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WHY OBJECT ORIENTED PROGRAMMING?

The demands imposed on CFD software have increased greatly in recent years. Applications are becoming more and more sophisticated.

The CFD community is faced with new software technology in general and especially for the new generation of graphical workstations [1,2,3]. The Object Oriented Technology is therefore becoming a significant element for the CFD specialist in the design and implementation of next generation softwares. CFD specialists are faced with the difficulty to apply it straight forward onto present computer software constructions, first of all, because of inherited structured (traditional) approach from foregoing decades [4].

New concepts of Object Oriented Programming (OOP) introduce the principle of software decomposition in layers of abstractions in order to improve the communication and the team work, for example of CFD and computer specialists.

This software decompositions improve their team work in software development because it can put together people, who are working in completely different scientific areas, and are searching the goal of building up a complex multidisciplinary software product.