ANSYS Steady Flow over a Cylinder - Validation

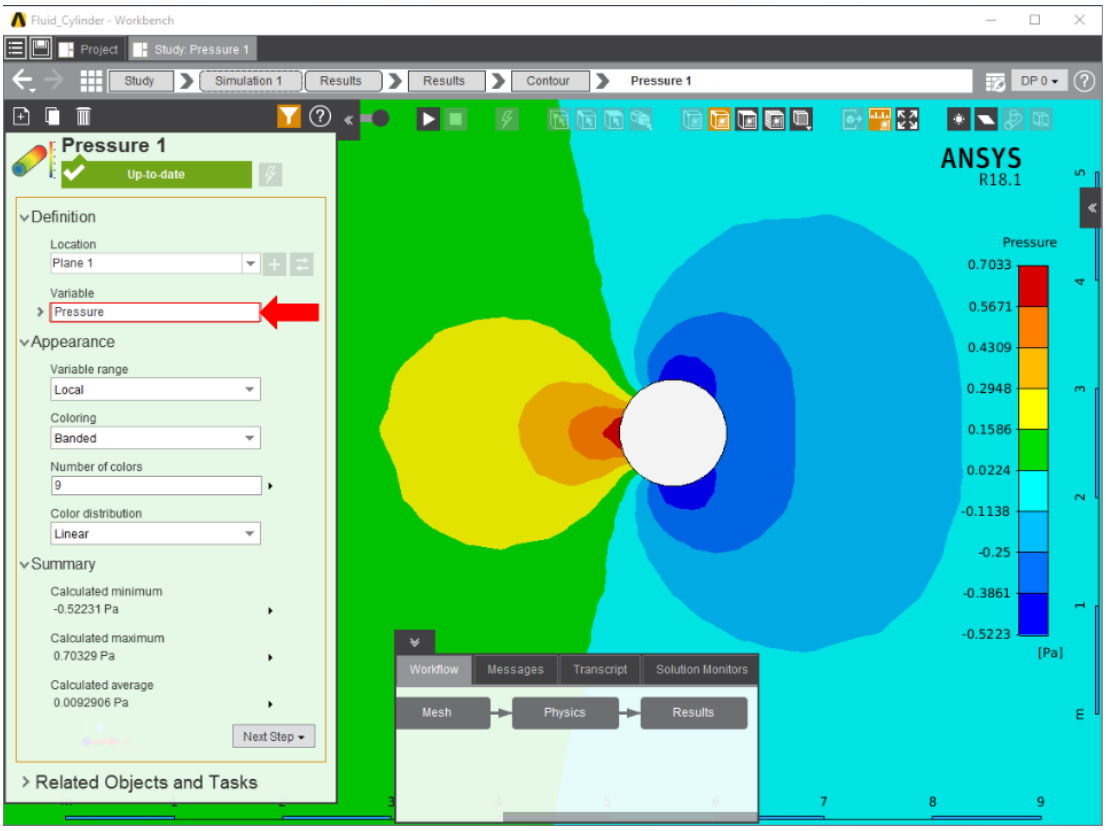
Author(s): Sebastian Vecchi, ANSYS Inc.

Problem Specification
1. Pre-Analysis & Start-Up
2. Geometry
3. Mesh
4. Physics Setup
5. Results
6. Verification & Validation

Validation

This tutorial will be compared to results found in the Fluent - SimCafe tutorial based on the same problem. Below is the pressure contour from the SimCafe tutorial.

This can be compared to the pressure contour calculated in the simulation. Select the pressure contour created in the results section, then change the **Colo ring** to **Banded** to match the display style in the image above.



The AIM solution not only has similar maximum and minimum values for pressure, but the shapes of the pressure contours are virtually identical.

Reference

Singleton, John Matthew, Jr., and Sebastien Lachance-Barrett. "FLUENT - Steady Flow Past a Cylinder." Dashboard. Cornell University, 8 Feb. 2014. Web. 19 July 2017.

Go to all ANSYS AIM Learning Modules