

## 3ds Max Cheat Sheet

### Most Commonly Needed Keyboard Shortcuts (Hotkeys)

*Important:* 3ds Max has multiple sets of keyboard shortcuts. If your hotkeys don't seem to be working, click the button on the Main Toolbar labeled "Keyboard Shortcut Override Toggle."

#### Viewport Navigation

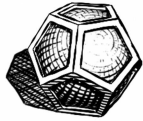
"Pan" (track left-right, pedestal up-down).....	<b>middle mouse button</b>
Orbit (tumble).....	<i>hold ALT and drag</i> <b>middle mouse button</b>
"Zoom" (dolly forward-back).....	<i>hold CTRL, hold ALT, and drag</i> <b>middle mouse button</b>
.....	<i>or spin the</i> <b>mouse wheel</b>
Maximize Viewport Toggle.....	<b>ALT-w</b>
Zoom Extents All Selected.....	<b>z</b>
Undo Viewport Operation.....	<b>SHIFT-Z</b>
Redo Viewport Operation.....	<b>SHIFT-Y</b>

#### Viewport Display

Toggle Wireframe-Smooth.....	<b>F3</b>
Edged Faces.....	<b>F4</b>
Show Grids.....	<b>g</b>
Show Safe Frames.....	<b>SHIFT-F</b>
Show Selection Brackets.....	<b>j</b>
Shade Selected Faces.....	<b>F2</b>
Show Statistics.....	<b>7</b>
Camera view.....	<b>c</b>
Perspective view.....	<b>p</b>
Front view.....	<b>f</b>

#### Camera Walkthrough Mode

Forward.....	<b>w</b>
Back.....	<b>s</b>
Up.....	<b>e</b>
Down.....	<b>c</b>
Accelerate.....	<b>q</b>
Increase Step Size.....	<b>]</b>
Decrease Step Size.....	<b>[</b>



## Transforms

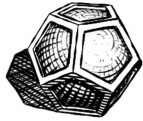
Move.....	w
Rotate.....	e
Scale.....	r
Transform Gizmo Size Up.....	= (equals sign on the alphabetic keypad, not the numeric keypad)
Transform Gizmo Size Down.....	- (minus sign on the alphabetic keypad, not the numeric keypad)
Show Transform Gizmo.....	x
Snaps.....	s
Angle Snap.....	a
Restrict to X.....	F5
Restrict to Y.....	F6
Restrict to Z.....	F7
Restrict to XY-YZ-ZX.....	F8

## Commands

Select Tool, cycle Selection modes.....	q
Select from Scene.....	h
Select All.....	CTRL-a
Select None.....	CTRL-d
Clone.....	CTRL-v
Expert Mode.....	CTRL-x
Undo.....	CTRL-z
Redo.....	CTRL-y
Material Editor.....	m
Render Last.....	F9

## Editable Poly

Vertex.....	1
Edge.....	2
Border.....	3
Polygon.....	4
Element.....	5
Object.....	6



### Animation

Play-Pause.....	/
Previous Frame (or Previous Key).....	< or , (comma)
Next Frame (or Next Key).....	> or . (period)
Go to First Frame.....	<b>HOME</b>
Go to Last Frame.....	<b>END</b>
Set Key Mode.....	' (apostrophe)
Set Keys (create keys).....	<b>k</b>
Autokey Mode.....	<b>n</b>

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