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# Illustrator CS5 tools panel all 81 tools plus shortcuts and modifier keys

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## 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** = Selection; **opt/alt** = all anchor points; **shift** constrains; **spacebar** = hand
- Group Selection** **opt/alt** = Direct Selection; **shift** key stops group selection; **spacebar** = 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

## DRAWING AND TYPE 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+~)** **opt/alt** = Delete Anchor Point tool; **cmd/ctrl** = selection tool; **spacebar** = panning hand
- Delete Anchor Point (-)** **cmd/ctrl** = Add Anchor Point tool; **cmd/ctrl** = selection tool; **spacebar** = pan 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
- Type (T)** **click** = point type; **drag** = area/paragraph type; **return/enter** = new line or paragraph; **click** a path shape to convert to area type; **cmd/ctrl** = last-used selection tool; **shift** = Vertical Type tool; **double-click** tool = 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** = 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** = point type; **drag** = area/para. type; **return/enter** = new line; **click** path shape = convert to area type option; **shift** key = Type tool; **dbl-click** tool = Area Type options; **cmd/ctrl** = 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
- Line Segment (L)** **dbl-click** tool or **click** artboard for Line Segment Tool options; **shift** constrains; **opt/alt** draws from center; **spacebar** drag to move; **~** 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** **dbl-click** tool or **click** artboard for Rectangular Grid Tool options; **cmd/ctrl** = last-used selection tool; **shift** constrains 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 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** artboard for Polygon dialog box; **cmd/ctrl** = last-used selection tool; **shift** constrains bottom horizontal; **opt/alt** draws from center; **spacebar** drag to move; **↶↷** arrows while dragging = 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
- 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
- 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** = last-used selection tool; **spacebar** = panning hand
- Path Erase** **opt/alt** = Smooth tool; **cmd/ctrl** invokes last-used selection tool; **spacebar** invokes panning hand
- Blob Brush (Shift+B)** **double-click** tool = Blob Brush Tool options; **shift** constrains; **opt/alt** invokes Smooth tool; **works** with calligraphy brushes; **cmd/ctrl** invokes last-used selection tool; **spacebar** invokes panning hand
- Eraser (Shift+E)** **double-click** for Eraser Tool Options dialog; **square** bracket keys resize brush diameter; **shift** constrains; **opt/alt** drag erases rectangular region; **cmd/ctrl** = last-used selection tool; **spacebar** = panning hand
- Scissors (C)** **opt/alt** = Add Anchor Point Tool; **cmd/ctrl** = last-used selection tool; **spacebar** = panning hand
- Knife** **opt/alt** constrains to straight cut; **cmd/ctrl** = last-used selection tool; **spacebar** = panning hand

## TRANSFORM & RESHAPING TOOLS

- Rotate (R)** **double-click** tool = Rotate dialog box; **opt/alt** click to set centerpoint of rotation; **cmd/ctrl** = last-used selection tool; **shift** dragging constrains; **drag** then **opt/alt** rotates a copy; **spacebar** = 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 click to set vanishing reference point, then reposition mouse and drag toward or away from vanishing point; **cmd/ctrl** = last-used selection tool; **spacebar** = 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 a path segment and click to make focus; **shift-click** to add more focus points; **cmd/ctrl** invokes selection tool; **shift**-dragging constrains; **opt/alt** dragging duplicates; **spacebar** = panning hand
- Width (Shift+W)** **double-click** tool for Width Point Edit dialog box; **shift** **double-click** to also adjust width of adjoining points; **drag** two different points onto each other to make discontinuous width point; **opt/alt** drag for non-uniform width; **opt/alt** drag width point to duplicate; **opt/alt** shift drag to copy and move all points on path
- 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

- Shape Builder (Shift+M)** **drag** to merge selected objects; **opt/alt** drag to remove object regions; **shift** drag to marquee select objects
- Live Paint Bucket (K)** **double-click** tool = 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** = last-used selection tool; **opt/alt** = eyedropper; **spacebar** = pan 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
- Perspective Grid Tool (Shift+V)** **double-click** tool for Perspective Grid Options; **shift** drag constrains movement to vertical axis; **opt/alt** click vanishing plane handle to change view
- Perspective Selection (Shift+M)** **shift** drag vanishing plane handle or object to move; **opt/alt** drag vanishing plane handle or object to copy;

## GRADIENT, MESH, & BLEND TOOLS

- 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; **cmd/ctrl** = last-used selection tool; **spacebar** = 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** = last-used selection tool; **spacebar** = panning hand
- Measure** **double-click** tool for Guides and Grid prefs; **cmd/ctrl** = selection tool; **shift** constrains; **spacebar** = panning hand
- 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 Cruncher** 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
- 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
- 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; **edit** with Group Selection tool
- Stacked Column Graph** **click** or **drag** on artboard to define size; same as column graph; **edit** with Group Selection tool
- Bar Graph** **click** or **drag** on artboard to define area size; same as column graph; **edit** with Group Selection tool
- Stacked Bar Graph** **click** or **drag** on artboard to define area size; same as column graph; **edit** with Group Selection tool
- Line Graph** **click** or **drag** on artboard to define area size; same as column graph; **edit** with Group Selection tool
- Area Graph** **click** or **drag** on artboard to define area size; same as column graph; **edit** with Group Selection tool
- Scatter Graph** **click** or **drag** on artboard to define area size; same as column graph; **edit** with Group Selection tool
- Pie Graph** **click** or **drag** on artboard to define area size; same as column graph; **edit** with Group Selection tool
- Radar Graph** **click** or **drag** on artboard to define area size; same as column graph; **edit** with Group Selection tool

## ARTBOARD & HTML & NAVIGATION TOOLS

- 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
- 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
- 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** = last-used selection tool; **spacebar** = 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

## FILL & STROKE & APPLY 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)** this sets fill to white and stroke to black
- Apply Color (<)** sets the activated stroke or fill to the current color
- Apply Gradient (>)** applies the last-used gradient; **cmd/ctrl** click resets mid-point blend diamond to 50% position
- None Button (V)** sets the activated stroke or fill to none

## DRAW NORMAL OR BEHIND OR INSIDE MODES

- Draw Normal (Shift D)** is the default drawing mode that you normally use most of the time
- Draw Behind (Shift B)** is honored when creating layers; placing symbols or files; **opt/alt** dragging; and Paste in Place
- Draw Inside (Shift I)** this essentially works to make a clipping mask, but retains the object's fill and stroke appearance

## SCREEN MODES

- Normal Screen Mode (F)** displays artwork in a standard window, with a menu bar at the top and scroll bars on the sides
- Full Screen with Menu Bar (F)** displays artwork in a full-screen window, with a menu bar at the top and scroll bars
- Full Screen Mode (F)** displays artwork in a full-screen window, with no title bar nor menu bar nor any panels