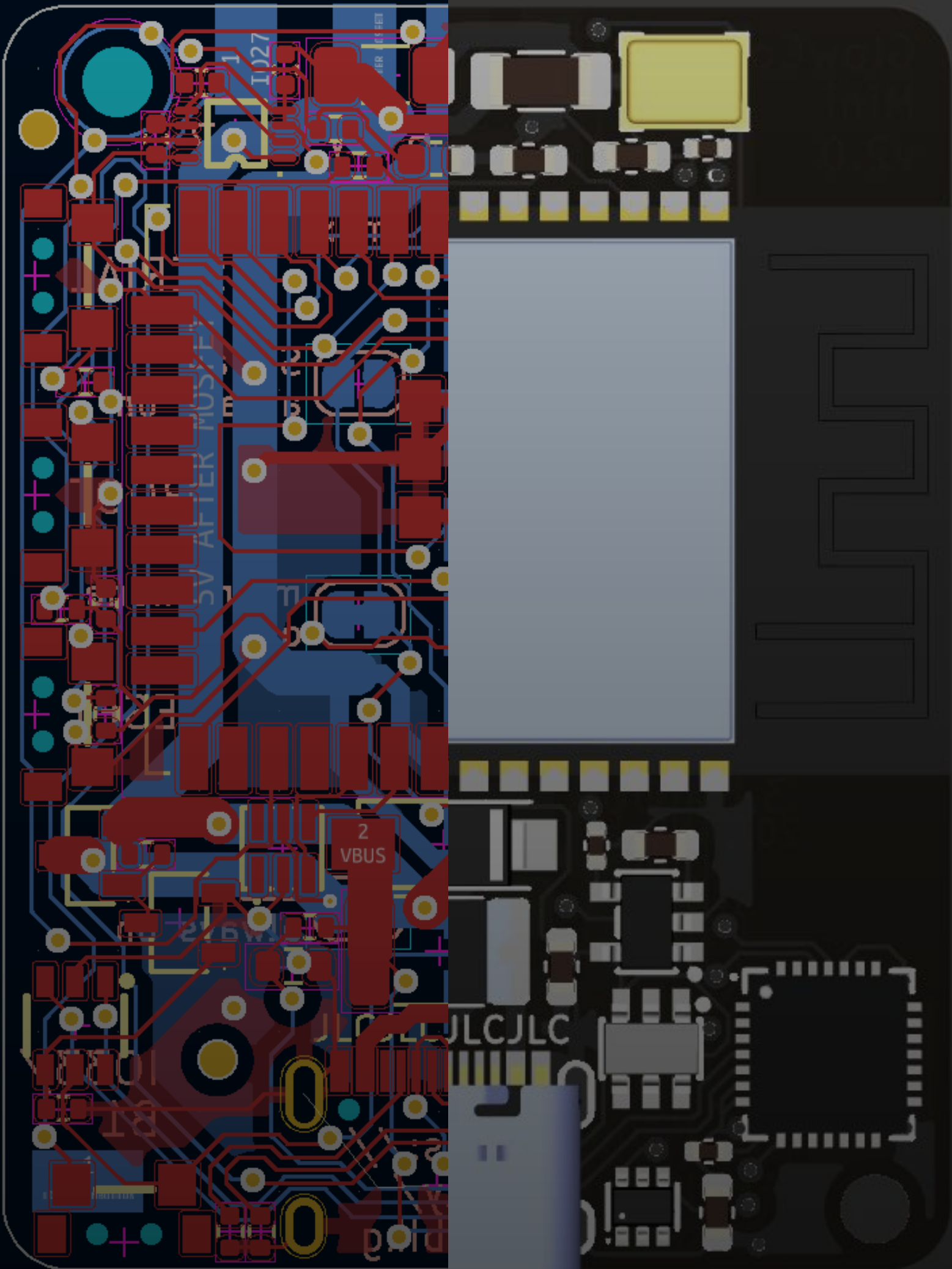
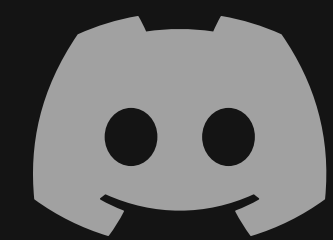


Learn PCB design with KiCad

Beginners workshop



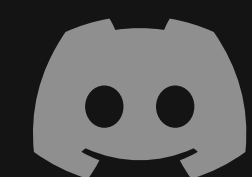
Join us on Discord



discord.glowingkitty.com

- share projects you are working on
- get help, inspiration & feedback
- meet other LED enthusiasts

What do we learn today?

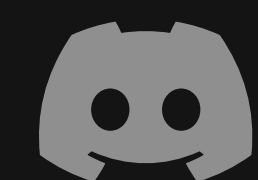


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- what is a PCB used for?
- why design your own PCB?
- is it difficult?
- (practise) how to design a super simple PCB?
- (practise) how to order a PCB online?
- (practise) how to design a more complex PCB?



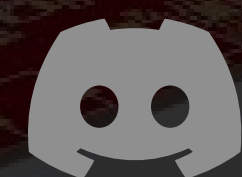
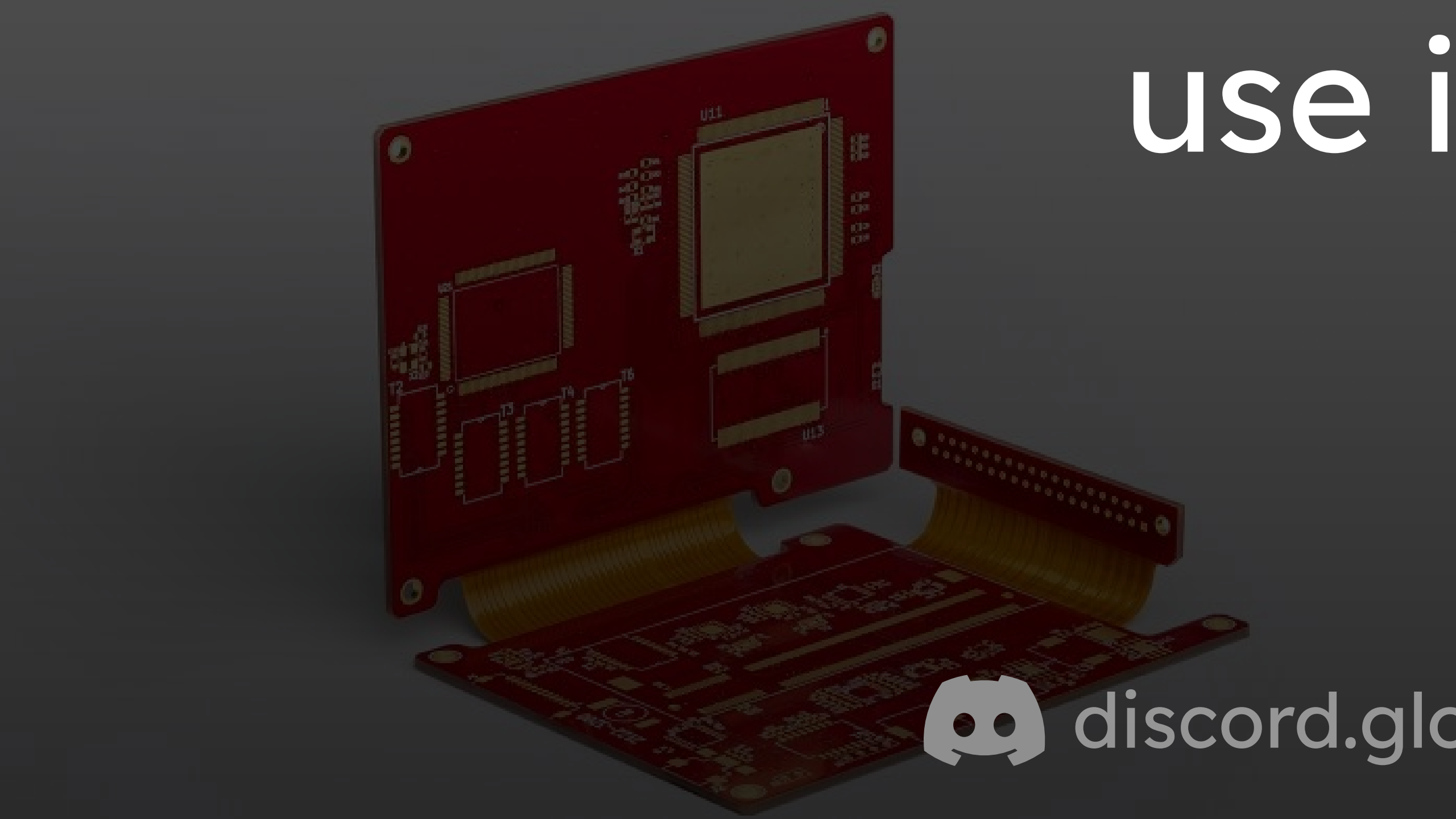
What is a PCB used for?



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Whatever you want to
use it for.



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Why design your own PCB?

WITHOUT custom PCBs:

- projects are limited in terms of their shape, materials & components you can use
- get easily frustrating to solder together
- more expensive



WITH custom PCBs:

- thousands of components to choose from
- design in whatever shape you like
- FR4, Aluminum, flexible PCB - your choice
- have fun by combining multiple PCBs,
materials and thicknesses
- possibilities are endless!



Is it difficult?

Simple PCBs:

simple to design

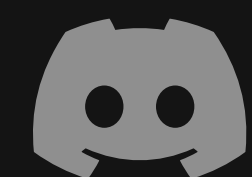
More complex PCB:

not as complicated as you think, thanks to
open source hardware + datasheets



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Let's build a super
simple PCB!



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Let's build a super simple PCB!

- **install KiCad: kicad.org/download**
- **visit pcb-workshop.glowingkitty.com & git clone repo (or download)**
- **visit kicad-parts.glowingkitty.com & git clone repo (or download)**

pcb-workshop.glowingkitty.com

Let's make a schematic

pcb-workshop.glowingkitty.com

Let's make a PCB layout

pcb-workshop.glowingkitty.com

3D preview

pcb-workshop.glowingkitty.com

Export (& useful plugins)

Ordering a PCB

pcb-workshop.glowingkitty.com

Let's make a more complex PCB!

pcb-workshop.glowingkitty.com

Thanks for coming!

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