



EECS 551 Discussion 1

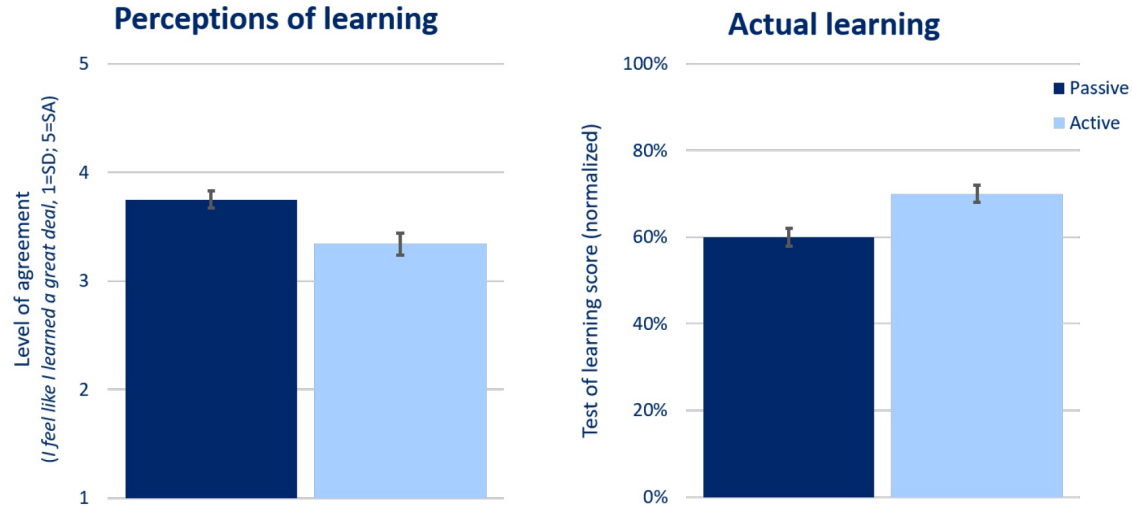
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What is Discussion

- Discuss anything related to course materials with your classmates (and me).
- Form up groups (up to 3 people) to complete tasks.
- Feel free to ask any questions!

Why Discussion

- Research shows that the discussion, as a format of active learning, can lead to deeper understanding.



[1] L. Deslauriers, L. S. McCarty, K. Miller, *et al.*, "Measuring actual learning versus feeling of learning in response to being actively engaged in the classroom", *Proceedings of the National Academy of Sciences*, 2019, ISSN: 0027-8424. DOI: [10.1073/pnas.1821936116](https://doi.org/10.1073/pnas.1821936116). [Online]. Available: <https://www.pnas.org/content/early/2019/09/03/1821936116>.

Today's goals

- Walk through the [logistics](#)
- A very brief introduction to Julia
- Try to finish Task 1

Introduction to Julia

- Julia is a high-level, high-performance programming language.
- **“The programming language of the 21st century”**
- Why?

Why Julia

- Fast: LLVM.
- Memory efficient
- Open source
- Support Latex
- Packages
- [Tutorials](#) and [Documentations](#)
- But, the community is not quite large as Python.

Add Julia kernel to Jupyter notebook

First you need to add IJulia package by:] add IJulia

1. using IJulia
2. notebook()

Or type “jupyter notebook” in terminal.

Add Julia client in Atom

1. Go to settings -> Packages -> julia-client -> Julia Path
2. Change it to where Julia is installed, for example, my path is: /Applications/Julia-1.6.app/Contents/Resources/julia/bin/julia.