

2D Navigation	
LMB	select object drag to move
MMB	drag to pan
WHEEL	zoom
F1	operations menu
ТАВ	toggle 3D view
19	grid size
Ctrl-z	undo
Ctrl-y	redo
Ctrl-a	select all
Ctrl-i	invert selection
` (back quote)	clear selection
HOME	zoom to fit
END	pan to camera
' (quote)	place camera at cursor
f	toggle free / grid snapping
g	toggle grid display
a	pan with mouse
1	toggle recently used
b	toggle browser panel
N	next map
Р	previous map

2D Edit Modes	
t	Thing mode
ı	Linedef mode
S	Sector mode
V	Vertex mode

Tagging	
;+f	Apply a fresh tag
;+1	Apply latest tag

Selections	
0	copy and paste
С	copy props of selected to focused
С	copy props of focused to selected
н	mirror horizontally
V	mirror vertically

Mouse Transforms	
r	ratio scale
R	free scale
Ctrl-r	rotate
К	shear

Things Edit Mode	
SPACE	add thing
W	rotate 45 deg acw
X	rotate 45 deg cw
d	separate stacked things
m	merge into stack

Vertice Edit Mode	
SPACE / RMB	draw line
d	disconnect
m	merge selected
I	reshape into line
0	reshape into circle
D	reshape into half-circle
С	reshape into 120 deg arc
Q	reshape into 240 deg arc

Linedef Edit Mode	
е	select chain
E	select chain by texture
W	flip
k	split
А	auto align offsets
d	disconnect
m	merge one-sided into two-sided

Sector	Edit Mode
SPACE	add sector
d	disconnect
m	merge selected
е	select by same floor height
E	select by same floor tex
D	select by same ceil tex
w	swap floor / ceil tex
, and <	lower floor
. and >	raise floor
[and {	lower ceil
] and }	raise ceil

3D View	
Arrows / WASD	move
LMB	select sides
MMB	pan
PGUP/PGDN	move up / down
g	toggle gravity
r	adjust offsets with mouse
С	clear offsets
1	toggle lighting
t	toggle texturing
0	toggle objects
x	align x offset to left wall
у	align y offset to left wall
Z	align x and y offset to left wall
X/Y/Z	align offsets to right wall