

# Multiverse Go

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## 1 Rules

Multiverse go is a variant similar but distinct from 3D go. Like 3D go, it is played on a 3D goban. However, the rules concerning stone liberties are different. The game is played on a 3D goban; in this document we will use the  $5 \times 5 \times 5$  grid as an example. Rather than seeing it as a single  $5 \times 5 \times 5$  game of go, it should be seen as 15 separate (but connected)  $5 \times 5$  games. Each 2D “slice” of the 3D goban represents a separate “flat” game.

Each intersection can be identified by using 3D coordinates which range from **A1a** to **E5e**. These coordinates can be used to uniquely identify both the 2D sub-boards in which the moves are being played, and the coordinates within those sub-boards. Each 2D board has a unique name; in  $5 \times 5 \times 5$  multiverse go, the names are **A**, **B**, **C**, **D**, **E**, **1**, **2**, **3**, **4**, **5**, **a**, **b**, **c**, **d**, and **e**. As an example, move **B4c** represents three moves:

- Move **4c** on board **B**;
- Move **Bc** on board **4**;
- Move **B4** on board **c**;

In each turn, one of the players plays a stone in the 3D grid

# $5 \times 5 \times 5$ Template

	1	2	3	4	5	
A	e					e
	d					d
	c					c
	b					b
	a					a

	1	2	3	4	5	
B	e					e
	d					d
	c					c
	b					b
	a					a

	1	2	3	4	5	
C	e					e
	d					d
	c					c
	b					b
	a					a

	1	2	3	4	5	
D	e					e
	d					d
	c					c
	b					b
	a					a

	1	2	3	4	5	
E	e					e
	d					d
	c					c
	b					b
	a					a

	A	B	C	D	E	
1	e					e
	d					d
	c					c
	b					b
	a					a

	A	B	C	D	E	
2	e					e
	d					d
	c					c
	b					b
	a					a

	A	B	C	D	E	
3	e					e
	d					d
	c					c
	b					b
	a					a

	A	B	C	D	E	
4	e					e
	d					d
	c					c
	b					b
	a					a

	A	B	C	D	E	
5	e					e
	d					d
	c					c
	b					b
	a					a

	A	B	C	D	E	
a	5					5
	4					4
	3					3
	2					2
	1					1

	A	B	C	D	E	
b	5					5
	4					4
	3					3
	2					2
	1					1

	A	B	C	D	E	
c	5					5
	4					4
	3					3
	2					2
	1					1

	A	B	C	D	E	
d	5					5
	4					4
	3					3
	2					2
	1					1

	A	B	C	D	E	
e	5					5
	4					4
	3					3
	2					2
	1					1