```
                              QuadMeshBase
                                   ↑
                                   |
          oomph::SimpleRectangularQuadMesh< ELEMENT >
                                   ↑
                                   |
   oomph::FSIDrivenCavityMesh< ELEMENT >              AlgebraicMesh
                        ↑                                   ↑
                        |                                   |
              oomph::AlgebraicFSIDrivenCavityMesh< ELEMENT >
                                   ↑
                                   |
          oomph::RefineableAlgebraicFSIDrivenCavityMesh< ELEMENT >
```