

FilterStudio Design Document

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1 Overview

The following document covers overall design and features of FilterStudio application.

FilterStudio is a tool that allows users to design and test image filters. Users can design individual filters and also combine different filters together.

1.1 Features

- **Filter Design** - Capability to construct basic matrix filters, user can specify how big filter is and what values are used in it.
- **Filter Project View** - Capability to join different filters together, and manage multiple filters as a one project.
- **Filter and Filter Project Saving** - Capability to save filter and filter groups to file (preferably JSON)
- **Live Image View** - Capability to load any image to the application that will allow users to see how filter or filter group work on certain image. Any change to filter or filter group will refresh Live Image View to show reflected changes.
- **Image Saving** - Capability to save changed images