



😄 Party fun "nerd" glasses with interchangeable lenses (choose your own pattern)



[VIEW IN BROWSER](#)

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Summary

Fun "nerd" glasses with interchangeable lenses, where you can pick your own infill pattern and percentage.



1.62 hrs



8 pcs



0.20 mm



0.40 mm



PLA
PET



16 g



Prusa
MK3/S/S+

[Fashion](#) > [Other Fashion Accessories](#)

Tags: [lens](#) [party](#) [fun](#) [glasses](#) [interchangeable](#)

Info:

- I remodelled original "nerd glasses" from [@Miguel](#) (thanks for the model!)
- the nose area is more comfortable

- temple hinges are robust, with usage of piece of 1.75 filament as a “screw”
 - **UPDATE:** i created also temples more angled, so it better holds behind the ears: [enhanced temples](#)
- **lenses are:**
 - **interchangable**
 - you can **print your own pattern using different infill pattern and percentage (see 3mf)**

Print instructions:

- **glasses body + temples:**
 - recommending **PETG** for flexibility (you know how many glasses you broke right?)
 - increased infill - like 50%
 - 3 perimeters
- **temples:**
 - test the length first to choose the right that fits your head
 - use mirror in slicer to print the other one to the pair (or use 3mf or gcode)
 - or use more angled temples: [enhanced temples](#)
- **lens patterns:**
 - **0 top and bottom layers**
 - see 3mf file
 - choose your infill pattern and infill percentage for different look
 - **PLA** can be used

Assembly:

- use short 1.75 filament piece and insert it into hinge
 - if filament is too loose, you can increase both ends sizes for example with putting something hot on to it, so it melts partially and creates larger heads
 - or glue one end to the hinge
- insert lenses
 - it should be little tight to insert (so glasses holds them nicely)

This remix is based on



Nerd Glasses

by Miguel

Model files



Glasses

4 files



nerd-glasses.stl



nerd-glasses.3mf



nerd-lens.stl

☐ only 1 lense (use copy and mirror to print the other one)



nerd-lenses.3mf

☐ both lenses - mirrored with example of infill patterns



Temples

12 files



temples-s-pair.3mf



temple-s.stl

☐ 12.2cm length



temples-m-pair.3mf



temple-m.stl

☐ 12.9cm length



temples-m-l-pair.3mf



temple-m-l.stl

☐ 13.5cm length



temples-l-pair.3mf



temple-l.stl

☐ 14.1cm length



temples-xl-pair.3mf



temple-xl.stl

☐ 14.7cm length



temples-xxl-pair.3mf



temple-xxl.stl

📏 15.2cm length

Print files



Glasses

2 files



nerd-glasses_02mm_petg_mk3s_45m.gcode

🌀 PET 📏 0.40 mm 📏 0.20 mm ⌚ 0.74 hrs 📊 7 g 🖨 Prusa MK3/S/S+



lenses-sample-_02mm_pla_mk3s_19m.gcode

🌀 PLA 📏 0.40 mm 📏 0.20 mm ⌚ 0.32 hrs 📊 3 g 🖨 Prusa MK3/S/S+

📄 Infill sample with honeycomb and aligned rectilinear



Temples

6 files



temples-s_02mm_petg_mk3s_30m.gcode

🌀 PET 📏 0.40 mm 📏 0.20 mm ⌚ 0.50 hrs 📊 5 g 🖨 Prusa MK3/S/S+



temples-m_02mm_petg_mk3s_31m.gcode

🌀 PET 📏 0.40 mm 📏 0.20 mm ⌚ 0.52 hrs 📊 5 g 🖨 Prusa MK3/S/S+



temples-m-l_02mm_petg_mk3s_33m.gcode

🌀 PET 📏 0.40 mm 📏 0.20 mm ⌚ 0.54 hrs 📊 6 g 🖨 Prusa MK3/S/S+



temples-l_02mm_petg_mk3s_34m.gcode

⚙ PET ⚙ 0.40 mm ⚙ 0.20 mm ⌚ 0.56 hrs ⚖ 6 g 🖨 Prusa MK3/S/S+



temples-xl_02mm_petg_mk3s_35m.gcode

⚙ PET ⚙ 0.40 mm ⚙ 0.20 mm ⌚ 0.58 hrs ⚖ 6 g 🖨 Prusa MK3/S/S+



temples-xxl_02mm_petg_mk3s_36m.gcode

⚙ PET ⚙ 0.40 mm ⚙ 0.20 mm ⌚ 0.60 hrs ⚖ 6 g 🖨 Prusa MK3/S/S+

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