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## Week 1 Discussion #1

Open

IMOsbo opened last week

All right, just getting the discussion started!

Do we want to switch from Word to... literally anything else?

- Google Docs - this might be better for change tracking? I don't know, I've never really used it much...
- Overleaf / LaTeX - this looks good! I've used this before a fair amount and it always worked pretty well!
  - The biggest problem is project history is limited to only premium accounts, so I don't think this would work :/ <https://www.overleaf.com/user/subscription/plans?plan=student&period=annual>
  - We could all run LaTeX on our own machines and then check the .tex file into the repo
    - This might be easier?
- Quarto <https://quarto.org/>
  - I always really irrationally liked Quarto - it lets you generate your documents from either a Markdown file or a .ipynb, which could be nice for our project?

Interested in hearing what y'all think! And if you just want to stay with Word, totally fine with that too!

Create sub-issue

Hrogel9007 last week Collaborator

I would prefer google docs as I'm familiar with it, but I'll leave it up to you guys. Which paper should we try to recreate?

richardhoehn last week Collaborator

I have the premium version - would just need your emails address ... BUT; I am fine with using Google Docs (without track-changes). That would work well for me too. I understood Dr. Wallin to say that we only submit the PDF of the report form this point on. Do you guys agree?

Kwoods132 last week Collaborator

Google docs works for me as well. I've only used Overleaf once before, so I'm not too familiar with it,

richardhoehn last week Collaborator

I think reading our notes a "soft" vote would be to use Google Docs - Would one of you setup?

My Gmail: [rhoehn@gmail.com](mailto:rhoehn@gmail.com) for sharing.

Thanks!

Kwoods132 last week Collaborator

My gmail is [woods.k273@gmail.com](mailto:woods.k273@gmail.com)



richardhoehn 5 days ago

Collaborator ...

Would you guys want to meet over zoom at 5:30pm today?



HrogeI9007 5 days ago

Collaborator ...

My gmail is [harogeljr9007@gmail.com](mailto:harogeljr9007@gmail.com)



HrogeI9007 5 days ago

Collaborator ...

I'm good with the meeting being at 5:30 today.



Kwoods132 5 days ago

Collaborator ...

That works for me as well.



richardhoehn 5 days ago

Collaborator ...

Here is the zoom Link: <https://mtsu.zoom.us/j/6153192171?omn=89992630849>



IMOsbo 4 days ago

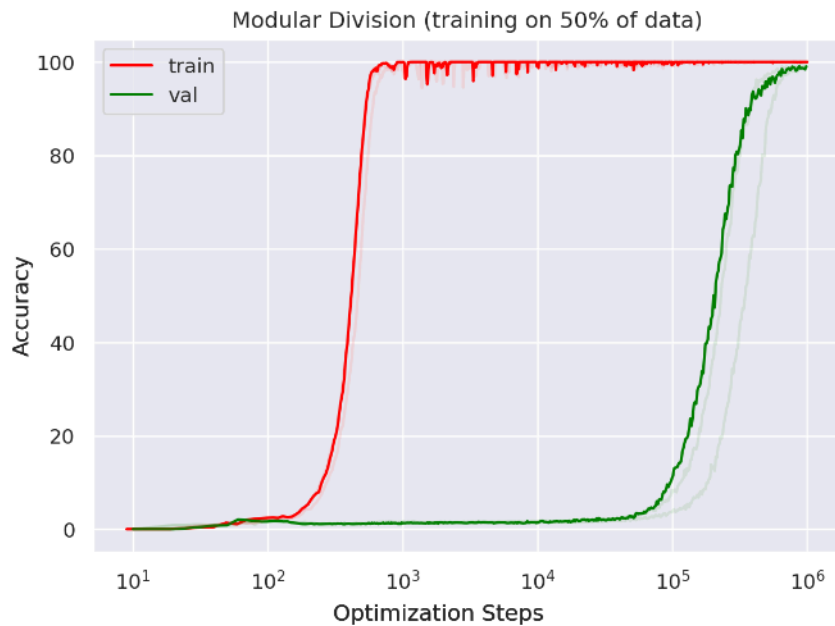
Owner Author ...

All right, been looking at some papers and I think I might have some candidates!

## GROKING: GENERALIZATION BEYOND OVERFITTING ON SMALL ALGORITHMIC DATASETS

<https://arxiv.org/abs/2201.02177>

- Paper from OpenAI showing that if you overfit a model enough on the training data, it'll eventually converge on the validation set too?



- Can we *really* get it to reproduce that validation curve increase again?

Such experiments can be quickly reproduced on a single GPU, and this makes them convenient testbeds for theories of generalization.

- Not sure if that'll be the case or not?
- Here's the code repo: <https://github.com/openai/grok> (My goodness AI people are bad at naming things)
  - It looks hard enough to maybe not work 100% out of the box, but simple enough we can fix it if it breaks 😊

## Idiosyncrasies in Large Language Models

Hrogel9007 3 days ago

Collaborator ...

I like the Grok paper—seems more manageable since it's lighter computationally. We'll probably need to tweak some of the 2022 code, but that feels doable. What do you all think? Does this feel like a good direction to everyone?



~~Cosmonadia 05.7 00.2 22.2 04.0~~

Kwoods132 3 days ago

Collaborator ...

Yeah, I think the Grok paper would be a good one to do.



IMOsbo 3 days ago

Owner Author ...

Ok, so I was thinking about this during class... Depending on how long it takes to run their actual code, do we want to try to train a neural net on a smaller dataset and see if we get the same results?

If we could get a simple neural net reproducing the same trends on a dataset like the Titanic dataset, we might actually be able to show the general trend of the paper, even if we can't run the entire thing. This might be better than having nothing?



Kwoods132 yesterday

Collaborator ...

I think that might be worth trying if we're not able to get their actual code to run.



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