There are many systems for processing audiovisual data. These systems tend to be composed of components, which can be configured in many different ways, thus creating vast configuration space of the systems. In order to find an optimal configuration across many components, automatic configuration space exploration is required. However there are no such existing tools which would suit our requirements.

In this thesis we propose a component model and domain specific language designed to allow for automatic configuration space exploration. Additionally we integrate this language and additional tooling into a browser-based environment.