

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?



- 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?





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

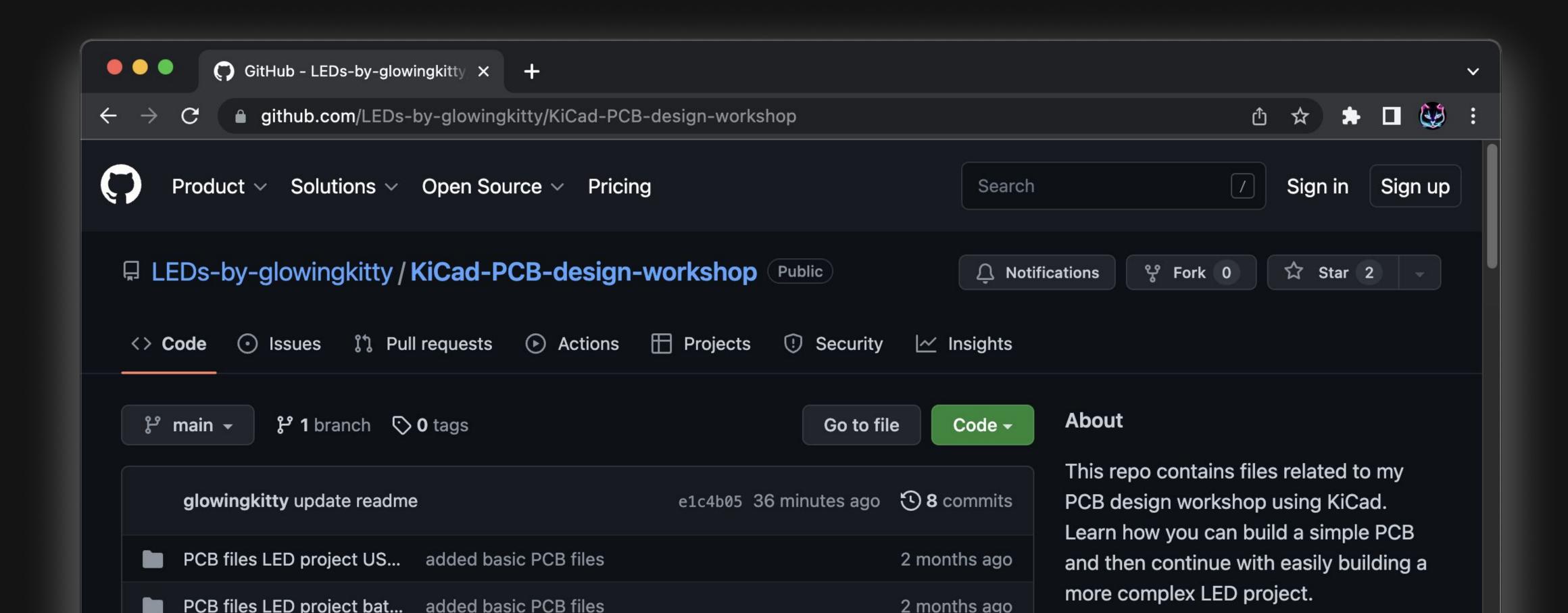
More complex PCB:

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

Let's build a super simple PCB!



Let's build a super simple PCB! Step 1: Download zip from: pcb-workshop.glowingkitty.com



Let's make a schematic

Let's make a PCB layout

3D preview

Export (& useful plugins)

Ordering a PCB

Let's make a more complex PCB!

Want to see the slides again?

slides.glowingkitty.com

Need some dev boards for LEDs?

glowingkitty.com

