

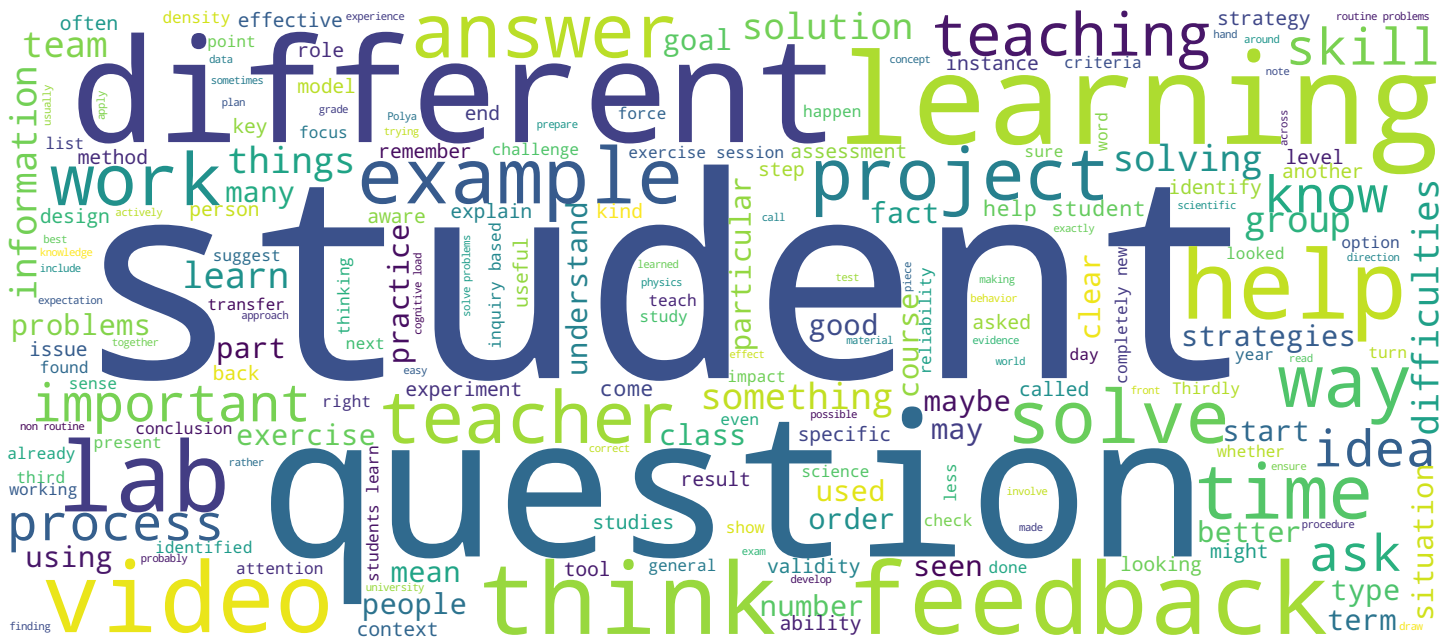
Tackling the knowledge gap

Foundations for Teaching in Higher Education

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TA in Mathematics



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Video



EPFL



So doing my Master and my PHD, I was mainly a T.A for numerical analysis and Analysis courses for bachelor student's level. One of the main difficulty I encountered during my T.A is the fact that it's not always easy to explain something to somebody, something which is maybe for you really easy because it's a concept to practice since years, and the person in front of you is completely new in this framework, completely new in these branches, and is a beginner. This is why it is a part of the video dedicated to cognitive load really speaks to me, because it's something I encounter every time I have to go in a room for teaching for an exercise session. One things you have to be aware of when you are a T.A, is the fact that you are not a machine solver, you are not there to give the answer to the students and just say "OK that's the that's the answer to this particular problem".

Notes

Summary



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You need to be aware that you have more to teach them a method how to solve this type of problem, and for that, one thing you have to think when you prepare yourself for T.A (because of course preparing yourself for T.A.-ing is important) is not only check on yourself that you are able to solve the problem, but spend sometimes to think about the tools the students will need, think about the theorems the students learn in the course, and also spend some time to think 'okay where are the difficulties of this exercise?' Maybe you don't see it anymore, but for sure someone will have some difficulties to solve this exercise. So think, where are the issues, where are the difficulties, and what kind of question a student can ask me about how to solve this problem.

- Notes

Summary

