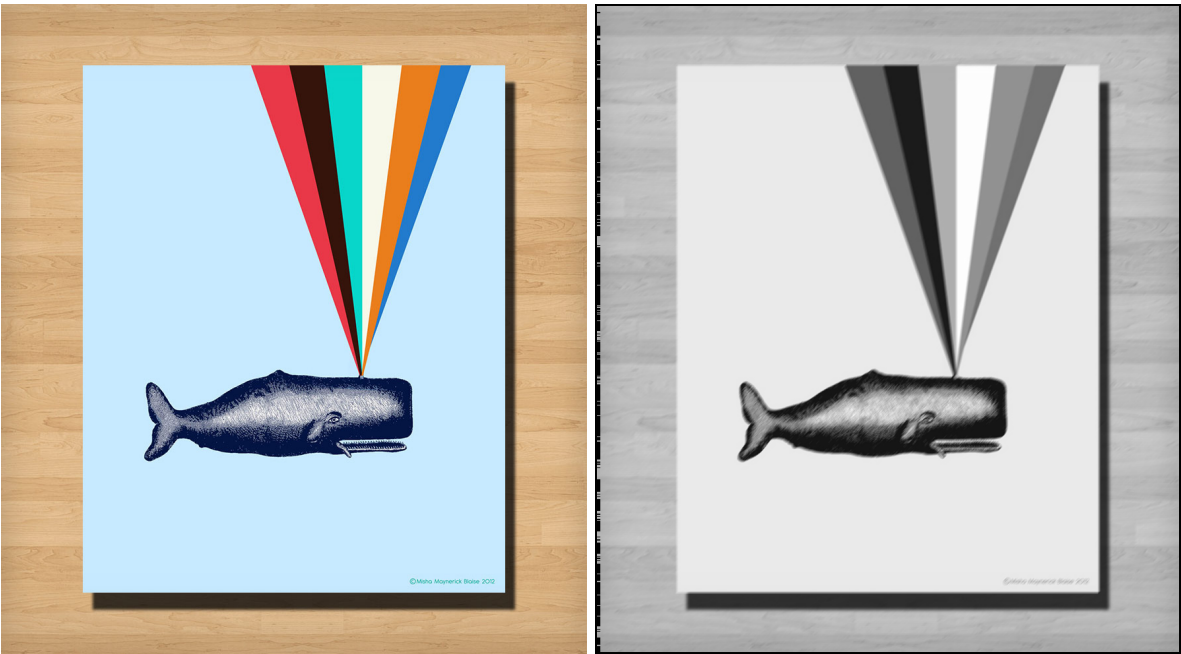


# HPC-Homework 5: Image convolution with OpenCL

Ya Zhu

1



(a) original photo
(b) blurred 100 times

Figure 1: Result of blurring the same image at each iteration.

Table 1: Statistics of different devices with different work group sizes.

	16, 16			8, 8		
Device	MPixels/s	GBit/s	GFlop/s	MPixels/s	GBit/s	GFlop/s
MacPro	317.188093	2.537505	15.442580	278.375138	2.227001	13.552937
cuda3	212.853350	1.702827	10.362952	189.331240	1.514650	9.217757

2



(a) original photo



(b) blurred 100 times



(c) blurred 1000 times



(d) blurred 10000 times

Figure 2: Result of blurring the  $k - 1$ th output image at  $k$ th iteration.