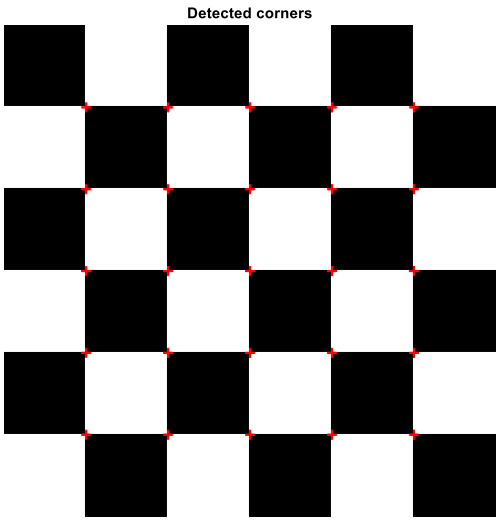
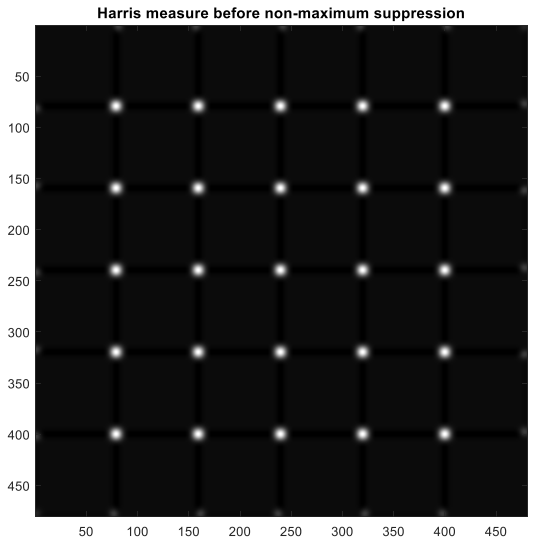
Exercise 2.1

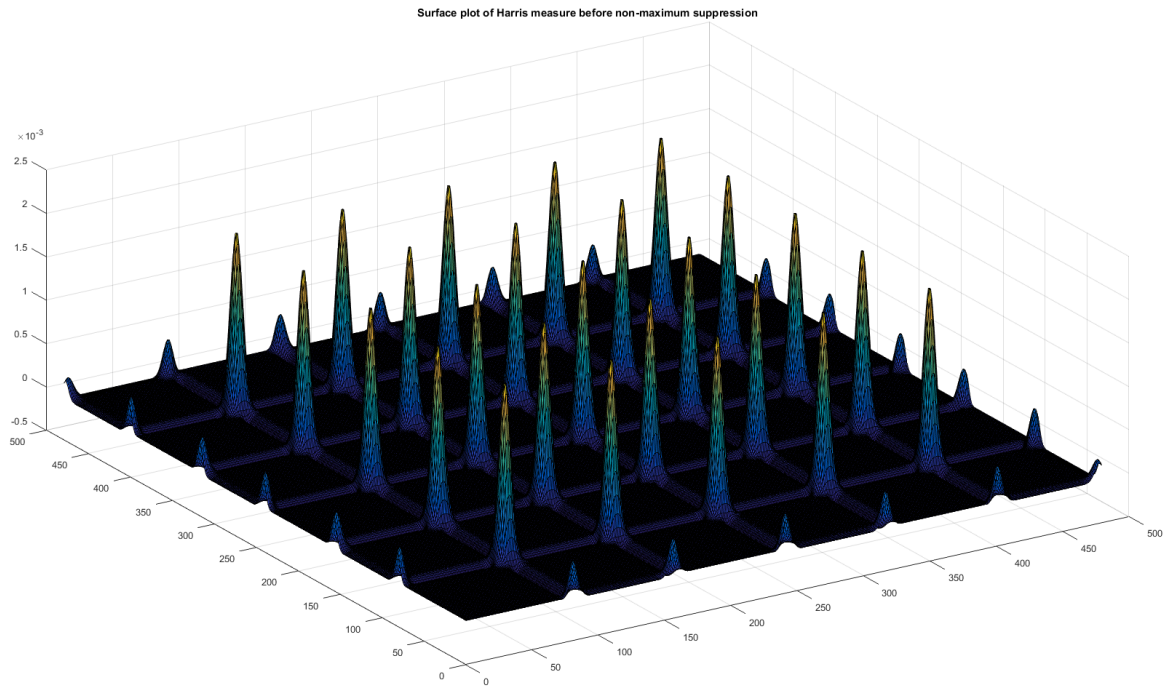
Checkboard with `checkerboard(80,3,3)`

```
Sigma=1
KernelSize=7
nonmaxsuppts(HarrisMeasureImg, 1, 50);
```





If you take a close look at the corners, you'll see that there more than one corner. This is due to the nonmaxsuppts(): within a distance of 2*radius all pixel with the same value will be marked as corners. Matlab's Harris corner detector is a bit more smart ☺.

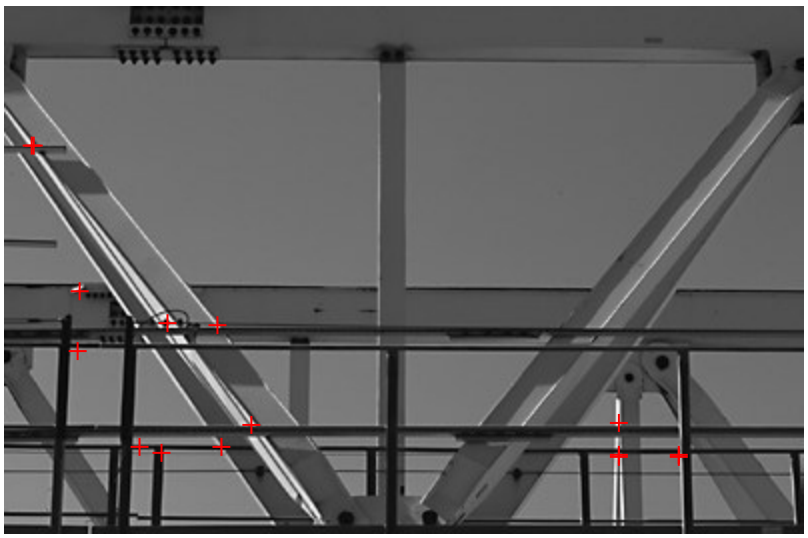


Further exemplary results:

```
Sigma=1
KernelSize=7
nonmaxsuppts(HarrisMeasureImg, 10, 75);
```

```
nonmaxsuppts(HarrisMeasureImg, 10, 50);
```

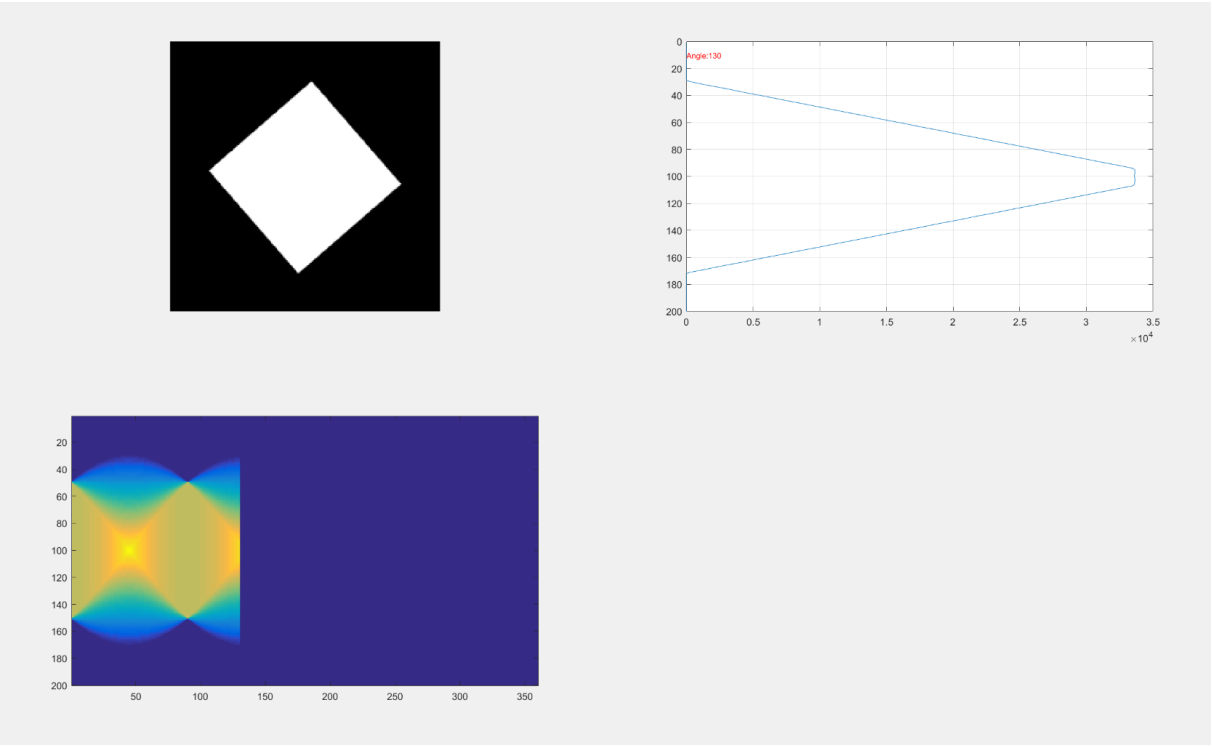
corners detected



Exercise 2.2

(a)

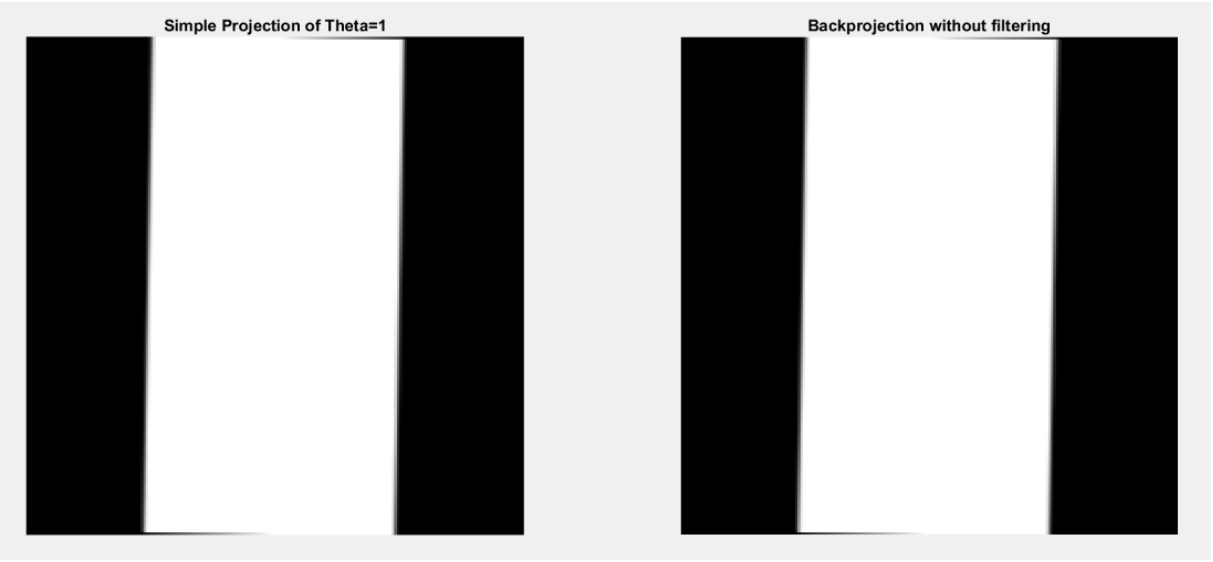
Projection



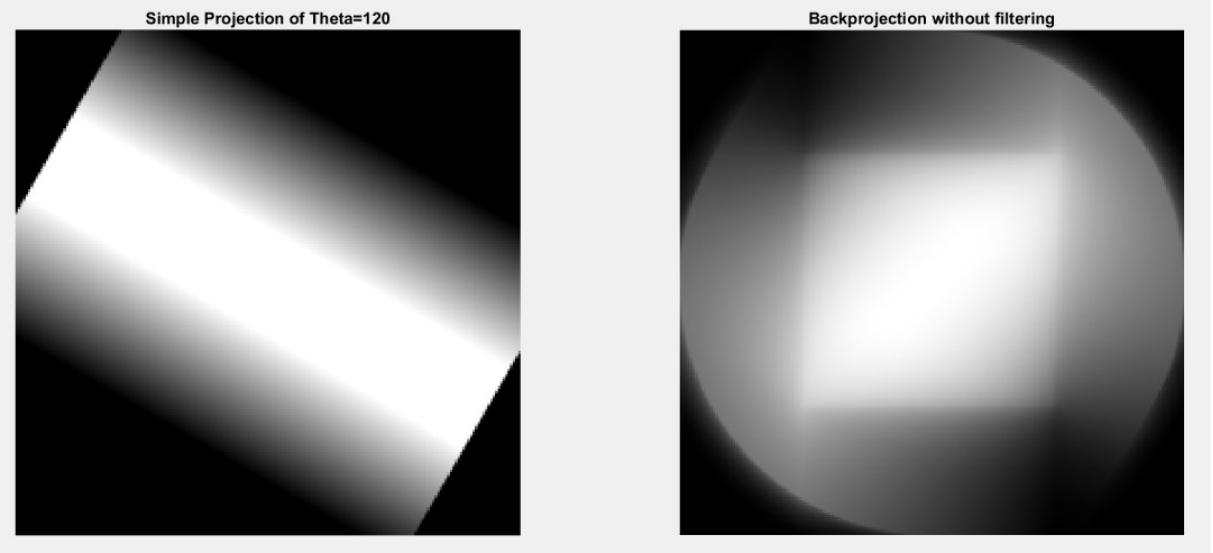
(b)

Backprojection

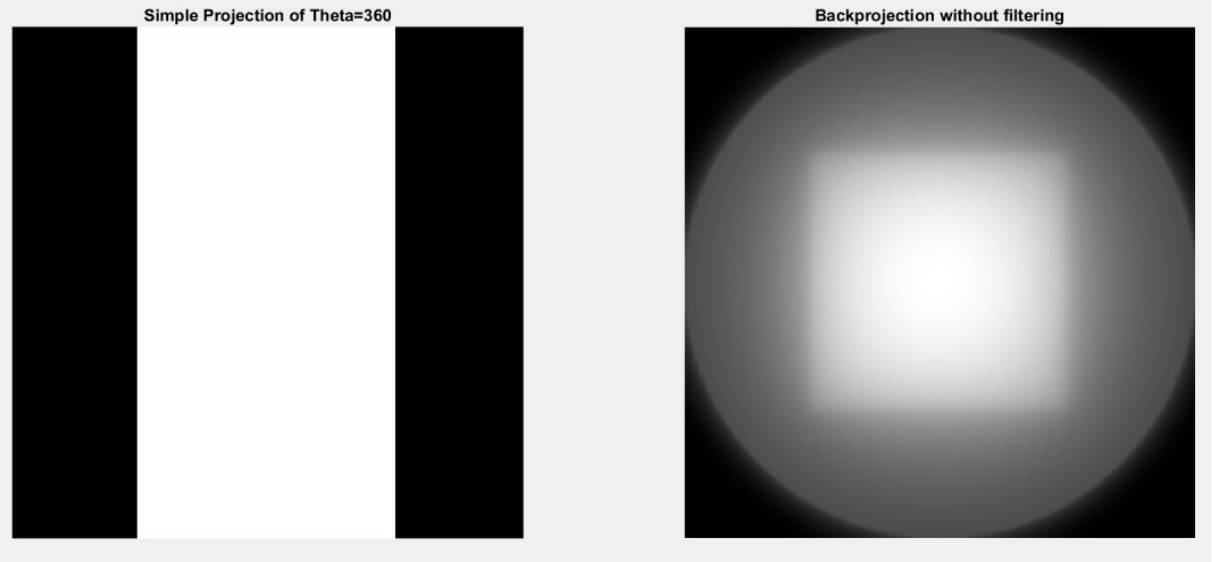
After Theta= 1°



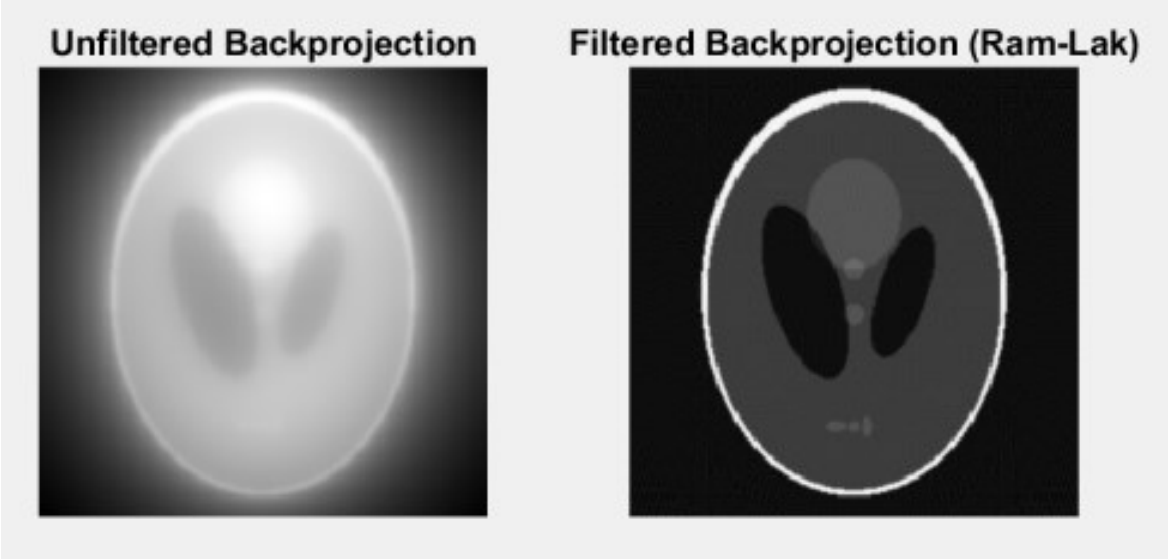
After Theta= 120°



After Theta= 360°



(c)


Unfiltered Backprojection
Filtered Backprojection (Ram-Lak)