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- Definitive list of topics is the material presented on the slides and in class!
- Learn the technical terms!
 - I don't care whether you learn the English or the German ones



Read Text Books (Lehrbücher)!

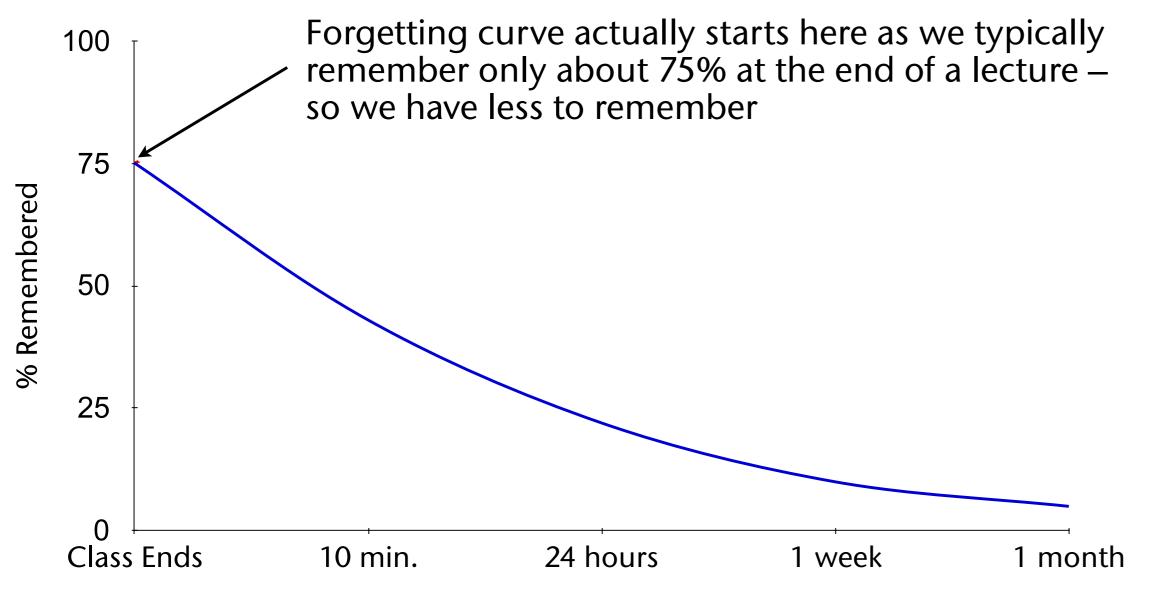






The Ebbinghaus Curve (aka. Forgetting Curve)





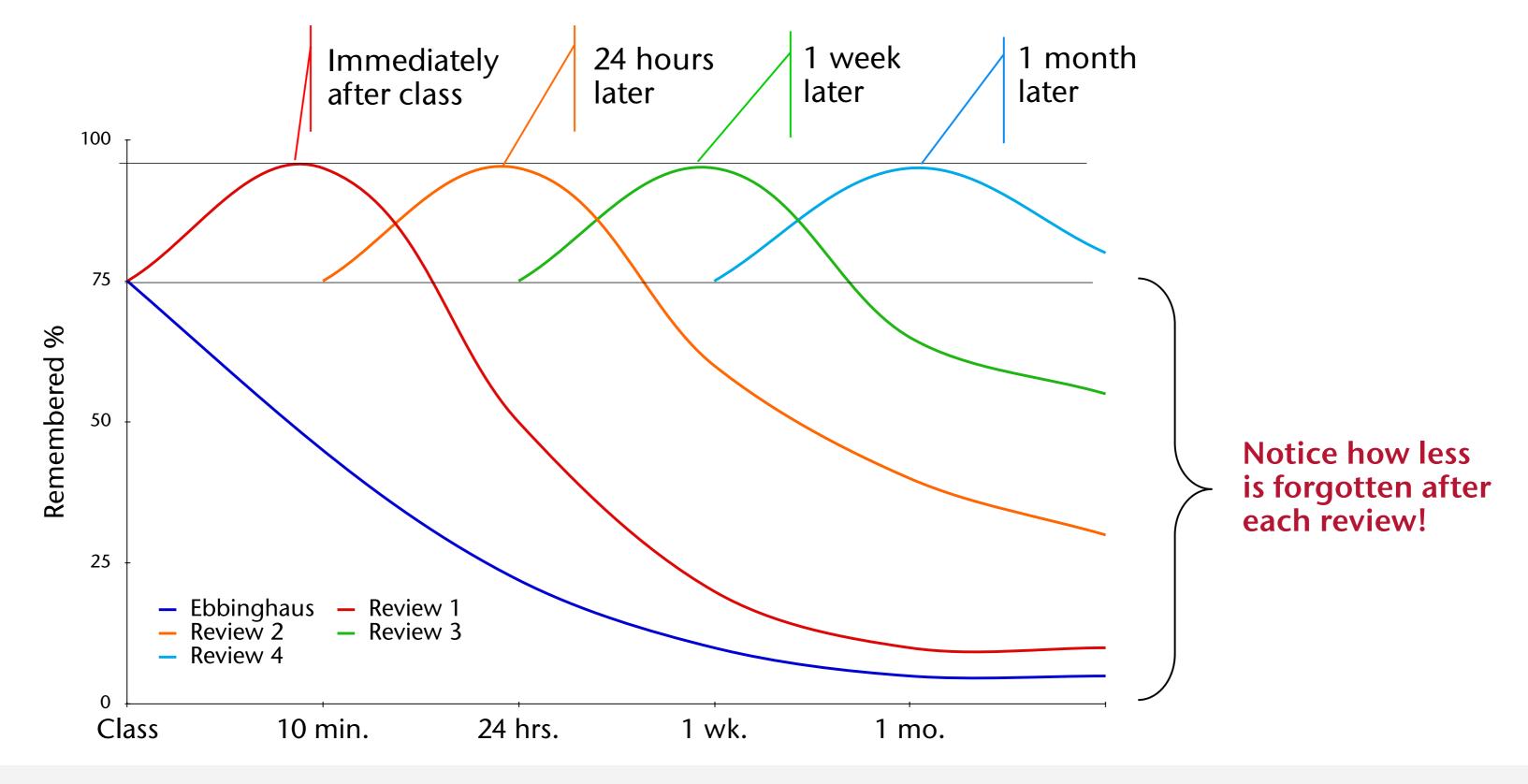


[Pillis, Johnson: First, Do No Harm: Effective, Ineffective and Counterproductive Teaching Methods. Journal of Higher Education Theory and Practice, Vol. 15(1), 2015.]



Use the "Spacing Effect" (Beat the Ebbinghaus Curve)



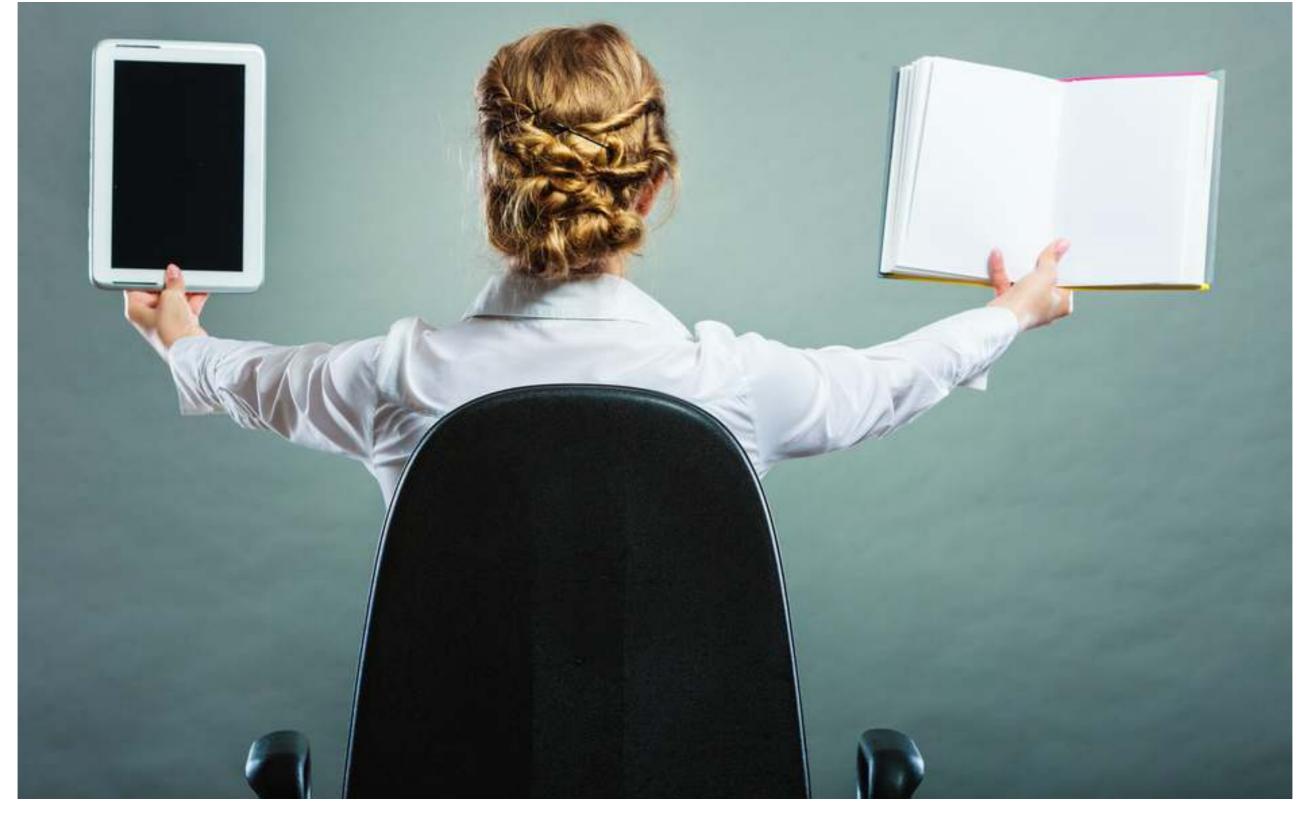


G. Zachmann Tips zur Prüfungsvorbereitung WS January 2020



Read on Paper (not on Screen!)





[Delgado et al.: Don't throw away your printed books: A meta-analysis on the effects of reading media on reading comprehension, 2018]

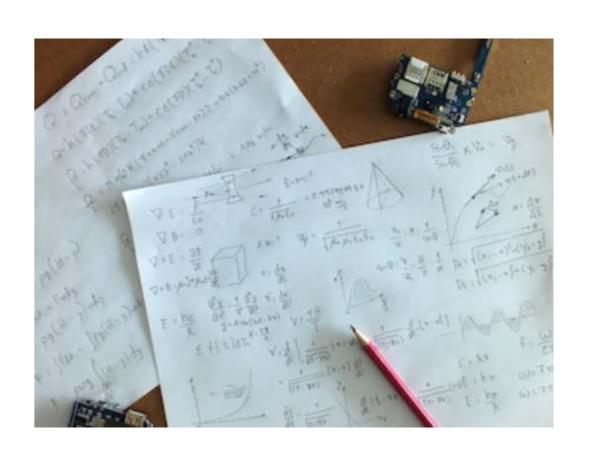


Use the Right Tool for the Right Task!









Pen tablet

Digital paper

Pen & paper

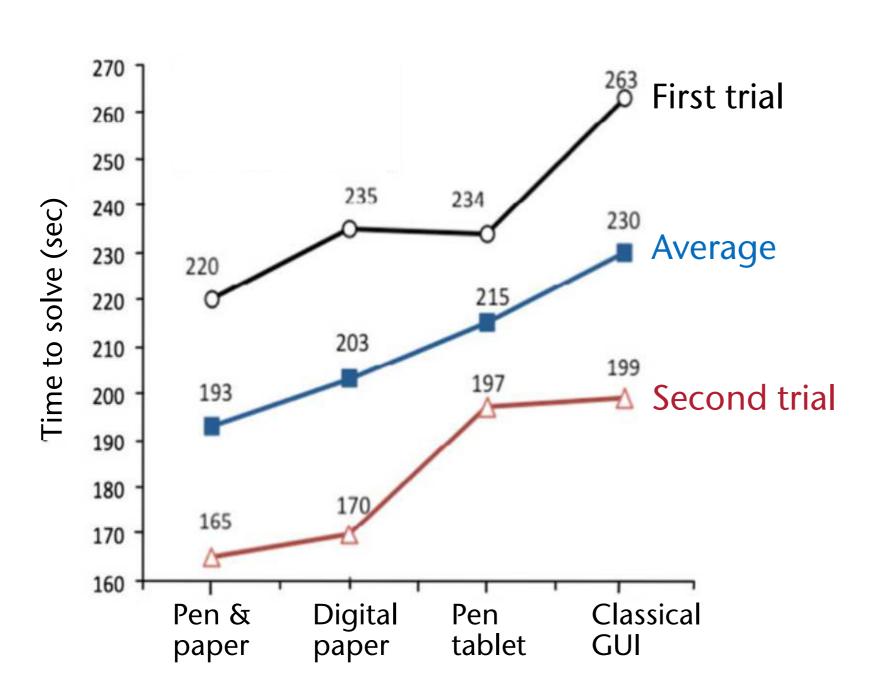
[Oviatt, Cohen: Toward High-Performance Communications Interfaces for Science Problem Solving. J Sci Educ Technol (2010) 19:515–531]



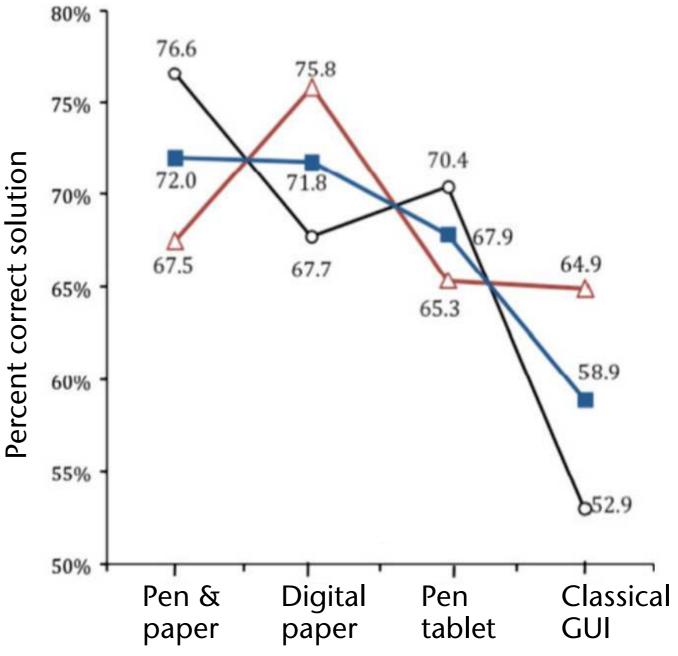
Use the Right Tool for the Right Task!



Performance wrt. speed



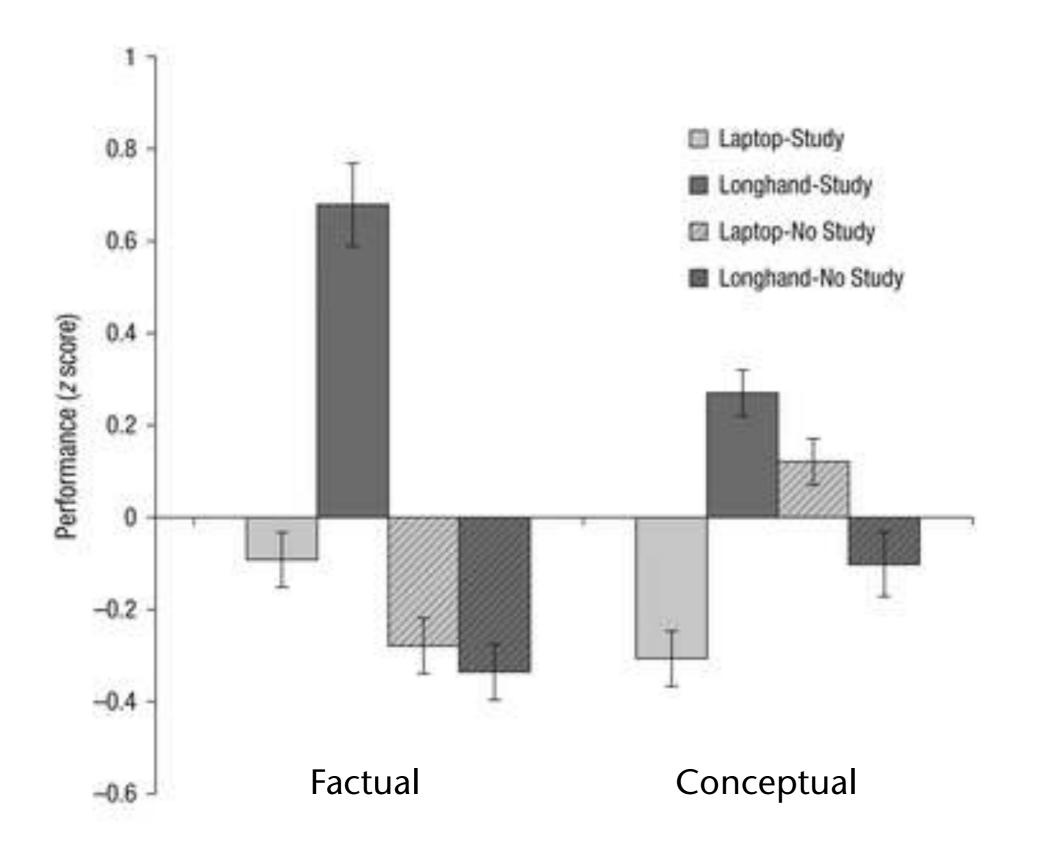
Performance wrt. errors





Handwriting is Brain-Writing





Procedure:

- 1. All students attended the same lecture and were asked to take notes
- 2. After a week, students took a test on the material

The test asked about factual knowledge as well as conceptual understanding.

- "Laptop" = typed note-taking on laptop
- "Longhand" = handwritten notetaking on paper
- "Study" = students could study their notes before the test
- "No-study" = no opportunity to study their notes

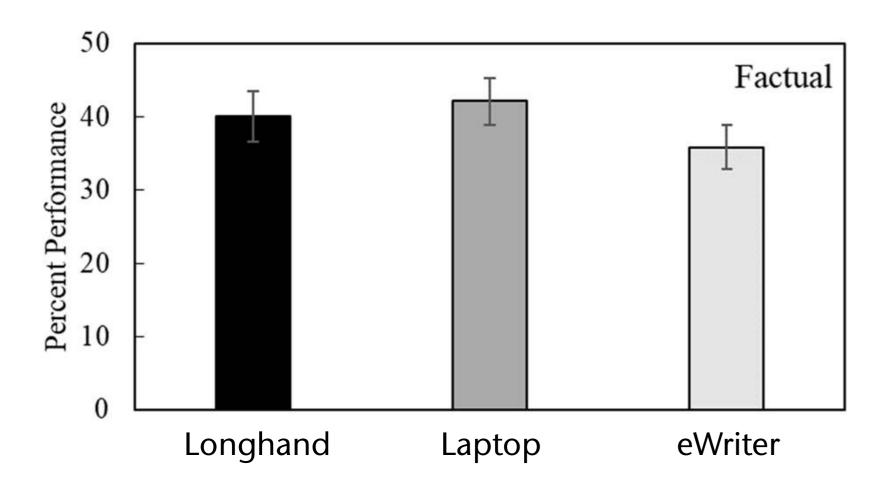
[Pam A. Mueller, Daniel M. Oppenheimer: The Pen Is Mightier Than the Keyboard: Advantages of Longhand Over Laptop Note Taking. Psychological Science, 25, 1159–1168, 2014]

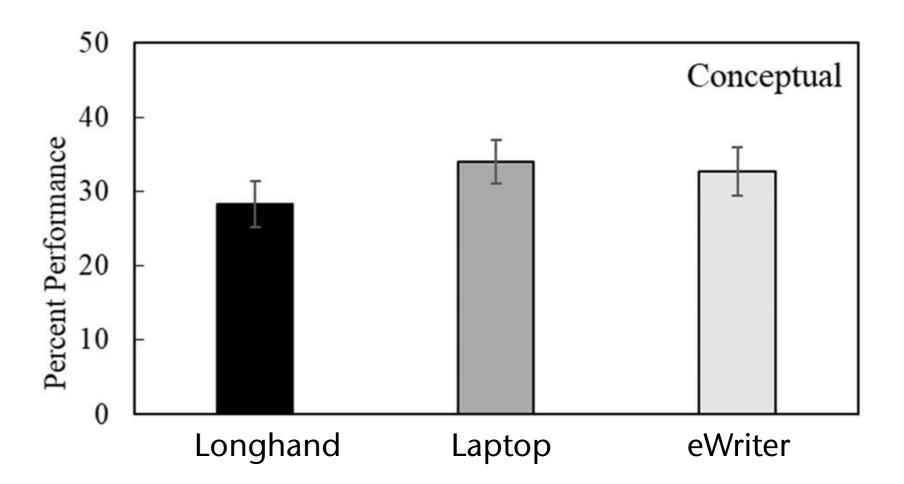


Replication Study



Similar design: lecture, immediate test afterwards, and finally a test after 2 days. Results show the performance in the final test \rightarrow no significant "winner"





[Morehead, Dunlosky, Rawson: How Much Mightier Is the Pen than the Keyboard for Note-Taking? A Replication and Extension of Mueller and Oppenheimer. Educational Psychology Review, September 2019, Volume 31, Issue 3, pp 753–780]

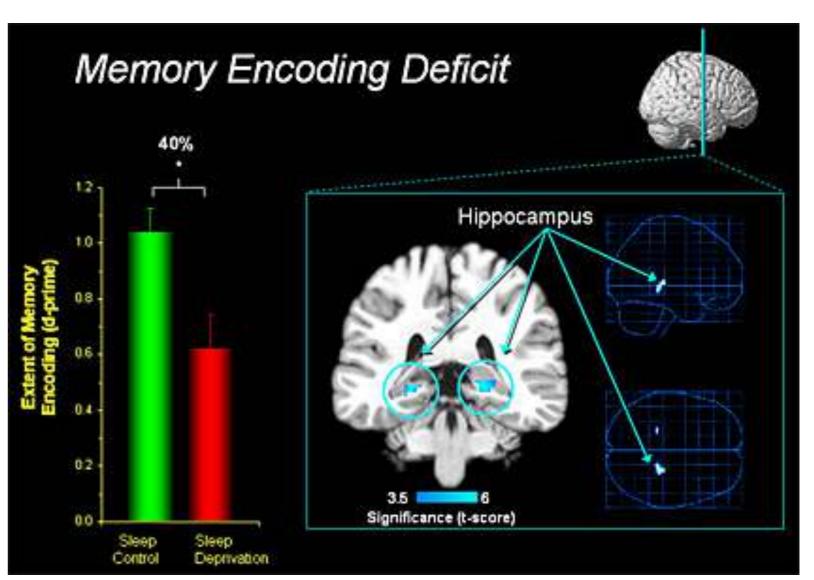
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Get Enough Sleep (≥8h on a Regular Basis)







[Matt Walker: Why We Sleep - Unlocking the Power of Sleep and Dreams. Scribner, 2018]



Dreams Come to Prepared Minds





Neil Hallinan