Operating Systems 13.06.2024

# DAVIS

Data Visualization and Integration Shell

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#### Problem - CLI

- Shell:
  - Parsing user's input correctly
  - Executing desired command
- Embed Gnuplot & LaTeX
- Userfriendly & practical

### Solution - Executor

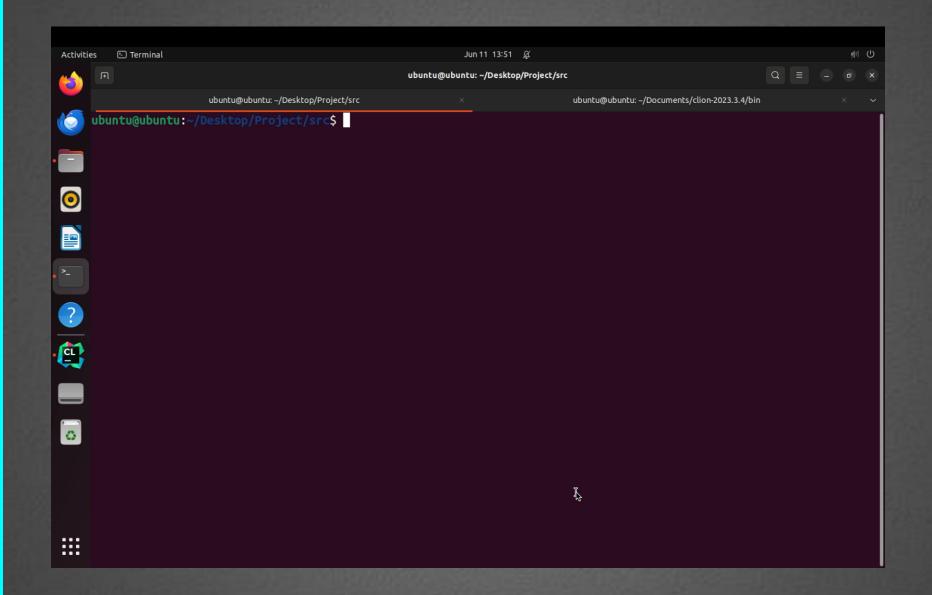
- Sorted user input
- Retrieving command's success-state

# Solution - History

- User-friendly and practical
- Doubly-linked list of input entities
- Non-Canonical terminal mode

# Solution – plot & latex

- Command to plot via Gnuplot
- Templates for LaTeX
  - Exercise sheet
  - Project report
  - CV
- Plot then integrate in LaTeX



## Discussion & Conclusion

- Achieved our goals and more
- Time-plan worked great
- Open TODO's:
  - Combining plot directly with LaTeX
  - Error handling with gnuplot
  - Memory optimization

#### Lessons Learned

- System-related programming
- Project scheduling
- Third-party libraries



# We thank you for your attention.

Do you have any questions?