

# FrAid Design

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NOTICE: ""

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**Note:**

Parts of the following diagrams are somewhat outdated but the ideas behind the components and sequences remain the same.

## 1. Introduction

If you care to understand how FrAid works this page might be of interest to you

## 2. FrAid Class Diagram

The relationships between the major FrAid components are shown here:  
The different colors denote different packages. Every time a FrAid graphics is generated a structure like this stays in memory and handles all the behaviors, interactions, etc. The non-graphical functions require only the bottom portion. Only two instances of algorithms (with only JuliaPlugIn) are shown - JuliaThread and IterFractThread representing the two major cases FunctionPlot(s) and TransformPlot(s).

## 3. FrAid Function Execution Sequence Diagram

The following diagram represents the typical sequence of execution of a FrAid function (a graphical function is shown and where the non-graphical functions reach is pointed):  
Some steps represent logical rather than actual method calls.

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