

## Assignment 1

- Do the following solver tutorials in the UserGuide and the ProgrammersGuide:  
icoFoam: cavity, cavityClipped, cavityFine, cavityGrade, cavityHighRe  
interFoam/laminar: damBreak, damBreakFine  
simpleFoam: pitzDaily  
Be aware that there are more tutorials available for you to do later by yourself!
- To prove this, ***for each case*** list which utilities were used, and give me one (or two) slide(s) with ***either*** one (or two) figure(s) using different unique ways of visualizing the results (including a short instruction on how you did it) ***or*** one (or two) slide(s) with some learning experience for each case, that you would like share with other people. You can include corrections of errors that you have found in the descriptions.
- **If you have used OpenFOAM for a while already**, also do the above, **or** design and perform another assignment of similar extent, for future use in the course. **Talk to me first!**
- **ALSO:** Find, apply and describe a utility or functionObject, or some functionality of a utility or functionObject, that was not mentioned in my lecture notes or in the cases you ran in the documentation. Do it similar to my slides but much better (e.g. use figures). Note: It should be easy to find this 'tutorial' in your slides, make separate slide(s) saying 'new tutorial'!

Continued...

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- I will post your slides at the course homepage. Some of your contributions will be selected by quality - try to be one of them!
- For master students, the quality of your hand-in will influence your grade.
- Hand in according to date and instructions at the course homepage. I suggest that you use the  $\text{\LaTeX}$  template on the course homepage and pack the directory with all the files using:

```
tar czf directoryName.tgz directoryName
```

- If you for some reason do not want your name to appear on the Internet, don't include it in the slides or in your file names. On the other hand, if you do a good job it is always good to show that you were the one who did it. If your name is there you agree that I can put it on the Internet. This procedure goes for all your hand-ins throughout this course.