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La	rge 1	Fool S	Set	Flip		Ø	Field of View	Standard V	iews	Dynamic Compor	ents
Select (Spacebar)		٢	Lasso					lso		Interact	27
Paint Bucket (B)	23		Fraser (F)	Orbit (O)		3	Pan (H)		~		`
	-	~		Zoom (Z)	\mathcal{P}	\mathcal{P}	Zoom Window	Front		Configurator Tool	
Make Component	Ø		Tag	Zoom Extents	Q		Previous	Back	\square	Component Attributes	$\exists angle$
Line (L)		\mathbb{S}	Freehand			•		Тор			
Rectangle (R)		•	Rotated Rectangle	Position Camera	Æ	*	Walk	Right		Loc	ation
	•	_		Look Around	1		Section Plane	Ngh		Add Location	\bigcirc
Circle (C)	•	•	Polygon		Solid	l Tool	S	Left		Toggle Terrain	
Arc		\mathbf{r}	2 Point Arc (A)	Outer Shell		(D h	Intersect (Pro)	5	Style		
3 Point Arc	.)	17	Pie			·····		X-Ray	-	Wareh	ouse
		•		Union (Pro)	50	i	Subtract (Pro)		-	3D Warehouse	0
Move (M)	***		Push/Pull (P)	Trim (Pro)	G	G	Split (Pro)	Wireframe	Ð	Chara Carra an ant	
Rotate (Q)	\Diamond	()•	Follow Me	San	dbox	(Ter	rain)	Shaded	$\mathbf{\mathbf{\hat{v}}}$	Share Component	
Scale (S)	-	3	Offset (F)	From Contours	12	Ħ	From Scratch	Monochrome		Send to LayOut (Pro)	٨
Tape Measure (T)	ø	*	Dimensions	Smoove		Ŵ	Stamp	Back Edges	Θ	Extension Warehouse	≍
	·	• •			~0.				~	Share Model	_ +
Protractor	Ø		Text	Drape	[0]	B	Add Detail	Hidden Line	Ø	Classifier (Pro)	[]
Axes	*	Ą	3D Text	Flip Edge	\triangleleft			Shaded with Textures		Classifier (FTO)	,Ca
	LOR		Click-Drag Or Shift+Click-Drag Pa Double-Click Re	e-center view							
Tool 2 Point Arc (A)			Operation Bulge	Instructions specify bulge amount by typing	g a numt	per and l	Enter				
- *			Radius	specify radius by typing a num	ber, the	R key, ar	id Enter				
3 Point Arc			Segments Option '+' or '-'	specify number of segments b use Option '+' or Option '-' to ch			,				
STONEAR			Arrows				n, and down = parallel/perpendicular				
Circle (C)			Shift	lock current inferences							
			Radius	specify radius by typing a num							
Erocor (E)			Segments	specify number of segments b							
Eraser (E)			Option Shift	soften/smooth (use on edges hide	lo make	aujacen	races appear curved)				
			Option+Shift	unsoften/unsmooth							
Field of View				drag the mouse or manually er	nter a va	lue using	g the Field of View box				
Follow Me			Command	use face perimeter as extrusio							
			Expert Tip!	first Select path, then choose t	he Follov	v Me too	I, then click on the face to extrude				

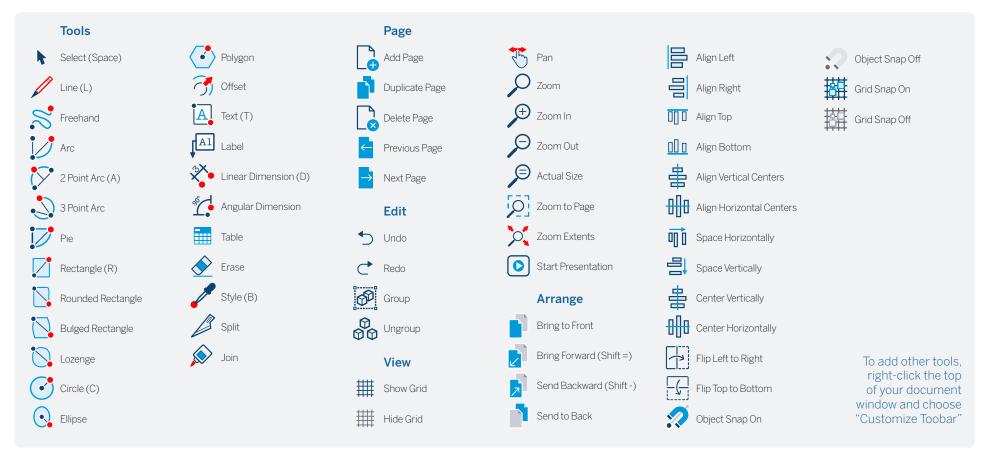
SketchUp



Flip		click the plane to control the direction of the flip operation
	Option	toggle between flip and copy
Lasso	Shift	add/subtract from selection
	Option	add to selection
	Shift+Option	subtract from selection
Line (L)	Shift	lock in current inference direction
	Arrows	lock direction; up = blue, right = red, left = green, and down = parallel/perpendicular
	Length	specify length by typing a number and Enter
Look Around	Eye Height	specify eye height by typing a number and Enter
Move (M)	Option	toggle copy mode, allows multiple consecutive
	Shift	hold down to lock in current inference direction
	Command	auto-fold (allow move even if it means adding extra edges and faces)
	Arrows	lock direction; up = blue, right = red, left = green, and down = parallel/perpendicular
	Distance	specify move distance by typing a number and Enter
	External Copy Array	X copies in a row: move first copy, type a number, the X key, and Enter
	Internal Copy Array	X copies in between: move first copy, type a number, the / key, and Enter
Offset (F)	Command	allow results to overlap
	Distance	specify an offset distance by typing a number and Enter
Orbit (O)	Option	
	Shift	hold down to activate Pan tool
Paint Bucket (B)	Option	fill material – paint all matching adjacent faces
	Shift	replace material – paint all matching faces in the model
	Option+Shift	replace material on object – paint all matching faces on the same object
	Command	hold down to sample material
Protractor	Option	toggle guide creation
	Arrows	toggle lock rotation plane
Push/Pull (P)	Option	push/pull a copy of the face (leaving the original face in place)
	Double-Click	apply last push/pull amount to this face
	Distance	specify a push/pull amount by typing a number and Enter
Rectangle (R)	Option	start drawing from center
	Dimensions	specify dimensions by typing length, width and Enter <i>(ie. 20,40)</i>
Rotated Rectangle	Shift	lock in current direction/plane
	Command	lock drawing plane for first edge (after first click)
	Dimensions, Angle	click to place first two corners, then type width, angle and Enter <i>(ie. 90,20)</i>
Rotate (Q)	Option	rotate a copy
	Angle	specify an angle by typing a number and Enter
	Slope	specify an angle as a slope by typing a rise, a colon (:), a run, and Enter <i>(ie. 3:12)</i>
Scale (S)	Option	hold down to scale about center
	Shift	hold down to scale uniformly (don't distort)
	Amount	
	Length	specify a scale length by typing a number, a unit type, and Enter <i>(ie. 10m)</i>
Search (Shift+S)		search SketchUp command list for tools or commands
Select (Spacebar)	Option	
	Shift	add/subtract from selection
	Option+Shift	subtract from selection
Tape Measure (T)	Option	toggle create guide or measure only
	Arrows	lock direction; up = blue, right = red, left = green, and down = parallel/perpendicular
	Resize	resize model: measure a distance, type intended size, and Enter
Zoom (Z)	Shift	hold down and click-drag mouse to change Field of View

😂 LayOut

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Tool	Operation	Instructions
Circle (C)	Double-Click	create circle identical to previous one drawn
Linear Dimension (D)	Option	hold down to unconstrain dimension orientation
	Command	hold down to switch leader direction
	Double-Click	repeat previous dimension offset
Ellipse	Option	start drawing from center
	Shift	constrain to circle
	Double-Click	create ellipse identical to previous one drawn
Join	Click	join line segments by clicking on each in turn
Line (L)	Shift	lock in horizontal or vertical direction
	Length	specify length by typing a number and Enter



Label	Command	hold down to flip text to other side
	Option	hold down to unconstrain second segment
	Click > Double-Click	create one-segment leader line
	Click > Click > Click	create two-segment leader line
	Click-Drag	create curved leader line
	Edit Label Text	double-click label text to edit
	Edit Leader Line	double-click leader line and move endpoints or line segments to edit
Offset	Command	offset both sides of an open path
	Up/Down	tap up or down arrow to change number of segments for curved lines
Polygon	Shift	lock in current inference direction
	Double-Click	create polygon identical to previous one drawn
	Sides	specify number of sides by typing a number, the S key, and Enter
Rectangle (R)	Option	start drawing from center
	Shift	constrain to square
	Double-Click	create rectangle identical to previous one drawn
	Dimensions	specify dimensions by typing width, height and Enter (ie. 20,40)
Rectangle, Rounded	Up/Down	tap up or down arrow while drawing to change corner radius
Rectangle, Bulged	Up/Down	tap up or down arrow while drawing to change bulge amount
Select (Spacebar)	Click-Drag	move selected entities
	Click-Drag+Command	hold down to select entities without moving
	Option	hold down while moving to create a copy
	Distance	specify move distance by typing a number and Enter
	External Copy Array	X copies in a row: move first copy, type a number, the X key, and Enter
	Internal Copy Array	X copies in between: move first copy, type a number, the / key, and Enter
	Option (selecting)	hold down while clicking to add to selection
	Shift (selecting)	hold down while clicking to add/subtract from selection
	Option+Shift (selecting)	hold down while clicking to subtract from selection
	Shift (scaling)	hold down while scaling to scale uniformly (don't distort)
	Command	hold down to scale about center
	Shift (rotating)	hold Shift while hovering over a rotation grip to set a custom start angle
Style	Click	sample style properties (stroke, fill, color, pattern, font, size, arrow, etc)
	Click Again	apply sampled style properties
Split	Click	split line(s) at click point
Table	Double-Click	create table identical to previous one drawn
	Cells	specify cell number by typing column number, row number and Enter
Text	Click	create an unbounded text box
	Click-Drag L to R	hold down to create a left-aligned bounded text box
	Click-Drag R to L	hold down to create a right-aligned bounded text box
	Click-Drag+Option	hold down to create a center-aligned, center-anchored, bounded text box
Other Tips	Snaps	right-click on anything but a drawing element to switch between snaps
-	Line Weights	use the Styles tab in the SketchUp Model dialog to change line weights
	Dimension Edit	double-click dimensions to edit individual entities with the Shape Style panel
Mouse Wheel	Scroll	Zoom
	Click-Drag	Pan
	0	