

Illustrator CS4 tools panel all 77 tools plus shortcuts and modifier keys

SELECTION TOOLS

- Selection (V)** cmd/ctrl invokes Direct Selection; opt/alt duplicates; shift constrains motion and scales proportionally; spacebar invokes panning hand; double-clicking group enters isolation mode
- Direct Selection (A)** cmd/ctrl invokes Selection; opt/alt selects all anchor points; shift constrains motion; spacebar invokes hand
- Group Selection** cmd/ctrl invokes Selection; opt/alt invokes Direct Selection; shift key stops group selection; spacebar invokes hand
- Magic Wand (Y)** double-click for panel options; cmd/ctrl invokes last-used selection tool; shift adds to selected colors; opt/alt takes away from selected colors; spacebar invokes panning hand
- Lasso (Q)** cmd/ctrl invokes last-used selection tool; shift adds to selected anchor points; opt/alt deselects anchor points; spacebar invokes hand
- Artboard (Shift+O)** double-click for Artboard options; cmd/ctrl invokes last-used selection tool; shift constrains to draw square artboard; opt/alt duplicates current artboard and objects; spacebar invokes panning hand

DRAWING TOOLS

- Pen (P)** cmd/ctrl invokes last-used selection tool; shift constrains to 0°, 45°, 90°; opt/alt invokes Convert Anchor Point tool; spacebar interrupts to move anchor point; cmd/ctrl + opt/alt selects all anchor points
- Add Anchor Point (Shift+P)** opt/alt invokes Delete Anchor Point tool; cmd/ctrl invokes last-used selection tool; spacebar invokes panning hand
- Delete Anchor Point (-)** opt/alt invokes Add Anchor Point tool; cmd/ctrl invokes last-used selection tool; spacebar invokes panning hand
- Convert Anchor Point (Shift+C)** drag anchor to curve; click anchor to make sharp corner; shift constrains to 0°, 45°, 90°; opt/alt duplicates path; cmd/ctrl invokes last-used selection tool; spacebar invokes panning hand
- Line Segment (L)** double-click tool or click artboard for Line Segment Tool options; shift constrains angle to 0°, 45°, 90°; opt/alt draws from center; spacebar interrupts drawing to move object; ~ key drag draws array of lines; cmd/ctrl invokes last-used selection tool;
- Arc** double-click tool or click artboard for Arc Segment Tool options; shift constrains proportions; opt/alt draws from center; spacebar interrupts drawing to move; Tilde ~ key plus drag draws array of arc segments; C while dragging makes closed/open arc; F or X while dragging flips arc to a concave/convex path; ↑/↓ arrow keys while dragging changes arc angle in 5% increments; cmd/ctrl invokes last-used selection tool
- Spiral** double-click tool or click artboard for Spiral options; cmd/ctrl while dragging changes decay rate; shift constrains to 0°, 45°, 90°; opt/alt while dragging adds or subtracts winds from spiral while changing length of spiral; spacebar interrupts drawing to move object; cmd/ctrl plus opt/alt to reset the spiral tool
- Rectangular Grid** double-click tool or click artboard for Rectangular Grid Tool options; cmd/ctrl invokes last-used selection tool; shift constrains to square; opt/alt draws from center; spacebar interrupts drawing to move; V F C or X while dragging to change skew values by 10%; ↑/↓/←/→ arrow keys while dragging to change number of lines
- Polar Grid** double-click tool or click artboard for Polar Grid Tool options; cmd/ctrl invokes last-used selection tool; shift constrains to square; opt/alt draws from center; spacebar interrupts drawing to move; V or F or C or X while dragging to change skew values by 10%; ↑/↓/←/→ arrow keys while dragging to change number of lines
- Rectangle (M)** click the artboard for Rectangle dialog box; cmd/ctrl invokes last-used Selection tool; shift constrains square; opt/alt draws from center; spacebar interrupts drawing to move object
- Rounded Rectangle** click the artboard for Rounded Rectangle dialog box; cmd/ctrl invokes last-used Selection tool; shift constrains square; opt/alt draws from center; spacebar interrupts drawing to move object; ↑/↓ arrows change corner radius in 1pt increments
- Ellipse (L)** click the artboard for Ellipse dialog box; shift constrains to circle; opt/alt draws from center; spacebar interrupts drawing to move object; cmd/ctrl invokes last-used selection tool
- Polygon** click the artboard for Polygon dialog box; cmd/ctrl invokes last-used selection tool; shift constrains bottom horizontal; opt/alt draws from center; spacebar interrupts drawing to move object; ↑/↓ arrows while dragging changes number of sides
- Star** click the artboard for Star dialog box; cmd/ctrl invokes last-used Selection tool; shift constrains bottom side horizontal; opt/alt draws from center; spacebar interrupts drawing to move object; ↑/↓ arrows while dragging changes number of sides; cmd/ctrl while dragging holds inner radius still
- Flare** double-click tool or click the artboard for Flare Tool options; drag to place the center handle of the flare, then drag to set the size of the center, the size of the halo, and to rotate angle of rays. While dragging, press Shift to constrain rays. ↑/↓ arrow to add or subtract rays; cmd/ctrl to hold the center of the flare constant. Drag again to add rings to the flare and place end handle. While dragging, ↑/↓ arrows add or subtract rings. Tilde key randomly places rings. Each element (center, halo, rings, and rays) is filled with color at different opacity settings
- Pencil (N)** double-click tool for Pencil Tool options; cmd/ctrl invokes last-used selection tool; opt/alt invokes Smooth tool; opt/alt dragging closes path; cmd/ctrl while dragging connects two selected paths
- Smooth** double-click for Smooth Tool options; cmd/ctrl invokes last-used selection tool; spacebar invokes panning hand
- Erase** opt/alt invokes Smooth tool; cmd/ctrl invokes last-used selection tool; spacebar invokes panning hand

MOVING AND ZOOMING TOOLS

- Hand (H)** double-click fits artboard in window; drag to pan view; cmd/ctrl invokes last-used selection tool
- Print Tiling** click or drag to position; double-click to reset; cmd/ctrl invokes last-used selection tool; spacebar invokes panning hand
- Zoom (Z)** double-click zooms to 100%; aka Actual Size; opt/alt zooms out; cmd/ctrl invokes last-used selection tool; spacebar invokes panning hand

TYPE TOOLS

- Type (T)** click for point type or drag for area/paragraph type; return/enter for new line or paragraph; click a path shape to convert to area type object; cmd/ctrl invokes last-used selection tool; shift key invokes Vertical Type tool; double-click tool for Area Type options
- Area Type** clicks on the path of a drawn object to convert to a type area; cmd/ctrl invokes last-used selection tool; click near top of type area to insert cursor; double-click tool for Area Type options
- Type on a Path (Shift+T)** double-click for Type on a Path options; shift invokes Vertical Type on a Path tool; while dragging center bracket, hold cmd/ctrl key to prevent flipping over path; cmd/ctrl invokes last-used selection tool
- Vertical Type** click for point type or drag for area/paragraph type; return/enter for new line; click a path shape to convert to area type object; shift key invokes Type tool; double-click tool for Area Type options; cmd/ctrl invokes last-used selection tool
- Vertical Area Type** double-click tool for Area Type options; clicks on the path of a drawn object to convert to a type area; click near top of type area to insert cursor; cmd/ctrl invokes last-used selection tool
- Vertical Type on a Path** double-click for Type on a Path options; shift invokes Type on a Path tool; while dragging center bracket, hold cmd/ctrl key to prevent flipping over path; cmd/ctrl invokes last-used selection tool

PAINTING TOOLS

- Paintbrush (B)** double-click for Paintbrush Tool options; shift constrains to 0°, 45°, 90°; opt/alt invokes Smooth tool; cmd/ctrl invokes last-used selection tool
- Blob Brush (Shift+B)** double-click tool for Blob Brush Tool options; shift constrains to 0°, 45°, 90°; opt/alt invokes Smooth tool; works with calligraphy brushes; cmd/ctrl invokes last-used selection tool; spacebar invokes panning hand
- Mesh (U)** click to add a mesh point; opt/alt to remove a mesh point; shift to drag a mesh point along mesh line; spacebar invokes panning hand; cmd/ctrl to invoke last-used selection tool
- Gradient (G)** opt/alt dragging gradient annotator endpoint changes radius and angle; opt/alt dragging across multiple selected objects makes multiple gradient sliders; shift constrains to 0°, 45°, 90°; cmd/ctrl invokes last-used selection tool; spacebar invokes panning hand
- Eyedropper (I)** double-click tool for Eyedropper Options; opt/alt applies attributes to unselected object; shift click to sample only color from a portion of gradient, pattern, mesh, or image; shift then opt/alt to add the appearance attributes to selected object; cmd/ctrl invokes last-used selection tool; spacebar invokes panning hand
- Measure** double-click tool for Guides and Grid preferences; cmd/ctrl invokes last-used selection tool; shift constrains to 0°, 45°, 90°; spacebar invokes panning hand
- Live Paint Bucket (K)** double-click tool for Live Paint Bucket Options; click to paint face; drag to paint multiple faces; double-click to flood into adjacent faces; triple-click to paint all faces with same fill; shift paints strokes only; click an edge to stroke; double-click an edge to stroke all connected edges; triple-click an edge to stroke all edges of same stroke; cmd/ctrl invokes last-used selection tool; opt/alt invokes eyedropper; spacebar invokes panning hand
- Live Paint Selection (Shift+L)** double-click tool for Live Paint Selection Options; click to select face or edge; drag to select multiple faces and edges; double-click to select contiguous faces; triple-click to select all faces or edges with same fill or stroke; shift click or shift drag to add or remove items from selection; cmd/ctrl invokes last-used selection tool; opt/alt invokes eyedropper; spacebar invokes panning hand

FILL AND STROKE CONTROLS

- Fill Button** double-click fill button for Color Picker; x activates stroke or fill
- Stroke Button (X)** double-click for Color Picker; x activates fill or stroke
- Swap Fill and Stroke (Shift X)** shift x swaps fill and stroke colors
- Default Fill and Stroke (D)** d sets fill to white and stroke to black
- Apply Color (<)**
- Apply Gradient (>)** cmd/ctrl click resets mid-point blend diamond to 50% position
- None Button (/)**

SLICING AND CUTTING TOOLS

- Slice (Shift+K)** shift drag to constrain square; opt/alt drag to draw from center; cmd/ctrl invokes last-used selection tool; spacebar invokes panning hand
- Slice Select** click to select; shift click to select multiple slices; shift drag selects multiple slices; cmd/ctrl invokes last-used selection tool; spacebar invokes panning hand
- Eraser (Shift+E)** double-click for Eraser Tool Options dialog box; square bracket keys resize brush diameter; shift constrains to 0°, 45°, 90°; opt/alt drag erases rectangular region; cmd/ctrl invokes last-used selection tool; spacebar invokes panning hand
- Scissors (C)** opt/alt invokes Add Anchor Point Tool; cmd/ctrl invokes last-used selection tool; spacebar invokes panning hand
- Knife** opt/alt constrains to a straight cut; cmd/ctrl invokes last-used selection tool; spacebar invokes panning hand

SCREEN MODES

- Normal Screen Mode (F)
- Full Screen with Menu (F)
- Full Screen Mode (F)

RESHAPING TOOLS

- Rotate (R)** double-click tool for Rotate dialog box; opt/alt click to set centerpoint of rotation; cmd/ctrl invokes last-used selection tool; shift dragging constrains to 0°, 45°, 90°; drag then opt/alt rotates a copy; spacebar invokes panning hand
- Reflect (O)** double-click tool for Reflect dialog box; opt/alt click to set axis reference point; click once, reposition, then click second time to set reflection axis; cmd/ctrl invokes last-used selection tool; shift dragging constrains to 90°; drag then opt/alt rotates a copy; spacebar invokes panning hand
- Scale (S)** double-click tool for Scale dialog box; shift drag to scale horizontally, vertically, or proportionally by shift-dragging diagonally; opt/alt scales a copy; click to set vanishing reference point, then reposition mouse and drag toward or away from vanishing point; cmd/ctrl invokes last-used selection tool; spacebar invokes panning hand
- Shear** double-click tool for Shear dialog box; opt/alt click to set reference point and open Shear dialog box; click once, reposition, then drag to slant; cmd/ctrl invokes last-used selection tool; shift dragging constrains width or height; drag then opt/alt shears a copy; spacebar invokes panning hand
- Reshape** position cursor over the anchor point or especially a path segment and click to make focus; shift-click to add more focus points; cmd/ctrl invokes last-used selection tool; shift-dragging constrains; opt/alt dragging duplicates; spacebar invokes panning hand
- Warp (Shift+R)** double-click tool for Warp Tool Options dialog box; shift dragging constrains to 90°; opt/alt drag to change brush ellipse; shift opt/alt drag changes brush circular diameter; spacebar invokes panning hand; cmd/ctrl invokes last-used selection tool
- Twirl** double-click tool for Twirl Tool Options dialog box; otherwise same as Warp tool
- Pucker** double-click tool for Pucker Tool Options dialog box; otherwise same as Warp tool
- Bloat** double-click tool for Bloat Tool Options dialog box; otherwise same as Warp tool
- Scallop** double-click tool for Scallop Tool Options dialog box; otherwise same as Warp tool
- Crystallize** double-click tool for Crystallize Tool Options dialog box; otherwise same as Warp tool
- Wrinkle** double-click tool for Wrinkle Tool Options dialog box; otherwise same as Warp tool
- Free Transform (E)** drag bounding box handle to scale; shift drag handle to scale proportionately; opt/alt shift drag handle to scale from center; drag near handle to rotate; shift drag near handle constrains to 0°, 45°, 90°; spacebar invokes panning hand; cmd/ctrl invokes last-used selection tool
- Blend (W)** double-click tool for Blend Options; opt/alt click blend object for Blend Options; spacebar invokes panning hand; cmd/ctrl invokes last-used selection tool; edit spine with pen or selection tool

SYMBOL TOOLS

- Symbol Sprayer (Shift+S)** double-click for Symbolism Tools Options dialog box; square brackets change brush size; shift square brackets changes intensity; opt/alt key reverses action; spacebar invokes panning hand; cmd/ctrl invokes last-used selection tool
- Symbol Shifter** double-click for Symbolism Tools Options dialog box; square brackets change brush size; shift square brackets changes intensity; opt/alt key reverses action; shift brings symbol instances forward; shift opt/alt sends symbol instances backward; spacebar invokes panning hand; cmd/ctrl invokes last-used selection tool
- Symbol Scruncher** same as Symbol Sprayer tool
- Symbol Sizer** double-click for Symbolism Tools Options dialog box; square brackets change brush size; shift square brackets changes intensity; opt/alt key reverses action; shift removes symbol instances; spacebar invokes panning hand; cmd/ctrl invokes last-used selection tool
- Symbol Spinner** double-click for Symbolism Tools Options dialog box; spacebar invokes panning hand; cmd/ctrl invokes last-used selection tool
- Symbol Stainer** double-click for Symbolism Tools Options dialog box; square brackets change brush size; shift square brackets changes intensity; opt/alt key reverses action; shift maintains tint intensity; spacebar invokes panning hand; cmd/ctrl invokes last-used selection tool
- Symbol Screener** same as Symbol Sprayer tool
- Symbol Styler** double-click for Symbolism Tools Options dialog box; square brackets change brush size; shift square brackets changes intensity; opt/alt key reverses action; shift maintains style intensity; cmd/ctrl invokes last-used selection tool; spacebar invokes panning hand

GRAPH TOOLS

- Column Graph (J)** click or drag on artboard to define area size; shift constrains to square; cmd/ctrl invokes last-used selection tool; spacebar invokes panning hand
- Stacked Column Graph** same as column graph
- Bar Graph** same as column graph
- Stacked Bar Graph** same as column graph
- Line Graph** same as column graph
- Area Graph** same as column graph
- Scatter Graph** same as column graph
- Pie Graph** same as column graph
- Radar Graph** same as column graph