

Test-Scenario: Coral

The goal of this assignment is to model a simple organic structure, a coral. The final result should look like the target model shown in Figure 1. You have a maximum of 30 minutes for the completion of this task, which consists of the following three subtasks:

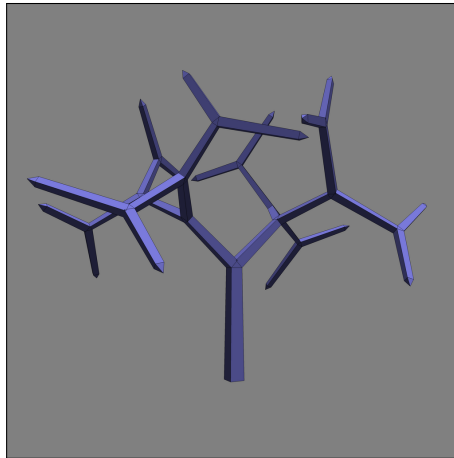


Figure 1: *Final result of the coral model.*

Modeling the ramification

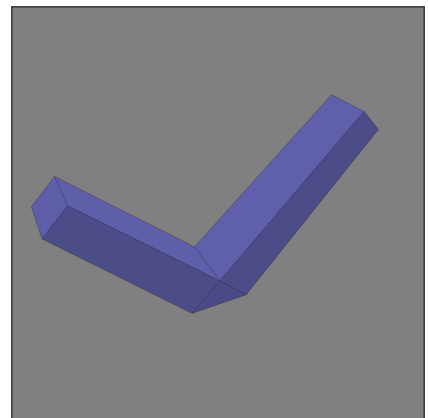
A ramification is composed of a base wedge, which has two branches attached to its slanted sides (see Figure 2). For a more natural look the parameters that influence the overall appearance (branch length, branching angle) can be randomized. The relevant settings can be edited in the property editor, located in the right sidebar.



(a) *View from below*



(b) *Frontal view*



(c) *View from above*

Figure 2: *Different views of the basic ramification.*

Repeat the construction rule

After the construction rule is finished, introduce additional complexity by repeating the ramification process four times.

Finalize the model

To finalize the model create a stem that supports the whole structure and terminate all branches with a tip (i.e. pyramid).