ZYYX
3D Printer

QUICK START GUIDE

The Frameless 3D Printer

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ZYYX 3D Printer Quick Start Guide version 001 14 09

LEGAL STATEMENT

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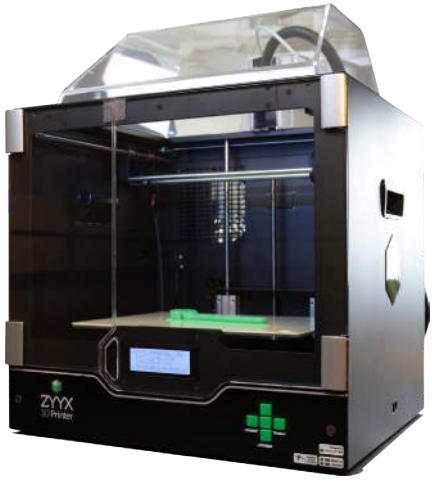
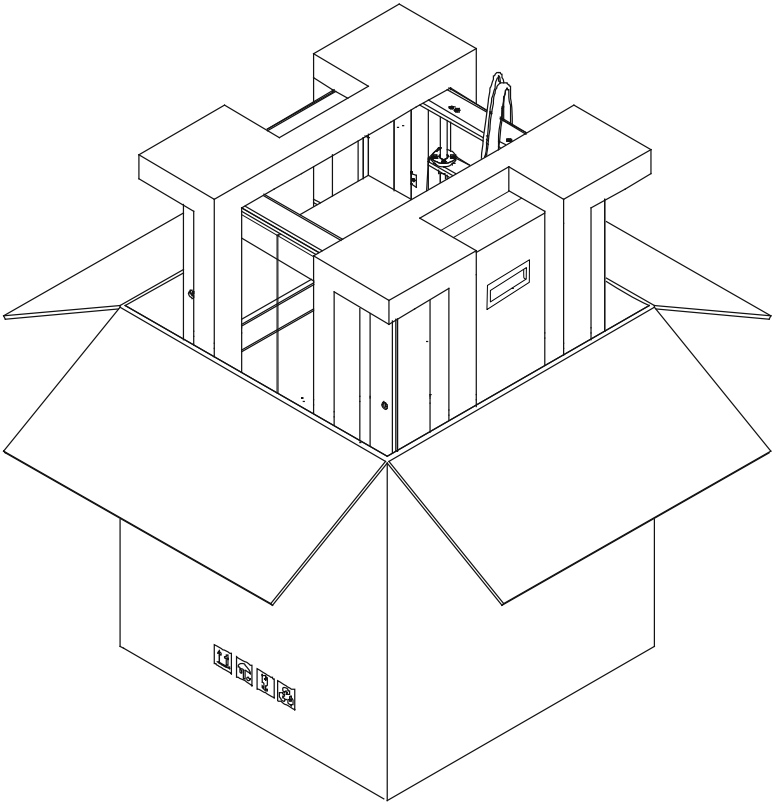
Specifications



Print Technology	Fused Filament Fabrication(FFF)
Build Volume	270x230x195 mm
Filament diameter	1.75 mm
Nozzle diameter	0.4 mm
Max Resolution	50 microns layer thickness, 11 microns XY positioning
Speed	up to 150mm/s print speed, 200mm/s travel speed
Printing temperature	100-265 Degrees Celsius
Filament type	PLA, ABS, Flexible PLA, TPU, Nylon, PET, Laywood, Laybrick, T-glase
Interfaces	USB, SD Card
Stepper Motor type	1.8° Step angle, 1/16 micro stepping
Build Plate	Glass build plate with ZYYX 3D Print Sheet top layer
Firmware	Custom Sailfish Open Source FW
Desktop Software	Simplify3D
Computer Requirements	Intel Pentium 4 or higher processor, 2GB or more of RAM, Windows XP or greater Mac OS X 10.6 or greater, Ubuntu Linux 12.10 or greater. OpenGL 2.0 capable system
Supported file types	STL, X3G
Product size	43x54x45,5(WxHxL) cm
Product weight	16kg

Unpacking your printer - STEP 1

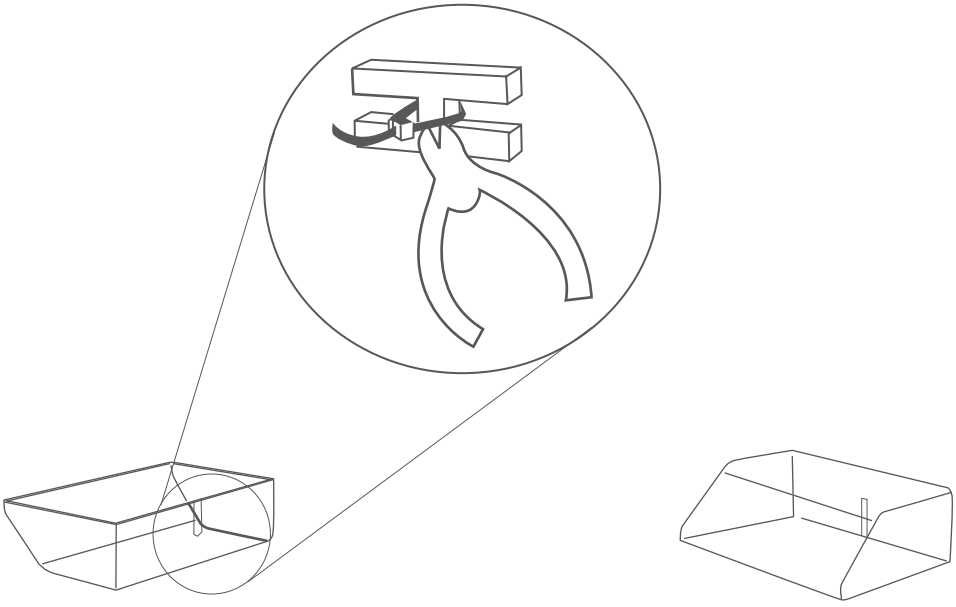
1. Place the box on the ground and open it up.
2. Slowly take the printer out of the box by grasping the upper frame with two hands. Place it on a sturdy table.
3. Gently remove all the fixtures holding parts in place for transport. Be careful with scissors.



I. Meet the ZYYX 3D Printer

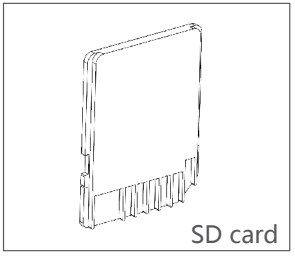
Unpacking your printer - STEP 2

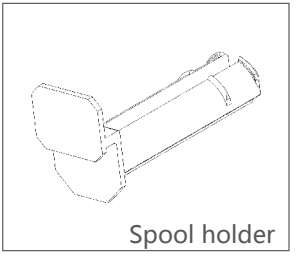
1. Remove all the plastic foam and the filament spool (optional) from inside the printer. If needed move build plate holder by turning the z axis screw
2. With a wire cutter cut the cable tie attached at the back of the cover and the z axis rod
3. Lift the the cover out
4. Cut and remove the two tape bands around the print head axis

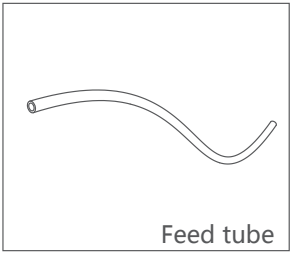


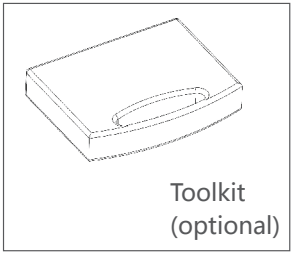
What´s included

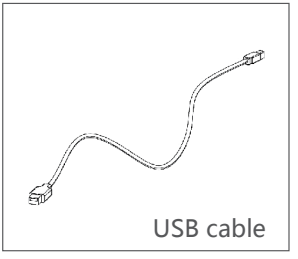
The box contains the following accessories. If anything is missing or damaged, please contact your sales representative from whom you purchased the printer.

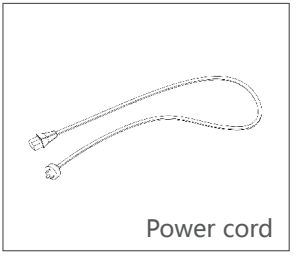

SD card

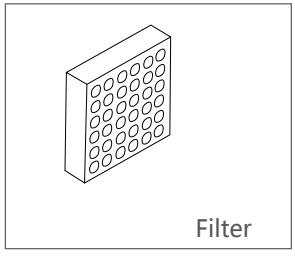

Spool holder

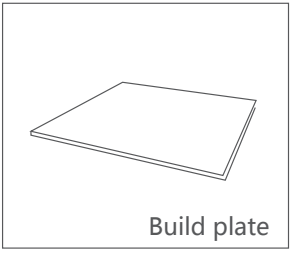

Feed tube

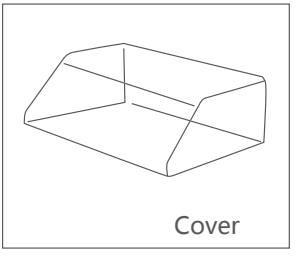

Toolkit
(optional)


USB cable


Power cord


Filter


Build plate


Cover

I. Meet the ZYYX 3D Printer

At a glance

[1] LCD panel

[2] Function buttons

[3] USB Port

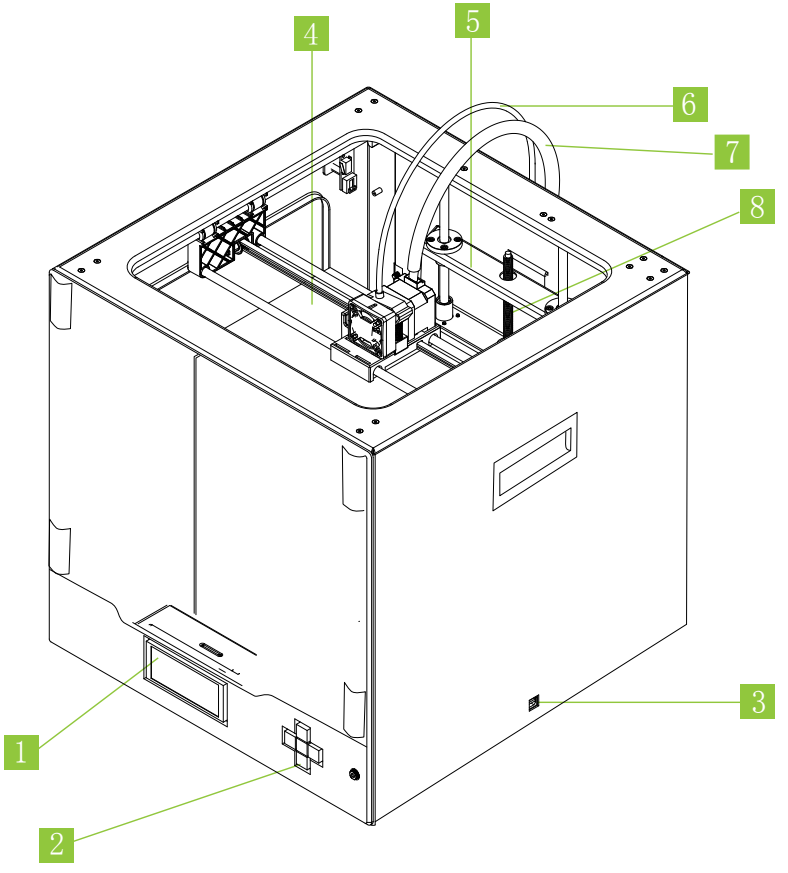
[4] Build Plate

[5] Build Plate Holder

[6] Feed Tube

[7] Print Head Cable

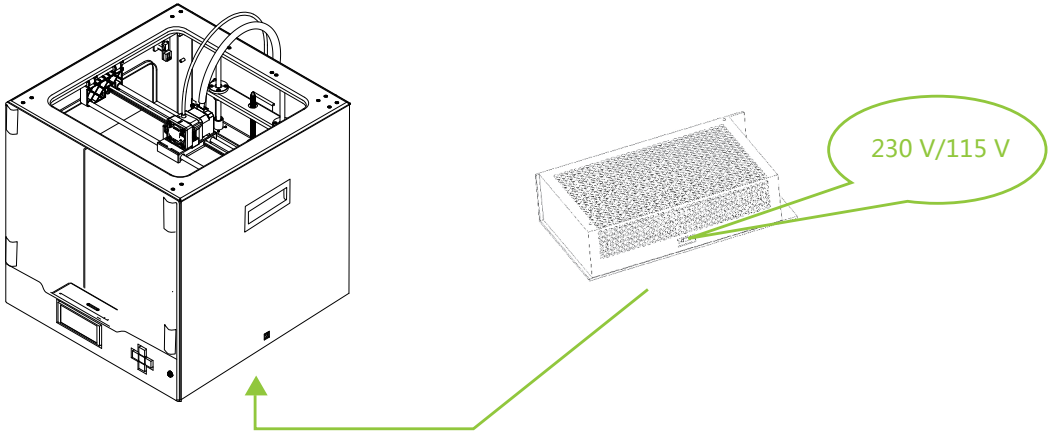
[8] Threaded Z-axis rod

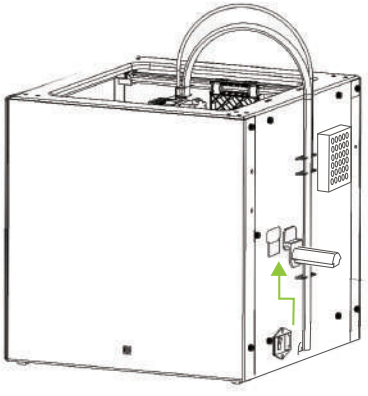


II. Setting up your ZYYX 3D Printer

Power Supply

The power supply of the ZYYX 3D Printer can be switched between 230 Volt and 115 Volt. It is located at the bottom side and the default setting is 230 Volt





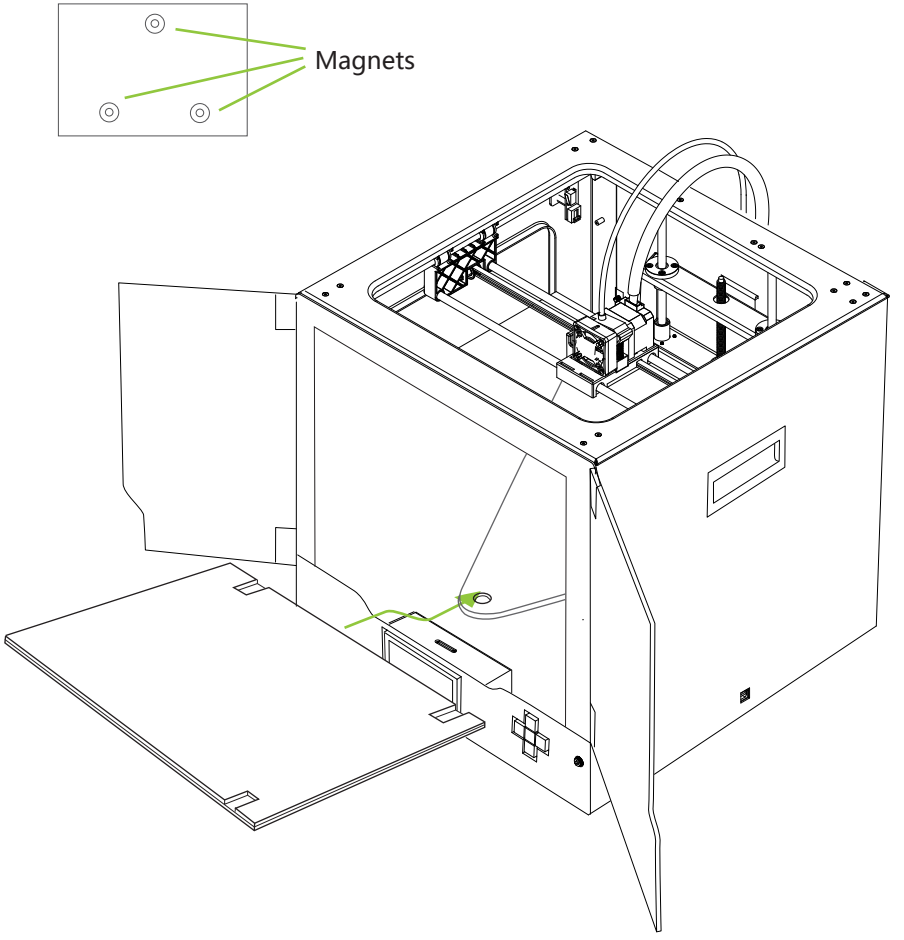
Installing Spool holder

Tilt the spool holder and insert it in to the holder on the back of the printer.

II. Setting up your ZYYX 3D Printer

Insert Build Plate

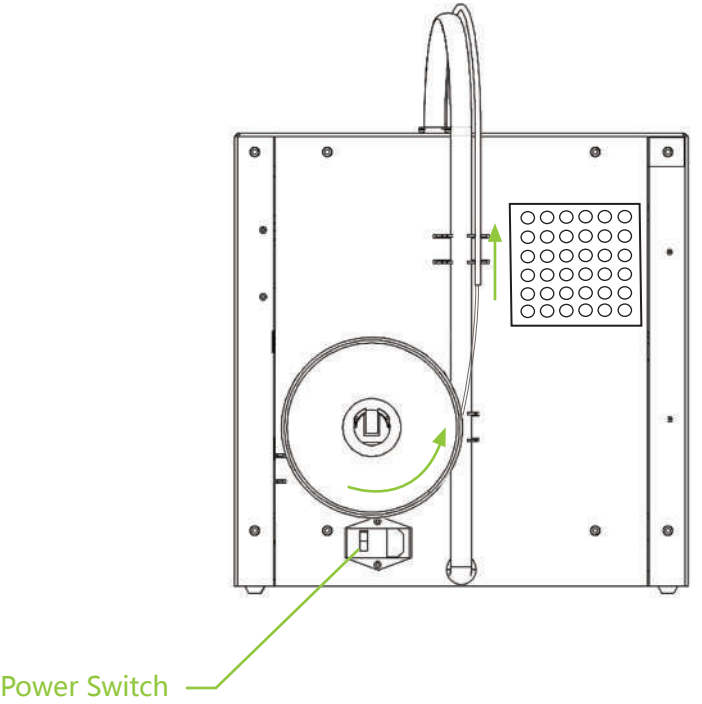
Place the build plate in the printer. Make sure that all three magnets under the build plate are positioned correctly in the circular grooves in the build plate holder



II. Setting up your ZYYX 3D Printer

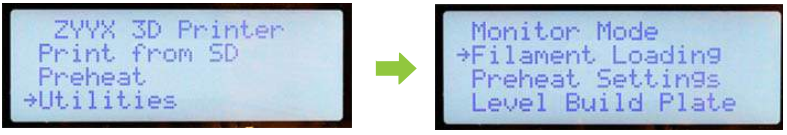
Loading Filament - STEP 1

Turn the power on. Fit the filament spool onto the spool holder on the back of the machine. Make sure the spool spins counter-clockwise when viewed from the back of the machine. Cut off any molten plastic from the tip of the filament string. Then push filament through the feed tube until the filament string appears at the other end of the feed tube.

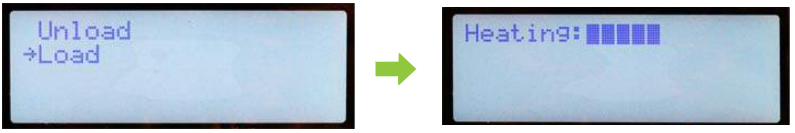


Loading Filament - STEP 2

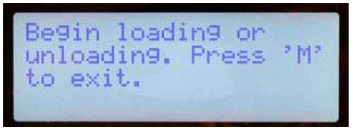
By using the function buttons, perform the following steps to load the filament



Choose Utilities → Choose Filament

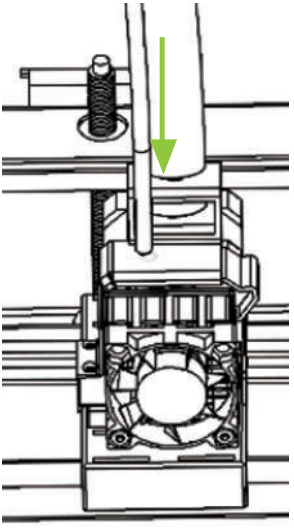


Choose Load → Wait for heating up



When the above message appears in the LCD push the filament string straight down into the print head feeder hole.

When you can feel the print head gripping the filament, push the feed tube into the feed tube holder.
Wait until you can see the correct color plastic extruded from below the print head nozzle and press the (m)id-button to exit



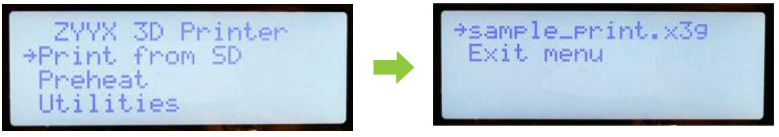
III. Printing

Printing from SD Card

The ZYYX 3D printer uses the Simplify 3D Integrated Printing Software to generate the print file needed for printing. Please refer to the Quick Start Guide for Simplify 3D for creating your first print file. This guide can be downloaded from www.zyyx3dprinter.com/support.

When you have your print file stored on the supplied SD card, simply follow these instructions:

Chose Print from SD and then choose the file you created from the file list shown in the LCD



After you have selected the file by pressing the mid button, the print Head will heat up and then commence with printing your model

Cancel Print

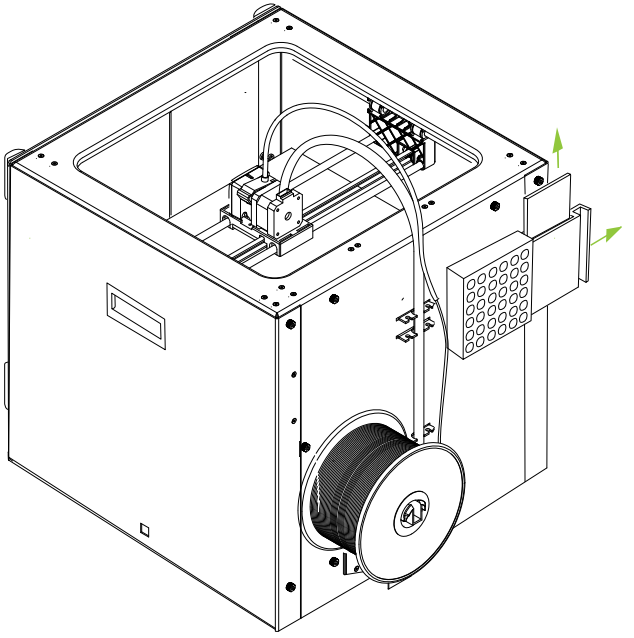
To cancel your print, press the left button to bring up a selection of actions, and select Cancel Print to stop the print completely.

For detailed information on how to operate the onboard computer of your ZYYX 3D Printer visit zyyx3dprinter.com/support to download the complete manual under Printer Firmware

IV.Maintenance

Replacing the ZYYX Fume FIlter

The ZYYX Fume Filter needs to be replaced in about every two months, based on printing 2-4 hours a day



To replace the filter simply pull out the filter cartridge from the backside of the printer and pull out the filter.

Cleaning the Build Plate

The build plate needs to be cleaned on a regular basis (after 2-4 prints) to make sure your models stay firmly on the plate while printing.

The best method is to gently sweep with a tissue soaked in Acteone(CH3COCH3), this will remove any grease and also refresh the special ZYYX print top layer making sure your prints stay on the plate.

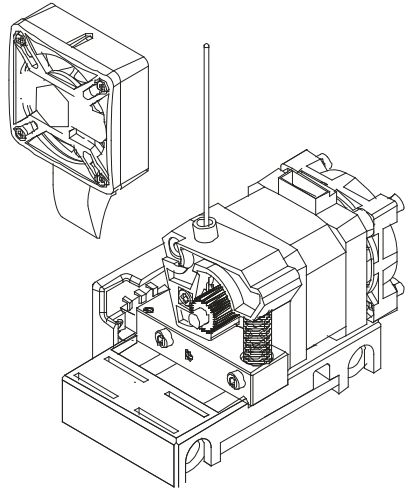
Cleaning the Print Head

At an interval of 2-4 weeks the print head should be cleaned. Pull the front fitted fan upwards to reach the feeder mechanism.

Unload the filament, and while letting the unload feeding continue brush off any residue plastic on the feeder wheel with a small brush or tooth pick.

Use compressed air to blow out any debrie from the mechanism.

Reattach the fan.



For further info and troubleshooting
look up the FAQ at:

http://www.zyyx3dprinter.com/support/#faq

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