

Turbulence modeling

LES

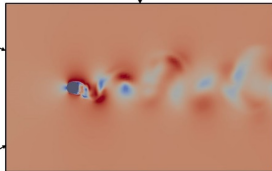
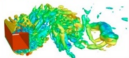
- Subgrid-scale model
- Dynamic SGS model
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RANS

- $k-\epsilon$ model
- $k-\omega$ model
- Reynolds stress model
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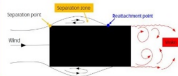
Sharp edges

- Outbreak of wiggles



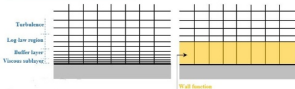
Complexity of flowfield

- Separation
- Reattachment
- Vortex shedding
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High Reynolds number

- Grid resolution
- Wall boundary condition



Boundary conditions

- Inflow turbulence characteristics

