

DDJ-SB2

List of MIDI messages ver. 1.00



[MIDI channel assignment]
MIDI channel is defined as shown below.
0x9* :Note
0xB* :Control Change (CC)

Channel Category	MIDI Channel	channel No. (hex)
DECK1	1	n=0
DECK2	2	n=1
DECK3	3	n=2
DECK4	4	n=3
FX DECK1	5	m=4
FX DECK2	6	m=5
Browser,Global Section	7	m=6
PERFORMANCE PAD (DECK1)	8	p=7
PERFORMANCE PAD (DECK2)	9	p=8
PERFORMANCE PAD (DECK3)	10	p=9
PERFORMANCE PAD (DECK4)	11	p=A
MIDI-OUT communication	12	m=B

1 As a reference for MIDI assign, MIDI message sent from buttons and knobs of this controller are listed in decimal numbers and English scale. Please utilize this reference depending on the notation of your MIDI compatible software.

NOTE is a term used for MIDI to express that a key of a keyboard or a piano is pressed or your finger is released from it. CC is an abbreviation of "Control Change". Control Change is a kind of MIDI message used to communicate many kinds of control information such as sound quality and volume level. English scale uses alphabetical letters of C, D, E, F, G, A and B as well as # to indicate halfnote.

Group	Fig.	User Interface			MIDI assign reference			MIDI-IN (to computer)			MIDI-OUT (from computer)			Note (Data2)	
		UI name	+SHIFT	Trigger	Condition (mode)	MIDI Channel (Dec)	NOTE / CC	MIDI Data (Data1) (Dec) (English scale)	Status (Hex)	Data 1 (Hex)	Data 2 (Hex)	Status (Hex)	Data 1 (Hex)		Data 2 (Hex)
DECK	1	PLAY/PAUSE	+SHIFT	press		1/2/3/4	NOTE	11 B-1	9n	0B	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
	2	CUE	+SHIFT	press		1/2/3/4	NOTE	71 B4	9n	47	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
	3	SYNC	+SHIFT	press		1/2/3/4	NOTE	12 C0	9n	0C	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
	4	JOG DIAL (Platter)	+SHIFT	rotate	Vinyl On	1/2/3/4	NOTE	72 C5	9n	48	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
					Vinyl Off	1/2/3/4	NOTE	88 E6	9n	58	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
					CC	34	—	Bn	22	hh				Difference count value from when previous operated	
					CC	35	—	Bn	23	hh				When turned clockwise: Increases from 65(0x41)	
					CC	31	—	Bn	1F	hh				When turned counterclockwise: Decreases from 63(0x3F)	
					CC	54	F#3	9n	36	hh				OFF=0(0x00), ON=127(0x7F)	
	4	JOG DIAL (Wheel side)	+SHIFT	rotate	Vinyl On	1/2/3/4	NOTE	53 F3	9n	35	hh				OFF=0(0x00), ON=127(0x7F)
Vinyl Off					1/2/3/4	NOTE	103 G7	9n	67	hh				OFF=0x00, ON=0x7F	
CC					33	—	Bn	21	hh				Difference count value from when previous operated		
5	TEMPO	+SHIFT	slide		1/2/3/4	CC	0	—	Bn	00	MSB			Min 0(MSB:0x00 LSB:0x00)~Max 16383(MSB:0x7F LSB:0x7F)	
					1/2/3/4	CC	5	—	Bn	05	MSB			"-" side : 0	
6	VINYL	+SHIFT	press		1/2/3/4	NOTE	23 B0	9n	17	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					1/2/3/4	NOTE	78 F5	9n	4E	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
7	KEYLOCK	+SHIFT	press		1/2/3/4	NOTE	26 D1	9n	1A	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					1/2/3/4	NOTE	96 C7	9n	60	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
8	SHIFT	+SHIFT	press		1/2/3/4	NOTE	63 D#4	9n	3F	hh			LED are lit by DDJ-SB		
					1/2/3/4	NOTE	114 F#8	9n	72	hh	← MIDI-INと同じ	OFF=0(0x00), ON=127(0x7F)			
7	DECK	+SHIFT	press		1/2/3/4	NOTE	115 G8	9n	73	hh	← MIDI-INと同じ	OFF=0(0x00), ON=127(0x7F)			
					1/2/3/4	NOTE	115 G8	9n	73	hh	← MIDI-INと同じ	OFF=0(0x00), ON=127(0x7F)			
MIXER	9	CROSSFADER	+SHIFT	slide		7	CC	31 63	—	B6	1F 3F	MSB		Min 0(MSB:0x00 LSB:0x00)~Max 16383(MSB:0x7F LSB:0x7F)	
	10	CH FADER	+SHIFT	slide	Zero → not Zero		1/2/3/4	CC	19 51	—	Bn	13 33	MSB		left edge: 0, right edge: 16383
							1/2/3/4	NOTE	102 F#7	9n	66	hh			Min 0(MSB:0x00 LSB:0x00)~Max 16383(MSB:0x7F LSB:0x7F)
							1/2/3/4	NOTE	81 A5	9n	51	hh			PLAY message only for CH fader start
	10	CH FADER	+SHIFT	slide	Not Zero → Zero		1/2/3/4	NOTE	82 A#5	9n	52	hh			SYNCH message only for CH fader start
							1/2/3/4	NOTE	82 A#5	9n	52	hh			OFF=0(0x00), ON=127(0x7F)
							1/2/3/4	NOTE	82 A#5	9n	52	hh			CUE message only for CH fader start
	11	TRIM		rotate		1/2/3/4	CC	4 36	—	Bn	04 24	MSB			Min 0(MSB:0x00 LSB:0x00)~最大16383(MSB:0x7F LSB:0x7F)
						1/2/3/4	CC	7 39	—	Bn	07 27	MSB			左回しきり: 0
						1/2/3/4	CC	7 39	—	Bn	07 27	MSB			右回しきり: 16383
	11	EQ HIGH		rotate		1/2/3/4	CC	11 43	—	Bn	0B 2B	MSB			Min 0(MSB:0x00 LSB:0x00)~Max 16383(MSB:0x7F LSB:0x7F)
						1/2/3/4	CC	11 43	—	Bn	0B 2B	MSB			When turned fully counterclockwise: 0
	12	EQ MID		rotate		1/2/3/4	CC	15 47	—	Bn	0F 2F	MSB			When turned fully clockwise: 16383
						1/2/3/4	CC	15 47	—	Bn	0F 2F	MSB			When turned fully counterclockwise: 0
13	EQ LOW		rotate		1/2/3/4	CC	15 47	—	Bn	0F 2F	MSB			When turned fully clockwise: 16383	
					1/2/3/4	CC	23 55	—	B6	17 37	MSB			Min 0(MSB:0x00 LSB:0x00)~Max 16383(MSB:0x7F LSB:0x7F)	
					1/2/3/4	CC	23 55	—	B6	17 37	MSB			When turned fully counterclockwise: 0	
14	FILTER		rotate	CH1 Filter	7	CC	24 56	—	B6	18 38	MSB			Min 0(MSB:0x00 LSB:0x00)~Max 16383(MSB:0x7F LSB:0x7F)	
				CH2 Filter	7	CC	24 56	—	B6	18 38	MSB			When turned fully counterclockwise: 0	
				CH3 Filter	7	CC	25 57	—	B6	19 39	MSB			When turned fully clockwise: 16383	

				CH4 Filter	7	CC	26 58	—	B6	1A 3A	MSB LSB				Min 0(MSB:0x00 LSB:0x00)~Max 16383(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383	
EFFECT	15	CUE (Headphone)	+SHIFT	press	1/2/3/4	NOTE	84	C6	9n	54	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					1/2/3/4	NOTE	104	G#7	9n	68	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
	16	MASTER LEVEL		rotate												
	17	HEADPHONES MIX		rotate	7	CC	5 37	—	B6	05 25	MSB LSB				Min 0(MSB:0x00 LSB:0x00)~Max 16383(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383	
	18	HEADPHONES VOL		rotate												
	19	FILTER FADE		press											LED are lit by DDJ-SB	
	19	CH Level Indicator										Bn	02	hh	Min 0(0x00)~Max 127(0x7F)	
EFFECT	20	FX1-1 ON	+SHIFT	press	5	NOTE	71	B4	94	47	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F) LED are lit by DDJ-SB or by MIDI-OUT			
					5	NOTE	99	D#7	94	63	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
	22	FX1-2 ON	+SHIFT	press	5	NOTE	72	C5	94	48	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F) LED are lit by DDJ-SB or by MIDI-OUT			
					5	NOTE	100	E7	94	64	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
	25	FX1-3 ON	+SHIFT		5	NOTE	73	C#5	94	49	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F) LED are lit by DDJ-SB or by MIDI-OUT			
					5	NOTE	101	F7	94	65	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
	23	FX1-1			rotate	5	CC	2 34	—	B4	02 22	MSB LSB				Min 0(MSB:0x00 LSB:0x00)~Max 16383(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383
		FX1-2				5	CC	4 36	—	B4	04 24	MSB LSB				Min 0(MSB:0x00 LSB:0x00)~Max 16383(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383
		FX1-3				5	CC	6 38	—	B4	06 26	MSB LSB				Min 0(MSB:0x00 LSB:0x00)~Max 16383(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383
		FX1 BEATS	+SHIFT			5	CC	0 32	—	B4	00 20	MSB LSB				Min 0(MSB:0x00 LSB:0x00)~Max 16383(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383
	21	FX2-1 ON	+SHIFT		6	NOTE	71	B4	95	47	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F) LED are lit by DDJ-SB or by MIDI-OUT			
					6	NOTE	99	D#7	95	63	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
	24	FX2-2 ON	+SHIFT		6	NOTE	72	C5	95	48	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F) LED are lit by DDJ-SB or by MIDI-OUT			
					6	NOTE	100	E7	95	64	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
	26	FX2-3 ON	+SHIFT		6	NOTE	73	C#5	95	49	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F) LED are lit by DDJ-SB or by MIDI-OUT			
					6	NOTE	101	F7	95	65	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
27	FX2-1			rotate	6	CC	2 34	—	B5	02 22	MSB LSB				Min 0(MSB:0x00 LSB:0x00)~Max 16383(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383	
	FX2-2				6	CC	4 36	—	B5	04 24	MSB LSB				Min 0(MSB:0x00 LSB:0x00)~Max 16383(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383	
	FX2-3				6	CC	6 38	—	B5	06 26	MSB LSB				Min 0(MSB:0x00 LSB:0x00)~Max 16383(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383	
	FX2 BEATS	+SHIFT			6	CC	0 32	—	B5	00 20	MSB LSB				Min 0(MSB:0x00 LSB:0x00)~Max 16383(MSB:0x7F LSB:0x7F) When turned fully counterclockwise: 0 When turned fully clockwise: 16383	
BROWSER	27	BROWSE	+SHIFT	rotate	7	CC	64	—	B6	40	hh				Difference count value from when previous operated Turn clockwise: 1~30(0x01~0x1E) Turn counterclockwise: 127~98(0x7F~0x62)	
				press	7	NOTE	65	F4	96	41	hh				OFF=0(0x00), ON=127(0x7F)	
	31	LOAD	+SHIFT	press	Deck1	7	NOTE	70	A#4	96	46	hh				OFF=0(0x00), ON=127(0x7F)
					Deck3	7	NOTE	88	E6	96	58	hh				OFF=0(0x00), ON=127(0x7F)
					Deck2	7	NOTE	71	B4	96	47	hh				OFF=0(0x00), ON=127(0x7F)
					Deck4	7	NOTE	89	F6	96	59	hh				OFF=0(0x00), ON=127(0x7F)
					7	NOTE	73	C#5	96	49	hh				OFF=0(0x00), ON=127(0x7F)	
					7	NOTE	91	G6	96	5B	hh				OFF=0(0x00), ON=127(0x7F)	
	PERFORMANCE PADS HOT CUE AUTO LOOP MANUAL LOOP SAMPLER	31	PERFORMANCE PAD 1	+SHIFT	press	in HOT CUE mode	8/9/A/B	NOTE	0	C-1	9p	00	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)	
							8/9/A/B	NOTE	8	G#-1	9p	08	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)	
						8/9/A/B	NOTE	16	E0	9p	10	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	24	C1	9p	18	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	32	G#1	9p	20	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	40	E2	9p	28	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	48	C3	9p	30	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	56	G#3	9p	38	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	64	E4	9p	40	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	72	C5	9p	48	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	80	G#5	9p	50	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	88	E6	9p	58	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	96	C7	9p	60	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	104	G#7	9p	68	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
		8/9/A/B	NOTE	112	E8	9p	70	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)						
		8/9/A/B	NOTE	120	C9	9p	78	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)						
32		PERFORMANCE PAD 2	+SHIFT	press	in HOT CUE mode	8/9/A/B	NOTE	1	C#-1	9p	01	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	9	A-1	9p	09	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	17	F0	9p	11	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	25	C#1	9p	19	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	33	A1	9p	21	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	41	F2	9p	29	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	49	C#3	9p	31	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	57	A3	9p	39	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	65	F4	9p	41	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	73	C#5	9p	49	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	81	A5	9p	51	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
						8/9/A/B	NOTE	89	F6	9p	59	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)		
					8/9/A/B	NOTE	97	C#7	9p	61	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	105	A7	9p	69	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
33	PERFORMANCE PAD 3	+SHIFT	press	in HOT CUE mode	8/9/A/B	NOTE	2	D-1	9p	02	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	10	A#-1	9p	0A	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	18	F#0	9p	12	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	26	D1	9p	1A	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	34	A#1	9p	22	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	42	F#2	9p	2A	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	50	D3	9p	32	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	58	A#3	9p	3A	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	66	F#4	9p	42	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	74	D5	9p	4A	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	81	A#5	9p	52	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	90	F#6	9p	5A	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	98	D7	9p	62	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	106	A#7	9p	6A	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
34	PERFORMANCE PAD 4	+SHIFT	press	in HOT CUE mode	8/9/A/B	NOTE	11	B-1	9p	0B	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	19	G0	9p	13	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	27	D#1	9p	1B	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	35	B1	9p	23	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	43	G2	9p	2B	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	51	D#3	9p	33	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	59	B3	9p	3B	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	67	G4	9p	43	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	75	D#5	9p	4B	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	83	B5	9p	53	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	91	G6	9p	5B	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	99	D#7	9p	63	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	107	B7	9p	6B	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
					8/9/A/B	NOTE	115	G8	9p	73	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)			
35	HOT CUE mode	+SHIFT	press	1/2/3/4	NOTE	27	D#1	9n	1B	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)				
				1/2/3/4	NOTE	105	A7	9n	69	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)				
36	AUTO LOOP mode	+SHIFT	press	1/2/3/4	NOTE	30	F#1	9n	1E	hh	← Same as MIDI-IN	OFF=0(0x00), ON=127(0x7F)				
				1/2/3/4	NOTE	107	B7	9n								

MIDI-OUT

Group	Communication name	MIDI assign reference				MIDI-IN (to computer)			MIDI-OUT (from computer)			Details (Data2)
		MIDI Channel (Dec)	NOTE / CC	MIDI Data (Data1) (Dec)	(English scale)	Status (Hex)	Data 1 (Hex)	Data 2 (Hex)	Status (Hex)	Data 1 (Hex)	Data 2 (Hex)	
Other	DJ App. Connect	12	NOTE	9	A-1				9B	09	hh	connected = 0x00-0x7F(any value)

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