

# Serial Object Printing

Friendly fore-word: If you are a newbie, **I tend to recommend to not play with this**. Be prepared that you have to re-level / re-adjust / repair your printer's mechanics, if you crash the print head / x-bar into a model. And most likely you will crash, because we're all a little scatterbrained at times, and a small mistake when setting up this type of printing will lead to a crash. Therefore, you should have a real reason to print serially.

## What it is

This prints every object on the build plate to it's end, and then the next... This can be useful in various situations:

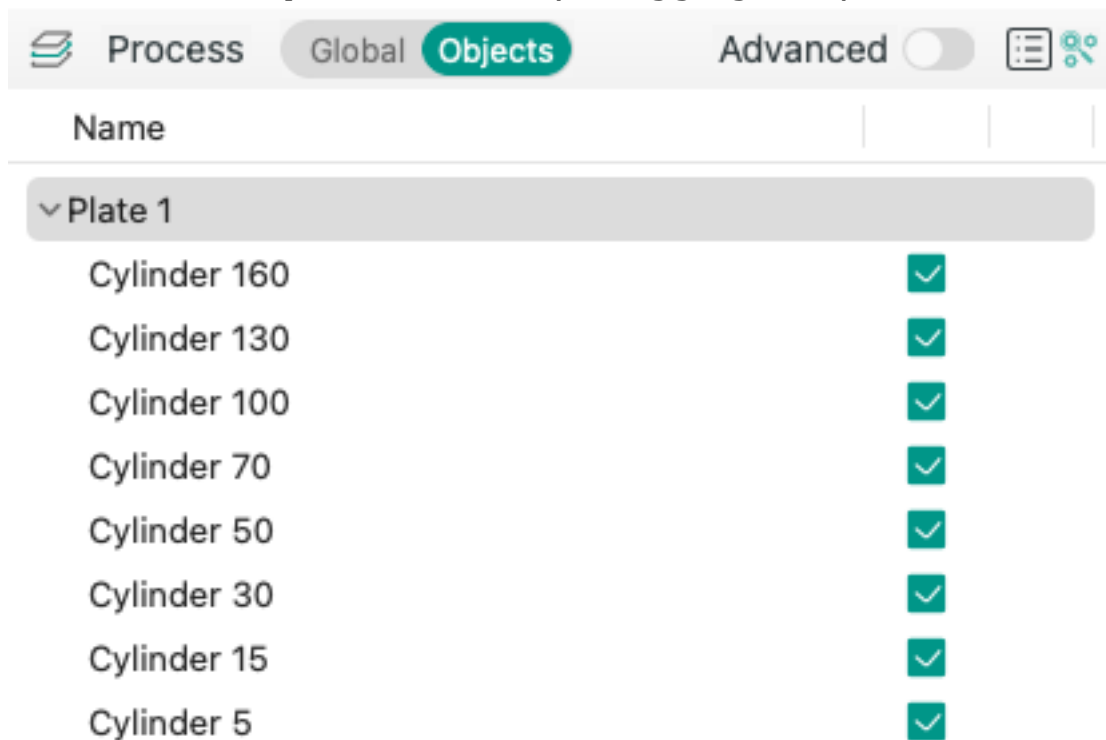
- You print multiple items, and if one fails, at least all the ones before are fine.
- You're unsure if there's enough filament on the spool left, and want to minimize the risk of losing everything, should something go wrong during the filament change (or if you already know you are not there to do the filament change).
- You need multiple prototypes of the same type, and want to test already one, without waiting for all.
- ...

## Enabling it

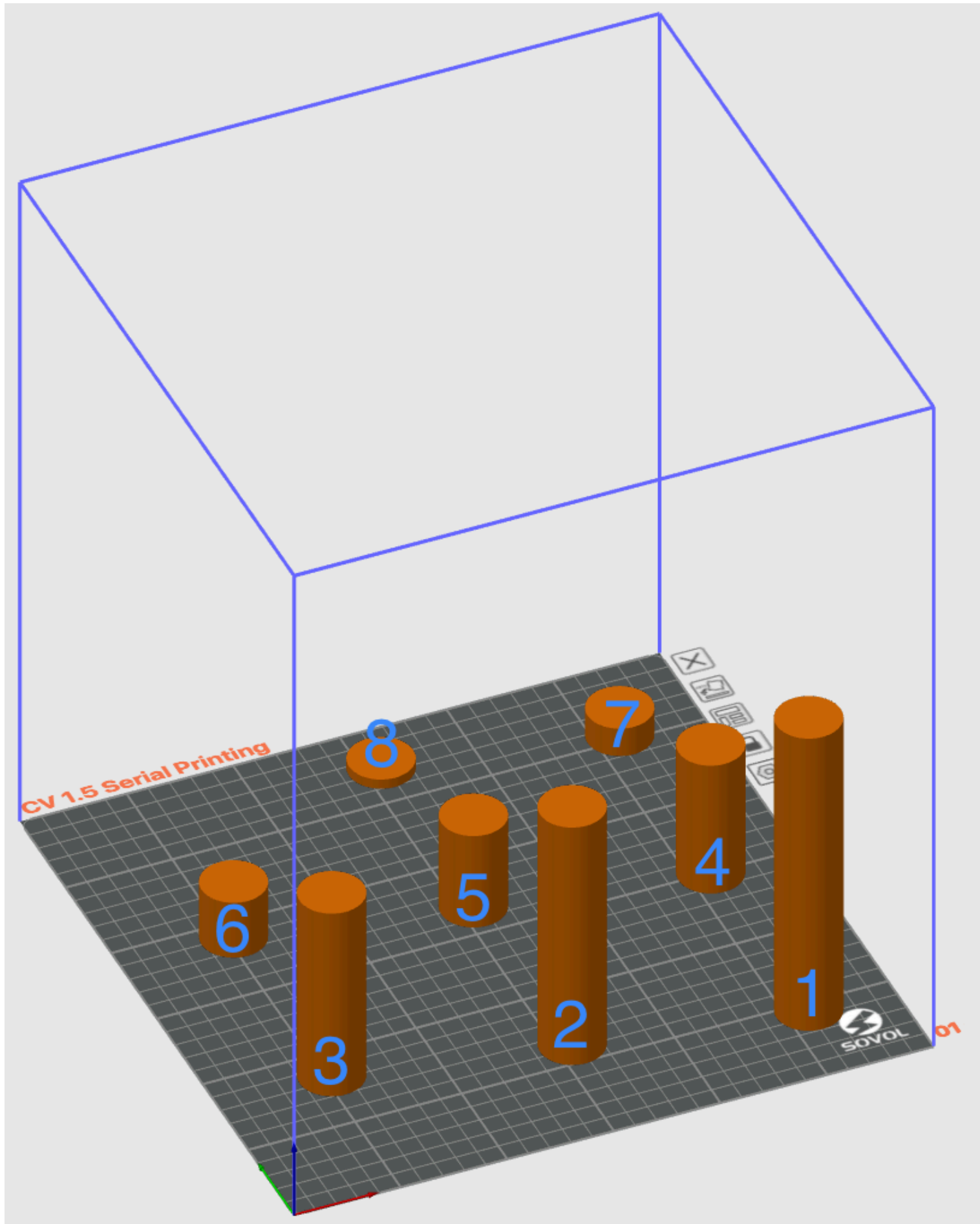
- In a **Process Preset**, under "**Others**" --> "**Special Mode**" --> "**Print sequence**":
  - "**By layer**" (that is the normal printing mode)
  - "**By object**" (is serial printing)

To **avoid collisions** with the head and the fan/x-bar

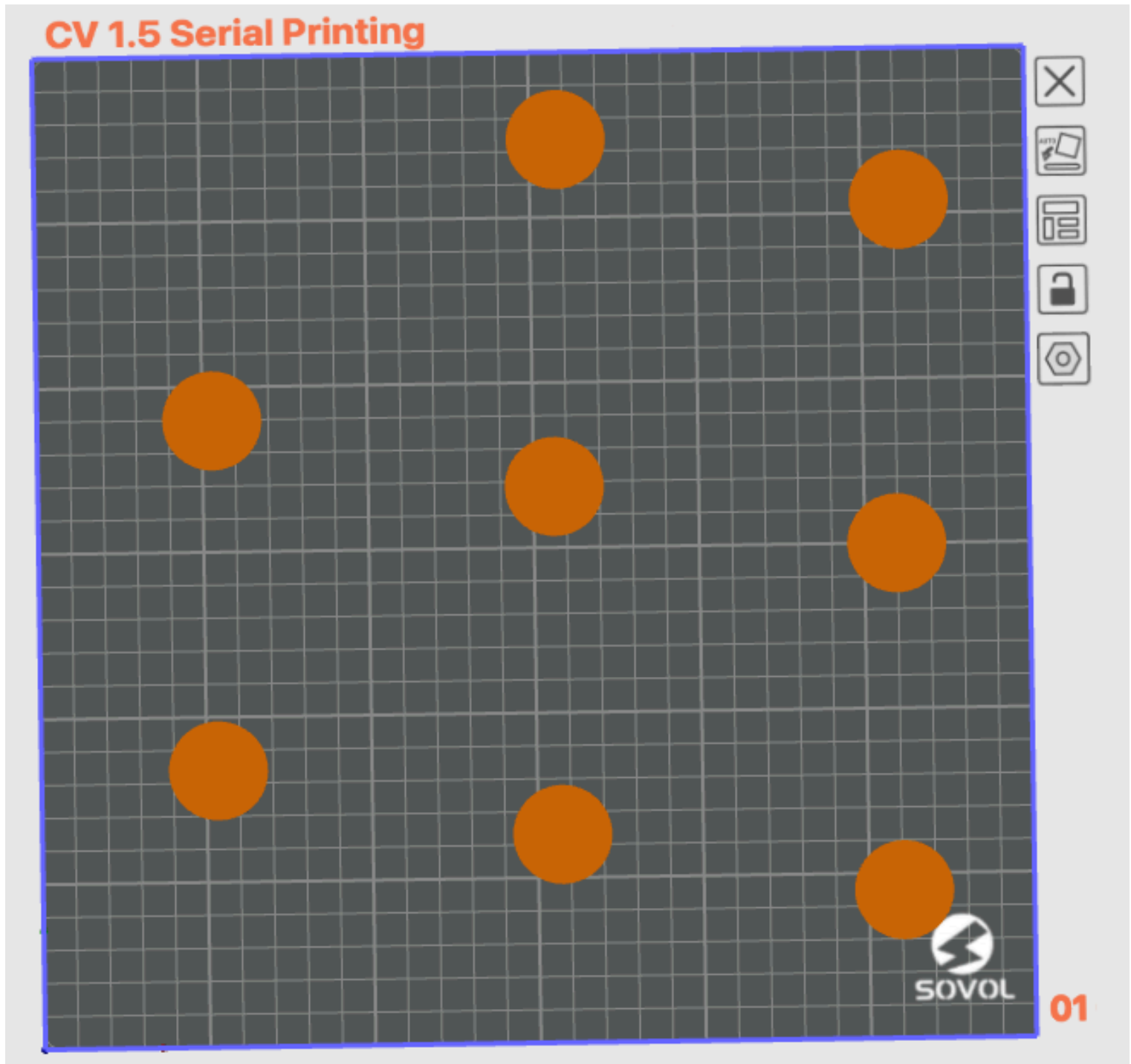
- Make sure the **print order** is from the front of the bed towards it's back, AND from the right to the left, per row:
- You **set the print-order** by dragging the parts in the object list up/down.



- Order the **tallest parts** to the positions of the **bed's right/front**, and the **lowest parts** towards the **bed's left/back**. Other wise you may crash on Cancel-Print, if you don't use the [Klipper Printer Additions](#).



- **Don't** put things **in parallel line**. Always imagine where the x-bar / auxiliary-fan-housing will be when the next objects are printed...  
Objects are allowed to overlap in Y-direction by about 10mm:



- **Before** you print, re-check everything, especially the **print-order**!
- If you crash, laugh. 😊

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Thank you, Christian 😊