The files in this folder offer templates for 3D printing pieces for use on Tilescape. Each template is offered as a .dxf and .sldprt (SolidWorks part). All parts can be printed with standard PLA filament. We recommend the use of filament with a matte finish.

The figure on the right shows the template files and how they are stacked on Tilescape. The 3_top_piece is 3D printed in two parts for efficiency purposes as it eliminates the need for printing supports. The two components self-align from their shapes and can be glued together with super glue.

3_top_piece_extension_template is printed fully in black. All other parts are printed with black filament and the bottom (from the right assembly perspective, the 1 and 2 pieces are printed upside down) and switching to white at a set layer, which can be self-determined as long as colors underneath do not shine through.

The 3_top_piece_template can be modified to include 2D icons or 3D shapes to represent meanings. 3D shapes can be freely designed. We recommend creating 2D icons by making cut-out shapes in the white top surface up to the black layer underneath to create a contrast. Using stickers is an alternative, but may add reflections to the top-down projections.

3_top_piece_template

Glued together

3_top_piece_extension_template

2_additional_elevation_template

1_base_elevation_template