

## The Pixel Pixie (DIY fairy LED grid)



Joshuas Oddities

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### Summary

I wanted a playful LED light for my home office and everything was so expensive! So I made this and it cost like \$10!



18.45 hrs



3 pcs



0.15 mm  
0.30 mm



0.40 mm



PLA



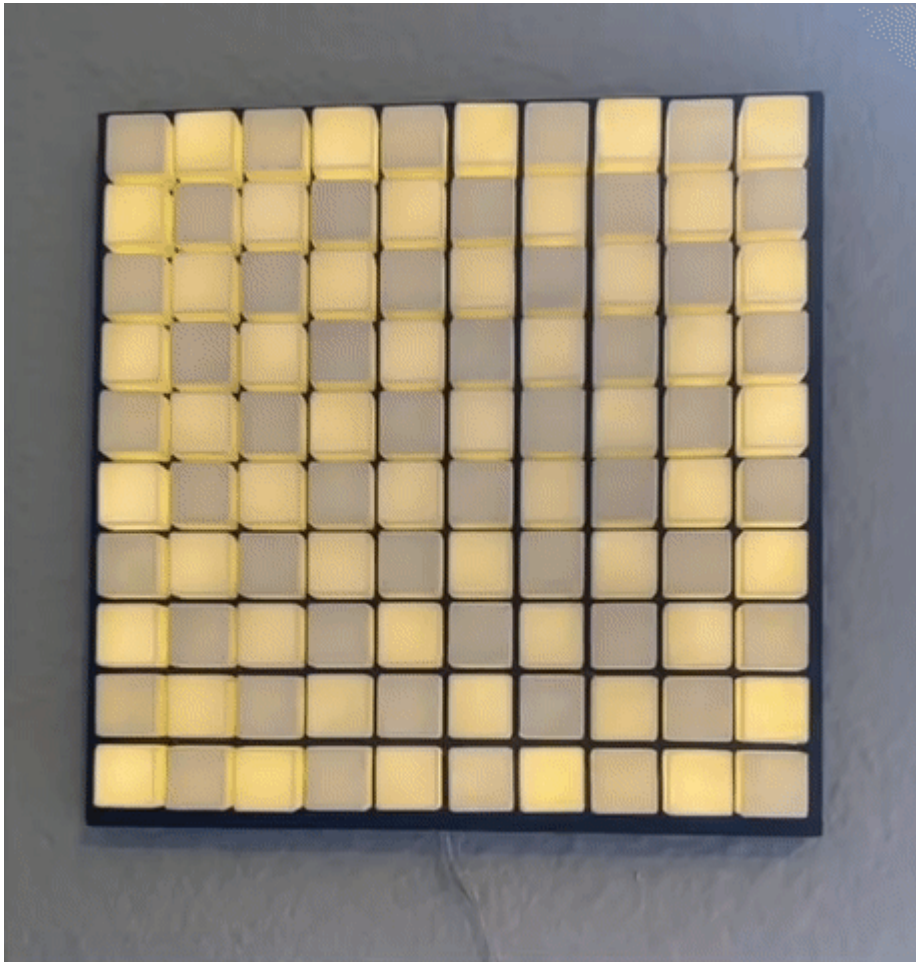
209 g



Prusa  
MK3/S/S+

[Household](#) > [Home Decor](#)

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[ledlights](#) [fairylights](#) [fairyled](#)



## Hi again!

I was shopping around and decided to make another thing instead of purchasing. This originally was made for the Neopixel but they weren't available so I used regular fairy LED lights.

The whole project can be done in a weekend and takes around 24 hours to print, 3 hours to assemble. I'm super curious to see what colors and combos you guys try!!

I have a great video on my TikTok @Joshuaisodd but Prusa won't let me link bc they hate me. :)

### You'll need:

- Fairy LED string (100 lights)
- Popsicle Stick
- Hot Glue gun

Notes:

I definitely recommend using ironing on the base and grate. With those, it doesn't matter on the layer height as much as the cubes. On the cubes,

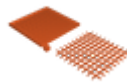
you want to do them at 150 microns layer height so that there is only 300 microns of plastic. Otherwise the light might look faded.

## Model files



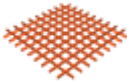
**pixel-cube.stl**

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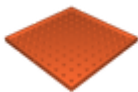
**pixel-pixie.3mf**

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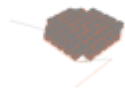
**pixel-pixie-grate.stl**

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**pixel-pixie-base.stl**

## Print files

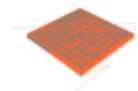


**pixel-cube\_015mm\_pla\_mk3s\_9h22m.gcode**

🌀 PLA 📏 0.40 mm ⚖️ 0.15 mm ⌚ 9.36 hrs ⚖️ 52 g 🖨️ Prusa MK3/S/S+

📋 You will want to print two of these. Each is 55x since you'll break some.

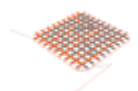
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**pixel-pixie-base\_03mm\_pla\_mk3s\_6h29m.gcode**

🌀 PLA 📏 0.40 mm ⚖️ 0.30 mm ⌚ 6.49 hrs ⚖️ 123 g 🖨️ Prusa MK3/S/S+

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**pixel-pixie-grate\_03mm\_pla\_mk3s\_2h36m.gcode**

🌀 PLA 📏 0.40 mm ⚖️ 0.30 mm ⌚ 2.60 hrs ⚖️ 35 g 🖨️ Prusa MK3/S/S+

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