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**ABR Algorithms with Dash.js**

**Introduction:**

This is an exploration of available ABR algorithms that are currently out in the world. As the backbone, two formats are used for file encoding, DASH and HLS. We will be exploring both in the upcoming experiments. The tool that will help accomplish this task is Dash.js, an open-source project for playing videos on the web encoded with DASH/HLS. Besides allowing various implementations of existing ABR solutions, it allows for some customization as well which will hopefully be the very final task accomplished in this experiment.

**Implementation:**

The current setup is very simple but working. Using python’s very simple built-in web-server, a single page is hosted along with the content to be viewed. Behind the scenes, there is currently only a simple script that uses ffmpeg to convert an input mp4 video file into the segmented DASH format (valid settings pending). These segments go into a content folder within the server directory. The server can be started with “python -m http.server <port>” and the current sample converted video can be viewed there.

**More to come**

**Playing around with ffmpeg conversion to see effects on streaming quality/speed**

**Implementation of Dash.js ABR algorithms**

**Implementation of Custom ABR algorithms**