Notes - Participant: Michael Dapp

**Please access the tool:** [https://cse512-15s.github.io/fp-liusuw-kuangyou/](https://cse512-15s.github.io/fp-liusuw-kuangyou)

**Instruction to use the tool**

1. Drag and select the region on the “Amino Acid Positions” axis.
2. Adjust or move the region by dragging its left or right border.
3. Click the bar if you want to look at the directional evolution of the according AA.
4. Browse the table in detail by scrolling up or down.
5. Adjust the threshold bar.
6. Click a cell for the consensus.

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**Survey Questions**

1. What 3 words (and only 3 words) best describe this tool?

**Comments: Comprehensive, Informative, Multi-layered**

1. What problem does this tool solve? Do you think it meets this goal?

**Comments: Very efficiently displays a vast and complex amount of data in an easy to manipulate format. Saves a lot of time compared to previous methods of similar data display. Yes, very much meets goal.**

1. Do you feel the interaction is useful and engaging?

**Comments: Yes.**

1. What aspects of the tool did you find either frustrating or confusing? Please Describe.

**Comments: Some of the text labels aren’t in line but that might be my browser (Safari).**

1. If you were to modify this tool, how would you improve it?

**Comments: I would somehow expand the “Directional Evolution” plot area – I understand that a zoomed-out view would make some of the text useless but the colors would be informative. Also, it would be nice if the top line in the “Directional Evolution” tool titled “Visit | ## | ## | ##” was static and also showed the consensus AA.**

1. Would you share or recommend this tool to your colleague or friends?

**Comments: Yes, definitely. Looks and works great!**