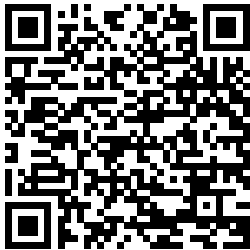

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1 Introduction.

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 C ategory:OpenFO AM guide . This current page provides the index to all of the content of this guide in two

forms:

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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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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.

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the extended
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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.
How to create
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Compressible flow. 3.1
 Steady turbulent flow over a backward-facing step;
 3.2 Supersonic flow over a forward-facing step; 3.3
 Decompression of a tank internally pressurised with water
 OpenFOAM User Guide: CFD Direct, Architects of OpenFOAM
 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 The Open Source CFD Toolbox
 Programmer's Guide
 Version 2.3.0 5th February 2014
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