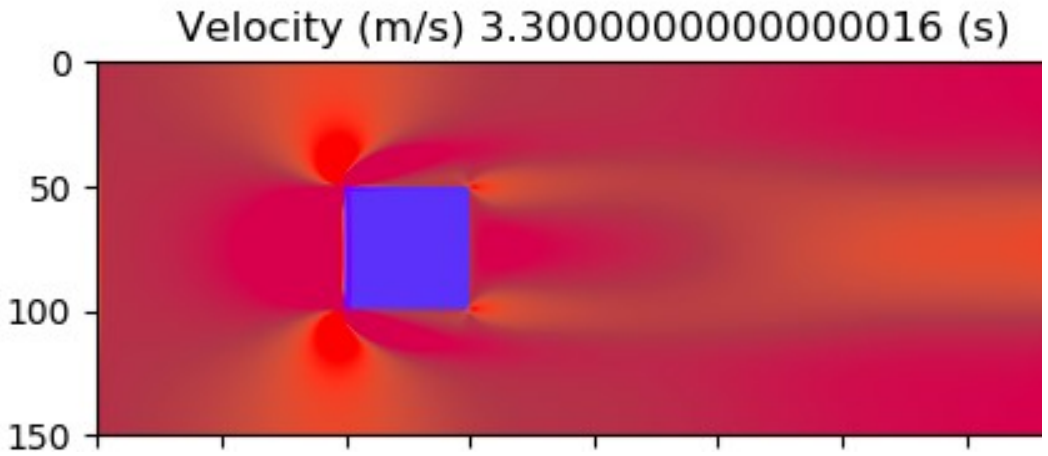
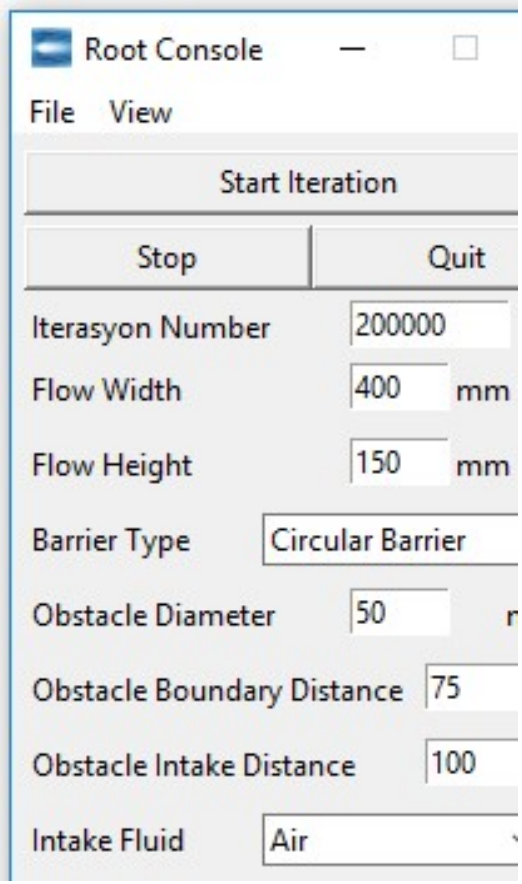


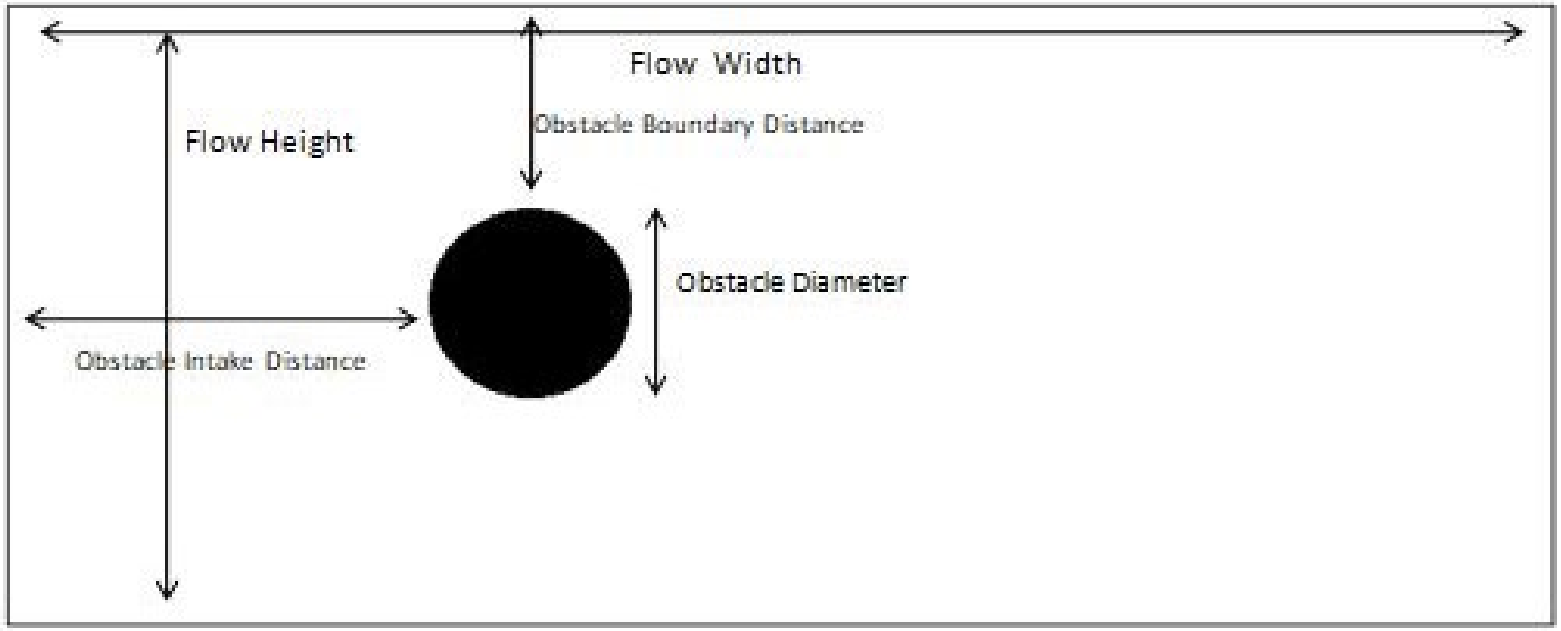
SIMYELCFD VERSION NUMBER 1.5 BASIC TUTORIAL 1

APPLICATION CONSOLE WINDOW



User can select barrier type from menu. Iteration number, flow width and height, obstacle diameter, obstacle distances, fluid temperature and intake velocity can be changed from by user.

ADJUSTING FLOW AREA AND OBJECT DIMENSIONS

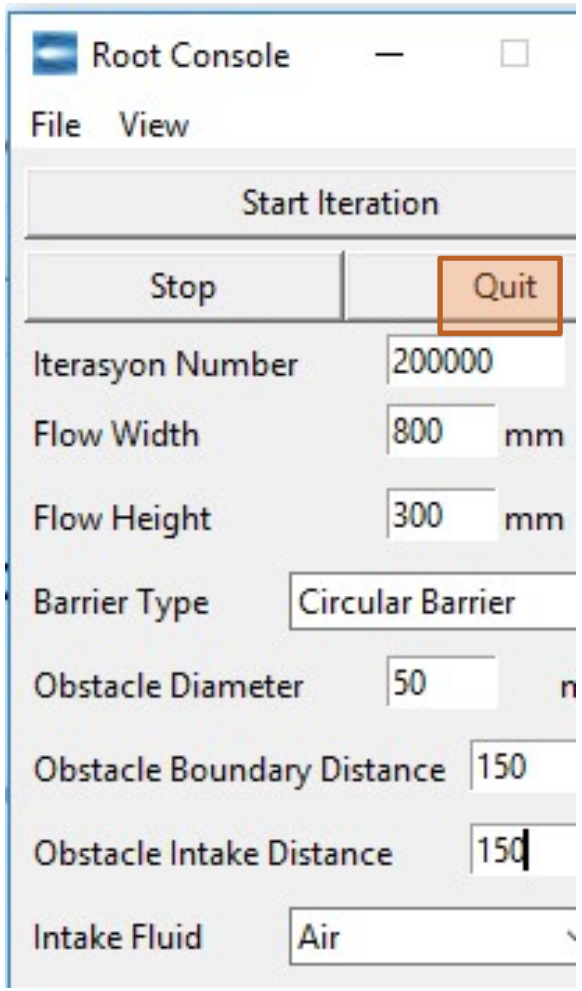


Firstly, flow area is determined with length and width. After than model object can put specific distance from by designer.

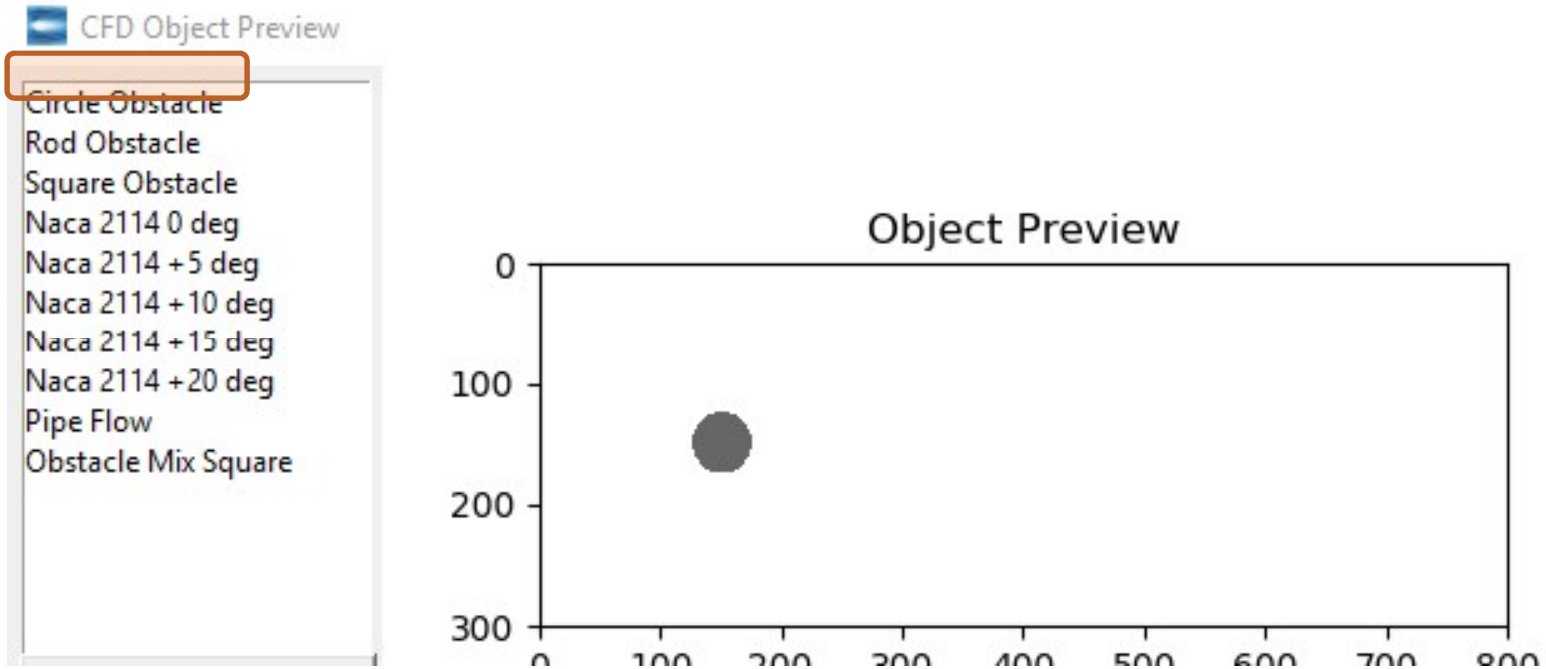
ADJUSTING FLOW AREA AND OBJECT DIMENSIONS

- Flow Width 800mm
- Flow Height 300mm
- Obstacle Diameter 50mm
- Obstacle Boundary Distance 150mm
- Obstacle Intake Distance 150mm

- And Click Button and open Object Preview Menu

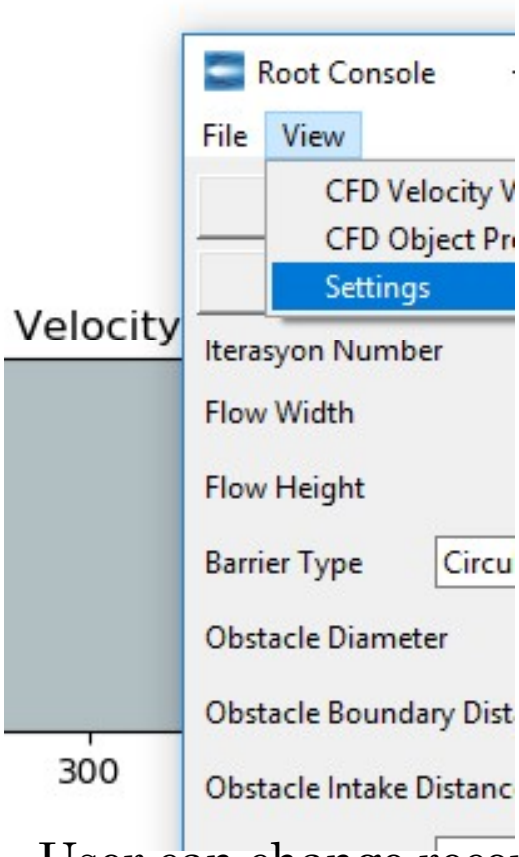


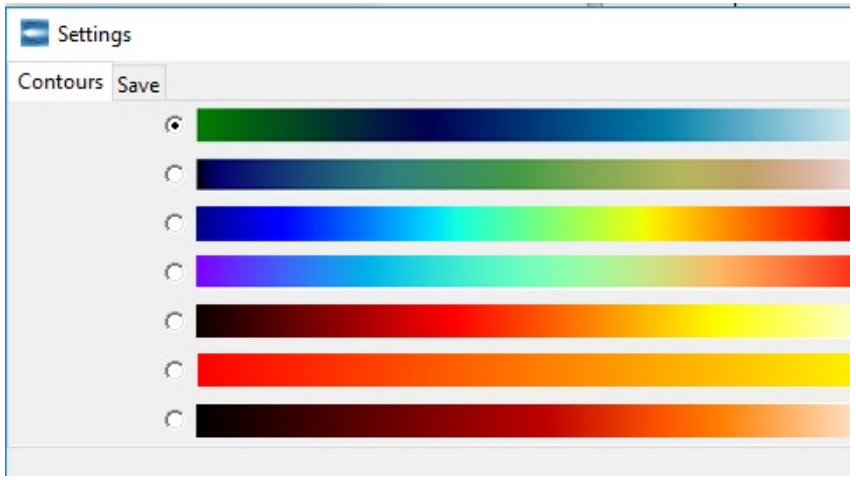
Using Object Preview Menu



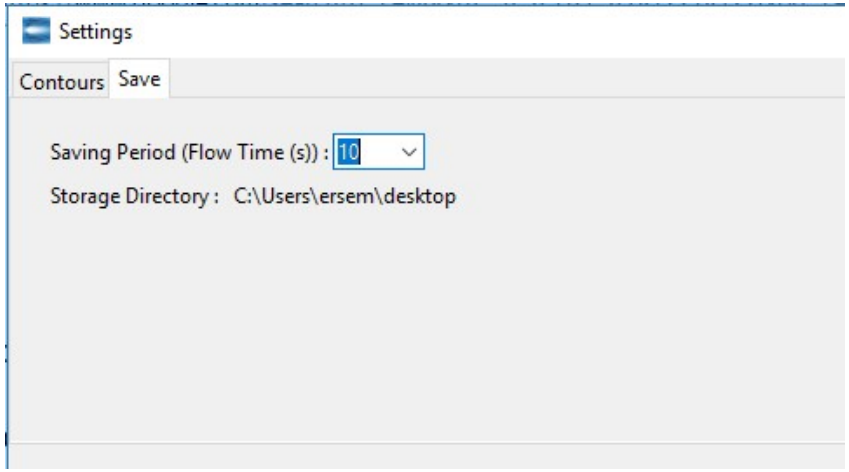
The user can select the ready model from menu and start the iteration with the start iteration button.

Settings Menu





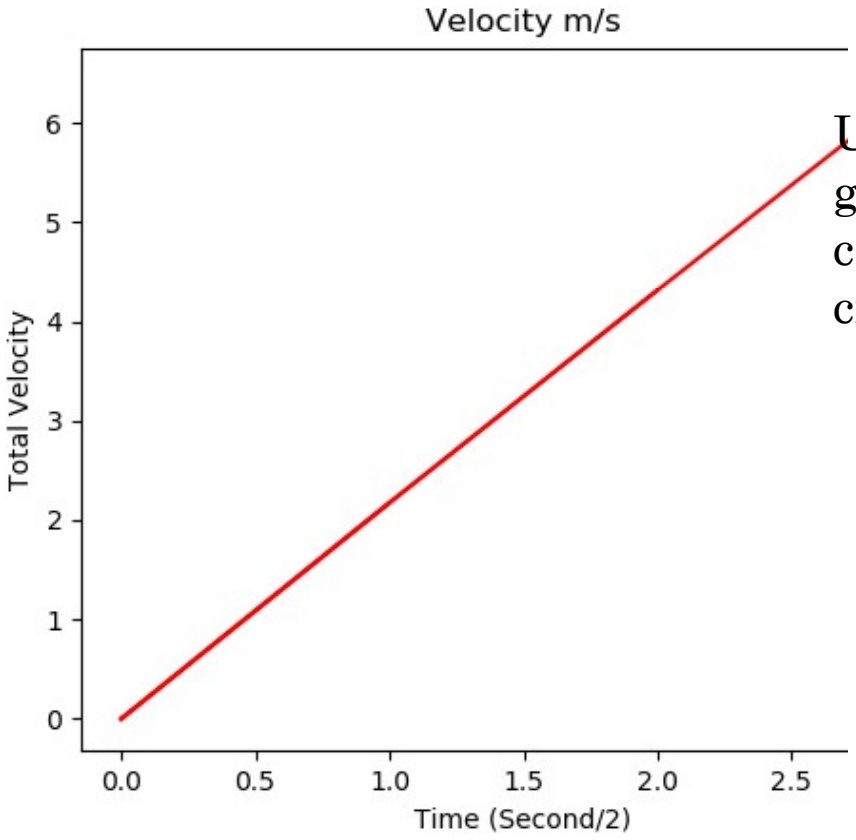
User can change contours colors using setting panel.



User can change recording frequency of automatic results and see the folder where the files are saved. Files are usually saved in the folder that contains the recording date and time in the Simyelcfd folder.

RESULTS

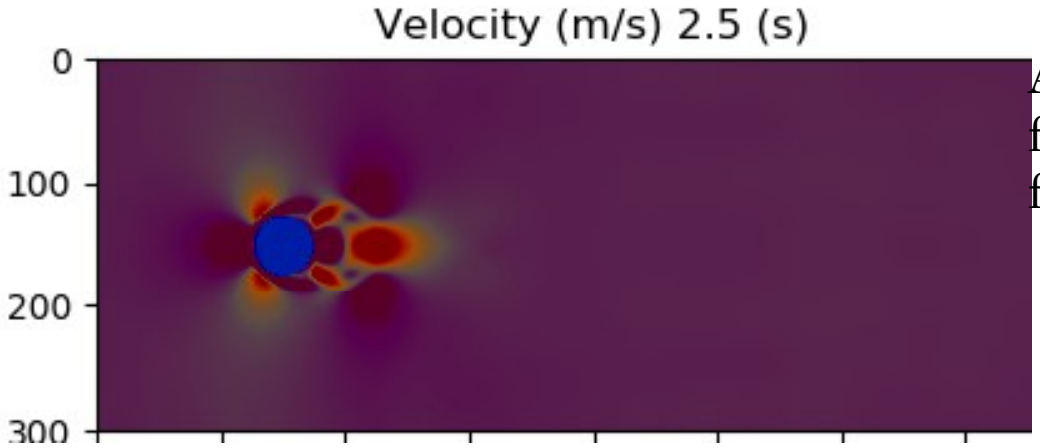
CFD




```
Velocity (m/s)
6.531509974618861
6.529141307098094
```

User can see the total velocity graph from the CFD console. User can obtain the data from the cfdresult.txt file.

RESULTS



All contours plots can be found in the file saved folder