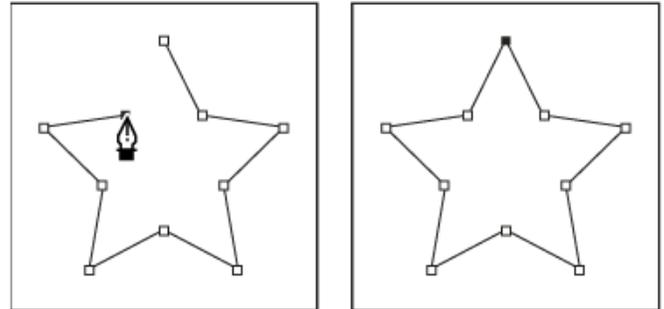




## Drawing with the Pen tool

### Draw straight line segments with the Pen tool

The simplest path you can draw with the Pen tool is a straight line, made by clicking the Pen tool to create two anchor points. By continuing to click, you create a path made of straight line segments connected by corner points.



### Clicking Pen tool creates straight segments

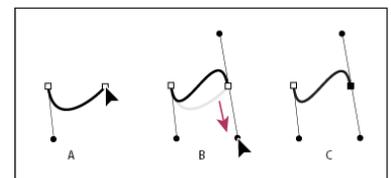
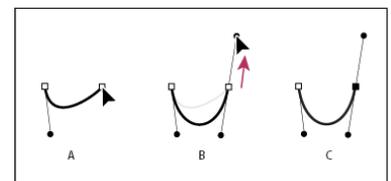
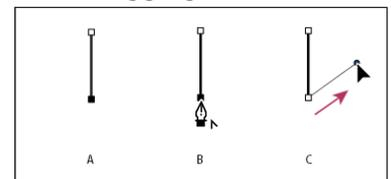
1. Select the Pen tool (p).
2. Position the Pen tool where you want the straight segment to begin, and click to define the first anchor point (do not drag).  
*Note: The first segment you draw will not be visible until you click a second anchor point. Also, if direction lines appear, you've accidentally dragged the Pen tool; choose Edit > Undo, and click again.*
3. Click again where you want the segment to end (Shift-click to constrain the angle of the segment to a multiple of 45°).
4. Continue clicking to set anchor points for additional straight segments.  
*The last anchor point you add always appears as a solid square, indicating that it is selected. Previously defined anchor points become hollow, and deselected, as you add more anchor points.*
5. Complete the path by doing one of the following:
  - To close the path, position the Pen tool over the first (hollow) anchor point. A small circle appears next to the Pen tool pointer when it is positioned correctly. Click or drag to close the path  
*Note: To close a path, you can also select the path and use Ctrl-J.*
  - To leave the path open, Ctrl-click (Windows) or Cmdd-click (Mac OS) anywhere away from all objects.
  - To leave the path open, you can also select a different tool, or choose Select > Deselect.

## Draw curves with the Pen tool

You create a curve by adding an anchor point where a curve changes direction, and dragging the direction lines that shape the curve. The length and slope of the direction lines determine the shape of the curve.

Curves are easier to edit and your system can display and print them faster if you draw them using as few anchor points as possible. Using too many points can also introduce unwanted bumps in a curve. Instead, draw widely spaced anchor points, and practice shaping curves by adjusting the length and angles of the direction lines.

1. Select the Pen tool.
2. Position the Pen tool where you want the curve to begin, and hold down the mouse button  
The first anchor point appears, and the Pen tool pointer changes to an arrowhead. (In Photoshop, the pointer changes only after you've started dragging.)
3. Drag to set the slope of the curve segment you're creating, and then release the mouse button.

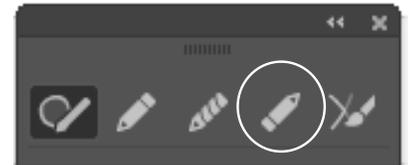




4. Position the Pen tool where you want the curve segment to end, and do one of the following:
  - To create a C-shaped curve, drag in a direction opposite to the previous direction line. Then release the mouse button.
  - To create an S-shaped curve, drag in the same direction as the previous direction line. Then release the mouse button.
5. Complete the path by doing one of the following:
6. To close the path, position the Pen tool over the first (hollow) anchor point. A small circle appears next to the Pen tool pointer when it is positioned correctly. Click or drag to close the path.
7. To get out of the Pen tool, press Esc key.
8. To leave the path open, Ctrl-click anywhere away from all objects. You can also select a different tool, or choose Select > Deselect.
9. To further smooth a path, select the Smooth tool (grouped under the Shaper tool). Draw along the path you'll like to smooth. It will help to smooth out the path.

## Erasing Paths or Areas

You can erase portions of your artwork using the Path Eraser tool (grouped under the Shaper tool) or the Eraser tool. The Path Eraser tool lets you erase parts of a path by drawing along the path. This tool is useful when you want to limit what you erase to a path segment, such as one side of a triangle.



The Eraser tool lets you erase any area of your artwork, regardless of structure. You can use the Eraser tool on paths, compound paths, paths inside Live Paint groups, and clipping paths.



When you use the Eraser tool to erase part of an area, that area will be divided into 2 separated areas minus the portion you just erased.

You can also cut up an area using the knife tool. Use the Scissors tool to cut a stroke.

## Drawing with the Curvature tool

The Curvature tool simplifies path creation and makes drawing easy and intuitive. Interestingly, the tool creates the same types of paths that the Pen tool creates—both curved and straight—but without having to fuss with direction handles.

- Select the Curvature tool (Shift + ~) 
- Drop two points on the artboard, and then view the rubber band preview display the shape of the resulting path depending on where you hover your mouse.
- Use the mouse to drop a point to create a smooth point.
- To create a corner point double-click on an existing point or press the Alt key while clicking.
- Option (Mac) / Alt (Win) + click to continue adding points to an existing path or shape.
- Click a point or and then drag the point to move it.
- Click a point and press Delete to delete the point. The curve is maintained.
- Press the Esc key to stop drawing.
- Click on the path between points to add another point

