

# Examples

For the final projects

# Intro

In general, the project examples are targeted for Java projects, but most of them can also be implemented in other languages as well.

# Smart Mirror



Source: <https://bit.ly/3cqSVFH>

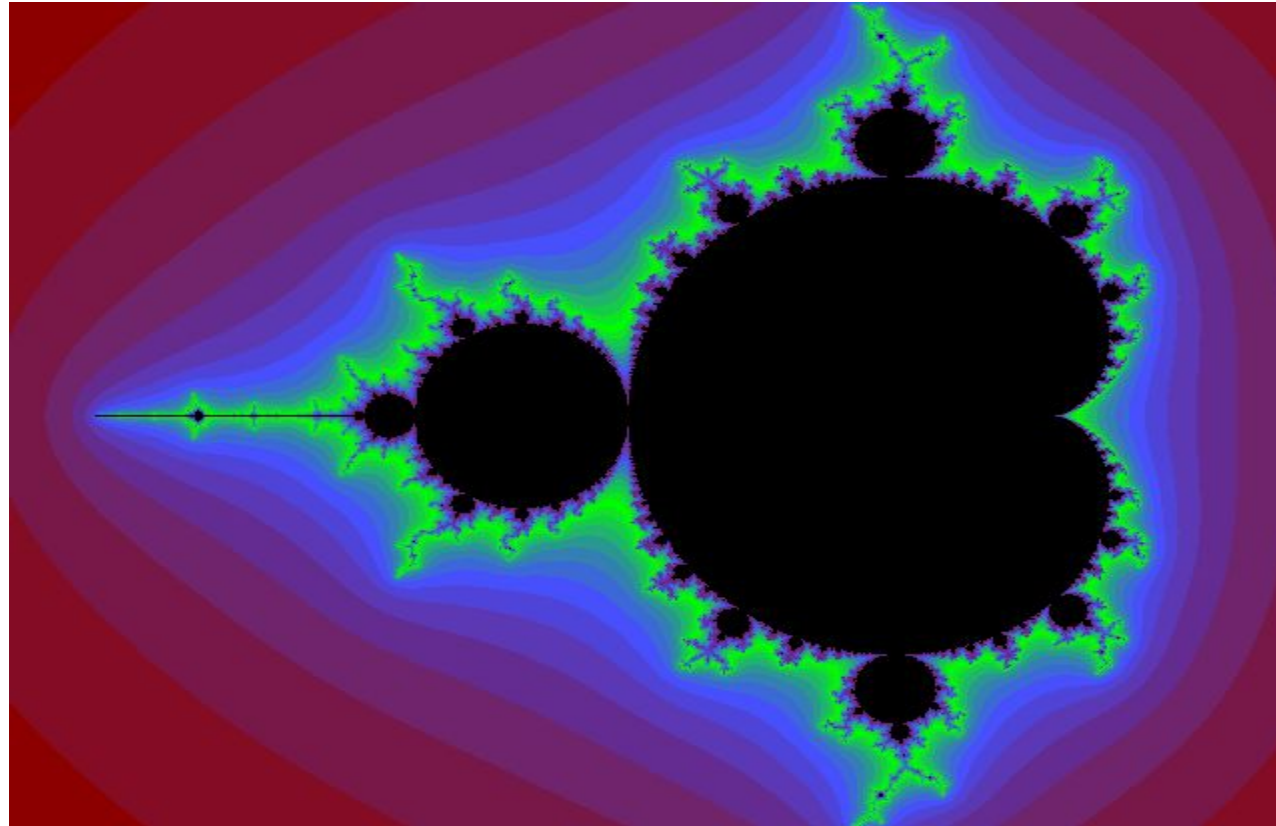
# Image Editor

- Implement an image editor based on image editing libraries
- [ImageJ](#)

# Video Editor

- Implement a video editor based on video editing libraries
- Could be terminal based
- [FFmpeg](#)

# Mandelbrot/Julia Set Visualizer



Source: <https://bit.ly/2YyhzMh>

# Sorting Algorithm Visualizer

- Develop a tool to show how different sorting algorithms work
- [Example video](#)

# Home Automation Control for Smart Homes/Codersbay

- Control your Arduino Smart Home
- You have some Arduinos in your LAN, and you control them with a GUI
- Window and room management for the new Codersbay



# RESTful Web API

- Implement a Java Enterprise REST API, preferably with [Eclipse Glassfish](#) or [Eclipse Jetty](#)
- Possible team project with Web

# Intelligent Multimedia Analysis

- Build something cool with [OpenIMAJ](#)
- Video, Twitter, music, image processing is possible

# A Game

- A classic 2D game like space invaders
- A part implementation of a 3D game

# Contribute to an Open-Source Project

- Help developing an open-source project. Fix bugs or implement some new features.
- [Trending Java projects on GitHub](#)

# Write a Plugin

- For IntelliJ
- Eclipse; rainbow brackets would be very nice
- Minecraft

# Scanner

- Network scanner
  - something like [Advanced IP Scanner](#)
- Vulnerability scanner, build with some third-party software
  - [tsunami from Google](#)

# Something Else?

- I am always open to your ideas and even prefer them
- Only requirement is the usage of the JVM for the main part of the project
  - Mixing programming languages is possible
  - You can also use Kotlin, Scala etc. if you prefer them