for only the tool selected in the toolbox.

Create a tool preset

- 1 Choose a tool, and set the options you want to save as a tool preset in the options bar.
- 2 Do one of the following:
 - Click the Tool Preset button next to the tool at the left of the options bar.
 - Choose Window > Tool Presets to display the Tool Presets panel.
- 3 Do one of the following:
 - Click the Create New Tool Preset button .
 - Choose New Tool Preset from the panel menu.
- 4 Enter a name for the tool preset, and click OK.

Change the list of tool presets

- ? Click the triangle to open the Tool Presets pop-up panel menu and choose one of the following:

Show All Tool Presets Shows all loaded presets.

Sort By Tool Sorts the presets by tool.

Show Current Tool Presets Shows only the loaded presets for the active tool. You can also select the Current Tool Only option in the Tool Presets pop-up panel.

Text Only, Small List, or Large List Determines how presets are displayed in the pop-up panel.

Note:

To create, load, and manage libraries of tool presets, see [Work with the Preset Manager](#).

Touch gestures

Touch Gestures have been enabled in the 2014 release of Photoshop CC for Windows 8 systems. Photoshop recognizes its custom gestures on any multi-touch enabled digitizer attached to the system, including direct touch displays and external tablets. Custom Photoshop gestures are not recognized on the touchpad pointing device provided with many laptop systems. You can control Photoshop using devices which support two or more simultaneous touch points.

In Photoshop, two-fingered touch gestures are used to control the location, rotation, and scaling of the image canvas view. Users may alternate between touch view control and other interactions using the mouse or stylus, but touch may not be used simultaneously with other input. Touch control of the view is very convenient when painting on large monitors which are difficult to rotate physically and on tablets to avoid constantly shifting the device.

General considerations

- Photoshop constrains the freedom to view changes based on the motion at the beginning of the gesture so the user can control different aspects of the view independently.
 - When the user moves both touch points in parallel, the view pans without rotating or scaling.
 - When the initial motion is a pinch, scaling and pan will occur.
 - Rotation of touch points about a relatively motionless center enables rotation and pan but with no scaling.
 - Finally, by pinching and rotating at first, all three aspects may be adjusted. As a convenience, this latter free-transform gesture mode can also be chosen by simply holding initial touch points motionless for a moment.
- As expected, when not in the full-screen mode, Photoshop does not pan a canvas view that is smaller than its document window. To pan windowed views with touch, first use pinch to scale the view until it intersects a window edge. In full-screen mode, all view transforms are always available.
- The two-fingered double tap can be used to reset the image canvas view to show the entire canvas. A second two-fingered double tap will restore the user's previously selected view.

Gestures currently supported

See [Touch capabilities and customizable workspaces](#).

Technology previews

Photoshop ships with technology preview features that you can try out. These features may not be completely production-ready yet, so exercise discretion while using them.

Enable/disable a technology preview feature

- 1 Select Preferences > Technology Previews.

- 2 Select/deselect the option for the technology preview feature. For example, select **Preserve Details 2.0 Upscale**.
- 3 Click **OK**.

Preserve Details 2.0 Upscale

Default state: **On**

Photoshop now features artificial intelligence-assisted upscaling to preserve important details and textures while resizing images without introducing distortions. In addition to skin tones and hair textures, this feature preserves harder-edged details like text and logos. Try it on soups, salads, pizza, and any other subjects that need that extra dash of texture preservation.



Artificial intelligence-assisted upscale (left) versus legacy resizing (right)

Metadata and notes

About metadata

Metadata is a set of standardized information about a file, such as author name, resolution, color space, copyright, and keywords applied to it. For example, most digital cameras attach some basic information to an image file, such as height, width, file format, and time the image was taken. You can use metadata to streamline your workflow and organize your files.

About the XMP standard

Metadata information is stored using the Extensible Metadata Platform (XMP) standard, on which Adobe Bridge, Adobe Illustrator, Adobe InDesign, and Adobe Photoshop are built. Adjustments made to images with Photoshop® Camera Raw are stored as XMP metadata. XMP is built on XML, and in most cases the metadata is stored in the file. If it isn't possible to store the information in the file, metadata is stored in a separate file called a sidecar file. XMP facilitates the exchange of metadata between Adobe applications and across publishing workflows. For example, you can save metadata from one file as a template, and then import the metadata into other files.

Metadata that is stored in other formats, such as Exif, IPTC (IIM), GPS, and TIFF, is synchronized and described with XMP so that it can be more easily viewed and managed. Other applications and features also use XMP to communicate and store information such as version comments, which you can search using Adobe Bridge.

In most cases, the metadata remains with the file even when the file format changes (for example, from PSD to JPG). Metadata also remains when files are placed in an Adobe document or project.



If you're a C++ or Java developer, use the XMP Toolkit SDK to customize the processing and exchange of metadata. If you're an Adobe Flash or Flex developer, use the XMP File Info SDK to customize the File Info dialog box. For more information, visit the Adobe website.

Work with metadata in Adobe Bridge and Adobe Creative Suite components

Many of the powerful Adobe Bridge features that allow you to organize, search, and keep track of your files and versions depend on XMP metadata in your files. Adobe Bridge provides two ways of working with metadata: through the Metadata panel and through the **File Info** dialog box.

In some cases, multiple views exist for the same metadata property. For example, a property may be labeled Author in one view and Creator in another, but both refer to the same underlying property. Even if you customize these views for specific workflows, they remain standardized through XMP.

Notes

You can attach notes to an image in Photoshop. This is useful for associating review comments, production notes, or other information with the image. Notes appear as small non-printable icons on the image. They are associated with a location on the image rather than with a layer. You can hide or show notes, or open notes to view or edit their contents.

Add notes

You can add notes anywhere on your Photoshop image canvas. When you create a note, an icon appears on the image.

1 Select the Note tool in the toolbox. (If the tool isn't visible, hold down the Eyedropper.)

2 In the Options bar, enter or specify the following as needed:

Author Specifies the note author's name.

Color Selects the color for the note icon. Clicking the color box opens the Adobe Color Picker so you can select a color.

3 Click where you want to place the note.

4 The cursor will automatically be active

Show or hide notes

To show or hide notes, do one of the following:

- Choose View > Show > Notes.

- Choose View > Extras. This command also shows or hides grids, guides, selection edges, target paths, and slices.

Open and edit notes

- Using the Note tool, double-click the note icon in the image. The text editing area appears in the Notes panel.
- Choose Window > Notes to display the Notes panel, and click the back and forward arrows to toggle through all notes in the active image.

Import notes from a flattened PDF version of a multilayer image

When you open a PDF file, Photoshop automatically imports any notes it contains. You may want to import notes separately, however, if they were added to a flattened PDF version of a multilayer image. This approach lets reviewers who lack Photoshop provide comments, while letting you view comments in the context of the multilayer design.

- Choose File > Import > Notes.
- Select a PDF or FDF file that contains notes, and then click Load.

The annotations appear in the locations where they were saved in the source document.

Delete notes

- ? Select the Note tool, and then do either of the following:
- To delete an individual note, click it in the image, and then click the Delete Note icon  in the Notes panel.
 - To delete all notes, click **Clear All** in the options bar.

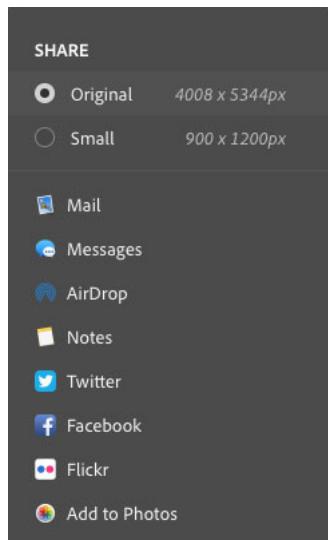
Quickly share your creations

You can now email or share your creations to several services directly from within Photoshop. When you share a document by email, Photoshop sends out the original document (.psd file). For certain services and social media channels, Photoshop automatically converts the document to the JPEG format before sharing.

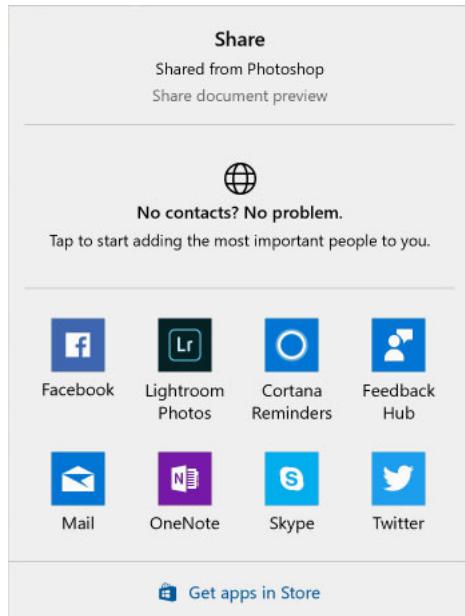
Do the following:

- In Photoshop, select **File > Share**. Alternatively, click the  icon in the options bar.
- In the Share panel, choose whether you want to share the full-sized asset or a smaller version of it. If you choose to share the smaller version, Photoshop scales down the document such that its longer edge is 1200 px long. The other edge is scaled down proportionately.
- Click the service using which you want to share the asset. For example, click Facebook.
- For some services, you may be able to specify additional details. For example, while posting an image on Facebook, you're able to enter a "What's on your mind?" description for the image.
- Follow the onscreen instructions to share the asset.

Workspace



Sharing options on macOS



Sharing options on Windows

Note:

Your operating system preferences determine the actual list of services appearing in the Share panel. You can tweak these preferences. For example, on macOS, add/remove services to the Share panel by tweaking **System Preferences > Extensions > Share Menu**. See [this Apple documentation page](#) for more information.

Place Photoshop images in other applications

Photoshop provides a number of features to help you use images in other applications. Because of the tight integration between Adobe products, many Adobe applications can directly import Photoshop (PSD) format files and use Photoshop features like layers, layer styles, masks, transparency, and effects.

Prepare images for page-layout programs

How you prepare an image for a page-layout program depends upon the file formats the program recognizes:

- Adobe InDesign 2.0 and later can place Photoshop PSD files. You do not need to save or export your Photoshop image to a different file format. Transparent areas are displayed and printed as expected.
- Most other page-layout programs require you to save the image as a TIFF or EPS file. However, if the image contains fully transparent areas, you must first define those areas using a clipping path. Check the documentation for your page-layout program to determine the best format for importing Photoshop images.

If the page-layout program cannot place Photoshop PSD files, follow these steps:

- 1 If your image contains a transparent background or areas that you want to be transparent, create a clipping path around the opaque areas of the image. Even if you have deleted the background around the image, you must define the area with a clipping path before converting the file to TIFF or EPS format. Otherwise, areas that are transparent may appear as white in the page-layout program.
- 2 Choose File > Save As.
- 3 In the **Save As** dialog box, choose the appropriate format from the Format menu. The format you choose depends on the final output for the document. For printing to non-PostScript printers, choose TIFF. For printing to PostScript printers, choose Photoshop EPS. Then click Save.
- 4 In the TIFF Options or EPS Options dialog box, set the following options. Leave any remaining options at their default settings, and click OK.
 - TIFF Options dialog box: set Image Compression to None.
 - EPS Options dialog box (Windows): set Preview to TIFF (8 bits/pixel) and Encoding to ASCII85.
 - EPS Options dialog box (Mac OS): set Preview to Mac (8 bits/pixel) and Encoding to ASCII85.



If the layout program displays transparent areas as white, try printing the document. Some layout programs do not display clipping paths properly but print them as expected.

Use Photoshop artwork in Adobe Illustrator

Adobe Illustrator can both open or place Photoshop files; you do not need to save or export your Photoshop image to a different file format. If you place an image into an open Illustrator file, you can incorporate the image as if it were any other element in the artwork, or you can maintain a link to the original file. Although you can't edit a linked image within Illustrator, you can jump back to Photoshop, using the Edit Original command, to revise it. Once saved, any changes you make are reflected in the version in Illustrator.

- 1 If the image file is open in Photoshop, save it as a Photoshop (PSD) file, and close the file.
- 2 In Adobe Illustrator, do one of the following:
 - To open the file directly in Illustrator, choose File > Open. Locate the image in the Open File dialog box, and click Open.

- To incorporate the image into an existing Illustrator file, choose File > Place. Locate the file in the Place dialog box, make sure the Link option is not selected, and click Place.
 - To place the image into a file but maintain a link to the original, choose File > Place. In the Place dialog box, locate the file, select the Link option, and click Place. Illustrator centers the image in the open illustration. A red X through the image indicates it is linked and not editable.
- 3** If you opened or placed the image without linking, the Photoshop Import dialog box appears. Choose the appropriate option as follows, and click OK:
- Convert Photoshop Layers To Objects to convert the layers to Illustrator objects. This option preserves masks, blending modes, transparency, and (optionally) slices and image maps. However, it does not support Photoshop adjustment layers and layer effects.
 - Flatten Photoshop Layers To A Single Image to merge all the layers into a single layer. This option preserves the look of the image, but you can no longer edit individual layers.

Create transparency using image clipping paths

You can use image clipping paths to define transparent areas in images you place in page-layout applications. In addition, Mac OS users can embed Photoshop images in many word-processor files.

You may want to use only part of a Photoshop image when printing it or placing it in another application. For example, you may want to use a foreground object and exclude the background. An *image clipping path* lets you isolate the foreground object and make everything else transparent when the image is printed or placed in another application.

Note:

Paths are vector-based; therefore, they have hard edges. You cannot preserve the softness of a feathered edge, such as in a shadow, when creating an image clipping path.



Image imported into Illustrator or InDesign without image clipping path (left), and with image clipping path (right)

- 1** Draw a work path that defines the area of the image you want to show.



If you've already selected the area of the image you want to show, you can convert the selection to a work path. See [Convert a selection to a path](#) for instructions.

- 2** In the Paths panel, save the work path as a path.
- 3** Choose Clipping Path from the Paths panel menu, set the following options, and click OK:
- For Path, choose the path you want to save.

- For Flatness, leave the flatness value blank to print the image using the printer's default value. If you experience printing errors, enter a flatness value to determine how the PostScript interpreter approximates the curve. The lower the flatness value, the greater the number of straight lines used to draw the curve and the more accurate the curve. Values can range from 0.2 to 100. In general, a flatness setting from 8 to 10 is recommended for high-resolution printing (1200 dpi to 2400 dpi), and a setting from 1 to 3 for low-resolution printing (300 dpi to 600 dpi).
- 4** If you plan to print the file using process colors, convert the file to CMYK mode.
- 5** Save the file by doing one of the following:
- To print the file using a PostScript printer, save in Photoshop EPS, DCS, or PDF format.
 - To print the file using a non-PostScript printer, save in TIFF format and export to Adobe InDesign, or to Adobe PageMaker® 5.0 or later.

Print image clipping paths

Sometimes an imagesetter cannot interpret image clipping paths, or an image clipping path is too complex for a printer, resulting in a Limitcheck error or a general PostScript error. Sometimes you can print a complex path on a low-resolution printer without difficulty but run into problems when printing the same path on a high-resolution printer. This is because the lower-resolution printer simplifies the path, using fewer line segments to describe curves than the high-resolution printer does.

You can simplify an image clipping path in the following ways:

- Manually reduce the number of anchor points on the path.
- Increase the tolerance setting used to create the path. To do this, load the existing path as a selection, choose Make Work Path from the Paths panel menu, and increase the tolerance setting (4 to 6 pixels is a good starting value). Then re-create the image clipping path.

Export paths to Adobe Illustrator

The Paths To Illustrator command lets you export Photoshop paths as Adobe Illustrator files. Exporting paths in this way simplifies the task of combining Photoshop and Illustrator artwork or using Photoshop features with Illustrator artwork. For example, you may want to export a pen tool path and stroke it to use as a trap with a Photoshop clipping path you are printing in Illustrator. You can also use this feature to align Illustrator text or objects with Photoshop paths.

- 1** Draw and save a path or convert an existing selection into a path.
- 2** Choose File > Export > Paths To Illustrator.
- 3** Choose a location for the exported path, and enter a filename. Make sure Work Path is chosen from the Path menu to export the path.
- 4** Click Save.
- 5** Open the file in Adobe Illustrator. You can manipulate the path or use the path to align Illustrator objects that you add to the file.

Note that the crop marks in Adobe Illustrator reflect the dimensions of the Photoshop image. The position of the path within the Photoshop image is maintained, provided you don't change the crop marks or move the path.

Link or embed an image using OLE (Windows only)

Photoshop is an OLE 2.0 server, which means it supports embedding or linking an image in an OLE container application (usually a word-processing or page-layout program). For example, you can insert Photoshop files and selections into other OLE applications, such as Adobe PageMaker, Adobe FrameMaker, and Microsoft Word, using copy and paste or other methods.

- Linking lets you place a link in the OLE container file that refers to the Photoshop file on the hard drive.
- Embedding lets you insert the Photoshop file into the OLE container file.

After the image is in the container application, you can double-click it for editing in Photoshop. When you close the image in Photoshop, it is updated in the container application.

Link or embed a selection or image in an OLE application

? Do one of the following:

- Copy a selection in Photoshop, and insert it in your OLE container application using the application's Paste Special command. Refer to your word-processing or page-layout application documentation for more instructions. Pasted selections can only be embedded, not linked.
- Use your OLE container application's Insert Object command to insert a new Photoshop image or existing Photoshop file as an OLE-embedded or OLE-linked object. Refer to your word-processing or page-layout application documentation for instructions.

Insert an unlinked screen-resolution bitmap into an OLE application

? With the Move tool , drag a selection to the OLE container application. When you drop the object, it appears as a 72-ppi bitmap, which cannot be automatically updated in Photoshop.

Modify and update a linked or embedded image in an OLE application

- 1 Double-click the linked or embedded image in your word-processing or page-layout application to start Photoshop (if it is not already running), and open the image for editing.
- 2 Modify the image as desired.
- 3 Do one of the following:
 - For embedded images, close the file, or choose File > Update or File > Close & Return to [application name].
 - For linked images, save and close the file.

Note:

You can also modify linked files without first opening the container document. The linked image is updated the next time you open the document in its OLE container application.

Preferences

About preferences

In order for Photoshop to run as smoothly as possible, in a way that's customized for your particular workflow, you need to set up your Preferences to your liking.

Numerous program settings are stored in the Adobe Photoshop Prefs file, including general display options, file-saving options, performance options, cursor options, transparency options, type options, and options for plug-ins and scratch disks. Most of these options are set in the Preferences dialog box. Preference settings are saved each time you quit the application.

Unexpected behavior may indicate damaged preferences. If you suspect damage to preferences, restore preferences to their default settings.



Detailed information about specific preference settings appears in task-specific topics. For example, search Help for “Transparency preferences” to see those settings discussed in the context of related features such as layers.

Adjust preferences in Photoshop

Open a preferences dialog box

- 1 Do one of the following:
 - (Windows) Choose Edit > Preferences and choose the desired preference set from the submenu.
 - (Mac OS) Choose Photoshop > Preferences, and then choose the desired preference set from the submenu.
- 2 To switch to a different preference set, do one of the following:
 - Choose the preference set from the menu at the left of the dialog box.
 - Click Next to display the next preference set in the list; click Prev to display the previous set.

Reset Photoshop preferences

For information on a specific preference option, search Help.[Link](#)

Video

To manually restore preferences to default:

- Find the preference file that you want to reset and move it to another location. When you restart Photoshop, a new preference file will be created in the original location. See [Preference file functions, names, and locations](#).

To restore preferences quickly using a keyboard shortcut:

- Press and hold Alt+Control+Shift (Windows) or Option+Command+Shift (Mac OS) as you start Photoshop. You are prompted to delete the current settings. The new preferences files are created the next time you start Photoshop.

Note: Using the keyboard shortcut, preference files for custom shortcuts, workspaces, and color settings will also be reset to default.

Disable and enable warning messages

Sometimes you will see messages containing warnings or prompts. You can suppress the display of these messages by selecting the Don't Show Again option in the message. You can also globally redisplay all messages that have been suppressed.

- 1 Do one of the following:
 - (Windows) Choose Edit > Preferences > General.
 - (Mac OS) Choose Photoshop > Preferences > General.

- 2 Click Reset All Warning Dialogs, and click OK.

Performance-related preferences

See [Performance preferences](#).

Default keyboard shortcuts

Notes:

- You can customize the keyboard shortcuts in Photoshop on the desktop. See [Customize keyboard shortcuts](#).
- You can view, edit, and summarize keyboard shortcuts in the Keyboard Shortcuts dialog box. To view this in Photoshop, select **Edit > Keyboard Shortcuts** or use the following keyboard shortcuts:
 - Alt + Shift + Control + K (Windows)
 - Alt + Shift + Command + K (macOS)
- On newer MacBook Pro models, the Touch Bar replaces the function keys on top of the keyboard. See [this Apple documentation article](#) to understand how to use the function keys on these models.

Popular shortcuts

Result	Windows	macOS
Free Transform	Control + T	Command + T
Toggle between painting and erasing with the same brush tip	Hold down ~ (tilde key)	Hold down ~ (tilde key)
Decrease Brush Size	[[
Increase Brush Size]]
Decrease Brush Hardness	{	{
Increase Brush Hardness	}	}
Rotate the brush tip by 1 degree	Left Arrow (anti-clockwise), Right Arrow (clockwise)	Left Arrow (anti-clockwise), Right Arrow (clockwise)
Rotate the brush tip by 15 degrees	Shift + Left Arrow (anti-clockwise), Shift + Right Arrow (clockwise)	Shift + Left Arrow (anti-clockwise), Shift + Right Arrow (clockwise)
Default Foreground/Background colors	D	D
Switch Foreground/Background colors	X	X
Fit layer(s) to screen	Alt-click layer	Option-click layer
New layer via copy	Control + J	Command + J
New layer via cut	Shift + Control + J	Shift + Command + J
Add to a selection	Any selection tool + Shift-drag	Any selection tool + Shift-drag
Delete brush or swatch	Alt-click brush or swatch	Option-click brush or swatch
Toggle auto-select with the move tool	Control-click	Command-click
Close all open documents other than the current document	Ctrl + Alt + P	Command + Option + P

Workspace

Cancel any modal dialog window (including the Start Workspace)	Escape	Escape
Select the first edit field of the toolbar	Enter	Return
Navigate between fields	Tab	Tab
Navigate between fields in the opposite direction	Tab + Shift	Tab + Shift
Change Cancel to Reset	Alt	Option

Invoke the search experience

Result	Windows	macOS
Search across Photoshop UI, Help & Learn content, and Adobe Stock assets. For more information, see Photoshop search .	Control + F	Command + F

Use function keys**Note:**

For macOS, press and hold the Fn key along with the function key (F1-F12) to override default macOS functions such as screen brightness, volume, etc. For more information on the behavior of function keys on your Mac, refer to these Apple documentations:

- [macOS Catalina: Use keyboard function keys](#)
- [Change the behavior of function keys on your Mac](#)

Result	Windows	macOS
Start Help	F1	Help key
Undo/Redo		F1
Cut	F2	F2
Copy	F3	F3
Paste	F4	F4
Show/Hide Brush panel	F5	F5
Show/Hide Color panel	F6	F6
Show/Hide Layers panel	F7	F7
Show/Hide Info panel	F8	F8
Show/Hide Actions panel	F9	Option + F9
Revert	F12	F12
Fill	Shift + F5	Shift + F5
Feather Selection	Shift + F6	Shift + F6
Inverse Selection	Shift + F7	Shift + F7

Select tools

Holding down a key temporarily activates a tool. Letting go of the key returns to the previous tool.

Workspace**Note:**

In rows with multiple tools, repeatedly press the same shortcut to toggle through the group.

Result	Windows	macOS
Cycle through tools with the same shortcut key	Shift-press shortcut key (if Use Shift Key for Tool Switch preference is selected)	Shift-press shortcut key (if Use Shift Key for Tool Switch preference is selected)
Cycle through hidden tools	Alt-click + tool (except Add Anchor Point, Delete Anchor Point, and Convert Point tools)	Option-click + tool (except Add Anchor Point, Delete Anchor Point, and Convert Point tools)
Move tool	V	V
Rectangular Marquee tool [†] Elliptical Marquee tool	M	M
Lasso tool Polygonal Lasso tool Magnetic Lasso tool	L	L
Magic Wand tool Quick Selection tool	W	W
Crop tool Slice tool Slice Select tool	C	C
Eyedropper tool [†] Color Sampler tool Ruler tool Note tool	I	I
Spot Healing Brush tool Healing Brush tool Patch tool Red Eye tool	J	J
Brush tool Pencil tool Color Replacement tool Mixer Brush tool	B	B
Clone Stamp tool Pattern Stamp tool	S	S
History Brush tool Art History Brush tool	Y	Y
Eraser tool [†] Background Eraser tool Magic Eraser tool	E	E

Workspace

Gradient tool	G	G
Paint Bucket tool		
Dodge tool	O	O
Burn tool		
Sponge tool		
Pen tool	P	P
Freeform Pen tool		
Horizontal Type tool	T	T
Vertical Type tool		
Horizontal Type mask tool		
Vertical Type mask tool		
Path Selection tool	A	A
Direct Selection tool		
Rectangle tool	U	U
Rounded Rectangle tool		
Ellipse tool		
Polygon tool		
Line tool		
Custom Shape tool		
Hand tool [†]	H	H
Rotate View tool	R	R
Zoom tool [†]	Z	Z
Default Foreground/Background colors	D	D
Switch Foreground/Background colors	X	X
Toggle Standard/Quick Mask modes	Q	Q
Content-Aware Move tool	J	J
Perspective Crop tool	C	C
Artboard tool	V	V
Rotate View tool	R	R
Toggle Preserve Transparency	/ (forward slash)	/ (forward slash)
Decrease Brush Hardness	{	{
Increase Brush Hardness	}	}
Previous Brush	,	,
Next Brush	.	.
First Brush	<	<
Last Brush	>	>
[†] Use same shortcut key for Liquify		

Workspace**View images**

This partial list provides shortcuts that don't appear in menu commands or tool tips.

Result	Windows	macOS
Cycle through open documents	Control + Tab	Control + Tab
Switch to previous document	Shift + Control + Tab	Shift + Command + ` (grave accent)
Close a file in Photoshop and open Bridge	Shift-Control-W	Shift-Command-W
Toggle between Standard mode and Quick Mask mode	Q	Q
Toggle (forward) between Standard screen mode, Full screen mode with menu bar, and Full screen mode	F	F
Toggle (backward) between Standard screen mode, Full screen mode with menu bar, and Full screen mode	Shift + F	Shift + F
Toggle (forward) canvas color	Spacebar + F (or right-click canvas background and select color)	Spacebar + F (or Control-click canvas background and select color)
Toggle (backward) canvas color	Spacebar + Shift + F	Spacebar + Shift + F
Fit image in window	Double-click Hand tool	Double-click Hand tool
Magnify 100%	Double-click Zoom tool or Ctrl + 1	Double-click Zoom tool or Command + 1
Switch to Hand tool (when not in text-edit mode)	Spacebar	Spacebar
Simultaneously pan multiple documents with Hand tool	Shift-drag	Shift-drag
Switch to Zoom In tool	Control + spacebar	Command + spacebar
Switch to Zoom Out tool	Alt + spacebar	Option + spacebar
Move Zoom marquee while dragging with the Zoom tool	Spacebar-drag	Spacebar-drag
Apply zoom percentage, and keep zoom percentage box active	Shift + Enter in Navigator panel zoom percentage box	Shift + Return in Navigator panel zoom percentage box
Zoom in on specified area of an image	Control-drag over preview in Navigator panel	Command-drag over preview in Navigator panel
Temporarily zoom into an image	Hold down H and then click in the image and hold down the mouse button	Hold down H and then click in the image and hold down the mouse button
Scroll image with Hand tool	Spacebar-drag, or drag view area box in Navigator panel	Spacebar-drag, or drag view area box in Navigator panel
Scroll up or down 1 screen	Page Up or Page Down [†]	Page Up or Page Down [†]
Scroll up or down 10 units	Shift + Page Up or Page Down [†]	Shift + Page Up or Page Down [†]

Workspace

Move view to upper-left corner or lower-right corner	Home or End	Home or End
Toggle layer mask on/off as rubylith (layer mask must be selected)	\ (backslash)	\ (backslash)
[†] Hold down Ctrl (Windows) or Command (macOS) to scroll left (Page Up) or right (Page Down)		

Use Puppet Warp

This partial list provides shortcuts that don't appear in menu commands or tool tips.

Result	Windows	macOS
Cancel completely	Esc	Esc
Undo last pin adjustment	Ctrl + Z	Command + Z
Select all pins	Ctrl + A	Command + A
Deselect all pins	Ctrl + D	Command + D
Select multiple pins	Shift-click	Shift-click
Move multiple selected pins	Shift-drag	Shift-drag
Temporarily hide pins	H	H

*Currently unavailable in Photoshop on iPad.

Use Refine Edge

Result	Windows	macOS
Open the Refine Edge dialog box	Control + Alt + R	Command + Option + R
Cycle (forward) through preview modes	F	F
Cycle (backward) through preview modes	Shift + F	Shift + F
Toggle between original image and selection preview	X	X
Toggle between original selection and refined version	P	P
Toggle radius preview on and off	J	J
Toggle between Refine Radius and Erase Refinements tools	Shift + E	Shift + E

Use the Filter Gallery

Result	Windows	macOS
Apply a new filter on top of selected	Alt-click a filter	Option-click a filter
Reapply last-used filter	Control + Alt + F	Control + Command + F
Open/close all disclosure triangles	Alt-click a disclosure triangle	Option-click a disclosure triangle
Change Cancel button to Default	Control	Command

Workspace

Change Cancel button to Reset	Alt	Option
Undo/Redo	Control + Z	Command + Z
Step forward	Control + Shift + Z	Command + Shift + Z
Step backward	Control + Alt + Z	Command + Option + Z

Use the Liquify filter

Result	Windows	macOS
Forward Warp tool	W	W
Reconstruct tool	R	R
Twirl Clockwise tool	C	C
Pucker tool	S	S
Bloat tool	B	B
Push Left tool	O	O
Mirror tool	M	M
Turbulence tool	T	T
Freeze Mask tool	F	F
Thaw Mask tool	D	D
Reverse direction for Bloat, Pucker, Push Left, and Mirror tools	Alt + tool	Option + tool
Continually sample the distortion	Alt-drag in preview with Reconstruct tool, Displace, Amplitwist, or Affine mode selected	Option-drag in preview with Reconstruct tool, Displace, Amplitwist, or Affine mode selected
Decrease/increase brush size by 2, or density, pressure, rate, or turbulent jitter by 1	Down Arrow/Up Arrow in Brush Size, Density, Pressure, Rate, or Turbulent Jitter text box [†]	Down Arrow/Up Arrow in Brush Size, Density, Pressure, Rate, or Turbulent Jitter text box [†]
Decrease/increase brush size by 2, or density, pressure, rate, or turbulent jitter by 1	Left Arrow/Right Arrow with Brush Size, Density, Pressure, Rate, or Turbulent Jitter slider showing [†]	Left Arrow/Right Arrow with Brush Size, Density, Pressure, Rate, or Turbulent Jitter slider showing [†]
Cycle through controls on right from top	Tab	Tab
Cycle through controls on right from bottom	Shift + Tab	Shift + Tab
Change Cancel to Reset	Alt	Option
[†] Hold down Shift to decrease/increase by 10		

Use Vanishing Point

Result	Windows	macOS
Zoom 2x (temporary)	X	X
Zoom in	Control + + (plus)	Command + + (plus)
Zoom out	Control + - (hyphen)	Command + - (hyphen)
Fit in view	Control + 0 (zero), Double-click Hand tool	Command + 0 (zero), Double-click Hand tool
Zoom to the center at 100%	Double-click Zoom tool	Double-click Zoom tool

Workspace

Increase brush size (Brush, Stamp tools)]]
Decrease brush size (Brush, Stamp tools)	[[
Increase brush hardness (Brush, Stamp tools)	Shift +]	Shift +]
Decrease brush hardness (Brush, Stamp tools)	Shift + [Shift + [
Undo last action	Control + Z	Command + Z
Redo last action	Control + Shift + Z	Command + Shift + Z
Deselect all	Control + D	Command + D
Hide selection and planes	Control + H	Command + H
Move selection 1 pixel	Arrow keys	Arrow keys
Move selection 10 pixels	Shift + arrow keys	Shift + arrow keys
Copy	Control + C	Command + C
Paste	Control + V	Command + V
Repeat last duplicate and move	Control + Shift + T	Command + Shift + T
Create a floating selection from the current selection	Control + Alt + T	
Fill a selection with image under the pointer	Control-drag	Command-drag
Create a duplicate of the selection as a floating selection	Control + Alt-drag	Command + Option-drag
Constrain selection to a 15° rotation	Alt + Shift to rotate	Option + Shift to rotate
Select a plane under another selected plane	Control-click the plane	Command-click the plane
Create 90° plane off parent plane	Control-drag	Command-drag
Delete last node while creating plane	Backspace	Delete
Make a full canvas plane, square to the camera	Double-click the Create Plane tool	Double-click the Create Plane tool

Use the Camera Raw dialog box**Note:**

Holding down a key temporarily activates a tool. Letting go of the key returns to the previous tool.

Result	Windows	macOS
Zoom tool	Z	Z
Hand tool	H	H
White Balance tool	I	I
Color Sampler tool	S	S
Crop tool	C	C
Straighten tool	A	A
Spot Removal tool	B	B
Red Eye Removal tool	E	E

Workspace

Basic panel	Ctrl + Alt + 1	Command + Option + 1
Tone Curve panel	Ctrl + Alt + 2	Command + Option + 2
Detail panel	Ctrl + Alt + 3	Command + Option + 3
HSL/Grayscale panel	Ctrl + Alt + 4	Command + Option + 4
Split Toning panel	Ctrl + Alt + 5	Command + Option + 5
Lens Corrections panel	Ctrl + Alt + 6	Command + Option + 6
Camera Calibration panel	Ctrl + Alt + 7	Command + Option + 7
Presets panel	Ctrl + Alt + 9	Command + Option + 9 (macOS Universal Access zoom shortcut must be disabled in System Preferences)
Open Snapshots panel	Ctrl + Alt + 9	Command + Option + 9
Parametric Curve Targeted Adjustment tool	Ctrl + Alt + Shift + T	Command + Option + Shift + T
Hue Targeted Adjustment tool	Ctrl + Alt + Shift + H	Command + Option + Shift + H
Saturation Targeted Adjustment tool	Ctrl + Alt + Shift + S	Command + Option + Shift + S
Luminance Targeted Adjustment tool	Ctrl + Alt + Shift + L	Command + Option + Shift + L
Grayscale Mix Targeted Adjustment tool	Ctrl + Alt + Shift + G	Command + Option + Shift + G
Last-used Targeted Adjustment tool	T	T
Adjustment Brush tool	K	K
Graduated Filter tool	G	G
Increase/decrease brush size] / [] / [
Increase/decrease brush feather	Shift +] / Shift + [Shift +] / Shift + [
Increase/decrease Adjustment Brush tool flow in increments of 10	= (equal sign) / - (hyphen)	= (equal sign) / - (hyphen)
Temporarily switch from Add to Erase mode for the Adjustment Brush tool, or from Erase to Add mode	Alt	Option
Increase/decrease temporary Adjustment Brush tool size	Alt +] / Alt + [Option +] / Option + [
Increase/decrease temporary Adjustment Brush tool feather	Alt + Shift +] / Alt + Shift + [Option + Shift +] / Option + Shift + [
Increase/decrease temporary Adjustment Brush tool flow in increments of 10	Alt + = (equal sign) / Alt + - (hyphen)	Option = (equal sign) / Option + - (hyphen)
Switch to New mode from Add or Erase mode of the Adjustment Brush tool or the Graduated Filter	N	N
Toggle Auto Mask for Adjustment Brush tool	M	M
Toggle Show Mask for Adjustment Brush tool	Y	Y
Toggle pins for Adjustment Brush tool	V	V
Toggle overlay for Graduated Filter, Spot Removal tool, or Red Eye Removal tool.	V	V

Workspace

Rotate image left	L or Ctrl +]	L or Command +]
Rotate image right	R or Ctrl + [R or Command + [
Zoom in	Ctrl + + (plus)	Command + + (plus)
Zoom out	Ctrl + - (hyphen)	Command + - (hyphen)
Temporarily switch to Zoom In tool (Doesn't work when Straighten tool is selected. If Crop tool is active, temporarily switches to Straighten tool.)	Ctrl	Command
Temporarily switch to Zoom Out tool and change the Open Image button to Open Copy and the Cancel button to Reset.	Alt	Option
Toggle preview	P	P
Full screen mode	F	F
Temporarily activate the White Balance tool and change the Open Image button to Open Object. (Does not work if Crop tool is active)	Shift	Shift
Select multiple points in Curves panel	Click the first point; Shift-click additional points	Click the first point; Shift-click additional points
Add point to curve in Curves panel	Control-click in preview	Command-click in preview
Move selected point in Curves panel (1 unit)	Arrow keys	Arrow keys
Move selected point in Curves panel (10 units)	Shift-arrow	Shift-arrow
Open selected images in Camera Raw dialog box from Bridge	Ctrl + R	Command + R
Open selected images from Bridge bypassing Camera Raw dialog box	Shift + double-click image	Shift + double-click image
Display highlights that will be clipped in Preview	Alt-drag Exposure, Recovery, or Black sliders	Option-drag Exposure, Recovery, or Black sliders
Highlight clipping warning	O	O
Shadows clipping warning	U	U
(Filmstrip mode) Add 1 - 5 star rating	Ctrl +1 - 5	Command + 1 - 5
(Filmstrip mode) Increase/decrease rating	Ctrl +. (period) / Ctrl+, (comma)	Command + . (period) / Command+, (comma)
(Filmstrip mode) Add red label	Ctrl + 6	Command + 6
(Filmstrip mode) Add yellow label	Ctrl + 7	Command + 7
(Filmstrip mode) Add green label	Ctrl + 8	Command + 8
(Filmstrip mode) Add blue label	Ctrl + 9	Command + 9
(Filmstrip mode) Add purple label	Ctrl + Shift + 0	Command + Shift + 0
Camera Raw preferences	Ctrl + K	Command + K
Deletes Adobe Camera Raw preferences	Ctrl + Alt (on open)	Option + Shift (on open)

Use the Black-and-White dialog box

Workspace

Result	Windows	macOS
Open the Black-and-White dialog box	Shift + Control + Alt + B	Shift + Command + Option + B
Increase/decrease selected value by 1%	Up Arrow/Down Arrow	Up Arrow/Down Arrow
Increase/decrease selected value by 10%	Shift + Up Arrow/Down Arrow	Shift + Up Arrow/Down Arrow
Change the values of the closest color slider	Click-drag on the image	Click-drag on the image

Use Curves

Result	Windows	macOS
Open the Curves dialog box	Control + M	Command + M
Select next point on the curve	+ (plus)	+ (plus)
Select the previous point on the curve	- (minus)	- (minus)
Select multiple points on the curve	Shift-click the points	Shift-click the points
Deselect a point	Control + D	Command + D
To delete a point on the curve	Select a point and press Delete	Select a point and press Delete
Move the selected point 1 unit	Arrow keys	Arrow keys
Move the selected point 10 units	Shift + Arrow keys	Shift + Arrow keys
Display highlights and shadows that will be clipped	Alt-drag black/white point sliders	Option-drag black/white point sliders
Set a point to the composite curve	Control-click the image	Command-click the image
Set a point to the channel curves	Shift + Control-click the image	Shift + Command-click the image
Toggle grid size	Alt-click the field	Option-click the field

Select and move objects

This partial list provides shortcuts that don't appear in menu commands or tool tips.

Result	Windows	macOS
Reposition marquee while selecting [†]	Any marquee tool (except single column and single row) + spacebar-drag	Any marquee tool (except single column and single row) + spacebar-drag
Add to a selection	Any selection tool + Shift-drag	Any selection tool + Shift-drag
Subtract from a selection	Any selection tool + Alt-drag	Any selection tool + Option-drag
Intersect a selection	Any selection tool (except Quick Selection tool) + Shift-Alt-drag	Any selection tool (except Quick Selection tool) + Shift-Option-drag
Constrain marquee to square or circle (if no other selections are active) [‡]	Shift-drag	Shift-drag
Draw marquee from center (if no other selections are active) [‡]	Alt-drag	Option-drag
Constrain shape and draw marquee from center [‡]	Shift + Alt-drag	Shift + Option-drag
Switch to Move tool	Control (except when Hand, Slice, Path, Shape, or any Pen tool is selected)	Command (except when Hand, Slice, Path, Shape, or any Pen tool is selected)

Workspace

Switch from Magnetic Lasso tool to Lasso tool	Alt-drag	Option-drag
Switch from Magnetic Lasso tool to polygonal Lasso tool	Alt-click	Option-click
Apply/cancel an operation of the Magnetic Lasso	Enter/Esc or Control + . (period)	Return/Esc or Command + . (period)
Move copy of selection	Move tool + Alt-drag selection [‡]	Move tool + Option-drag selection [‡]
Move selection area 1 pixel	Any selection + Right Arrow, Left Arrow, Up Arrow, or Down Arrow [†]	Any selection + Right Arrow, Left Arrow, Up Arrow, or Down Arrow [†]
Move selection 1 pixel	Move tool + Right Arrow, Left Arrow, Up Arrow, or Down Arrow ^{†‡}	Move tool + Right Arrow, Left Arrow, Up Arrow, or Down Arrow ^{†‡}
Move layer 1 pixel when nothing selected on layer	Control + Right Arrow, Left Arrow, Up Arrow, or Down Arrow [†]	Command + Right Arrow, Left Arrow, Up Arrow, or Down Arrow [†]
Increase/decrease detection width	Magnetic Lasso tool + [or]	Magnetic Lasso tool + [or]
Accept cropping or exit cropping	Crop tool + Enter or Esc	Crop tool + Return or Esc
Toggle crop shield off and on	/ (forward slash)	/ (forward slash)
Make protractor	Ruler tool + Alt-drag end point	Ruler tool + Option-drag end point
Snap guide to ruler ticks (except when View > Snap is unchecked)	Shift-drag guide	Shift-drag guide
Convert between horizontal and vertical guide	Alt-drag guide	Option-drag guide
[†] Hold down Shift to move 10 pixels		
[‡] Applies to shape tools		

Transform selections, selection borders, and paths

This partial list provides shortcuts that don't appear in menu commands or tool tips.

Result	Windows	macOS
Transform from the center or reflect	Alt	Option
Constrain	Shift	Shift
Distort	Control	Command
Apply	Enter	Return
Cancel	Control + . (period) or Esc	Command + . (period) or Esc
Free transform with duplicate data	Control + Alt + T	Command + Option + T
Transform again with duplicate data	Control + Shift + Alt + T	Command + Shift + Option + T

Edit paths

This partial list provides shortcuts that don't appear in menu commands or tool tips.

Result	Windows	macOS
Select multiple anchor points	Direct selection tool + Shift-click	Direct selection tool + Shift-click
Select entire path	Direct selection tool + Alt-click	Direct selection tool + Option-click

Workspace

Duplicate a path	Pen (any Pen tool), Path Selection or Direct Selection tool + Control + Alt-drag	Pen (any Pen tool), Path Selection or Direct Selection tool + Command + Option-drag
Switch from Path Selection, Pen, Add Anchor Point, Delete Anchor Point, or Convert Point tools to Direct Selection tool	Control	Command
Switch from Pen tool or Freeform Pen tool to Convert Point tool when pointer is over anchor or direction point	Alt	Option
Close path	Magnetic Pen tool-double-click	Magnetic Pen tool-double-click
Close path with straight-line segment	Magnetic Pen tool + Alt-double-click	Magnetic Pen tool + Option-double-click

Use for painting

This partial list provides shortcuts that don't appear in menu commands or tool tips.

Result	Windows	macOS
Select foreground color from color picker	Any painting tool + Shift + Alt + right-click and drag	Any painting tool + Control + Option + Command and drag
Select foreground color from image with Eyedropper tool	Any painting tool + Alt or any shape tool + Alt (except when Paths option is selected)	Any painting tool + Option or any shape tool + Option (except when Paths option is selected)
Select background color	Eyedropper tool + Alt-click	Eyedropper tool + Option-click
Color sampler tool	Eyedropper tool + Shift	Eyedropper tool + Shift
Deletes color sampler	Color sampler tool + Alt-click	Color sampler tool + Option-click
Sets opacity, tolerance, strength, or exposure for painting mode	Any painting or editing tool + number keys (e.g., 0 = 100%, 1 = 10%, 4 then 5 in quick succession = 45%) (when airbrush option is enabled, use Shift + number keys)	Any painting or editing tool + number keys (e.g., 0 = 100%, 1 = 10%, 4 then 5 in quick succession = 45%) (when airbrush option is enabled, use Shift + number keys)
Sets flow for painting mode	Any painting or editing tool + Shift + number keys (e.g., 0 = 100%, 1 = 10%, 4 then 5 in quick succession = 45%) (when airbrush option is enabled, omit Shift)	Any painting or editing tool + Shift + number keys (e.g., 0 = 100%, 1 = 10%, 4 then 5 in quick succession = 45%) (when airbrush option is enabled, omit Shift)
Mixer Brush changes Mix setting	Alt + Shift + number	Option + Shift + number
Mixer Brush changes Wet setting	Number keys	Number keys
Mixer Brush changes Wet and Mix to zero	00	00
Cycle through blending modes	Shift ++ (plus) or - (minus)	Shift ++ (plus) or - (minus)
Open Fill dialog box on the background or standard layer	Backspace or Shift + Backspace	Delete or Shift + Delete
Fill with foreground or background color	Alt + Backspace or Control + Backspace [†]	Option + Delete or Command + Delete [†]
Fill from history	Control + Alt + Backspace [†]	Command + Option + Delete [†]
Displays Fill dialog box	Shift + Backspace	Shift + Delete
Lock transparent pixels on/off	/ (forward slash)	/ (forward slash)
Connects points with a straight line	Any painting tool + Shift-click	Any painting tool + Shift-click
[†] Hold down Shift to preserve transparency		

Use for blending modes

Result	Windows	macOS
Cycle through blending modes	Shift + + (plus) or - (minus)	Shift + + (plus) or - (minus)
Normal	Shift + Alt + N	Shift + Option + N
Dissolve	Shift + Alt + I	Shift + Option + I
Behind (Brush tool only)	Shift + Alt + Q	Shift + Option + Q
Clear (Brush tool only)	Shift + Alt + R	Shift + Option + R
Darken	Shift + Alt + K	Shift + Option + K
Multiply	Shift + Alt + M	Shift + Option + M
Color Burn	Shift + Alt + B	Shift + Option + B
Linear Burn	Shift + Alt + A	Shift + Option + A
Lighten	Shift + Alt + G	Shift + Option + G
Screen	Shift + Alt + S	Shift + Option + S
Color Dodge	Shift + Alt + D	Shift + Option + D
Linear Dodge	Shift + Alt + W	Shift + Option + W
Overlay	Shift + Alt + O	Shift + Option + O
Soft Light	Shift + Alt + F	Shift + Option + F
Hard Light	Shift + Alt + H	Shift + Option + H
Vivid Light	Shift + Alt + V	Shift + Option + V
Linear Light	Shift + Alt + J	Shift + Option + J
Pin Light	Shift + Alt + Z	Shift + Option + Z
Hard Mix	Shift + Alt + L	Shift + Option + L
Difference	Shift + Alt + E	Shift + Option + E
Exclusion	Shift + Alt + X	Shift + Option + X
Hue	Shift + Alt + U	Shift + Option + U
Saturation	Shift + Alt + T	Shift + Option + T
Color	Shift + Alt + C	Shift + Option + C
Luminosity	Shift + Alt + Y	Shift + Option + Y
Desaturate	Sponge tool + Shift + Alt + D	Sponge tool + Shift + Option + D
Saturate	Sponge tool + Shift + Alt + S	Sponge tool + Shift + Option + S
Dodge/burn shadows	Dodge tool/Burn tool + Shift + Alt + S	Dodge tool/Burn tool + Shift + Option + S
Dodge/burn midtones	Dodge tool/Burn tool + Shift + Alt + M	Dodge tool/Burn tool + Shift + Option + M
Dodge/burn highlights	Dodge tool/Burn tool + Shift + Alt + H	Dodge tool/Burn tool + Shift + Option + H
Set blending mode to Threshold for bitmap images, Normal for all other images	Shift + Alt + N	Shift + Option + N

Select and edit text

This partial list provides shortcuts that don't appear in menu commands or tool tips.

Result	Windows	macOS
Move type in image	Control-drag type when Type layer is selected	Command-drag type when Type layer is selected
Select 1 character left/right or 1 line down/up, or 1 word left/right	Shift + Left Arrow/Right Arrow or Down Arrow/Up Arrow, or Control + Shift + Left Arrow/Right Arrow	Shift + Left Arrow/Right Arrow or Down Arrow/Up Arrow, or Command + Shift + Left Arrow/Right Arrow
Select characters from insertion point to mouse click point	Shift-click	Shift-click
Move 1 character left/right, 1 line down/up, or 1 word left/right	Left Arrow/Right Arrow, Down Arrow/Up Arrow, or Control + Left Arrow/Right Arrow	Left Arrow/Right Arrow, Down Arrow/Up Arrow, or Command + Left Arrow/Right Arrow
Create a new text layer, when a text layer is selected in the Layers panel	Shift-click	Shift-click
Select a word, line, paragraph, or story	Double-click, triple-click, quadruple-click, or quintuple-click	Double-click, triple-click, quadruple-click, or quintuple-click
Show/Hide selection on selected type	Control + H	Command + H
Display the bounding box for transforming text when editing text, or activate Move tool if cursor is inside the bounding box	Control	Command
Scale text within a bounding box when resizing the bounding box	Control-drag a bounding box handle	Command-drag a bounding box handle
Move text box while creating text box	Spacebar-drag	Spacebar-drag

Format type

This partial list provides shortcuts that don't appear in menu commands or tool tips.

Result	Windows	macOS
Align left, center, or right	Horizontal Type tool + Control + Shift + L, C, or R	Horizontal Type tool + Command + Shift + L, C, or R
Align top, center, or bottom	Vertical Type tool + Control + Shift + L, C, or R	Vertical Type tool + Command + Shift + L, C, or R
Choose 100% horizontal scale	Control + Shift + X	Command + Shift + X
Choose 100% vertical scale	Control + Shift + Alt + X	Command + Shift + Option + X
Choose Auto leading	Control + Shift + Alt + A	Command + Shift + Option + A
Choose 0 for tracking	Control + Shift + Q	Command + Control + Shift + Q
Justify paragraph, left aligns last line	Control + Shift + J	Command + Shift + J
Justify paragraph, justifies all	Control + Shift + F	Command + Shift + F
Toggle paragraph hyphenation on/off	Control + Shift + Alt + H	Command + Control + Shift + Option + H
Toggle single/every-line composer on/off	Control + Shift + Alt + T	Command + Shift + Option + T
Decrease or increase type size of selected text 2 points or pixels	Control + Shift + < or > [†]	Command + Shift + < or > [†]

Workspace

Decrease or increase leading 2 points or pixels	Alt + Down Arrow or Up Arrow ^{††}	Option + Down Arrow or Up Arrow ^{††}
Decrease or increase baseline shift 2 points or pixels	Shift + Alt + Down Arrow or Up Arrow ^{††}	Shift + Option + Down Arrow or Up Arrow ^{††}
Decrease or increase kerning/tracking 20/1000 ems	Alt + Left Arrow or Right Arrow ^{††}	Option + Left Arrow or Right Arrow ^{††}
[†] Hold down Alt (Win) or Option (macOS) to decrease/increase by 10		
^{††} Hold down Ctrl (Windows) or Command (macOS) to decrease/increase by 10		

Slice and optimize

Result	Windows	macOS
Toggle between Slice tool and Slice Selection tool	Control	Command
Draw square slice	Shift-drag	Shift-drag
Draw from center outward	Alt-drag	Option-drag
Draw square slice from center outward	Shift + Alt-drag	Shift + Option-drag
Reposition slice while creating slice	Spacebar-drag	Spacebar-drag
Open context-sensitive menu	Right-click slice	Control-click slice

Use panels

This partial list provides shortcuts that don't appear in menu commands or tool tips.

Result	Windows	macOS
Set options for new items (except for Actions, Animation, Styles, Brushes, Tool Presets, and Layer Comps panels)	Alt-click New button	Option-click New button
Delete without confirmation (except for the Brush panel)	Alt-click Delete button	Option-click Delete button
Apply value and keep text box active	Shift + Enter	Shift + Return
Show/Hide all panels	Tab	Tab
Show/Hide all panels except the toolbox and options bar	Shift + Tab	Shift + Tab
Highlight options bar	Select tool and press Enter	Select tool and press Return
Increase/decrease selected values by 10	Shift + Up Arrow/Down Arrow	Shift + Up Arrow/Down Arrow

Use the Actions panel

Result	Windows	macOS
Turn command on and all others off, or turn all commands on	Alt-click the check-mark next to a command	Option-click the check-mark next to a command
Turn current modal control on and toggle all other modal controls	Alt-click	Option-click

Workspace

Change action or action set options	Alt + double-click action or action set	Option + double-click action or action set
Display Options dialog box for recorded command	Double-click recorded command	Double-click recorded command
Play entire action	Control + double-click an action	Command + double-click an action
Collapse/expand all components of an action	Alt-click the triangle	Option-click the triangle
Play a command	Control-click the Play button	Command-click the Play button
Create a new action and begin recording without confirmation	Alt-click the New Action button	Option-click the New Action button
Select contiguous items of the same kind	Shift-click the action/command	Shift-click the action/command
Select discontiguous items of the same kind	Control-click the action/command	Command-click the action/command

Use adjustment layers**Note:**

If you prefer channel shortcuts starting with Alt/Option + 1 for red, choose Edit > Keyboard Shortcuts, and select Use Legacy Channel Shortcuts. Then restart Photoshop.

Result	Windows	macOS
Choose specific channel for adjustment	Alt + 3 (red), 4 (green), 5 (blue)	Option + 3 (red), 4 (green), 5 (blue)
Choose composite channel for adjustment	Alt + 2	Option + 2
Delete adjustment layer	Delete or Backspace	Delete
Define Auto options for Levels or Curves	Alt-click Auto button	Option-click Auto button

Use the Animation panel in Frames mode

Result	Windows	macOS
Select/deselect multiple contiguous frames	Shift-click second frame	Shift-click second frame
Select/deselect multiple discontiguous frames	Control-click multiple frames	Command-click multiple frames
Paste using previous settings without displaying the dialog box	Alt + Paste Frames command from the Panel pop-up menu	Option + Paste Frames command from the Panel pop-up menu

Use the Brush panel

Result	Windows	macOS
Delete brush	Alt-click brush	Option-click brush
Rename brush	Double-click brush	Double-click brush
Change brush size	Alt + right-click + drag left or right	Ctrl + Option + drag left or right
Decrease/increase brush softness/hardness	Alt + right-click + drag up or down	Ctrl + Option + drag up or down
Select previous/next brush size	, (comma) or . (period)	, (comma) or . (period)