

Pre-meeting

- Looked at some more potential application areas, will want to set out a plan of action soon and take a look at only 1 or 2 to start with. Believe Steuwer said last meeting this would be more than enough for a decent project.
- Candidates I looked at:
 - Image upscaling (Nearest neighbour and Bi-cubic (Bi-linear if too hard) interpolation in particular) for upscaling images - can then compare the process for both.
 - Vectorisation (for upscaling) of Binary black-white images. See: (https://wordsandbuttons.online/simple_image_vectorization.html), although algorithm for this may be too complicated.
 - Kirsch edge detection from last week. (Just a form of stenciling which has already been looked at in detail by lift team?)
- Should I begin trying to write an optimised OpenCL program for these applications? (so i can evaluate programmability) for one particular architecture?(so i can evaluate performance portability)

In-meeting

- Halide - Local laplacian filters -> look at the individual steps which are quite simple and try to implement this in lift.
- Try to implement nearest neighbour upscaling in lift.
- Look at the code that is generated by lift for my implementation.
- Create branch for doing this.
- Binomial filter as well.