

Assignment 7

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1 Flow over a cylinder

1.1 Vortex positions

Positions of vortices at $t=1,3,5$ are shown

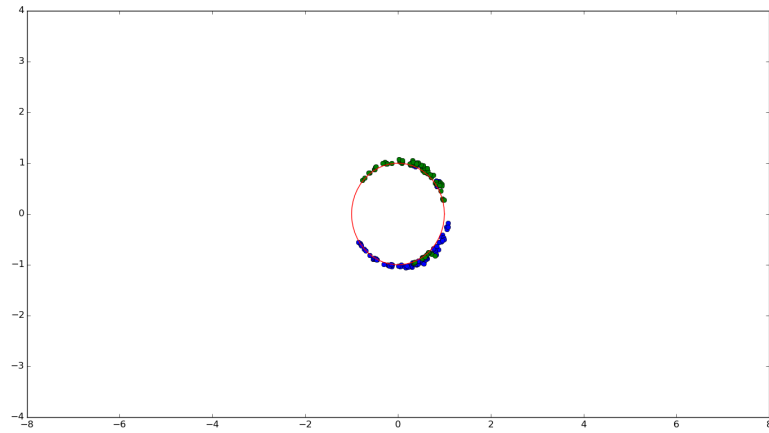


Figure 1: Vortices at $t=1s$

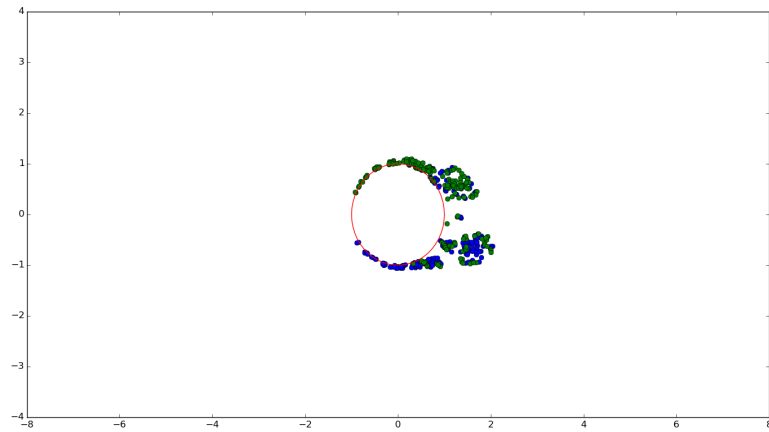


Figure 2: Vortices at $t=3s$

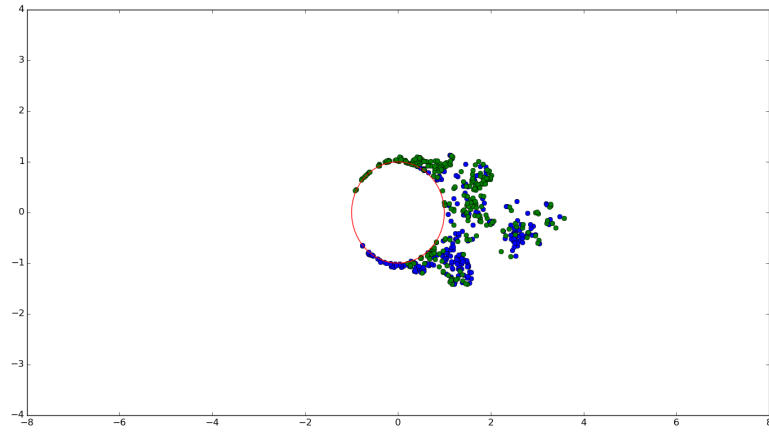


Figure 3: Vortices at $t=5s$

1.2 Velocity Contours

Velocity contours and velocity contours only in the right half plane are shown at $t=5s$

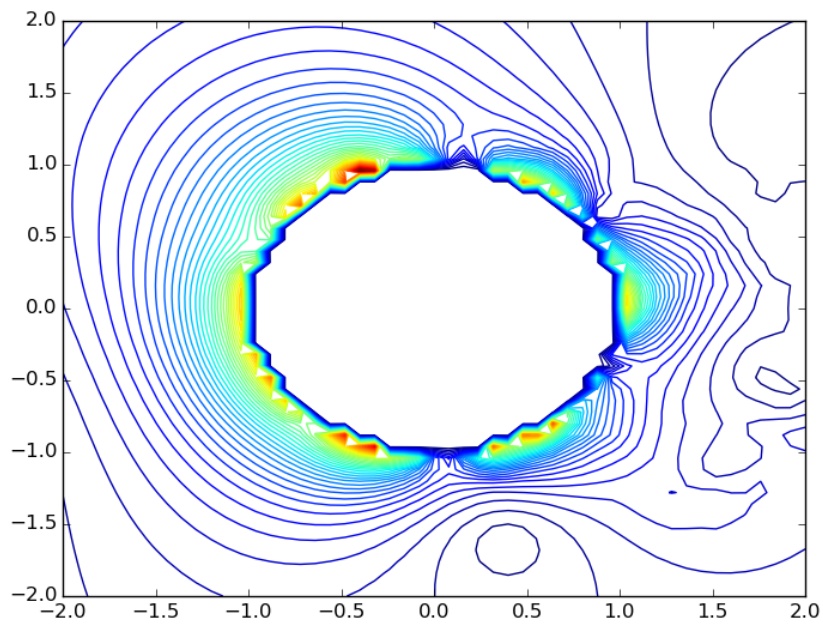


Figure 4: Velocity Contours at $t= 5s$

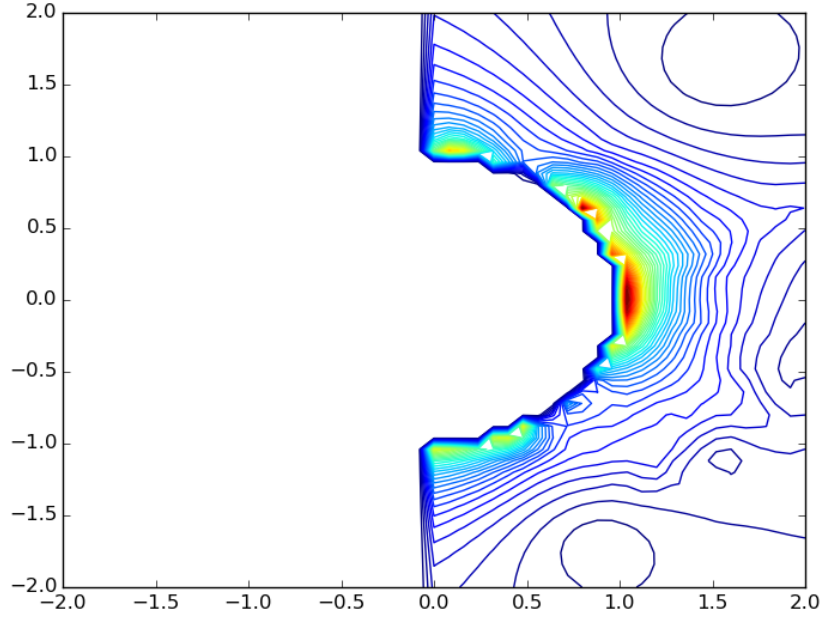


Figure 5: Velocity Contours in the right half plane at $t= 5$ s

1.3 Drag Coefficient

Variation of drag coefficient with time is shown

