

























## MARQUEE SELECTION TOOLS

-  **Move (V)** shift drag constrains 0°, 45°, 90°; opt/alt drag to duplicate layer
-  **Artboard (V)** shift drag keeps ratio, draws square; opt/alt drag duplicates
-  **Rectangular Marquee (M)** shift drag constrains square; shift adds to selected area; opt/alt takes away from selection; shift + opt/alt selects intersection; cmd/ctrl moves selected pixels; opt/alt + cmd/ctrl copies selected pixels
-  **Elliptical Marquee (M)** shift drag constrains to circle; shift adds to selection; opt/alt takes away from selection; shift + opt/alt selects intersection; cmd/ctrl moves selected pixels; opt/alt + cmd/ctrl copies selected pixels
-  **Single Row Marquee** shift adds a row of pixels to selection; opt/alt removes a row of pixels from selection; cmd/ctrl moves selected pixels; opt/alt plus cmd/ctrl moves a copy of selected pixels
-  **Single Column Marquee** similar to Single Row Marquee, above
-  **Lasso (L)** shift adds to selection; opt/alt subtracts from selection; shift plus opt/alt to make intersection of areas; cmd/ctrl invokes Move tool
-  **Polygonal Lasso (L)** shift constrains 0°, 45°, 90°; opt/alt drag for freehand drawing; delete/backspace removes segments; cmd/ctrl click closes
-  **Magnetic Lasso (L)** click to place fastening points; opt/alt drag to invoke Lasso tool; opt/alt click to invoke Polygonal Lasso tool; delete or backspace to remove fastening points; [ or ] to change radius width
-  **Quick Selection (W)** shift adds to selection; opt/alt subtracts from selection; [ or ] to change brush diameter; shift plus [ or ] to change hardness
-  **Magic Wand (W)** shift adds to selection; opt/alt subtracts from selection; shift plus opt/alt gives the intersection of two selections
























## OTHER TOOLS



-  **Crop (C)** shift constrains to square; opt/alt draws out from center
-  **Perspective Crop (C)** shift constrains square; opt/alt draws from center
-  **Slice (C)** shift constrains to square; opt/alt draws from center; cmd/ctrl invokes Slice Select tool
-  **Slice Select (C)** used for creating webpage html table rows and cells; shift click to select multiple slices; cmd/ctrl invokes Slice tool
-  **Eyedropper (I)** [if foreground color is targeted] click or drag to sample foreground color; opt/alt click or drag to sample new background color
-  **Color Sampler (I)** click to set up to 4 persistent color sample readings; opt/alt click to remove the color sample targets
-  **3D Material Eyedropper (I)** allows copying a texture on a 3D surface
-  **Ruler (I)** shift drag constrains 0°, 45°, 90°; opt/alt drag an end to measure an angle; also double-click end and drag to measure an angle
-  **Note (I)** double-click to open Notes panel to write; delete note by clicking trashcan in Notes panel; also right click to delete note
-  **Count (I)** drag to move marker; shift drag constrains 0°, 45°, 90°; opt/alt removes count marker

## NAVIGATION


















-  **Hand (H)** opt/alt to zoom out; cmd/ctrl to zoom in
-  **Rotate View (R)** shift constrains 0°, 45°, 90°; double-click tool to reset
-  **Zoom (Z)** click to zoom in; opt/alt click zoom out; cmd/ctrl move layer

## PAINTING AND RETOUCHING TOOLS






-  **Spot Healing Brush (J)** click or drag to heal; click then shift click to brush a straight line; drag plus shift constrains to 0°, 45°, 90°; [ or ] to change brush diameter; shift plus [ or ] to change edge hardness
-  **Healing (J)** opt/alt to sample; then click or drag to heal; click then shift click to brush a straight line; drag plus shift constrains to 0°, 45°, 90°; [ or ] to change brush diameter; shift plus [ or ] to change edge hardness
-  **Patch (J)** drag to encircle blemish; then drag selection to clear area of picture to heal; shift adds to selection; opt/alt takes away from selection
-  **Content-Aware Move (J)** shift adds to selected area; opt/alt removes from selection; shift + opt/alt intersects selection area; shift+drag constrains
-  **Red Eye (J)** click on the red region of eye in picture to recolor to black
-  **Brush (B)** click then shift click for straight; drag + shift constrains 0°, 45°, 90°; [ or ] changes diameter; shift + [ or ] changes hardness; opt/alt samples color
-  **Pencil (B)** click then shift click to brush a straight line; opt/alt to sample color; drag + shift constrains 0°, 45°, 90°; [ or ] to change diameter; try auto erase
-  **Color Replacement (B)** click + shift click brushes straight; opt/alt samples color; [ or ] changes diameter; shift + [ or ] changes hardness
-  **Mixer Brush (B)** opt/alt click to load sample color from the canvas; click and then shift+click to paint a straight line; spacebar to pan the view
-  **Clone Stamp (S)** opt/alt samples source; click + shift click brushes straight; drag + shift constrains; [ or ] changes diameter; shift + [ or ] changes edge hardness
-  **Pattern Stamp (S)** click then shift click brushes straight; drag + shift constrains 0°, 45°, 90°; [ or ] changes diameter; shift + [ or ] edge hardness
-  **History Brush (Y)** click then shift click brushes straight; drag + shift constrains 0°, 45°, 90°; [ or ] changes diameter; shift + [ or ] edge hardness
-  **Art History Brush (Y)** click then shift click brushes straight; drag + shift constrains 0°, 45°, 90°; [ or ] changes diameter; shift + [ or ] hardness
-  **Eraser (E) Frame** opt/alt erases to history; click then shift click is straight; drag + shift constrains; [ or ] changes diameter; shift + [ or ] hardness
-  **Background Eraser (E) Frame** click then shift click brushes straight; drag + shift constrains; [ or ] changes diameter; shift + [ or ] changes hardness
-  **Magic Eraser (E)** opt/alt samples color; shift + opt/alt for color sampler
-  **Gradient (G)** opt/alt samples color; shift + opt/alt invokes color sampler; shift + drag constrains 0°, 45°, 90°
-  **Paint Bucket (G)** opt/alt samples color; shift + opt/alt for color sampler
-  **3D Material Drop (G)** opt/alt; shift write something here
-  **Blur** click then shift click brushes straight; drag + shift constrains; [ or ] changes diameter; shift + [ or ] changes edge hardness
-  **Sharpen** click then shift click brushes straight; drag + shift constrains; [ or ] changes diameter; shift + [ or ] changes edge hardness
-  **Smudge** click then shift click brush straight; drag + shift constrains; [ or ] changes diameter; shift + [ or ] changes edge hardness
-  **Dodge (O)** drag + shift constrains to 0°, 45°, 90°; click then shift click brushes straight; [ or ] changes diameter; shift + [ or ] edge hardness

-  **Burn (O)** drag + shift constrains to 0°, 45°, 90°; click then shift click brushes straight; [ or ] changes diameter; shift + [ or ] edge hardness
-  **Sponge (O)** drag + shift constrains to 0°, 45°, 90°; click then shift click brushes straight; [ or ] changes diameter; shift + [ or ] edge hardness




## VECTOR DRAWING & TYPE TOOLS

-  **Pen (P)** shift constrains; opt/alt invokes Convert Direction Point tool; cmd/ctrl invokes white Direct Selection tool; shift over path segment invokes new drawing
-  **Freeform Pen (P)** experiment with the Curve Fit in the Geometry Options and the Magnetic option switch on the Control Panel
-  **Add Anchor Point** opt/alt click when over anchor point removes anchor; opt/alt plus drag when over path segment duplicates the selected path
-  **Delete Anchor Point** opt/alt invokes Add Anchor Point tool
-  **Convert Point** shift constrains direction points 0°, 45°, 90°; opt/alt drag from corner anchor point pulls out asymmetrical leading direction point
-  **Horizontal Type (T)** shift drag constrains square; drag plus opt/alt draws from center; opt/alt click or drag for Paragraph Text Size
-  **Vertical Type (T)** shift drag constrains square; drag + opt/alt draws from center; opt/alt click or drag invokes Paragraph Text Size dialog box
-  **Horizontal Type Mask (T)** shift drag constrains square; drag + opt/alt draws from center; opt/alt click or drag invokes Paragraph Text Size
-  **Vertical Type Mask (T)** similar to Horizontal Type Mask tool, above
-  **Path Selection (A)** shift click to select multiple paths; opt/alt drag to duplicate path; cmd/ctrl invokes white Direct Selection tool
-  **Direct Selection (A)** shift click selects more anchors; opt/alt click selects all anchors; opt/alt drag duplicates path; cmd/ctrl invokes Path Selection
-  **Rectangle (U)** shift drag constrains square; opt/alt draws from center
-  **Rounded Rectangle (U)** shift drag constrains; opt/alt draws from center
-  **Ellipse (U)** shift drag constrains circle; opt/alt draws from center
-  **Polygon (U)** shift drag constrains; opt/alt draws from center
-  **Line (U)** shift constrains to 0°, 45°, 90°
-  **Custom Shape (U)** shift constrains ratio; opt/alt draws from center

## FOREGROUND AND BACKGROUND COLORS

-  **Set Foreground Color (X)** click to set Foreground Color in color picker
-  **Set Background Color (X)** click to set Background Color in color picker
-  **Switch Foreground and Background Colors (X)** click to switch
-  **Default Foreground and Background Colors (D)** click default
-  **Edit in Quick Mask Mode (Q)** click or press Q for Quick Mask mode

## SCREEN MODES

-  **Standard Screen Mode (F)**
-  **Full Screen Mode with Menu Bar (F)**
-  **Full Screen Mode (F)**

## AND THIS ONE

-  **Edit Toolbar** click to open up a Customize Toolbar dialog box