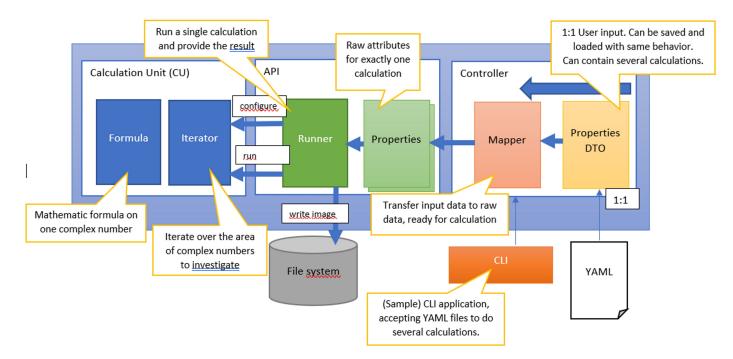
Freitag, 30. April 2021 15:04



### Calculation Unit

• Combines alle elements, used to do the mathematic calculation

#### **Formula**

• Calculation for one complex number

### **Iterator**

• Iterates over the image area

### API

• Calculation can be accessed by the elements in the API

### Runner

- Configures the Calculation Unit
- Starts the calculations
- Writes the image to the file system
- Can either do a single calculation or a numer of calculations in a batch

### **Properties**

- The raw model of the parameters, used to calculate, to define the dimensions of the image and more
- Does always contain all attributes, needed.
- Describes always exactly one calculation.
- In case of a batch, a list of Properties is needed.

### Controller

• Combines all elements, used to start the calculation

# **PropertiesDTO**

- A 1:1 model of the configuration
- Not necassarily type safe, due to the need of interpreting the input.
- Can contain several calculations to be done.
- Must than be translated in a list of Properties

# Mapper

• Translates the input from PropertiesDTO to Properties

# CLI

• CLI (Demo) aaplication to run a Mandelbrot set calculation