

Pen Tools

Shape Tools

Web Images



Animations

Images

Animations

Chapter 7

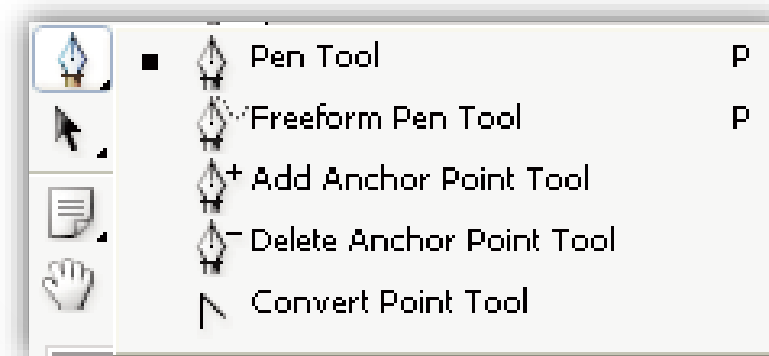
Pen & Shape Tools

PEN TOOLS

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Pen Tools

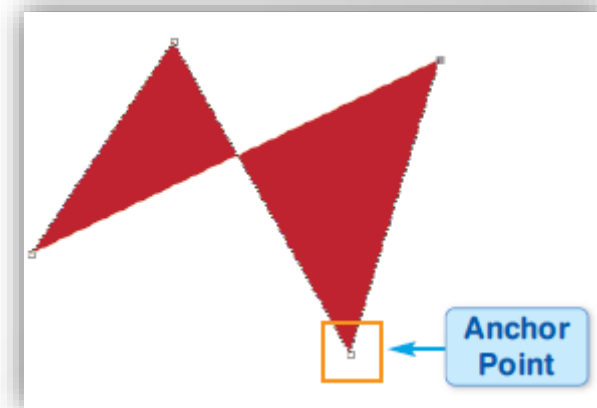
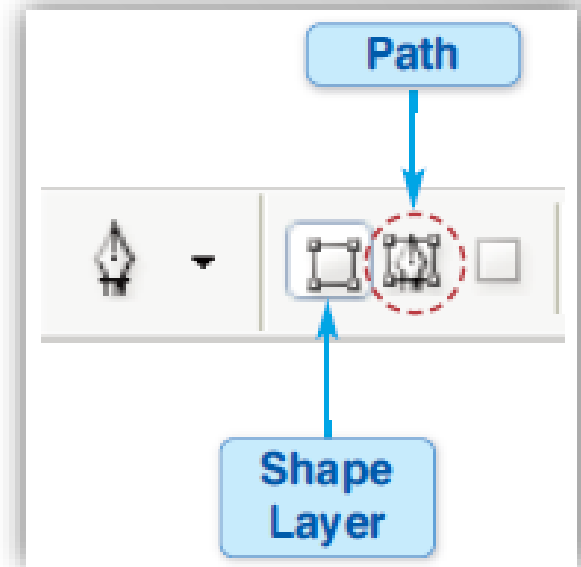
- **Pen Tool** is used to create vector shapes and to create vector paths that can be converted to selections. Anchor points are used to define, modify the segments that make the paths and shapes. In Photoshop, paths are the outlines of vector objects. As you see on the left side, when you click on the *Pen Tool* icon on the *Toolbox*, several pen tool options come. These tools are used to create, modify, add and delete the anchor points.



Pen Tool

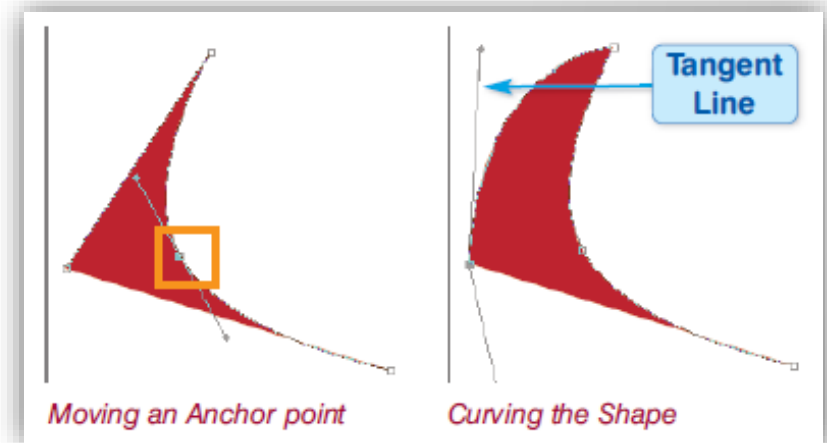
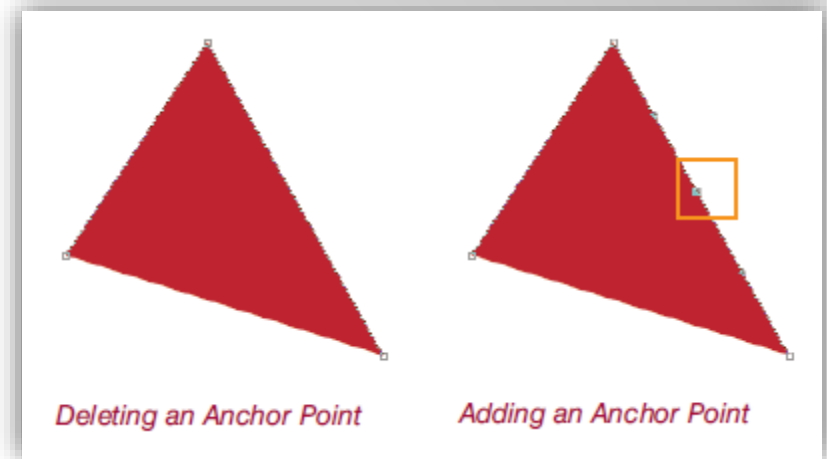
Basic Controls of the Pen Tool

- Before starting to draw a path with the Pen Tool we need to define the path's format from the Pen Tool toolbar on top of the screen. While the Shape Layer icon only creates a vector mask layer, the Path icon creates an empty path on the current layer.
- We will use the **Shape Layer** feature for now.
- Take the **Pen Tool** and click to several points on the empty canvas. Each time you click you create a new anchor point. The lines that connect to points are called segments.



Basic Controls of the Pen Tool

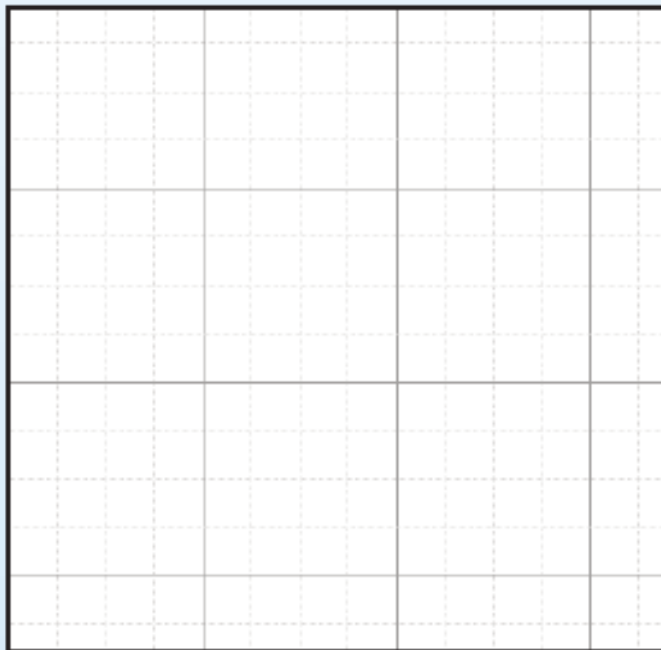
- Select the **Delete Anchor Point Tool** and remove one of the anchor points by clicking on it once.
- Select the **Add Anchor Point Tool** and add an anchor point. You can only add new anchor points between two anchor points on a segment.
- Press down the CTRL key and click-drag any anchor point to change its position.
- Select the **Convert Point Tool** and click on any anchor point to select and drag the tangent line to make curved segments.



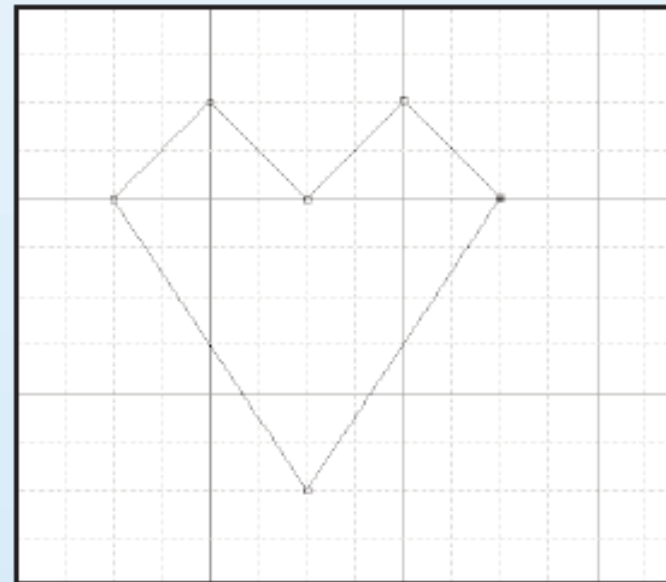
Practice : Drawing a Heart with the Pen Tool

The **Pen Tool** is one of most creative features of Photoshop. But for beginners it is not easy to handle. This practice will help you to improve your ability in controlling the Pen Tool.

1. Start with a document with the size of 400 x 400. We need some extra help from Photoshop in drawing. Click *View -> Show -> Grid*. These temporary lines will help you to draw symmetric paths.
2. Create a new layer. Select the *Pen Tool*. And be sure that *Path* is selected on *Pen Tool* toolbar.
3. Draw a polygonal shape.



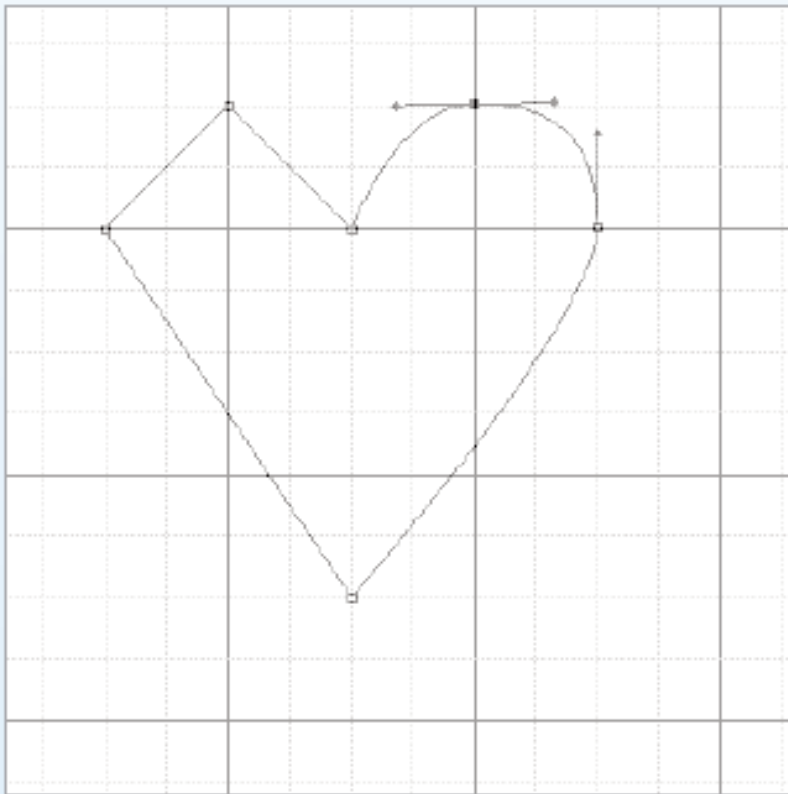
Grids



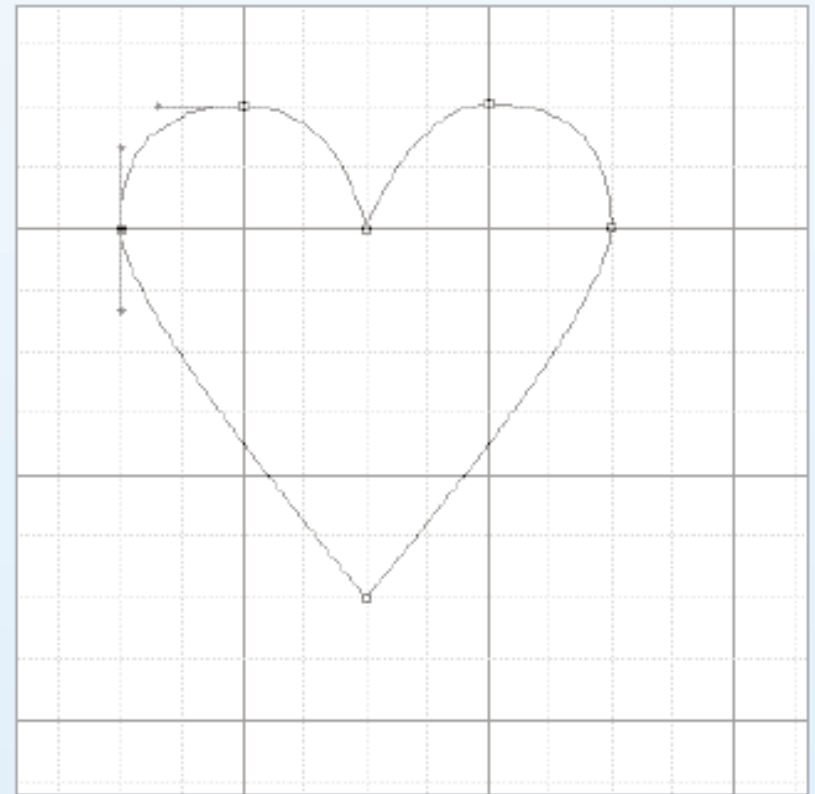
Drawing a Polygonal Shape

Practice : Drawing a Heart with the Pen Tool

4. First, select the *Convert Point Tool*. Then click once anywhere on our heart to display the anchor points. Use the *Convert Point Tool* to smooth the corners. Start with the right side of the heart and try to curve all segments until you see a nice heart.



Curving the Shape



Completing the Heart Shape

Practice : Drawing a Heart with the Pen Tool

5. How are we going to fill the drawing with colour? When the *Pen Tool* is still selected Right-Click on the heart and select *Make Selection*, then just press *OK* and leave the *Feather* amount **0** from the pop-up menu. Select any colour as the *Foreground* colour and Go to *Edit -> Fill -> Foreground color* and press *OK*. To remove the grids: *View -> Show -> Deselect Grid*.



The Final Image

SHAPE TOOLS

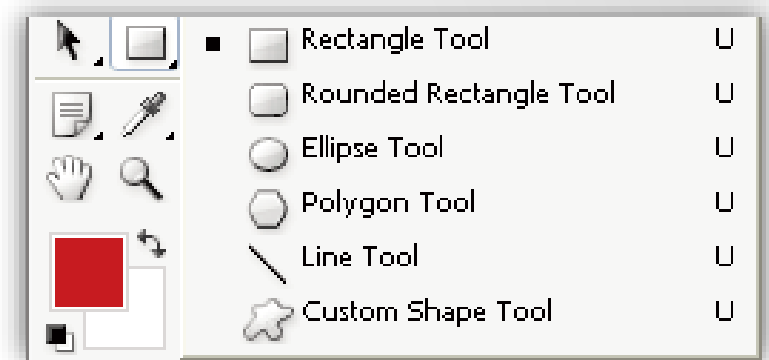
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Shape Tools



Custom Shapes Toolbar

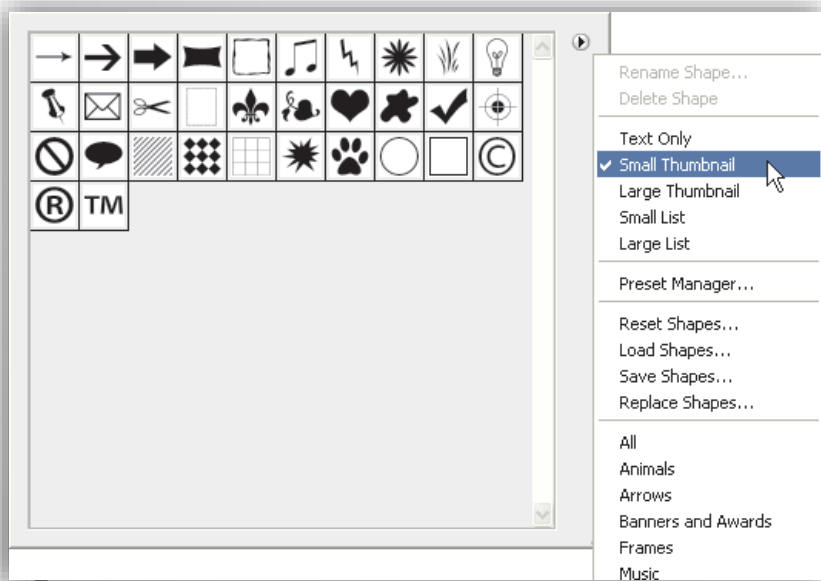
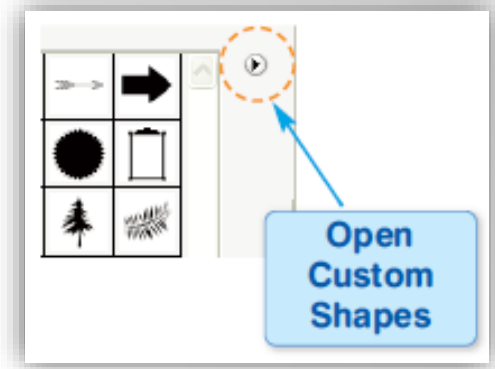
- You can use the **Vector Shape tools** to create geometrical shapes and **Custom Shapes**. Vector shapes can be resized without losing clarity because they are vector images.
- By using vector shapes, you can draw rectangle, ellipse, polygon, line, arrows, frames, talk bubbles, and so on.



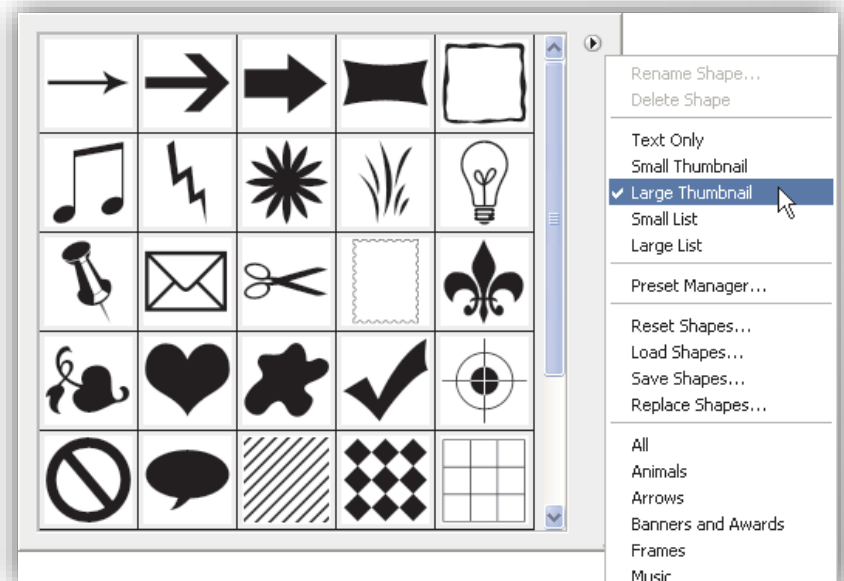
Shape Tools

Displaying Custom Shapes

- To see the display options, click on the small arrow of the **Custom Shapes** menu. There are five different views of shapes: Text Only, Small Thumbnail, Large Thumbnail, Small List, and Large List.
- The Small Thumbnail view is the most compatible view to see shapes. The following pictures show Small and Large Thumbnail views.



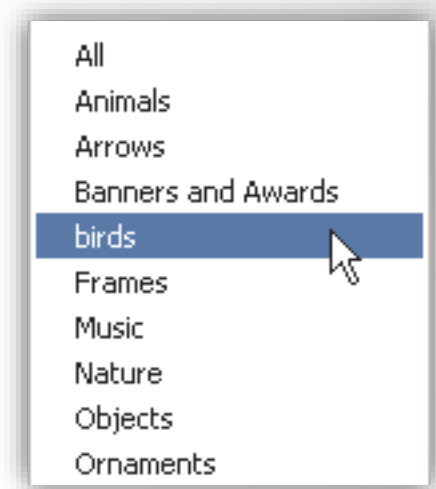
Small Thumbnail View



Large Thumbnail View

Loading Custom Shape Sets to Photoshop

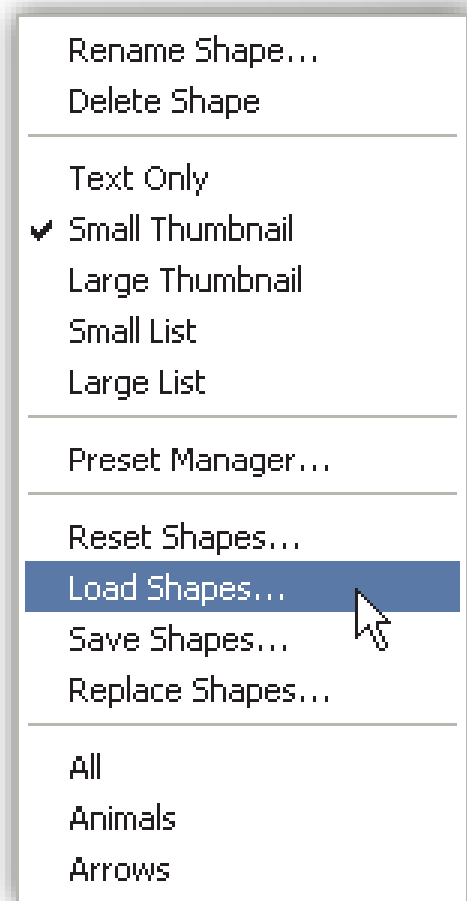
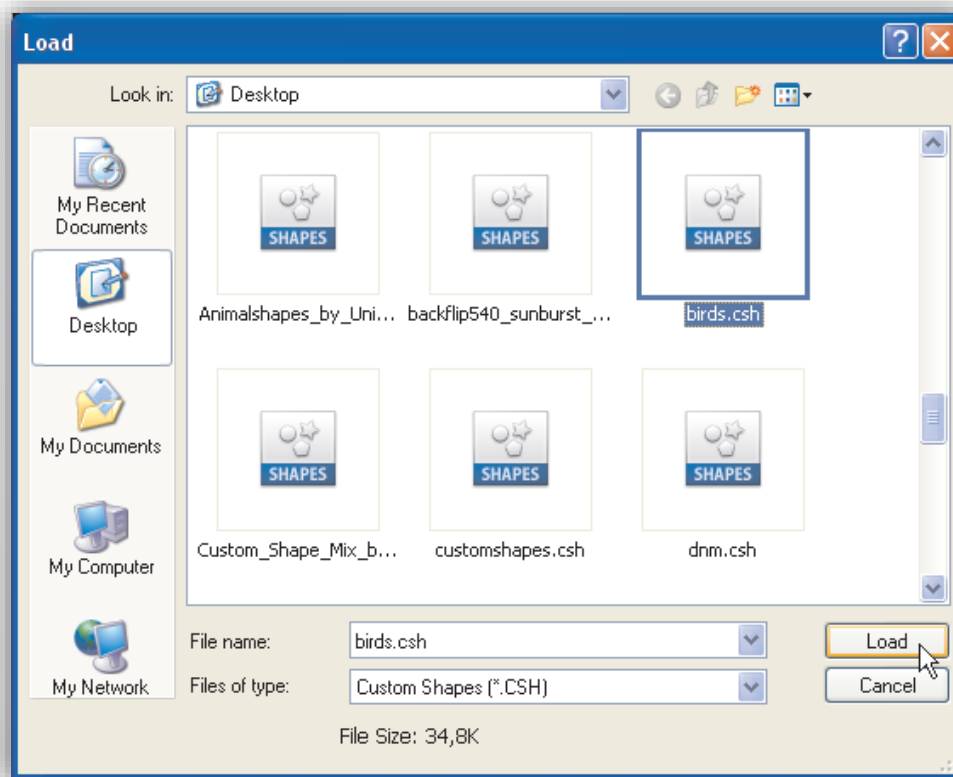
- The default shape sets of Photoshop are Animals, Arrows, Banners, Frames, Music, Nature, Objects, Ornaments, Shapes, Symbols, Talk bubbles, Tiles, and Web. You can add, rename, change, and delete shape sets. You can find many shape sets on the Internet. To use those sets in Photoshop, copy them into:
 - **C:\Program Files\Adobe\Adobe Photoshop CS3\Presets\Custom Shapes.**
- You will see your Shape Set among the others under the *Custom Shapes* menu. Your custom shape set will be in the list permanently. Here we copied the birds set to the given position and it is seen among other sets.



The Birds Set

Loading Custom Shape Sets to Photoshop

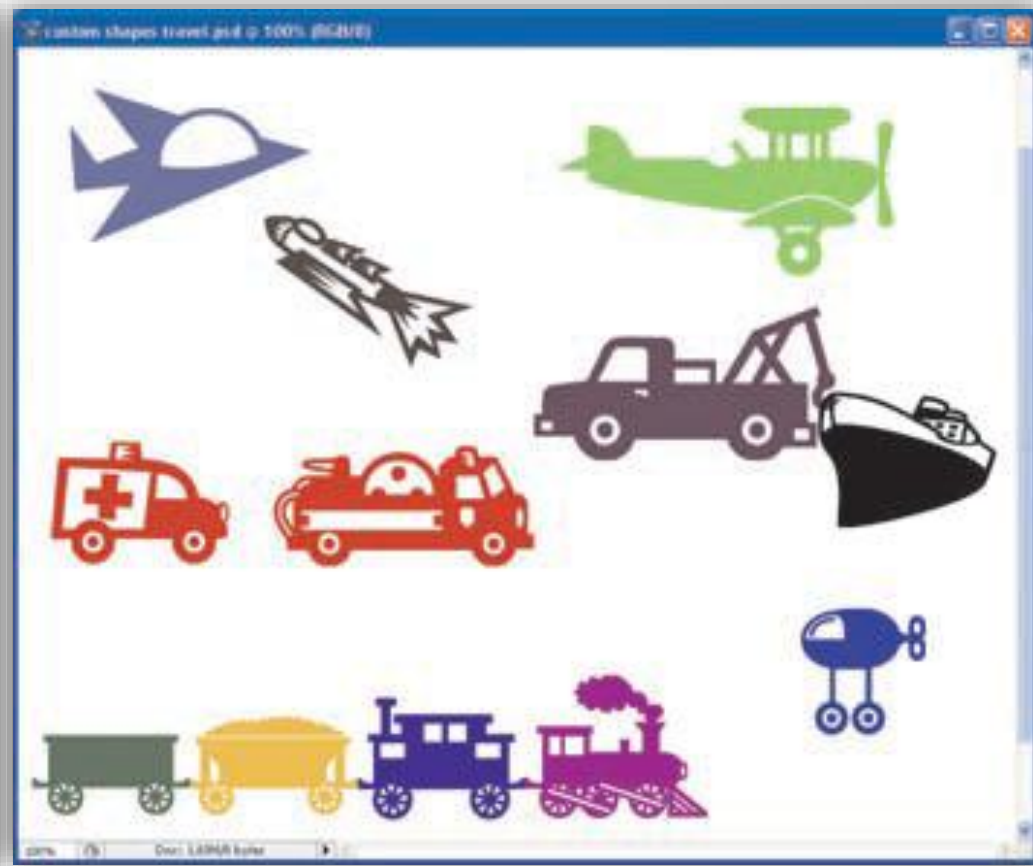
- If you want to load the shape sets for only one time use, click on *Load Shapes* in *View Selection* menu. By using Windows browser on your screen, go to the place of your set and select it, then click the *Load* button.



Loading Shapes

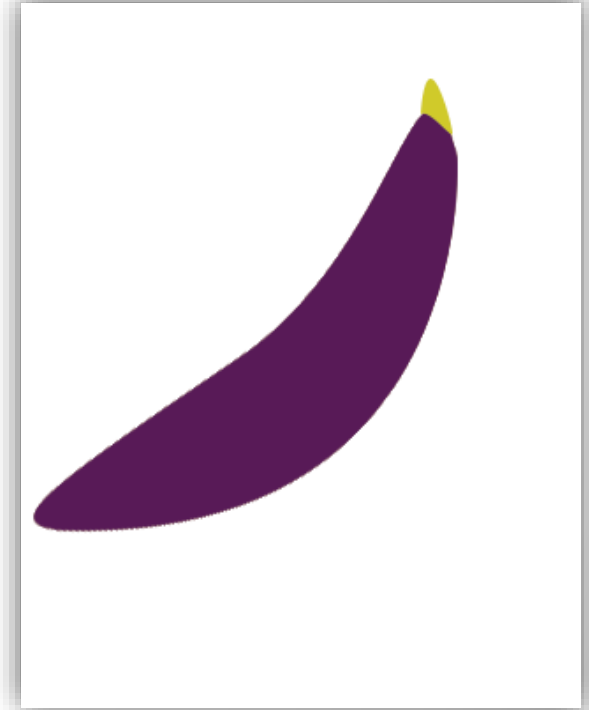
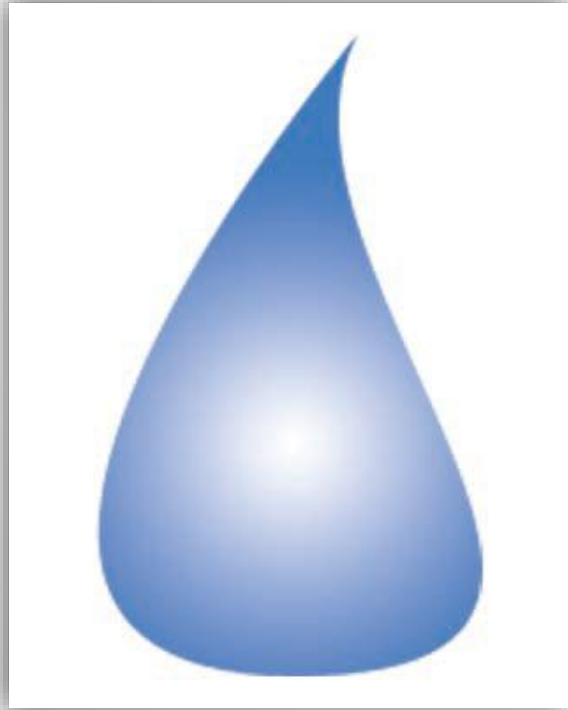
Practice

- **Custom Shapes** : Load the birds and cars shape sets and use them on your canvas.



Practice

- **Pen Tool** : Draw these shapes with the Pen tool and color them.

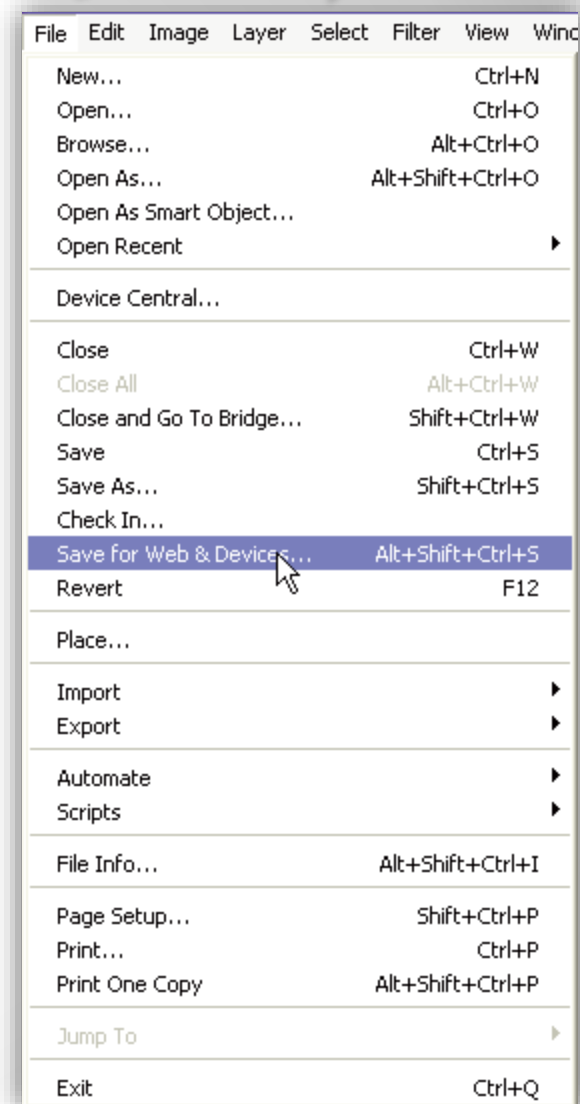


WEB IMAGES (GIF-JPG)

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Web Images (GIF-JPG)

- The size of picture and quality are the most important criteria for web images. The save for web option is a useful tool to optimize file size. Now you will see how different optimize types effect the pictures. Depending on the file format, you can specify image quality, background transparency or matting, and color display.
 - **Gif** : GIF is best for vector drawings and screenshots. On high quality pictures and gradient pictures, it doesn't give good results. Best for 8 bit (256 colors) images.
 - **Jpg** : The most used photo and web images format. JPG supports up to 32 bit(16.7 million colors). Quality determines the distortion of the image. Low quality will give more distorted images. For web applications 50, or 60 is quite well. And the file size will be small enough. The following samples show jpg files in different qualities.



Save for Web & Devices
Menu Item

Jpg and Gif Images in Different Qualities



Original: "9118.jpg"
1,54M

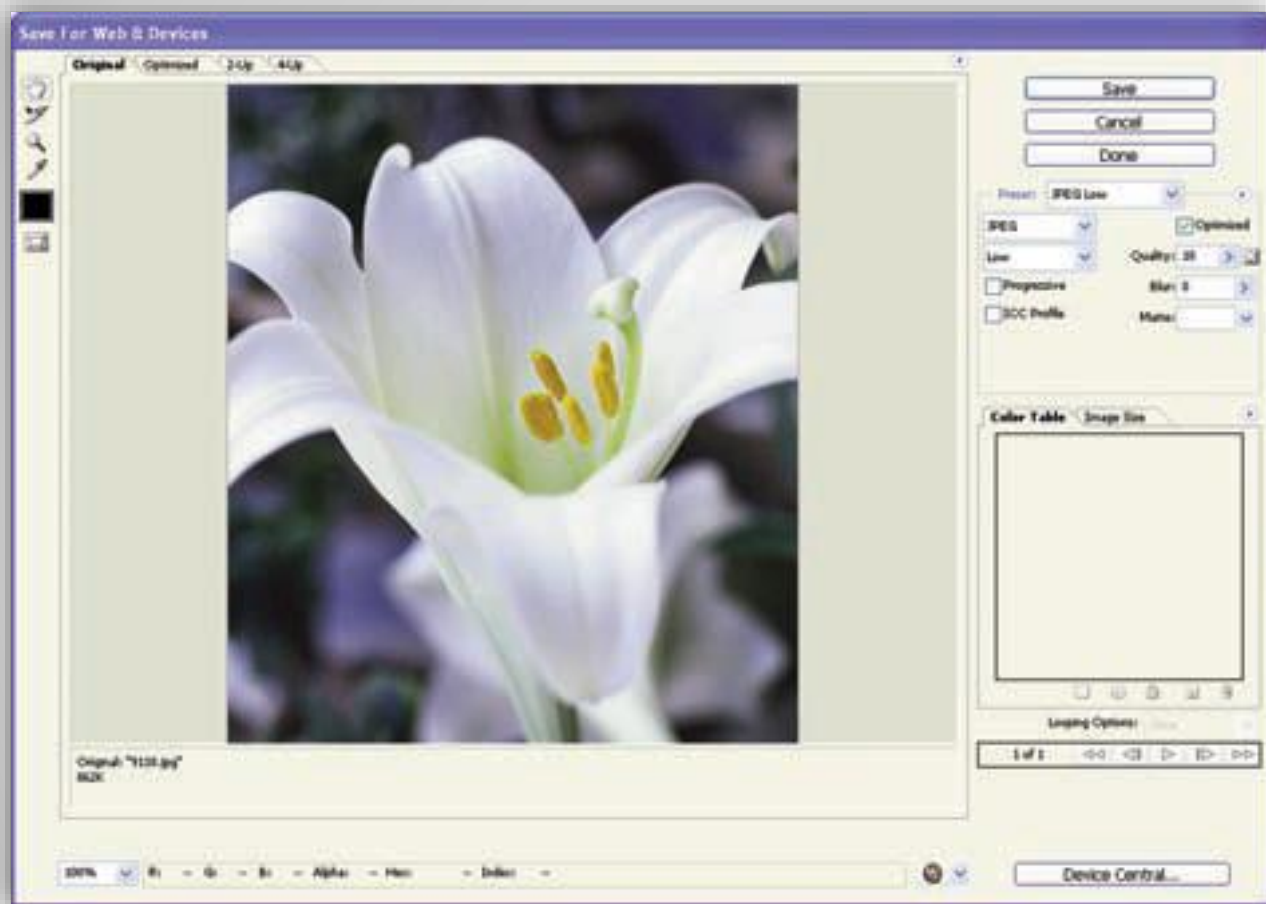


GIF
214,7K
77 sec @ 28.8 Kbps
88% dither
Selective palette
128 colors

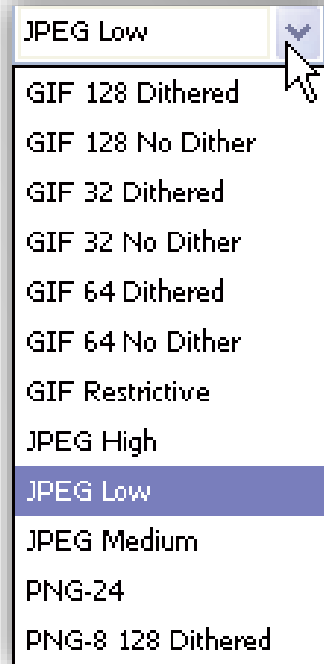


GIF
168,2K
61 sec @ 28.8 Kbps
87% dither
Selective palette
64 colors

Web Images



Save for Web Devices Window



Advance Quality Properties

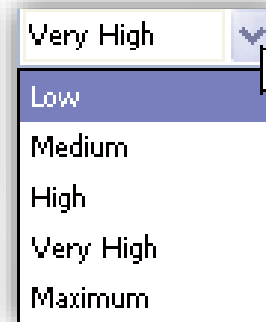


Image Quality

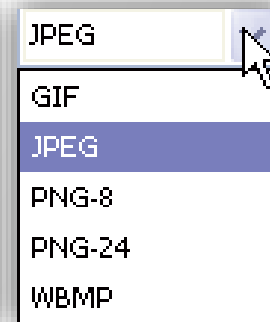


Image Type

Changing the Image Settings

Save For Web & Devices

Original Optimized 2-Up 4-Up

Format	File Size	Compression	Colors
Original: "9118.jpg"	862K		
GIF	117.1K	88% dither Selective palette	128 colors
PNG-8	104K	88% dither Selective palette	128 colors
WBMP	36.26K	88% dither	

50% R: -- G: -- B: -- Alpha: -- Hex: -- Index: --

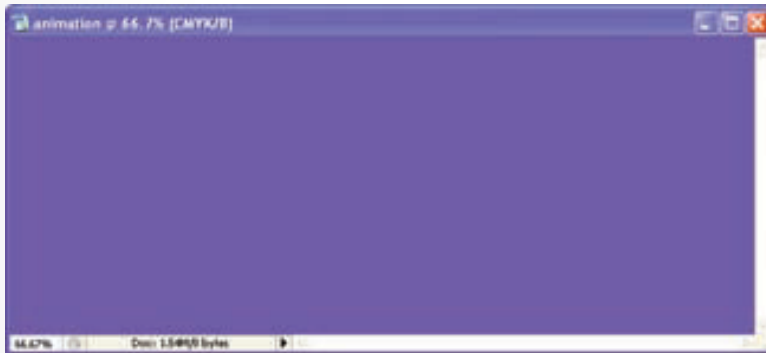
Device Central...

ANIMATIONS

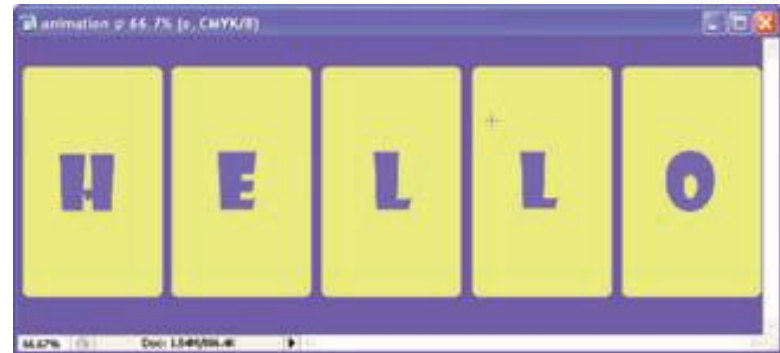
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Animations

1. Create an image in Photoshop as in the example. Use layers as the basis for the animation. The layers you create form the basic building blocks for the animation. Put elements you want to animate on separate layers.



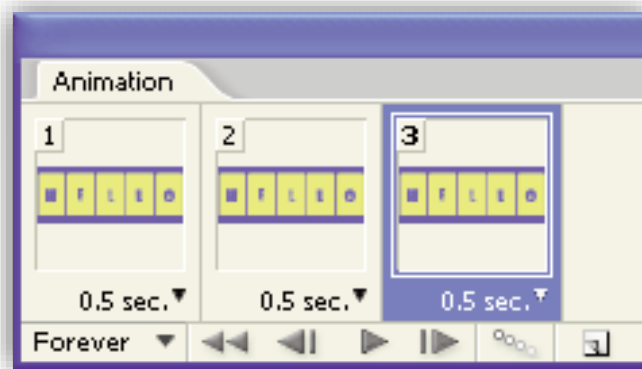
Creating a New Page



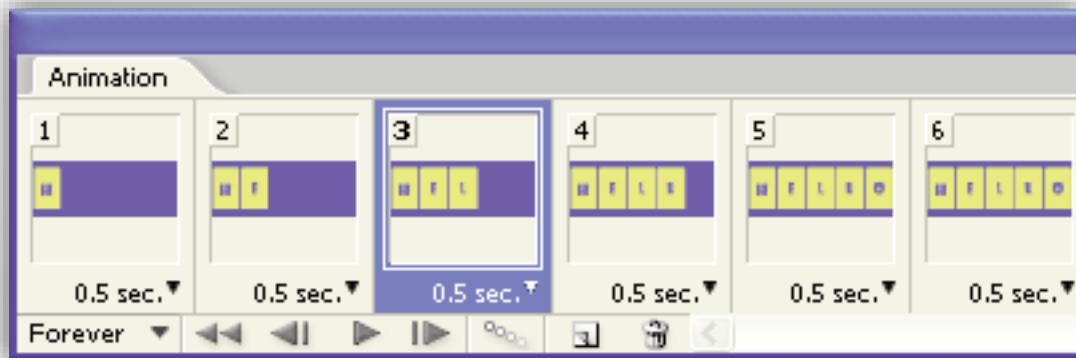
Adding the Letters in Separate Layers

Animations

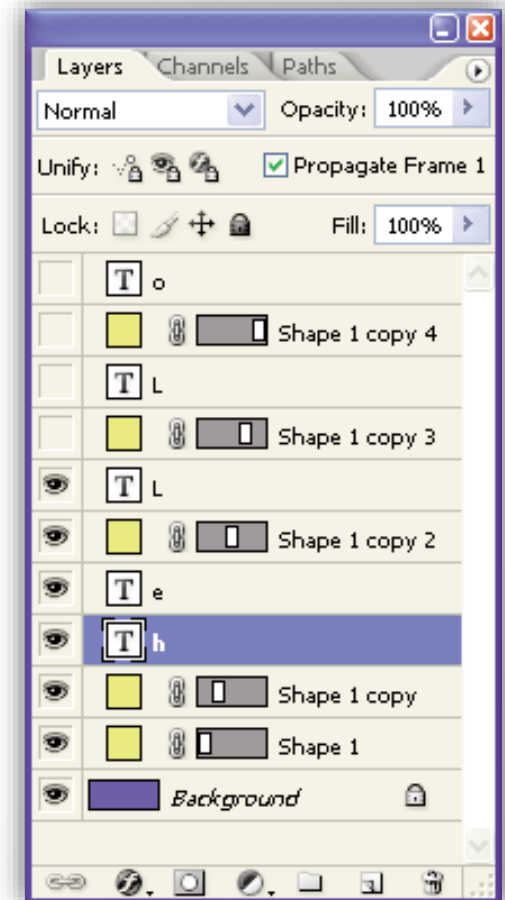
2. Duplicate the layers 5 times. Hide any layers containing elements you do not want to appear at the start of the animation.



Duplicating Animation Layers



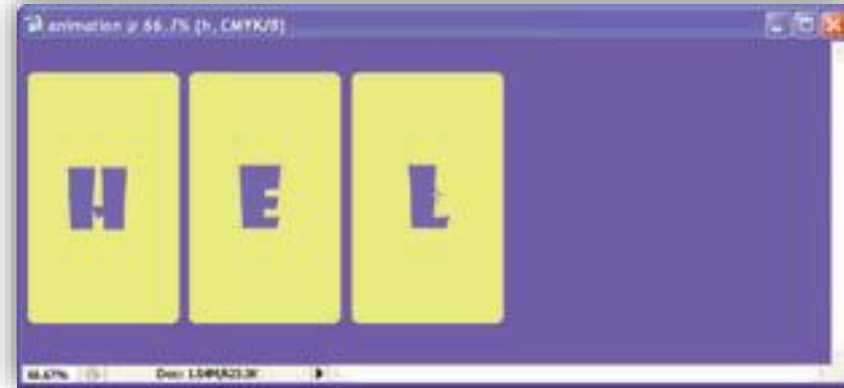
Settings Frames' Delay Times



Hiding/Unhiding Layers

Animations

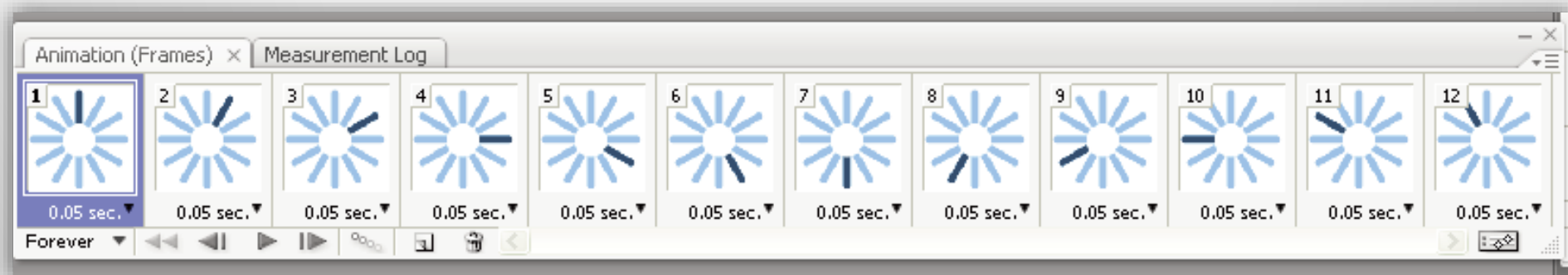
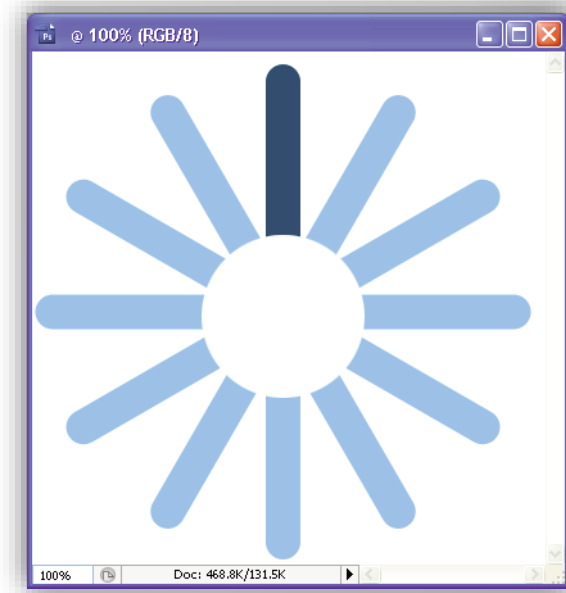
3. Choose **Window -> Animation** to show the animation palette if it is not already showing. Choose **New Frame** from the palette's pop-up menu, or click the **new frame** button.



The Final Animation

Practice : Loading Sign Animation

- You can make a rotating wheel like in the example, or you can make your own design.



The End

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