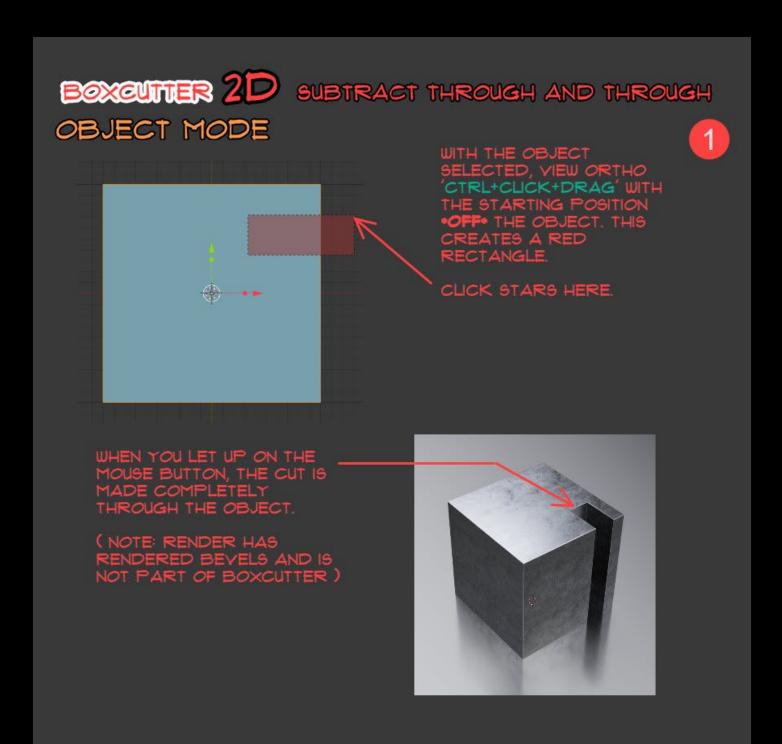
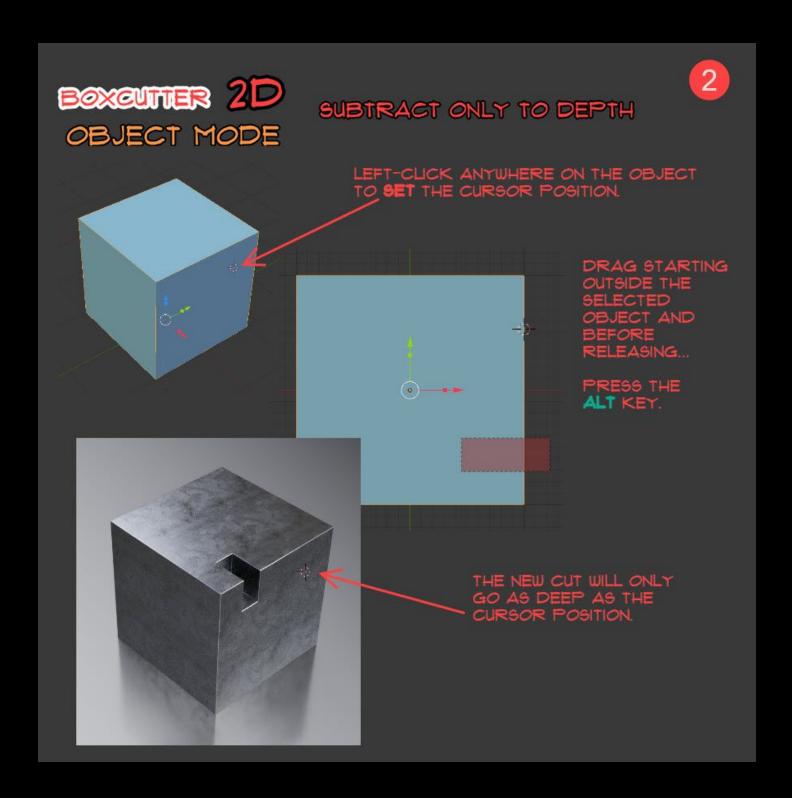
Boxcutter

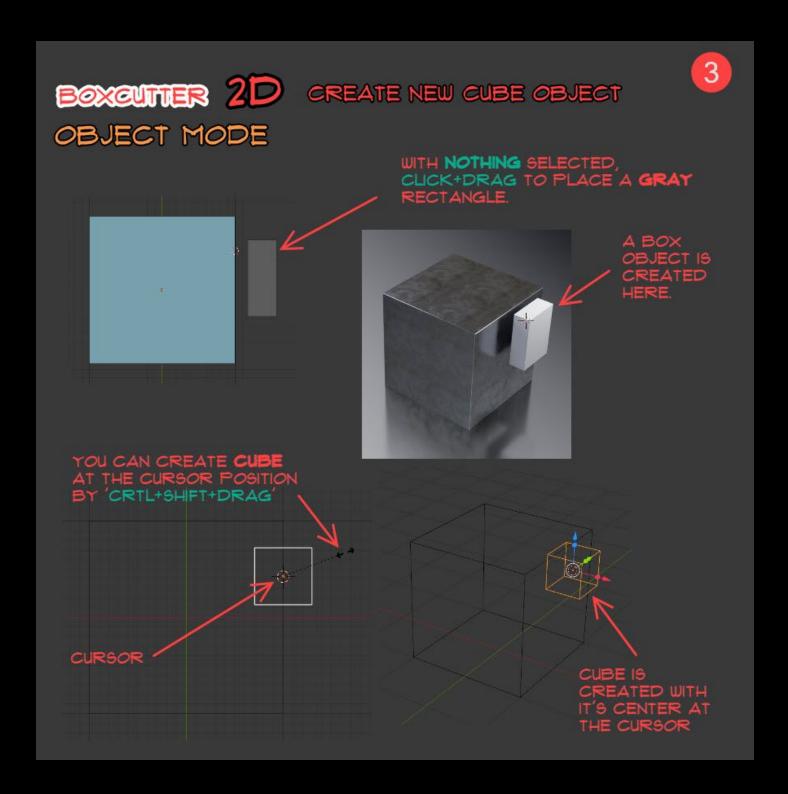
BIG LITTLE TIPS

Chipp Walters 9/2018

Boxcutter 2D



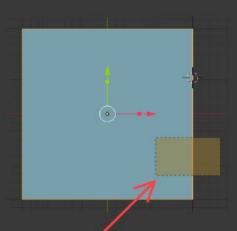




BOXOUTTER 2D OBJECT MODE

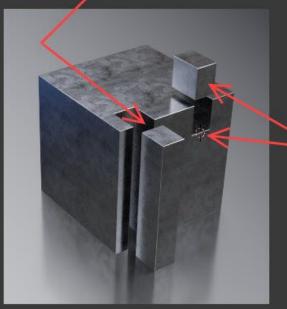
BOXCUITER 2D SLICE \$ REBOOL-- YELLOW BOX





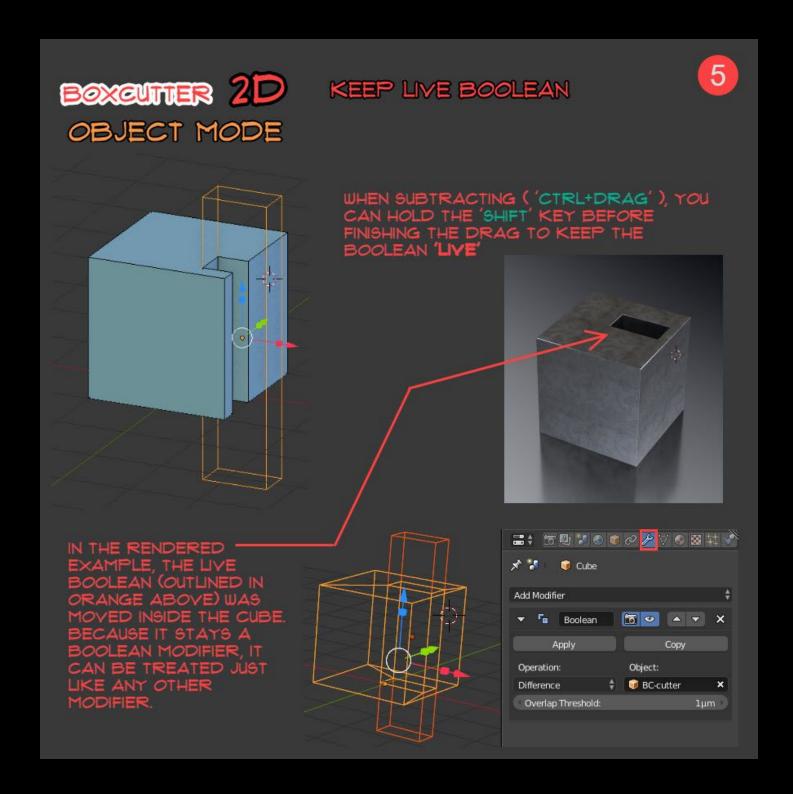
THE YELLOW BOX DELETES GEOMETRY (LIKE THE RED BOX) BUT ALSO KEEPS THE DELETED PORTION AS A NEW OBJECT.

TO USE IT, PRESS 'CTRL+SHIFT' BEFORE YOU CLICK+DRAG THE BOX.



THE RENDER SHOWS THE BOXCUT SHOWN ABOVE-- THE DELETED PORTION MOVED OUT SO YOU CAN SEE THE EFFECT.

PRESSING THE 'ALT' KEY
BEFORE RELEASING THE MOUSE
BUTTON ALLOWS FOR A BOXCUT
TO ONLY THE CURSOR POSITION
AS SHOWN.

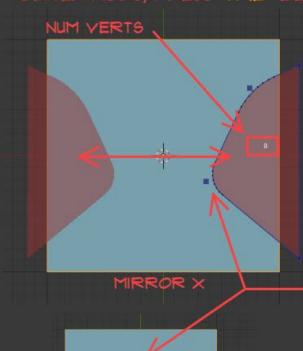


BOXCUITIER 2D OBJECT MODE

REALTIME MODS FOR BOXCUTTER

THERE ARE MANY REALTIME MODIFICATIONS YOU CAN MAKE TO THE BOXCUTTER OBJECT DURING THE CUTTING PROCESS.

THESE INCLUDE RESIZING, ROTATING, MOVING, THE APPLICATION OF BEVEL AND CURVES, MIRRORING AND MOVING POINTS. TO ENABLE REALTIME CUTTER MODS, PRESS 'TAB' BEFORE YOU RELEASE THE MOUSE BUTTON.



USE 'R', '9', ₹ 'G' KEYS TO ROTATE, SCALE AND MOVE THE CUTTER AROUND.

'CLICK+DRAG' TO MOVE VERTS

BY DEFAULT, VERTS ARE SET TO BEVEL USE 'Q' TO TOGGLE TO CURVE.

'MIDDLE-MOUSE
BUTTON+CLICK+DRAG' TO
BEVEL/CURVE ALL CORNERS. IF YOU
DO THIS DIRECTLY ON TOP OF A
VERT, IT WILL ONLY BEVEL THAT
VERT.

'SCROLL WHEEL' TO CHANGE THE NUMBER OF BEVELS IN A CORNER

USE '1' OR '2' (ABOVE THE KBD) TO TOGGLE MIRROR MODE ON AND OFF (X AMS AND Y AMS RESPECTIVELY)

'ENTER' OR 'DOUBLE-CLICK' TO APPLY AND EXIT

'ESC' TO EXIT

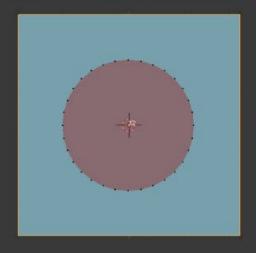
Q' CURVE MODE

6

BOXCUTTER 2D USING THE CIRCLE CUTTER OBJECT MODE

VER THE

USE THE PIE MENU 'D' TO CHOOSE CIRCLE. WITH THE MOUSE OVER THE SELECTED OBJECT, 'CTRL+DRAG' TO CREATE WITH THE CENTER POINT BEING THE STARTING CLICK.



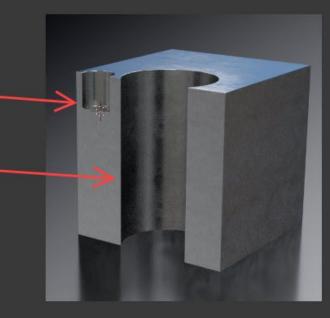
THERE ARE TWO WAYS TO REPOSITION THE CIRCLE.

YOU CAN PRESS TAB AND GO INTO REALTIME MODIFICATION MODE, OR;

JUST TAP THE SPACEBAR TO TOGGLE MOVE MODE. A SIMPLE SPACEBAR TAP EXITS THE MOVE MOVE.

PRESSING 'ALT' WHEN EXECUTING THE CUT WILL CUT THE CIRCLE DOWN TO THE CURSOR POSITION.

OTHERWISE THE CIRCLE WILL COMPLETELY CUT THROUGH THE ENTIRE OBJECT

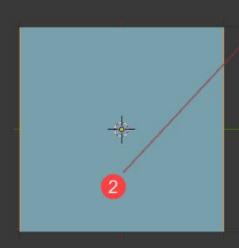


BOXCUITIER 2D USING THE NGON CUTTER OBJECT MODE

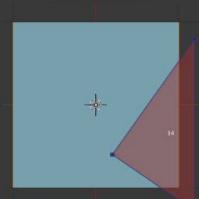
1

8

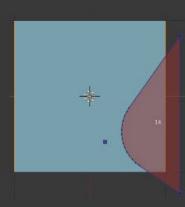
USE THE PIE MENU 'D' TO CHOOSE NGON ..



WITH 'CTRL' KEY PRESSED, CLICK AND DRAG FROM 1 TO 2 THEN LET THE MOUSE BUTTON UP.



WITH 'CTRL' KEY
PRESSED, THE NGON
NOW RUBBERBANDS
TO THE MOUSE
LOCATION. A CLICK(AT
3) SETS THE POINT. ANY
SUBSEQUENT 'CTRL'
KEY CLICKS ADDS NEW
POINTS TO THE END OF
THE NGON.



BECAUSE OF THE NATURE OF THE NGON CUTTER, YOU ARE AUTOMATICALLY PUT IN REALTIME MODIFICATION MODE, WHICH MEANS YOU CAN BEVEL, ROTATE, MOVE, SCALE, ETC.

'ENTER' OR DOUBLE-CLICK TO CONFIRM THE ACTION.

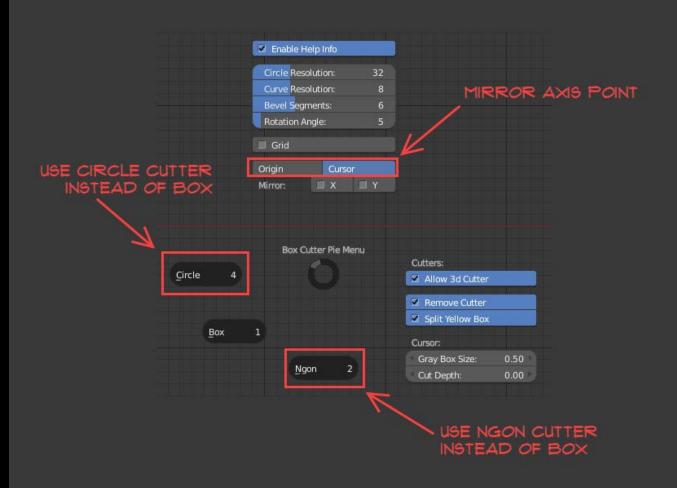


BOXOUTTER 2D THE 'PIE' MENU OBJECT MODE \$ EDIT MODE

9

THERE ARE A NUMBER OF FEATURES IN BOXCUTTER 2D MODE WHICH ARE ONLY ACCESSED BY PRESSING 'D' AND ACCESSING THE PIE MENU.

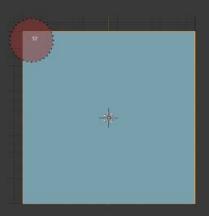
HERE ARE THE MOST IMPORTANT SETTINGS FOR 2D MODE.



BOXCUTTER 2D QUICK MOVE OF THE CUTTER OBJECT MODE \$ EDIT MODE

10

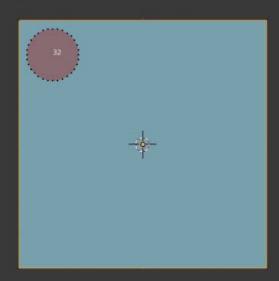
THERE ARE TIMES WHEN ALL YOU WANT TO DO IS MOVE THE CUTTER A BIT, AND DON'T NECESSARILY WANT TO GO INTO REALTIME MODIFICATION MODE. THIS IS ACHIEVED SIMPLY BY TAPPING THE SPACEBAR WHILE KEEPING THE MOUSE BUTTON PRESSED WHILE IN THE MIDDLE OF THE BOX CUTTING PROCESS.

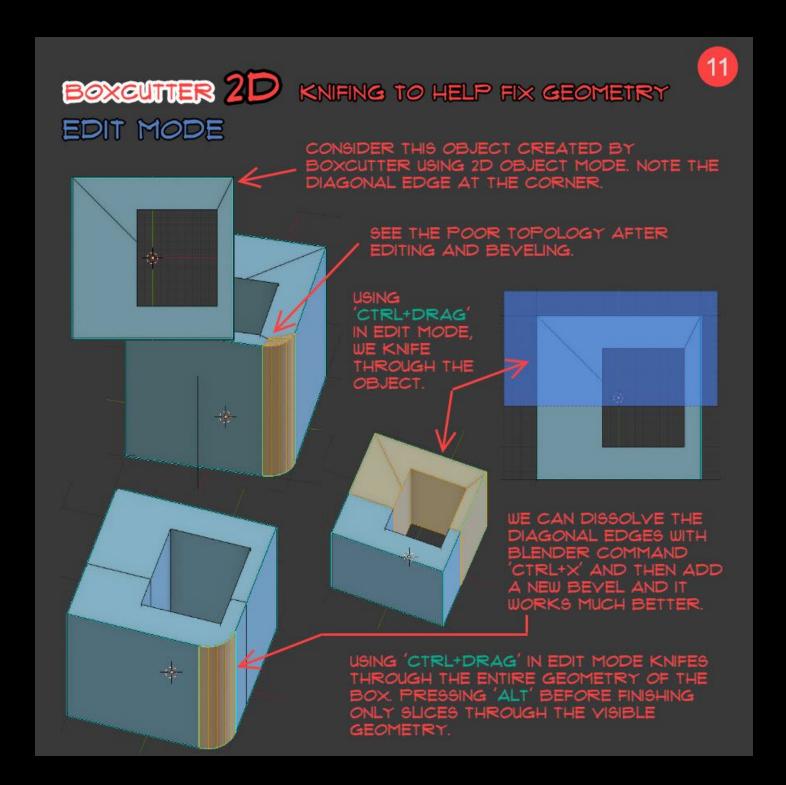


IN THIS EXAMPLE, THE CIRCLE IS DRAWN FROM THE MIDDLE, BUT IS NOT IN THE CORRECT POSITION.

PRESSING THE SPACEBAR ONCE, WITH THE MOUSE BUTTON STILL PRESSED, TOGGLES TO MOVE MODE AND ALLOWS THE CIRCLE TO BE REPOSITIONED.

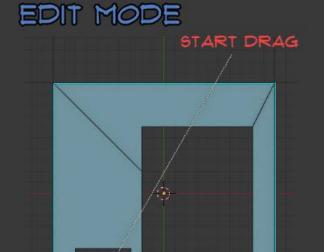
PRESSING THE SPACEBAR
AGAIN TOGGLES OFF THE MOVE
BEHAVIOR AND YOU CAN
CONTINUE RESIZING YOUR CIRCLE
(OR BOX, OR NGON).







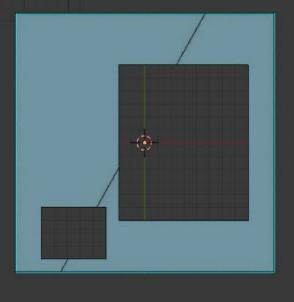
BOXCUTTER 2D FAST BISECT TO FIX GEOMETRY



SOMETIMES THE BOX (WHICH ONLY CUTS HORIZ AND VERT) DOESN'T WORK AS WELL FOR FIXING GEOMETRY IN EDIT MODE.

IN THESE CASES, USE 'CTRL+D' AND MOUSE DRAG TO KNIFE THROUGH THE ENTIRE MESH





THEN, USE
BLENDER'S
DISSOLVE
EDGES
('CTRL+X') TO
CLEAN UP ANY
NON WANTED
EDGES AND
YOUR MODEL IS
READY FOR
MORE CUTTING.