



## Party fun glasses "smart-ass" with interchangeable lenses (choose your own pattern)



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### Summary

Another my model of glasses with interchangeable lenses, where you can pick your own infill pattern and %.



1.53 hrs



4 pcs



0.20 mm



0.40 mm



PLA  
PET



17 g



Prusa  
MK3/S/S+

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

#### Info:

- another model of glasses with interchangeable lens with different patterns
- 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)**
  - **YOU CAN USE OTHER PLUGIN LENSES WITH THESE GLASSES - SEE REMIXES OF THIS MODEL**

#### Print instructions:

- **glasses body + temples:**
  - recommending **PETG** for flexibility (you know how many glasses you broke right?)
  - increased infill - like 50%
  - 3 perimeters
- **temples:**
  - **download temples** of your size please from <https://www.printables.com/model/205857-fun-nerd-glasses-with-interchangable-lenses-choose/files>
    - or enhanced temples (better hooking ears) from here: [enhanced 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
- **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



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

by

## Model files



**smartass-glasses.3mf**



**smartass-glasses.stl**



**smartass-glasses-lens.stl**

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



**smartass-glasses-lenses.3mf**

☐ both lenses - mirrored with example of infill patterns

## Print files



**Temples**

1 file



**temples-l\_02mm\_petg\_mk3s\_34m.gcode**

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

☐ Download other sizes of temples from linked model!



## Glasses

3 files



### smartass-glasses\_02mm\_petg\_mk3s\_46m.gcode

🌀 PET 📏 0.40 mm 📏 0.20 mm ⌚ 0.77 hrs 📊 7 g 🖨 Prusa MK3/S/S+



### smartass-glasses-lenses\_02mm\_pla\_mk3s\_14m.gcode

🌀 PLA 📏 0.40 mm 📏 0.20 mm ⌚ 0.23 hrs 📊 2 g 🖨 Prusa MK3/S/S+

📐 gyroid + 3d honeycomb



### smartass-glasses-lenses\_02mm\_pla\_mk3s\_12m.gcode

🌀 PLA 📏 0.40 mm 📏 0.20 mm ⌚ 0.20 hrs 📊 4 g 🖨 Prusa MK3/S/S+

📐 aligned rectilinear + triangles

[Find source .stl files on Thingiverse.com](#)

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