

Home

Welcome to SimCafe.org

The [SimCafe](#) wiki at [simcafe.org](#) is being developed at Cornell University as an e-learning resource to integrate industry-standard simulation tools into courses and to provide a resource for supplementary learning outside the classroom. Professors and students around the world use [simcafe.org](#) for free to teach and to learn simulations. SimCafe learning modules cover simulation applications in a broad spectrum of subjects: solid mechanics, fluid dynamics, heat transfer and dynamics. In the newer modules, short embedded YouTube videos demonstrate software steps. Users can add comments to modules via an interface to [piazza.com](#). Read more [in this article on the ANSYS Blog](#).

Currently, we have learning modules and tutorials for:

- [Finite-element analysis \(FEA\) using ANSYS Mechanical](#)
 - [ANSYS tutorials from Prantil et al textbook](#)
- [Computational fluid dynamics \(CFD\) using ANSYS FLUENT](#)
- [Multiphysics analysis \(Fluid, Structural, Thermal, Modal and Electrical\) using ANSYS AIM](#)
- [Program development using MATLAB](#)
- [Wind turbine analysis using BLADED](#)

Various tips and tricks that are useful across many tutorials can be found on [this page](#).

When installing simulation programs covered in these tutorials, follow these [testing protocols](#) to assure the program is working correctly.

Contributors to [SimCafe.org](#) can find helpful resources here: [Contributors Resources](#)

This material is based upon work supported by the National Science Foundation under Grant Number 0942706. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the authors and do not necessarily reflect the views of the National Science Foundation.

This work is licensed under a Creative Commons Attribution-Noncommercial-Share Alike 3.0 United States License

