

# 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](#)

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