## Quick Reference Card | 23.1 | Windows

			Cat								
	-	Fool S	Set	Flip	⊿⊾	Qį	Field of View	Standard V	iews	Dynamic Compor	ients
Select (Spacebar)		$\mathcal{D}$	Lasso	Orbit (O)			Pan (H)	Iso		Interact	27
Paint Bucket (B)	23	$\Diamond$	Fraser (F)	Orbit (O)		4	Fall(II)	Front	$\overline{\sim}$		
r ante Baonet (B)		~		Zoom (Z)	ρ	2	Zoom Window	Front		Configurator Tool	×
Make Component	Ø	$\bigcirc$	Tag	Za a ve Evidenska	•		Drevieve	Back	$\square$	Component Attributes	
l ine (L)		8	Freehand	Zoom Extents	0		Previous	Tan			
Line (L)	~		ricenand	Position Camera	原	Ŕ	Walk	Тор	Ш	Loc	ation
Rectangle (R)			Rotated Rectangle			<u> </u>		Right	Ē		~
Circle (C)	•	<ul> <li>•</li> </ul>	Polygon	Look Around	1		Section Plane	1-4	<u> </u>	Add Location	$\bigcirc$
	$\smile$				Solic	l Too	ls	Left		Toggle Terrain	
Arc			2 Point Arc (A)	Outer Shell			Intersect (Pro)	S	Style		
3 Point Arc	•	17	Pie			 		X-Ray		Wareh	ouse
STOREAC	- <u>-</u>		T IC	Union (Pro)	노희	- <u>-</u>	Subtract (Pro)	х-кау	Fr	3D Warehouse	0
Move (M)	-++-	٩	Push/Pull (P)	Trim (Pro)	G	G	Split (Pro)	Wireframe	B	5D Warehouse	۲
Rotate (Q)	¢	•	Follow Me					Classical		Share Component	8
Notate (Q)	$\mathbf{v}$	$\diamond$	T OILOW IVIE	Sar	idbo	(lei	rrain)	Shaded		Sandta Lay (Out (Dra)	٠
Scale (S)		3	Offset (F)	From Contours	12	Ħ	From Scratch	Monochrome		Send to LayOut (Pro)	$\gg$
Tape Measure (T)		<u>ل</u> م	Dimensions	Smoolie		Ø	Stamp	Darah Estara		Extension Warehouse	≍
Tape Measure (1)	2	•	DITIETISIONS	Smoove			Stamp	Back Edges	$\Theta$	Share Model	•+
Protractor	Ø	Al	Text	Drape	ß	B	Add Detail	Hidden Line	$\Theta$	Share Model	<b></b>
Axes		А	3D Text							Classifier (Pro)	G
Axes	- <b>*</b> *	F)	SD Text	Flip Edge	$\bowtie$			Shaded with Textures			
Middle Button (Wheel)	LUR		Scroll Zc Click-Drag Or Shift+Click-Drag Pa Double-Click Re	bit an							
Tool			Operation	Instructions							
2 Point Arc (A)			Bulge Radius	specify bulge amount by typin specify radius by typing a num							
			Segments	specify number of segments b							
3 Point Arc			Alt +	use Option '+' or Option '-' to c	-			P 1			
Circle (C)			Arrows	lock direction; up = blue, right lock current inferences	= red, let	t = greei	n, and down = parallel/perpen	ndicular			
			Radius	specify radius by typing a num	nber and	Enter					
			Segments	specify number of segments b			er, the S key, and Enter				
Eraser (E)			Ctrl	soften/smooth (use on edges	to make	adjacer	t faces appear curved)				
			Shift	hide							
Field of View			Alt	unsoften/unsmooth drag the mouse or manually e	nter a va		a the Field of View box				
Follow Me			Alt	use face perimeter as extrusio		iluc uəll l	B the Field OF VIEW DUX				
			Expert Tip!	first Select path, then choose t		w Me too	ol, then click on the face to extr	rude			

## SketchUp



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Flip		click the plane to control the direction of the flip operation
	Ctrl	toggle between flip and copy
Lasso	Shift	add/subtract from selection
	Alt	add to selection
	Shift+Alt	subtract from selection
Line (L)	Alt	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)	Ctrl	toggle copy mode, allows multiple consecutive
	Shift	hold down to lock in current inference direction
	Alt	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)	Alt	allow results to overlap
	Distance	specify an offset distance by typing a number and Enter
Orbit (O)	Alt	hold down to disable "gravity-weighted" orbiting
	Shift	hold down to activate Pan tool
Paint Bucket (B)	Ctrl	fill material – paint all matching adjacent faces
	Shift	replace material – paint all matching faces in the model
	Ctrl+Shift	replace material on object – paint all matching faces on the same object
	Alt	hold down to sample material
Protractor	Ctrl	toggle guide creation
	Arrows	toggle lock rotation plane
Push/Pull (P)	Ctrl	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)	Alt	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
	Alt	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)	Ctrl	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 (ie. 3:12)
Scale (S)	Ctrl	hold down to scale about center
	Shift	hold down to scale uniformly (don't distort)
	Amount	specify a scale factor by typing a number and Enter (ie. 1.5 = 150%)
	Length	specify a scale length by typing a number, a unit type, and Enter (ie. 10m)
Search (Shift+S)		search SketchUp command list for tools or commands
Select (Spacebar)	Ctrl	add to selection
	Shift	add/subtract from selection
	Ctrl+Shift	subtract from selection
Tape Measure (T)	Ctrl	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