





















Creating a prismatic wall layer (boundary layer meshing)

- y+ in the center of the first cell must be smaller than 500;
- Sudden change in grid size is to be avoided;
- Sometimes 3 directional wall refinement is necessary (eg. for LES);
- Internal continuity;
- Face vertex types...

Some other method

- Hex Submap Similar to quad-submap.
- Hex Tet-primitive Similar to tri-primitive. Works on tetrahedral domain.
- Tet/hibrid Tgrid Similar to tri-pave method. It can use prismatic elements close to the boundary (boundary layer mesh) Resolution can be controlled by size functions.



Size functions

- Source, attachement...
- On the basis of curvature or smallest gap...
- Preferably only one simple source object per size function (and only one size function per volume)











Airfioil database

http://www.ae.uiuc.edu/m-selig/ads/coord_database.html