

A few examples of simulations (page in progress)

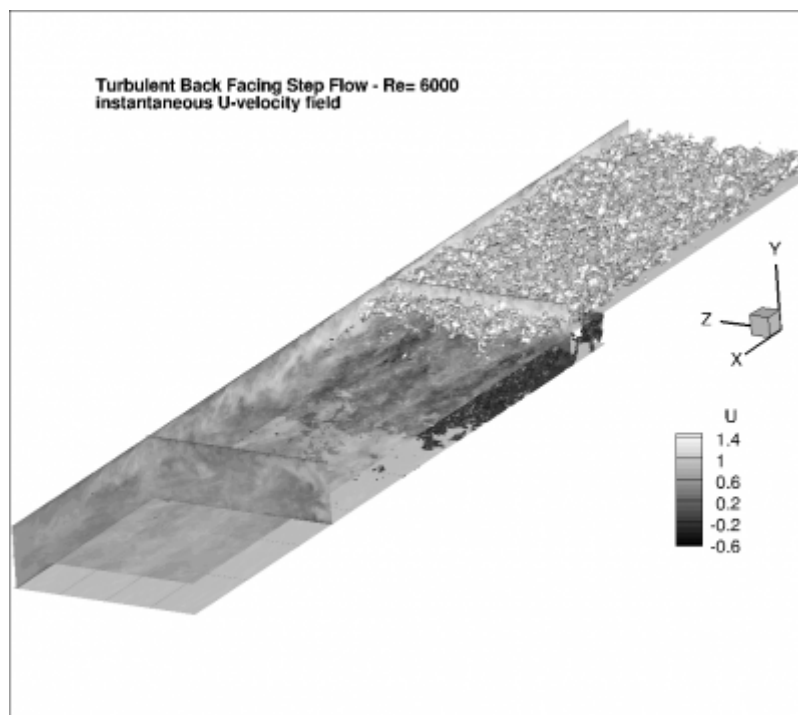
Jet through oscillating bodies

$\text{Re} = 1000$ - 3 frequencies of oscillation

Isosurface of vorticity magnitude coloured with longitudinal velocity

[movie_flow_through_oscillating_bodies_converti_.mp4](#)

3D turbulent backward-facing step flow (iso-surfaces of longitudinal velocity)



Ahmed body flow at $\text{Re} = 10000$

Isosurface of Q-criterion coloured with the longitudinal velocity

Front side view

[Front side view](#)

Downwards view

[Downwards view](#)

Upwards view

[Upwards view](#)

Surface strained flow in 3D cylindrical geometry (velocity magnitude and helicity)

[marangoni_re5600_lh45e-1.mp4](#)

2D Flow past an oscillating cylinder for different frequencies (vorticity)

[oscillating_cyl_vorticity_cmpf0.95_f1.2_a0.5.mp4](#)

3D shear-layer driven cavity flow with upstream forcing term at $Re = 7826$ (isosurface of Q-criterion coloured with velocity)

[movie_cav3d_r2_re7826_forcing.mp4](#)

3D shear-layer driven cavity flow with upstream without forcing term at $Re = 7826$ (isosurface of Q-criterion coloured with velocity)

[movie_cav3d_r2_re7826_noforcing.mp4](#)

From:

<https://sunfluidh.limsi.fr/> - **Documentation du code de simulation numérique SUNFLUIDH**

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