

Techniques for Designing Modular Mandalas

A starting point for a discussion
CfC3 - Bogotá, Colombia 2023



Basic Considerations

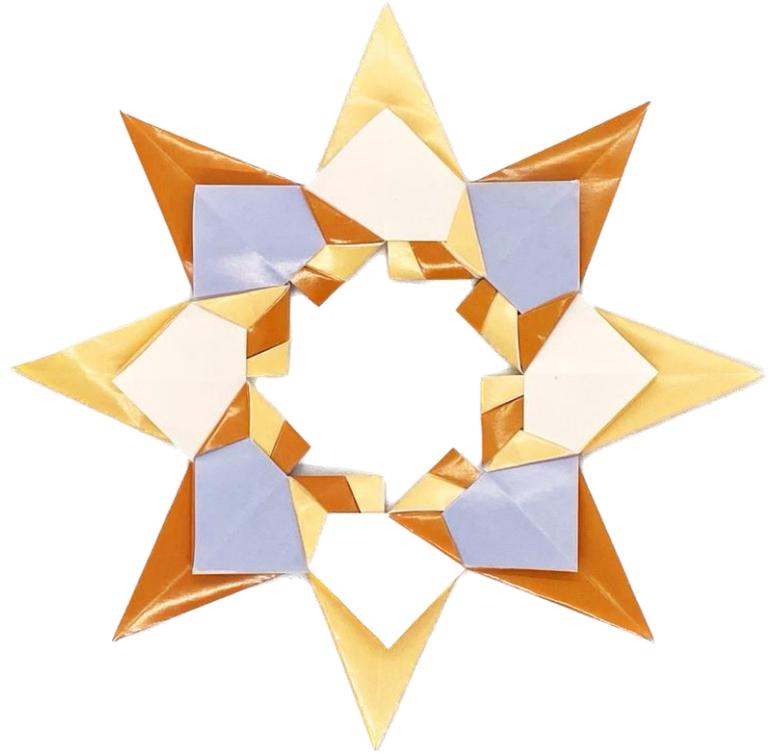
1. Level of complexity

- ❑ Since modular models require many units, they're generally kept fairly simple.
- ❑ The level of complexity you choose depends on both your personal folding preference and on the people who hope will fold your models.
- ❑ Your choice of base already sets a baseline of complexity for the model.



2. Base

- ❑ Traditional bases: kite base, waterbomb base, bird base... (It is perhaps easier with modulars than with other kinds of models to reproduce someone else's work accidentally, though)
- ❑ Original bases: harder to come up with, but more likely to actually be original (still no guarantee)



3. Angle of connection

- ❑ Determined by the jointing parts and/or the base used
- ❑ Determines the number of units to make a flat model



4. Joining method

- ❑ Tab and pocket
- ❑ Folding/curling layers together
- ❑ The joining parts can also be decorative
- ❑ Some creators simply use glue. I don't.



5. Decorative elementes

- ❑ Overlapping layers
- ❑ Layers that cross units
- ❑ Color change
- ❑ 3D elements
- ❑ Pleats/frills
- ❑ Motifs from traditional origami
- ❑ Play with symmetry and asymmetry
- ❑ etc.



6. Interaction of units

- ❑ Sometimes a lock works with two units but not with three (or vice versa)
- ❑ You can't know what a model will really look like until you put at least 2, 3, or more together (depending on the model)
- ❑ You can mix and match compatible units



My Design Technique

1. Pick or design a base

- ❑ Most of my models are made from just a few bases.
- ❑ I almost always use an existing base, either one of my own or a traditional base.
- ❑ If it's a traditional base, my first goal is determine what lock to use, either a familiar one or a new one (mostly experimentation).
- ❑ If designing a base, I start with the angle, then a strong lock. The extra paper for decoration is mostly a consequence. Sometimes I plan ahead with pencil and paper.
- ❑ **This is the most difficult step for me, and where I have most curiosity about what others do.**

2. Work on the more decorative part

- ❑ New models are mostly the result of experimentation, usually trying to apply some specific technique, or achieve a specific decorative goal, etc
- ❑ A great tip from Ilan Garibi: identify elements, techniques, or styles I've used with other bases or models, and apply the same ones to new bases

