Notes:

1. All flowfield visualization instructions to follow are for use with Tecplot software.
2. Velocities for experiments and numerical simulations are nondimensionalized by the freestream velocity as:
3. Vorticity is nondimensionalized as:

**Simulation RANS:**

Contour variables labelled as:

* U: x-component of velocity
* V: y-component of velocity
* Pressure: pressure magnitude
* Z vorticity: vorticity

To view each phase:

* Change Solution time

**Simulation LES:**

Contour variables labelled as:

* X\_Uavg: span-averaged x-component of velocity
* Y\_Uavg: span-averaged y-component of velocity
* Z vorticityAvg: span-averaged vorticity

To view each phase:

* Change Solution time

**Experimental PIV:**

Check assigned axes are set to x and y:

* Plot 🡪 Assign XY… 🡪 select X and Y as the axes

Contour variables labelled as:

* U\_avg: phase-averaged velocity in x direction
* V\_avg: phase-averaged velocity in y direction
* Vmag\_avg: phase-averaged velocity magnitude
* Vort\_avg: phase-averaged vorticity
* *For timeAveraged files only:*
  + U\_TAvg: time-averaged velocity in x direction
  + V\_TAvg: time-averaged velocity in y direction

To view each phase:

* Zone Style 🡪 Contour 🡪 unselect show zone for all 🡪 enter selection criteria “/deg\_###/” 🡪 Zones 🡪 select show zone

A screenshot of a computer

AI-generated content may be incorrect.