Process & Production

Demonstration & Discussion

Adobe Photoshop

Basics

PSD File Format Image Formats Photoshop Layers Marquee, Lasso, Magic Wand **Image Menu** Image Size, Canvas Size, Desaturate, Invert, Gradient Map **Halftone Patterns**

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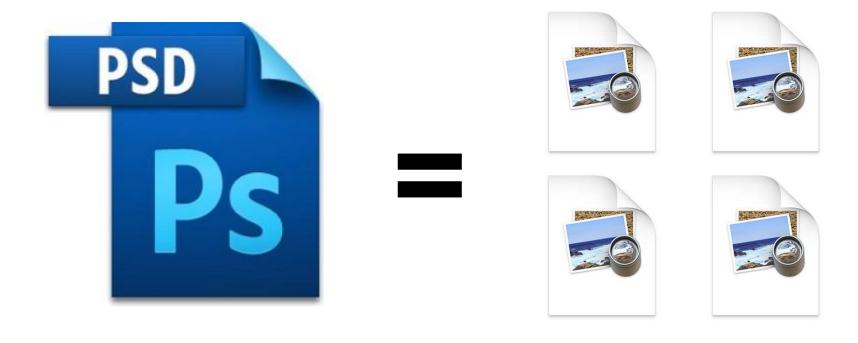












Adobe Photoshop files are about four times larger than a JPEG file...

Adobe Photoshop files are about four times larger than a JPEG file, because Photoshop files do not compress image information...

Adobe Photoshop files are about four times larger than a JPEG file, because Photoshop files do not compress image information (Photoshop files are "lossless"...

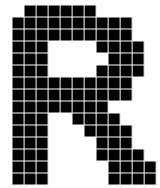
Adobe Photoshop files are about four times larger than a JPEG file, because Photoshop files do not compress image information (Photoshop files are "lossless" and JPEG files are "lossy").

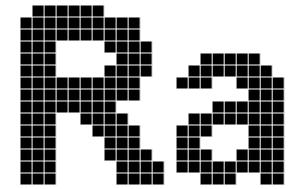
We should use Adobe Photoshop files to make specific changes to raster imagery information.

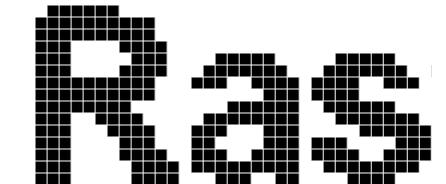
All digital design software render visual information in one of two ways...

All digital design software render visual information in one of two ways...

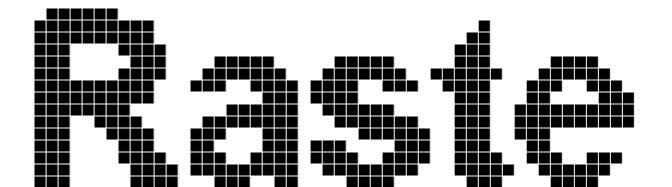
...as either...

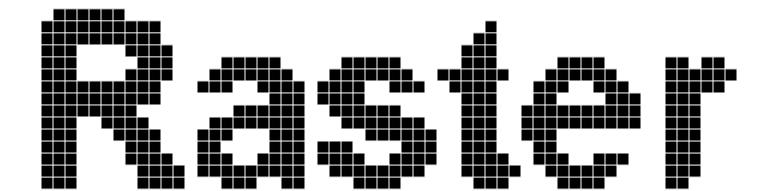


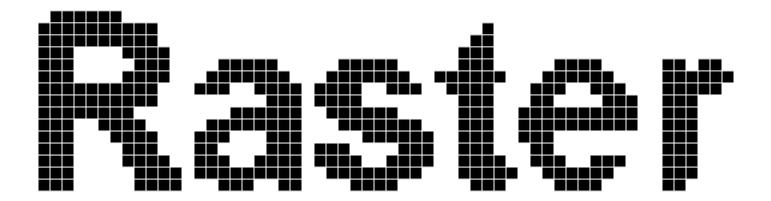




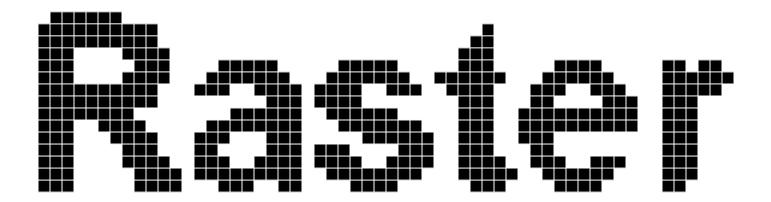








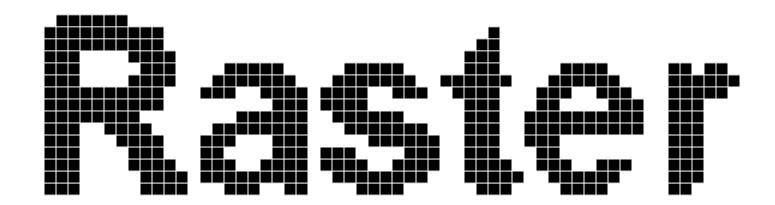
Also called "bitmap"



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- Image information rendered in pixels (the squares)



- Also called "bitmap"
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- PSD, JPEG, PNG, GIF, etc.



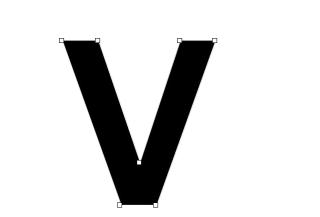
- Also called "bitmap"
- Image information rendered in pixels (the squares)
- PSD, JPEG, PNG, GIF, etc.
- Ideal for photographs

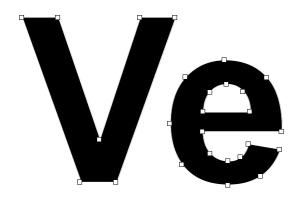
All digital design software render visual information in one of two ways...

...either raster...

All digital design software render visual information in one of two ways...

...either raster... or...

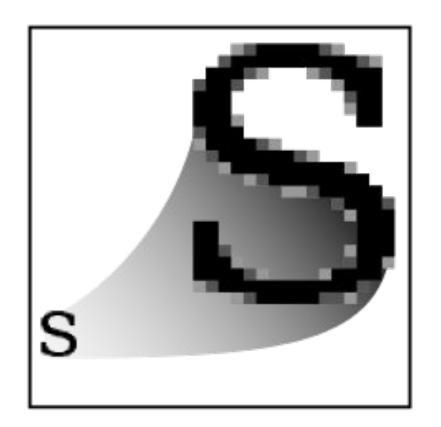




PDF, EPS, SVG, AI

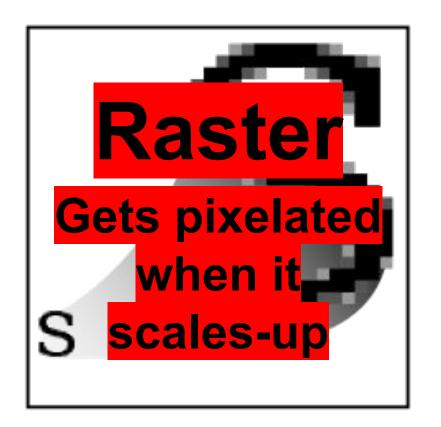
- PDF, EPS, SVG, AI
- Images rendered by connecting coordinates

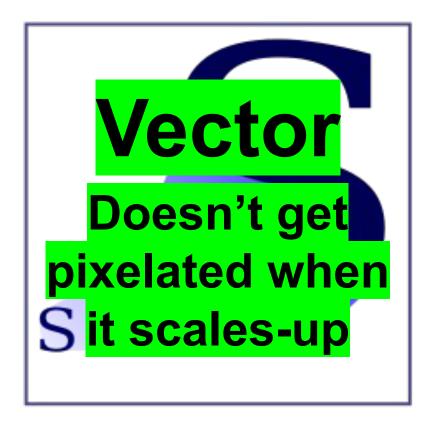
- PDF, EPS, SVG, AI
- Images rendered by connecting coordinates
- Good for logos, illustrations, typography





https://commons.wikimedia.org/wiki/File:Bitmap_VS_SVG.svg





PSD File Format

PSD File Format

We should use Adobe Photoshop files to make specific changes to raster imagery information.

But we should <u>never</u> place a Photoshop file into an InDesign document as an image link (unless you want to crash your computer).

PSD File Format Image Formats Photoshop Layers Marquee, Lasso, Magic Wand **Image Menu** Image Size, Canvas Size, Desaturate, Invert, Gradient Map **Halftone Patterns**

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JPEG

(Joint Photographic Experts Group)

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- TIFF
 (Tagged Image File Format)

JPEG
(Joint Photographic Experts Group)

JPEG

(Joint Photographic Experts Group)

- 0 1992
- Lossy
- Photographs (i.e. real world imagery)
- Complex coloring

• GF

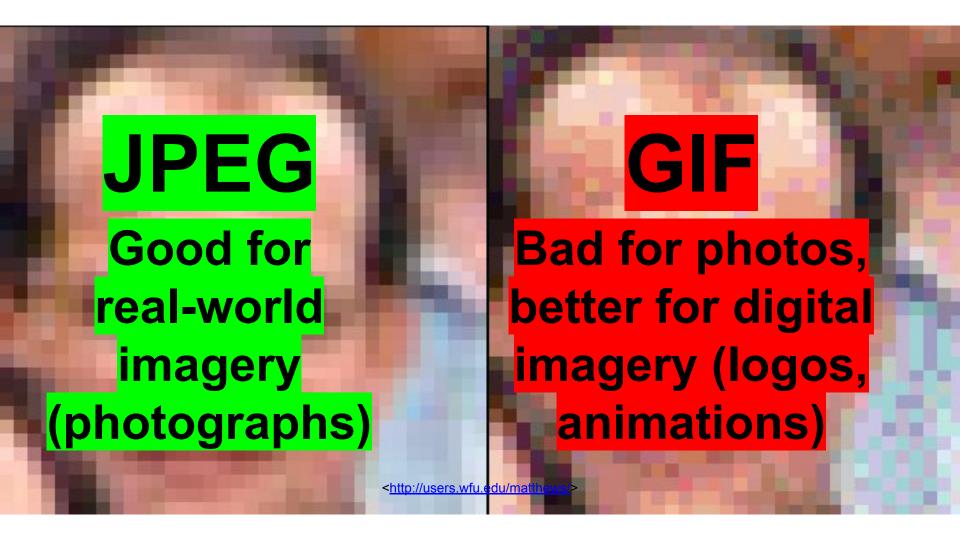
(Graphics Interchange Format)

GIF

(Graphics Interchange Format)

- 1987
- Lossy, dithering
- Computer graphics, simple icons
- Simple colors
- Animations



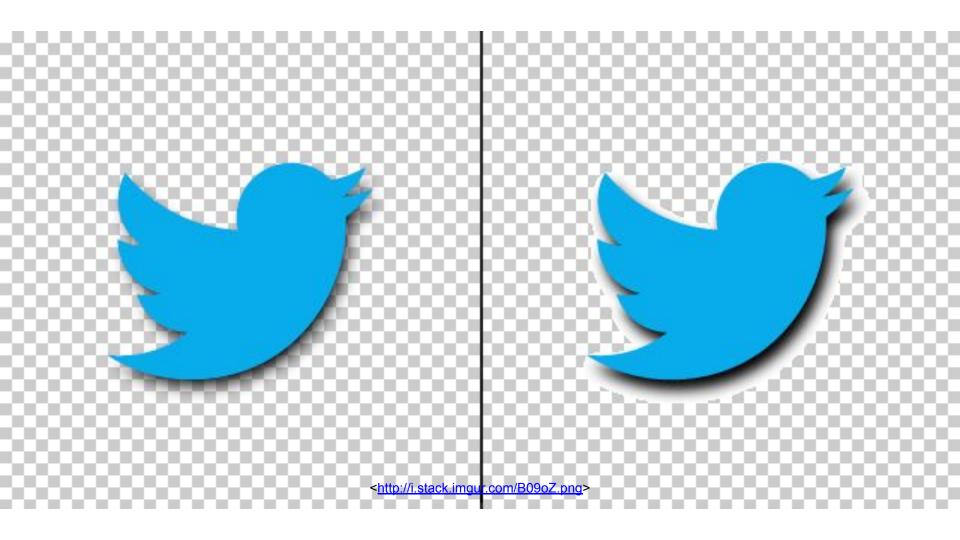


PNG(Portable Networks Graphics)

PNG

(Portable Networks Graphics)

- 1996
- Lossless
- Computer graphics, alphas/transparencies, shading
- Simple colors/transitions = smaller file sizes



PNG Can handle transparency gradients



EPS

(Encapsulated Postscript)

- Lossless
- Vector format
- Like a PDF file, but for images
- Industry standard for most printing applications

• TIFF

(Tagged Image File Format)

- Lossless
- Raster format
- Industry standard for most printing applications

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Photoshop Layers

Photoshop CC File Edit Image Layer Type Select Filter 3D View Window Help

Photoshop Layers

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Photoshop Layers

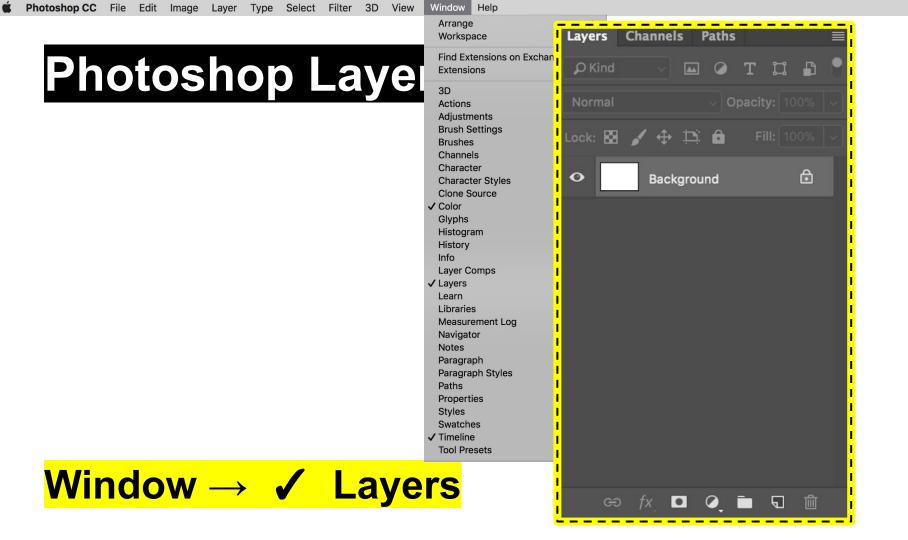
Photoshop Layer

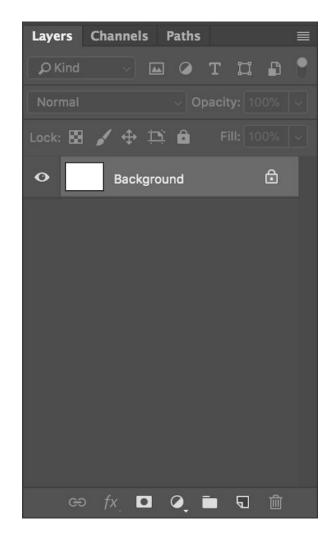
Workspace Find Extensions on Exchange... Extensions Actions ₹F9 Adjustments **Brush Settings** F5 Brushes Channels Character **Character Styles** Clone Source √ Color F6 Glyphs Histogram History Info F8 Layer Comps ✓ Layers F7 Learn Libraries Measurement Log Navigator Notes Paragraph Paragraph Styles Paths **Properties** Styles **Swatches** ✓ Timeline **Tool Presets**

Window Help

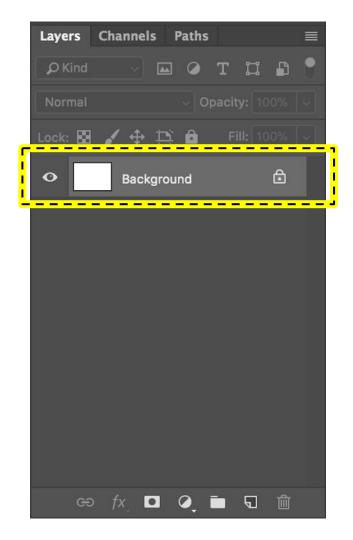
Window → ✓ Layers

Window → ✓ Layers

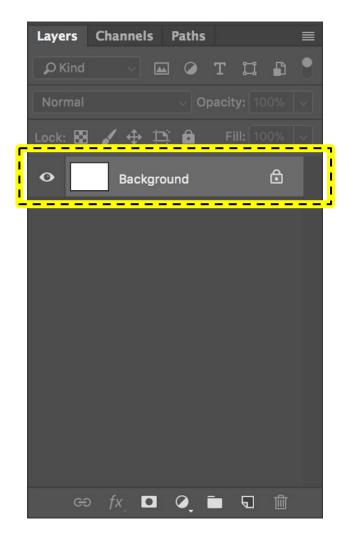




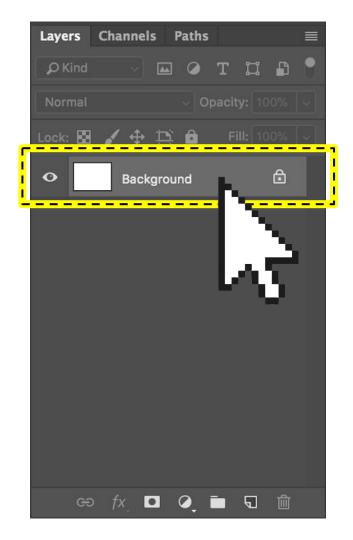
When we first create a document or open an image in Photoshop, the information is "flattened"...



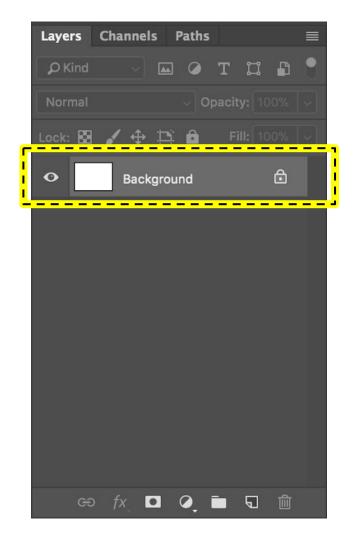
When we first create a document or open an image in Photoshop, the information is "flattened," which means it does not have a transparency

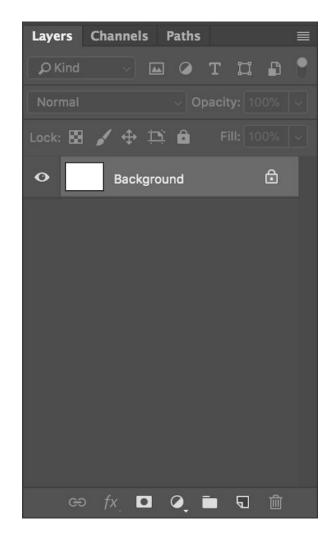


Double-click the row to convert the flattened Background to a layer...

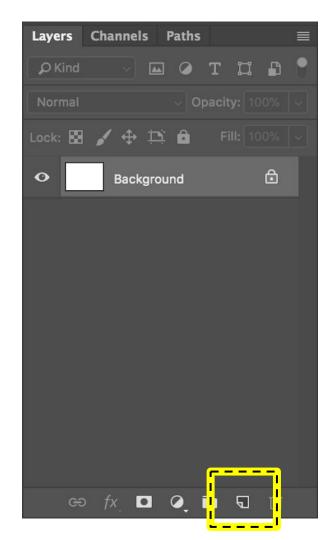


Double-click the row to convert the flattened Background to a layer... which will allow the use of transparencies

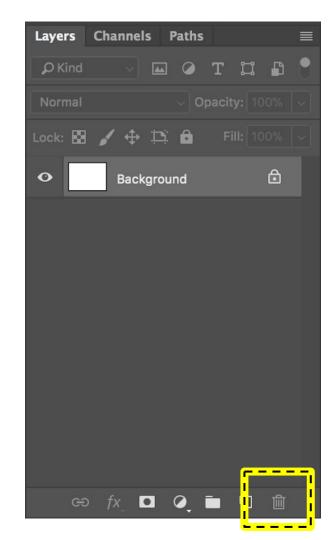




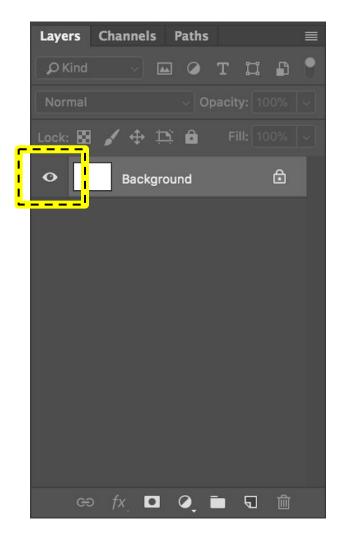
Create a new layer.



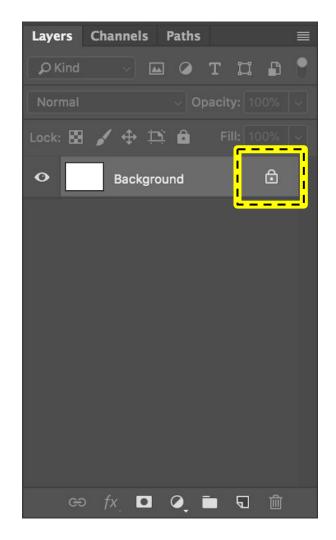
Delete selected layer.



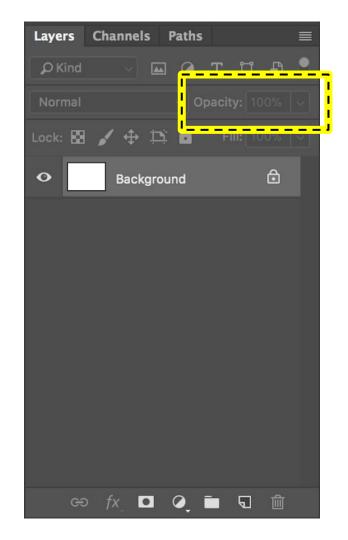
Turn layer visibility on/off.



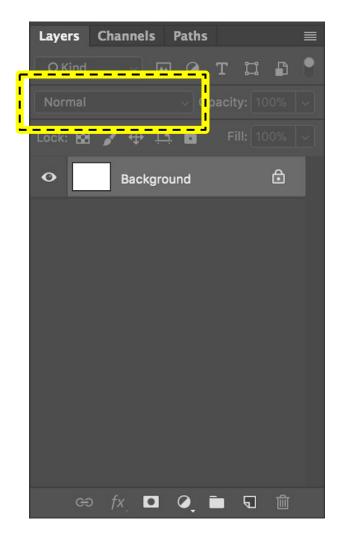
Lock/unlock layer.



Control layer opacity.



Control layer opacity blend mode.







The Rectangular
Marquee Tool lets you select a simple rectangular area on the composition.



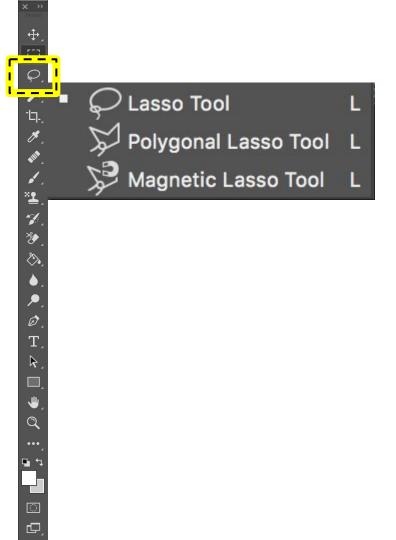


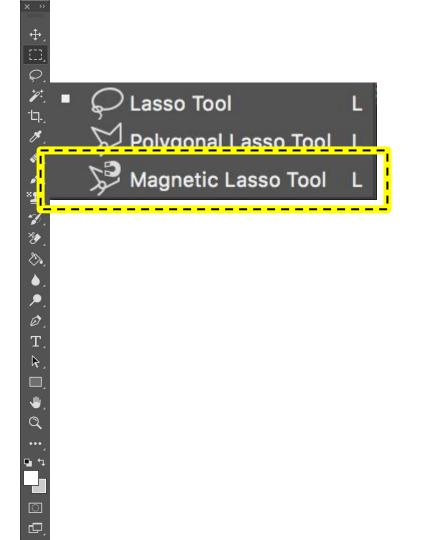


The Lasso Tool lets you draw and select a more complex area on the composition.

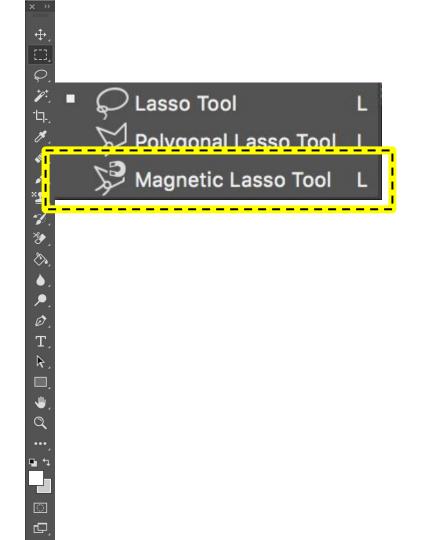








The Magnetic Lasso **Tool** uses image interpolation to help you more precisely outline/trace the edges of your selection.



Magic Wand



Magic Wand



Magic Wand

The Magic Wand Tool uses magic to help you select a particular color value in the composition.



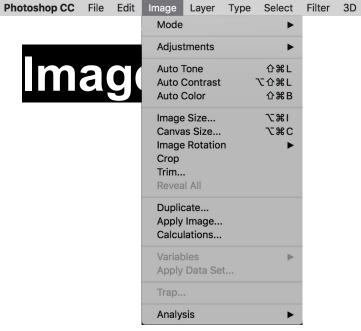
Image Menu

Photoshop CC File Edit Image Layer Type Select Filter 3D View Window Help

Image Menu

Photoshop CC File Ed Image Layer Type Select Filter 3D View Window Help

Image Menu



View

Window

Image Menu →

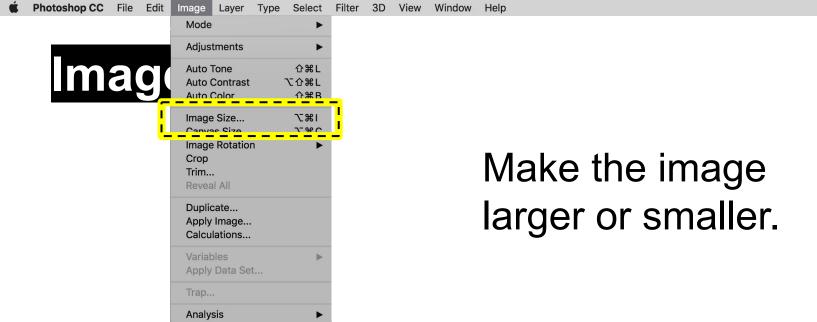


Image Menu → Image Size

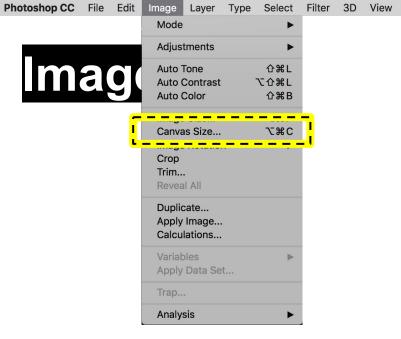


Image Menu → **Canvas Size**

Window

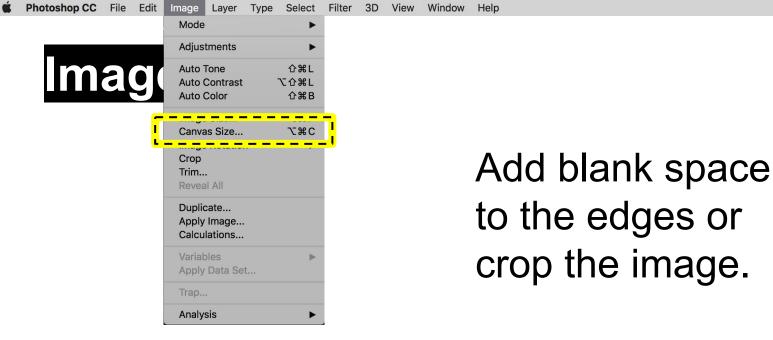
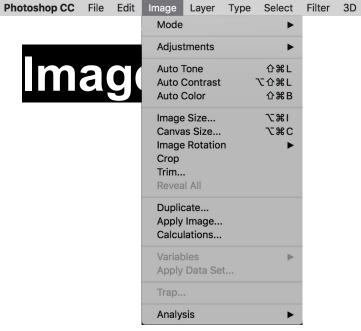


Image Menu → Canvas Size



View

Window

Image Menu →



Image Menu → Adjustments

Window

3D

View

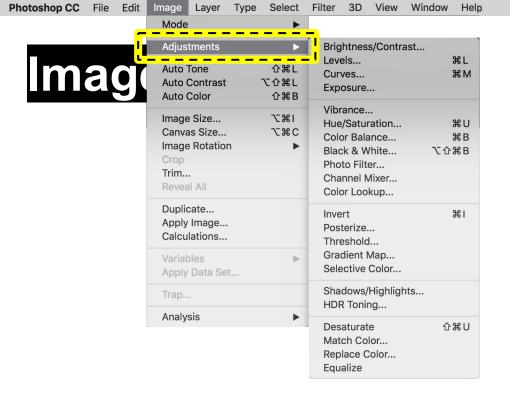


Image Menu → **Adjustments**

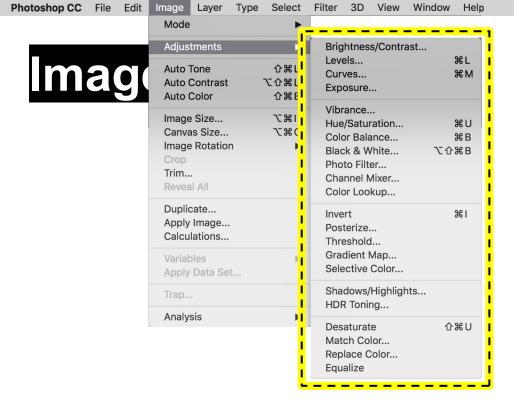


Image Menu → Adjustments

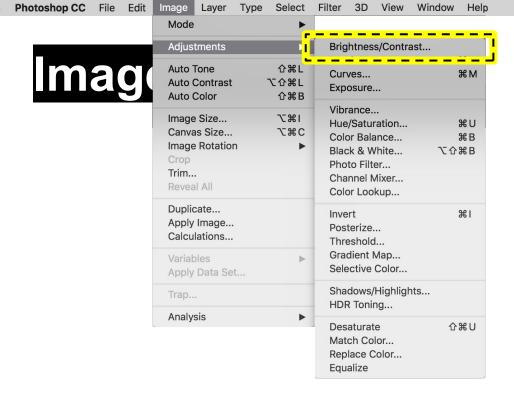
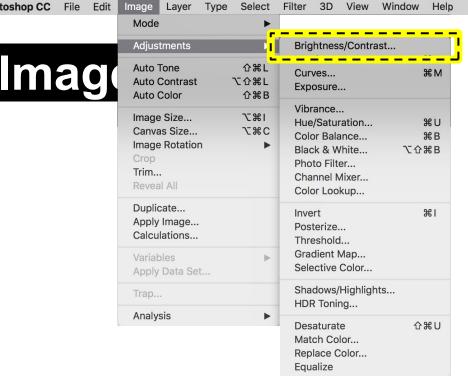


Image Menu → Adjustments → Brightness/Contrast



Photoshop CC

(Adjust brightness and contrast to make the image more balanced, and define shadows and highlights more clearly).

Image Menu → Adjustments **Brightness/Contrast**

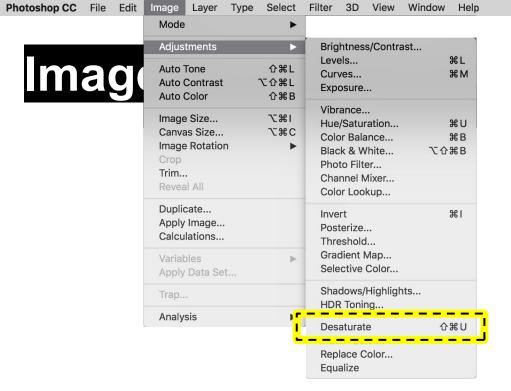
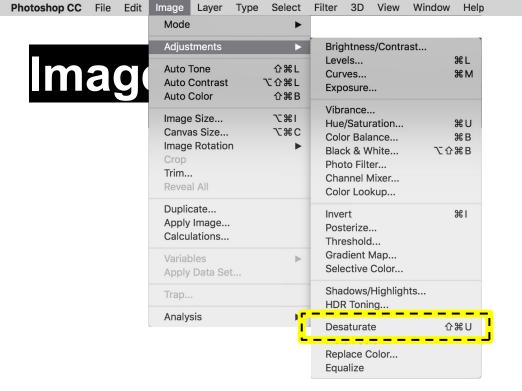


Image Menu → Adjustments → Desaturate



(Make the image grayscale).

Image Menu → **Adjustments** → **Desaturate**

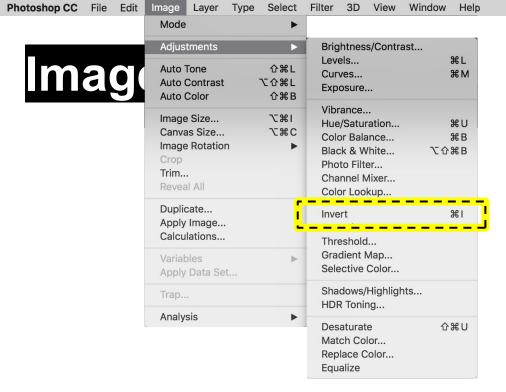
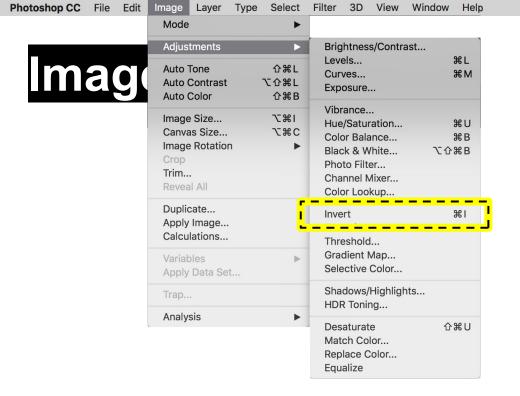


Image Menu → Adjustments → Invert



(Make bright values dark and make dark values bright).

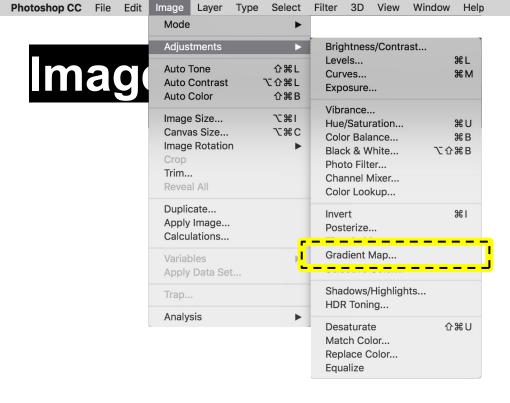


Image Menu → Adjustments → Gradient Map

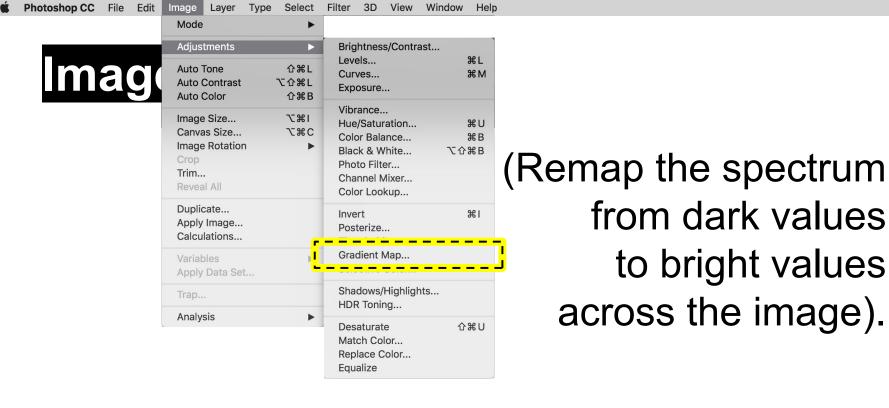


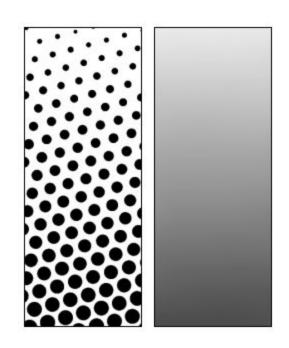
Image Menu → Adjustments → Gradient Map

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Halftone was originally used as a means to accurately reproduce photographic imagery on printing plates.

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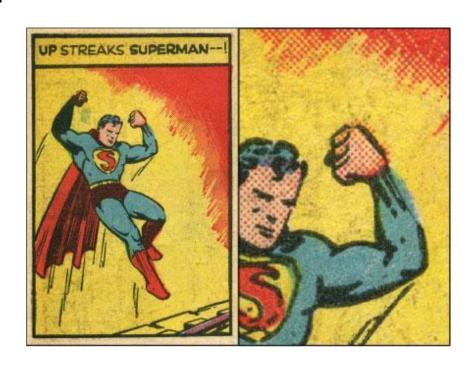




"<u>Hedcut</u>" style stipple portrait <u>Kevin Sprouls</u>, <u>The Wall Street Journal</u>



"<u>Hedcut</u>" style stipple portrait Kevin Sprouls, *The Wall Street Journal*



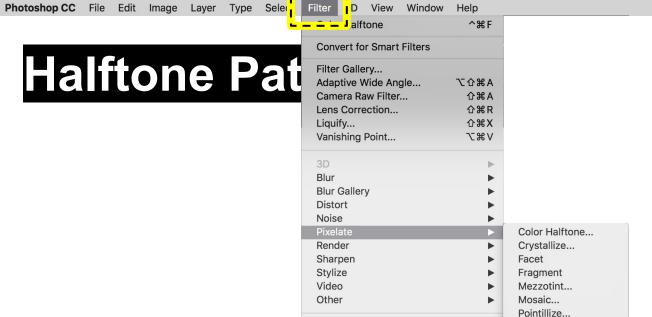


M-Maybe he became ill and couldn't leave the studio, c. 1965 Roy Lichtenstein 93.5 x 93.5 cm. (36.8 x 36.8 in.)

Photoshop CC File Edit Image Layer Type Select Filter D View Window Help

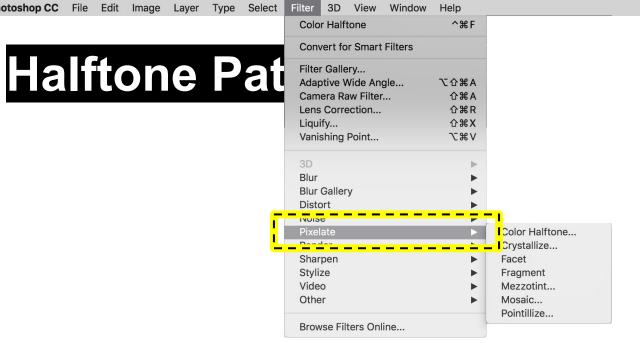
Halftone Patterns

Filter Menu →



Browse Filters Online...

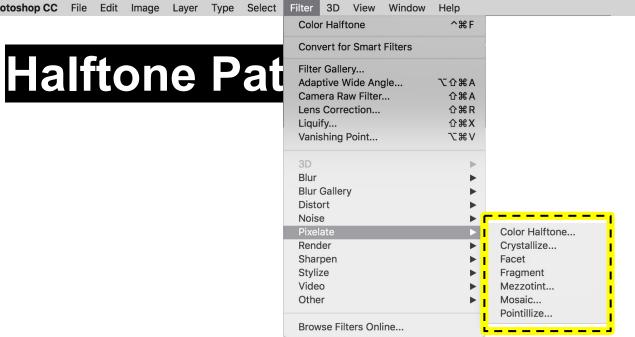
Filter Menu →



Filter Menu → **Pixelate**

Photoshop CC

File



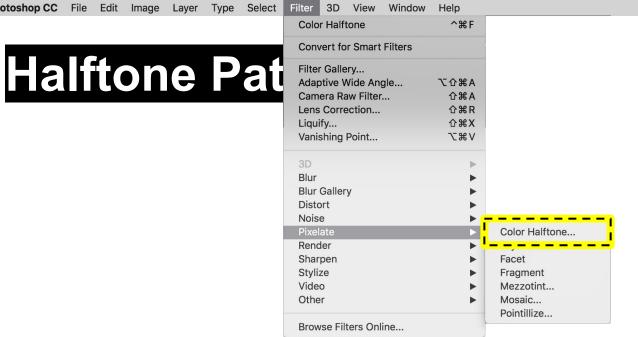
Filter Menu → **Pixelate**

Photoshop CC

File

Edit Image Layer

Type



Photoshop CC

File

Filter Menu → **Pixelate** → **Color Halftone**



Color Halftone		
Max. Radius:	8 (Pixels)	ок
Screen Angles (Degrees):		
Channel 1:	0	Default
Channel 2:	90	
Channel 3:	180	
Channel 4:	270	

Filter Menu → **Pixelate** → **Color Halftone**

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