Interesting results

Optimize for acceleration

GPU info

```
+------------------------------------------------------+
| NVIDIA-SMI 361.42      Driver Version: 361.42        |
|-------------------------------+----------------------+
| GPU  Name            Persistence-M| Bus-Id        Disp.A |
| Fan  Temp  Perf  Pwr:Usage/Cap|         Memory-Usage |
|===============================+======================+
|   0  GeForce GTX 950      Off | 0000:01:00.0      On |
| 33%   40C    P8      8W /  90W |     482MiB /  2044MiB |
+-------------------------------+----------------------+
```

Executed time via basic method

These are the GPU run time 10 times.

```
 1st time: 1113771us
 2nd time: 1113888us
 3rd time: 1113197us
 4th time: 1113896us
 5th time: 1113891us
 6th time: 1113780us
 7th time: 1113824us
 8th time: 1113931us
 9th time: 1115095us
10th time: 1115653us
```

Average time: *1.1140926 seconds*

Using lower resolution

- Code in `lab3_accelerate_a.cu` file.

I used the method from TA in problem 1. I upsample the `{diffX,
diffY} = {0, 1}` , `{1, 0}` , `{0, -1}` and `{-1, 0}` . There are the
nearest point from center. Then, I replace the points like a triangle,
there are `{0, 2}` , `{1, -1}` and `{-1, -1}` . Because centroid point
of three points is center point **G(0, 0, 0)**, is the same with basic
method (4 points).

Finally, I got a better result below. From 20,000 iterations to becomes
6,000 iterations to converge, and the images are very similar via
watching by eyes.

```
 1st time: 292607us
 2nd time: 288680us
 3rd time: 288771us
 4th time: 289976us
 5th time: 289635us
 6th time: 288571us
 7th time: 289866us
 8th time: 289869us
 9th time: 288590us
10th time: 290020us
```

Average time: *0.2896585 seconds*

Using SOR method

- Code in `lab3_accelerate_b.cu` file.

Finally, I got a better result below. From 20,000 iterations to becomes **10,000 iterations** to converge, and the images are very similar via watching by eyes.

When `w = 1.35` :

```
 1st time: 628234us
 2nd time: 628267us
 3rd time: 628037us
 4th time: 628185us
 5th time: 628117us
 6th time: 627981us
 7th time: 628320us
 8th time: 628162us
 9th time: 627972us
10th time: 628328us
```

Average time: *0.6281603 seconds*