



Graphic Operation Terminal GOT SIMPLE Series



Simple, high functioning, and user friendly model for a reliable system.

GOT5IMPLE



10 inch GS2110-WTBD





7inch GS2107-WTBD

Reduce design, setup, and maintenance cost! Increase production efficiency with Mitsubishi.

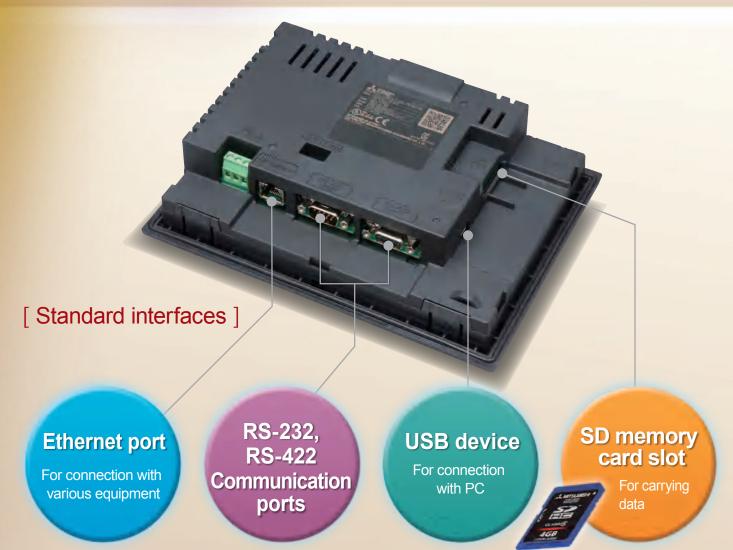


Add value to your installation and machine!
Utilize superior functionality to increase system value.



Streamlined screen design!
Intuitive operation is easy even for beginners.





Reduce design, setup, and maintenance cost

Reduce mass production installation setup costs

Start from SD memory card

Transfer the screen data and all the necessary system data to make a GOT operate to a SD memory card in advance.

Then the GOT can be used just by inserting the SD memory card.

Useful for replacement or maintenance of GOT.



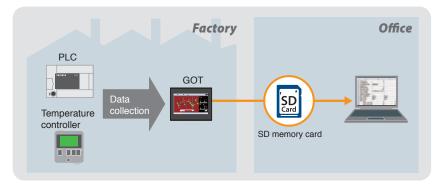


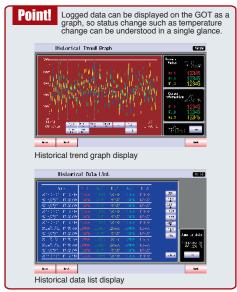
Device data collection

Logging function

GOT manages the data of all connected industrial devices. The data can be collected at any arbitrary timing and can be used for data analysis and feedback.





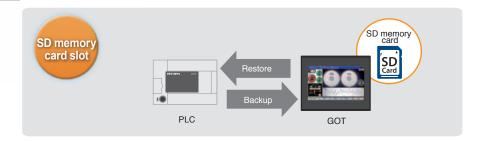


Backup of important programs

Backup/Restore

Using backup/restore function, PLC program can be replaced even without a PC. When PLC program is backed up to GOT*1, PLC program and machine operation can instantly be restored even if an unexpected failure occurs.

*1: Separate SD memory card required





Setup and modification on-site

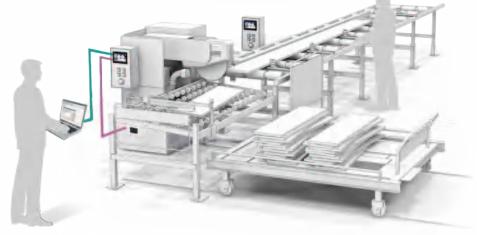
FA transparent function

Set up and modify devices without changing cable connections.

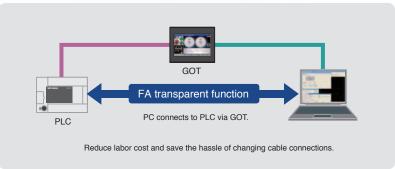


Ethernet

port



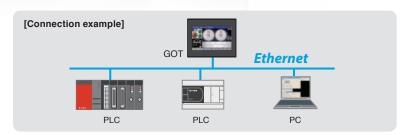
The GOT acts as a transparent gateway to enable programming, start up, and adjustment of Mitsubishi industrial devices.



Remote maintenance



With Ethernet, it is possible to connect a system of mixed vendors and models, expanding the possibilities at the factory floor.

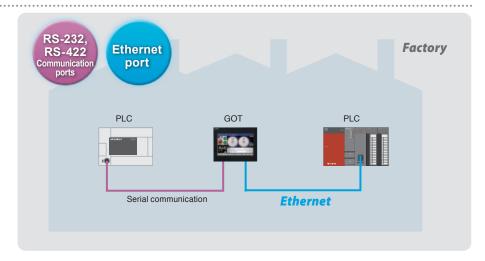


Reduce design, setup, and maintenance cost

Use GOT SIMPLE to control industrial devices!

Multi-channel function

Up to 2 channels of industrial device can be controlled with one GOT. The data can be easily transferred between devices with just simple settings in GT Works3.



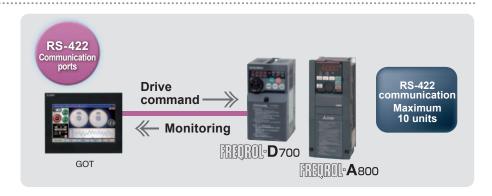
Direct connection to inverters

Inverter connection

Inverter can be directly connected to GOT. Just by connecting them together, communication parameters can automatically be set.

GOT can also monitor PLC function devices, and even when multiple inverters are connected, one GOT can

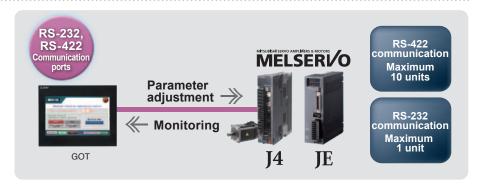
manage them all.



Easy monitoring of servo operation status

Servo connection

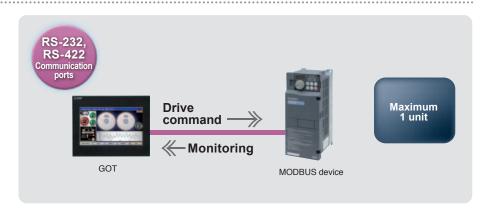
Easy setup, monitoring, adjusting alarms, diagnosis, parameter settings, and test operation.



● MODBUS[®] communication also supported

MODBUS communication

As a master station, GOT can communicate with a MODBUS/RTU slave device. 1 device can be connected for monitoring of production line, etc.



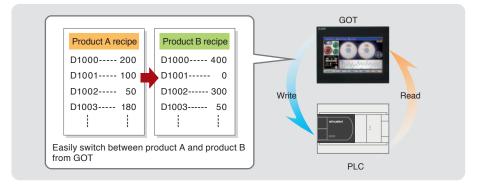


Convenient for frequent changeover

Recipe function

Recipe information such as material blend and machine conditions can be saved in the GOT. This information can be written from the GOT to the PLC, enabling changeover without changing the PLC program.

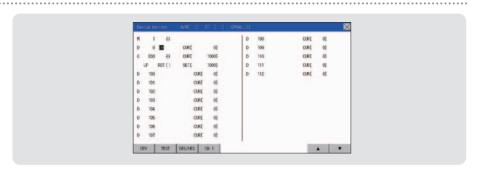
Adjusted data can also be read and stored in the GOT.



Monitor device value and set values for timer, etc.

Device monitor function

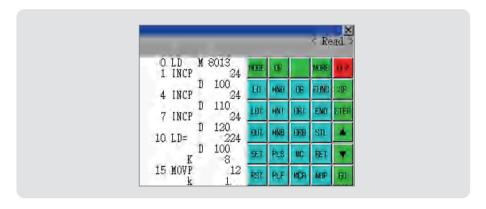
Monitor and change FX/L/Q series internal device ON/OFF status, word values, timer and counter values.



Program change without a PC on-site

MELSEC-FX list editor

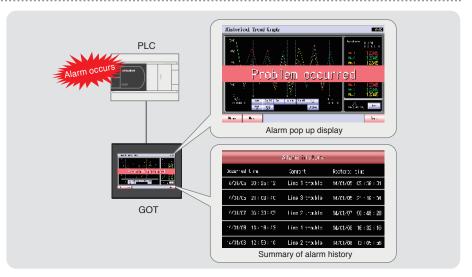
Convenient for minor on-site program changes.



Alarm status identification

Alarm function

Alarm functions such as alarm display, alarm history, and alarm pop up display are included, and display settings can be made on each screen. Language switching functionality is also supported.

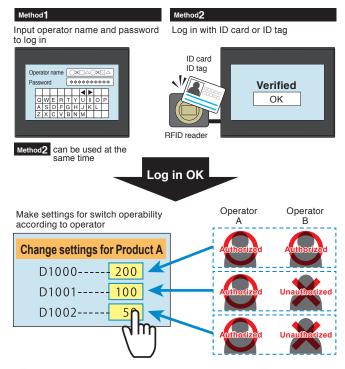


Add value to your installation and machine

Strengthened security with operator based authorization

Operator authentication function

Setting the level (authority) of operation and display for each operator can strengthen security and prevent operation errors. There are two methods for operator authentication at startup or when changing screens.



Easily installed on compact equipment

Vertical display

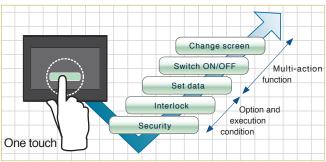
By using a GOT vertically, it can be easily installed on compact equipment and can neatly display vertical letters. Less scrolling is needed when displaying lists.



Setting multiple functions with one switch

Multi-action switch

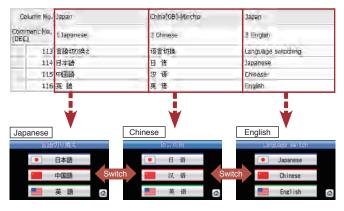
Multiple functions can be set to one switch, so there is no need for multiple switches for separate functions. By setting execution sequence and conditions, delay, repeat, interlock settings can be combined, reducing the burden of PLC programming.



Language change according to country of the operator

Language switching

Screen can be easily made for switching between Japanese, Chinese, English, etc. 30 languages can be set for each comment. Screens, not only languages, can be switched based on purpose.



Saving energy when operator is not present

Screen save time can be set from 1 to 60 minutes. By setting the backlight ON/OFF, energy can be saved when no operator is present. PLC can also control the ON/OFF status, so the backlight will turn ON and alarm screen will display when an alarm occurs.

GOT SIMPLE function list

Screen design

■Figure/object functions Figure

Logo text Touch switch Lamp Numerical display, Numerical input Text display, Text input Date display, Time display

Comment display Parts display Parts movement Simple alarm display Alarm display (user) Level

Panel meter Line graph Trend graph Bar graph Statistic bar graph Statistic pie graph Scatter graph Historical trend graph Historical data list display

■Functions performed on background of GOT Logging Recipe Device data transfer Trigger action

Time action Hard copy

(File output/Serial printer output) Project/screen script

■Functions used with peripheral devices

Barcode function RFID function

Report function (Serial printer output)

GOT functions

Base screen Overlap window Superimpose window Dialog window Key window

Language switching System information Operator authentication Startup logo FA transparent Multi-channel function Station No. switching Backup/Restore

Debug functions

Device monitor MFI SEC-FX list editor



Screen design software

GOT Screen Design Software MELSOFT GT Works 3+plus

Streamlined efficiency and screen management Creative freedom with intuitive operation



Pick and place intuitive screen design is easy even for beginners



Using parts is simple. Just select a part and place on the screen! Design your screen with intuitive pick and place operation.

Reduce design time by registering frequently used parts to 'My Favorites' or 'My Library'. Import/export is also possible.



Required installation before using GOT SIMPLE

- ■GS installer installation procedure
- Double click the GS Installer (GS Installer.exe) in the folder of GT Works3 Ver. 1.105K or later. Operate the personal computer in accordance with instructions given on the screen.
- 2. When the completion screen appears, click the [Finish] button to finish installing the GS Installer.
- *: The functions described here are available in GT Designer3 Version 1.118Y and later.



[Storage place]
DVD-ROM: <Root>\Disk1\Tool\GS\GS Installer.exe

For more details, please refer to the included manual

Variety of fonts full of expression

All kinds of fonts can be used, from standard font to Windows® fonts. All fonts support Unicode2.1, displayed clearly on the screen in any language.

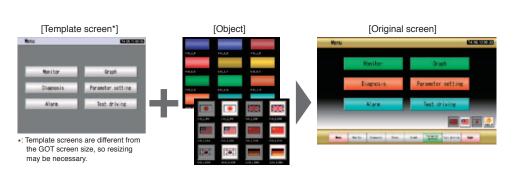






Complete parts library

Lamp, switch, and other objects can be selected from the library. Library images are available in several colors, so screens can easily be made with a sense of unity.



• Interaction with various industrial devices

In addition to various built-in functions, direct connection between Mitsubishi industrial devices will improve productivity and reduce costs.

PLC















Inverter







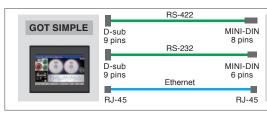


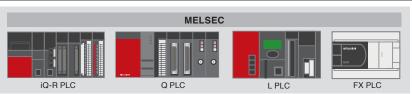


RIJRI-A800 **RIJRI-D**700

Connection to PLCs

A cable is required to connect GOT and PLC. Please prepare the appropriate cable.





Options

Product name		Model	Cable length	Description	
		GT01-C10R4-8P	1m		
		GT01-C30R4-8P	3m	FXCPU <=> GOT	
	FXCPU direct connection cable, FXCPU expansion board connection cable	GT01-C100R4-8P	10m	FXCPU expansion board <=> GOT	
	1 AOI O expansion board connection cable	GT01-C200R4-8P	20m	[MINI-DIN 8 pins <=> D-sub 9 pins]	
		GT01-C300R4-8P	30m		
		GT01-C30R4-25P	3m	QnA/ACPU/motion controller CPU[A series]/FXCPU <=> GOT	
RS-422 Cable	QnA/A/FXCPU direct connection cable,	GT01-C100R4-25P	10m	RS-422 converter cable [FA-CNV CBL] <=> GOT	
Cabic	Computer link connection cable	GT01-C200R4-25P	20m	Serial communication unit <=> GOT	
		GT01-C300R4-25P	30m	[D-sub 25 pins <=> D-sub 9 pins]	
	Computer link connection cable	GT09-C30R4-6C	3m		
		GT09-C100R4-6C	10m	Serial communication unit <=> GOT Computer link unit <=> GOT [Stranded wire <=> D-sub 9 pins]	
		GT09-C200R4-6C	20m		
		GT09-C300R4-6C	30m	[Silanded with the Disable pine]	
RS-232 Cable	Q/LCPU direct connection cable	GT01-C30R2-6P	3m	Q/LCPU <=> GOT [MINI-DIN 6 pins <=> D-sub 9 pins]	
	FXCPU expansion board connection cable, FXCPU special adapter connection cable	GT01-C30R2-9S	3m	FXCPU expansion board <=> GOT FXCPU special adapter <=> GOT [D-sub 9 pins <=> D-sub 9 pins]	
	FXCPU special adapter connection cable	GT01-C30R2-25P	3m	FXCPU special adapter <=> GOT [D-sub 25 pins <=> D-sub 9 pins]	
	Computer link connection cable	GT09-C30R2-9P	3m	Serial communication unit <=> GOT Computer link unit <=> GOT [D-sub 9 pins <=> D-sub 9 pins]	
		GT09-C30R2-25P	3m	Serial communication unit <=> GOT Computer link unit <=> GOT [D-sub 25 pins <=> D-sub 9 pins]	
USB Cable	Data transfer cable	GT09-C30USB-5P	3m	PC[Screen design software] <=> GOT [USB-A <=> USB Mini-B]	

Other options

Product name	Model	Description				
CD momory cord	L1MEM-2GBSD	SD memory card 2GB				
SD memory card	L1MEM-4GBSD	SDHC memory card 4GB				

Connectable third-party PLCs

Manufacturer	Series/model name		Computer link connection		CPU direct connection	
			RS-422	RS-232	RS-422	RS-232
	SYSMAC CJ1	CJ1H	O* ²		×	0
		CJ1G				
		CJ1M				
	SYSMAC CJ2	CJ2H				
Omron		CJ2M				O*3
	SYSMAC CP1	CP1H	0			×
		CP1L				
		CP1E [N type]*1				0
	KV-700		0		×	
	KV-1000					0
Keyence	KV-3000					
	KV-5000					
	KV-5500					×

Manufacturer	Series/model name	Computer link connection		CPU direct connection	
		RS-422	RS-232	RS-422	RS-232
Panasonic	FP0	×		×	0
Industrial	FP-M				
Devices	FP-Σ				
SUNX	FP-X				
	SIMATIC S7-200 series				0
	SIMATIC S7-300 series				
Siemens AG*4	SIMATIC S7-400 series	·	<	×	
	SIMATIC S7-1200 series				×

- *1: Among CP1E (N type), only direct connection is possible for CPU units of 20 I/O points or less. *2: RS-422 or RS-232 can be selected *3: Only CJ2M-CPU1II can be connected *4: Use GT09-C30R20801-9S to connect to Siemens PLCs



For connection details, see the GOT2000 series connection manuals below.

- Mitsubishi Product (SH-081197ENG)

- Non Mitsubishi Product 1 (SH-081198ENG)
 Non Mitsubishi Product 2 (SH-081199ENG)
 Microcomputer, MODBUS Products, Peripherals (SH-0811200ENG)



Specifications

■ General Specifications

Item	Specifications					
Operating ambient temperature	0 to 50°C					
Storage ambient temperature	-20 to 60°C					
Operating/Storage ambient humidity	10 to 90%RH, no When the ambier	10 to 90%RH, non-condensing (The wet bulb temperature is 39°C) When the ambient temperature exceeds 40°C, maintain the absolute humidity at 40°C and 90%.				
			Frequency	Acceleration	Half amplitude	Sweep Count
		Under intermittent vibration	5 to 8.4Hz	-	3.5mm	10times each in X, Y and Z directions
Vibration resistance	Conforms to IEC 61131-2		8.4 to 150Hz	9.8m/s ²	-	
		Under continuous vibration	5 to 8.4Hz	-	1.75mm	_
			8.4 to 150Hz	4.9m/s ²	-	
Shock resistance	Conforms to IEC 61131-2 (147m/s², 3times each in the X, Y, and Z directions)					
Operating atmosphere	Must be free of lamp black, corrosive gas, flammable gas, or excessive amount of electro conductive dust particles. Must be no direct sunlight. (Same as for saving)					
Operating altitude*1	2000m (6562ft) max.					
Installation location	Inside control panel					
Overvoltage category*2	II or less					
Pollution degree*3	2 or less					
Cooling method	Self-cooling					
Grounding	Class D groundin	Class D grounding (100 Ω or less), To be connected to the panel when grounding is not possible.				

- *1: Do not use or store the GOT under pressures higher than the atmospheric pressure of altitude 0m (0ft). Failure to observe this instruction may cause a malfunction. When the air inside the control panel is purged by pressurization, the surface sheet may be lifted by high pressure. As a result, the touch panel may be difficult to press, and the sheet may be peeled off.
- *2: This indicates the section of the power supply to which the equipment is assumed to be connected between the public electrical power distribution network and the machinery within the premises. Category II applies to equipment for which electrical power is supplied from fixed facilities. The surge voltage withstand level for up to the raged voltage of 300V is 2500V.
 *3: This index indicates the degree to which conductive pollution is generated in the environment where the equipment is used. In pollution degree 2, only non-conductive pollution occurs but temporary conductivity may be produced due to condensation.

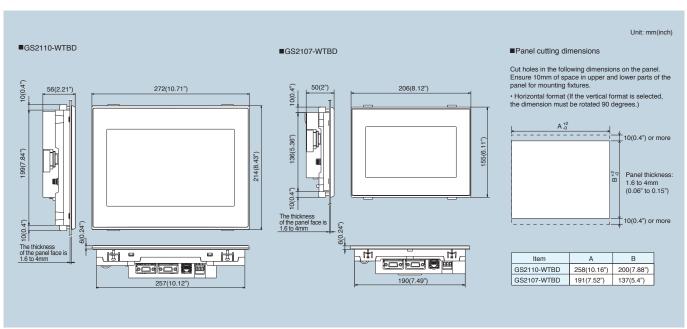
■ Power Supply Specifications

Item	Specifications			
item	GS2110-WTBD	GS2107-WTBD		
Input power supply voltage	24VDC (+10%, -15%), ripple voltage 200mV or less			
Power consumption	7.6W (317mA/24V) or less	6.5W (271mA/24V) or less		
At backlight off	3.8W (158mA/24V) or less	3.8W (158mA/24V) or less		
Inrush current	17A or less (6ms, 25°C ambient temperature, maximum load)			
Permissible instantaneous power failure time	Within 5ms			
Noise immunity	Conforms to IEC61000-4-4, 2kV (power supply line)			
Dielectric withstand voltage	350VAC for 1 minute (across power supply terminals and earth)			
Insulation resistance	500VDC across power terminals and earth, 10 $\mbox{M}\Omega$ or more by an insulation resistance tester			

■ Function Specifications

Item		Specifications				
- 11	tem	GS2110-WTBD GS2107-WTBD				
	Туре	TFT color liquid crystal display				
	Screen size	10"	7"			
	Resolution	800 x 480 [dots]				
Display	Display size	W222 (8.74) × H132.5 (5.22) [mm](inch) (Horizontal format)	W154 (6.06) × H85.9 (3.38) [mm](inch) (Horizontal format)			
	Display character	16-dot standard font : 50 characters 30 lir	nes (2-byte) (Horizontal format)			
	Display color	65536 colors				
	Brightness	32-level adjustment				
Backlight		LED-type (no replacement required) Backlight off/screen saving time can be so	et.			
	Туре	Analog-resistive film type				
	Key size	Minimum 2 x 2 [dots] (per key)				
Touch panel	Number of points touched simultaneously	Simultaneous 2-point presses prohibited (Only one point can be touched.)				
	Life	1 million times (operating force 0.98N max.)				
Memory	C drive	Flash memory (Internal) (9Mbytes), for storing project data, OS				
wellioly	Curive	Life (Number of write times) 100,000times				
	RS-422	RS-422, 1ch Transmission speed : 115200/57600/38400/19200/9600/4800bps Connector shape : D-sub 9 pins (Female) Application : For communicating with controllers Terminating resistor : 330 Ω fixed				
Built-in	RS-232	RS-232, 1ch Transmission speed: 115200/57600/38400/19200/9600/4800bps Connector shape: D-sub 9 pins (Male) Application: For communication with controller, bar code reader and printer For PC connection (FA transparent function)				
interface	Ethernet	Data Transfer method : 100BASE-TX, 10BASE-T, 1ch Connector shape : RJ-45 (modular jack) Application : For communication with controllers For PC connection (Project data read/write, FA transparent function)				
	USB	USB (Full Speed 12Mbps) 1ch Connector shape: Mini-B Application : For PC connection (Project data read/write, FA transparent function)				
	SD memory card	Conforms to the SD standard, 1ch Supported memory card : SDHC memory card, SD memory card Application : Project data read/write, logging data save				
Buzzer output		Single tone (LONG/SHORT/OFF adjustable)				
Protective structure		IP65F (only the front part of the panel)				
External dimensions		W272 (10.71) × H214 (8.43) × D56 (2.21) [mm] (inch)	W206 (8.11) × H155 (6.11) × D50 (1.97 [mm] (inch)			
Panel cutting dimensions		W258 (10.16) × H200 (7.88) [mm] (inch) (Horizontal format)	W191 (7.52) × H137 (5.40) [mm](inch) (Horizontal format)			
Weight		Approx. 1.3kg (Excluding mounting fixtures)	Approx. 0.9kg (Excluding mounting fixtures)			
Compatible so (Version of GT	ftware package Designer3)	Version 1.105K or later*				

External dimensions



Installation of GS installer is required.
 The functions described here are available in GT Designer3 Version 1.118Y and later.

Graphic Operation Terminal GOT SIMPLE Series

▲ Safety Warning

• To ensure proper use of the products in this document, please be sure to read the instruction manual prior to use.

↑ Conditions of use
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 Ethernet is a trademark of Xerox Corporation in the United States.
 SD and SDHC Logos are registered trademarks or trademarks of SD-3C, LLC.
 MODBUS is a registered trademark of Schneider Electric SA.

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Actual screen may appear different from this catalog.

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