

Here's an example of a filling surface for a "cube knot" realization of the Figure 8 knot. This filling was found and rendered by a program I wrote in Mathematica (building on [work of Baldridge and McCarty](#)) which adapts Seifert's algorithm to cube knots. While Seifert's algorithm works for generic knot projections, the useful rigidity of cube knots can obstruct the existence of some specific cube fillings. However after some number of stabilization moves every knot does admit some cube realization which is cube fillable, as shown here:

