

## Openfoam Programmers Guide

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OpenFOAM The Open Source CFD Toolbox Programmer's Guide Version3.0.1

13thDecember2015

OpenFOAM Programmer's Guide - SourceForge

Tutorial Guide. A collection of tutorials to help users get started with OpenFOAM covering a range of topics, including incompressible, compressible and multiphase flows, and stress analysis Download PDF; View on-line; Extended Code Guide. Browse the extended code guide to see how OpenFOAM operates under-the-hood. As an open source code, users can directly see how the code is written and learn how the functionality is implemented.

OpenFOAM® Documentation

Tutorial Guide Contents; 1 Introduction. 1.1 Getting started; 2 Incompressible flow. 2.1 Lid-driven cavity flow; 2.2 Flow around a cylinder; 2.3 Magnetohydrodynamic flow of a liquid; 3 Compressible flow. 3.1 Steady turbulent flow over a backward-facing step; 3.2 Supersonic flow

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over a forward-facing step; 3.3 Decompression of a tank internally pressurised with water

## ~~The open source CFD toolbox — OpenFOAM~~

1 Introduction. This is the base page for the currently dubbed The missing Programmer's Guide created by the community that works with OpenFOAM technology. The front page and guide lines for editing this guide in on the respective category page Category:OpenFOAM guide . This current page provides the index to all of the content of this guide in two forms:

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3.1 The programming language of OpenFOAM In order to understand the way in which the OpenFOAM library works, some background knowledge of C++, the base language of OpenFOAM, is required; the necessary information will be presented in this chapter.

## ~~OpenFOAM v6 User Guide: 3.1 Programming language~~

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## ~~Open FOAM~~

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The missing programmers guide. For now this is the front page of the community-created OpenFOAM programmer's guide. The contents of the guide itself are located under the subcategories heading below

## ~~Category:OpenFOAM guide — OpenFOAMWiki~~

OpenFOAM User Guide Case Setup. The OpenFOAM User Guide then examines the set up of

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input data files for a CFD analysis. The input data... Meshing. The OpenFOAM User Guide includes a chapter on meshing. It begins with the mesh structure of OpenFOAM and the... Post-Processing. OpenFOAM is shipped ...

~~OpenFOAM User Guide: CFD Direct, Architects of OpenFOAM~~  
Notes on Project Work, CFD, Programming and Computing ...

~~Notes on Project Work, CFD, Programming and Computing ...~~

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OpenFOAM represents scalars, vectors and matrices as tensor fields. A zero rank tensor is a scalar, a first rank tensor is a vector and a second rank tensor is a  $(3 \times 3)$  matrix. OpenFOAM contains a C++ class library named primitive (`$FOAM_SRC/OpenFOAM/primitives/`) which contains classes for the tensor mathematics.

~~Programming in OpenFOAM~~

OpenFOAM: Feature: public: 2016-12-14 17:38: 2016-12-16 10:08: Reporter: joegi: Assigned To: ... The Programmer's Guide has not been updated for over 10 years, due to lack of funding. So much of the content is out of date that it was felt it does more harm than good. Nevertheless, ...

~~0002393: Programmers guide pdf - OpenFOAM Issue Tracking~~

OpenFOAM Programmer's Guide Extended Code Guide Browse the extended code guide to see how OpenFOAM operates under-the-hood. As an open source code, users can directly see how the code is written and learn how the functionality is implemented. The extended documentation provides descriptions for many aspects of the code, including:

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OpenFOAM version 2.3.0 is a major release of OpenFOAM with numerous new features, distributed as: a packaged installation for Ubuntu Linux □ the simplest installation option for OpenFOAM; a packaged installation for SuSE Linux; a packaged installation for RedHat Enterprise Linux; a source pack for compilation on other Linux distributions.

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