

Before the meeting

- Looked at rewriting Steuwer's version of the upscaling using the generate function to instead use padClamp.
- Turned out quite hard, but i think it's because i've not really got to grips with how to properly think about writing in Lift / thinking functionally
- No working code coming into meeting, fails at typechecking level.
- If we have a function that creates a 1x1 matrix with a given value then easy enough to map padClamp twice on the elements of the image.

Questions:

- What are the different maps for? I understand mapSeq is what generates the for loops in C code, but what do map, mapPar do?
- What are the value of the elements of the array that get added by padClamp

During the meeting

- Sera goes first, has bought an FPGA and brought it in
- Xueying goes,
- Use of '@' notation to access elements of an array
- New "array" function on the development branch, array(n) is a function that takes n arguments (can be curried) and returns an array of size n with supplied values.
- Steuwer used it as the function discussed before the meeting to finish the simple upscale in lift, but there appears to be problems with the implementation of the function.

Next steps:

- Understand 'base' rewrite strategy in test/scala/apps/separableConvolution2D and the check one. Will require a lot of ctrl+clicking through methods
- idS is a strategy - rewrite rule
- Draw diagram(s) from base up to scanline version