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Computer Science Department
Software Engineering and Programming Languages
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Functional Programming – WT 2023 / 2024
Reading Guide 14: Philosophy

Timeline: This unit should be completed by 29.01.2024.

Note: The contents of this unit may be subject to change.

1   Material

- Rich Hickey: Hammock-Driven Development `https://www.youtube.com/watch?v=f84n5oFoZBc`

- Stuart Halloway: Debugging with the Scientific Method `https://www.youtube.com/watch?v=FihU5JxmnBg`

- Rich Hickey: Effective Programs `https://www.youtube.com/watch?v=2V1FtfBDsLU`

2   Learning Outcomes

After completing this unit you should be able to

- classify the cost of a bug at different stages of development.

- assess architectural design in terms of mental capacity.

- explicitly specify trade-offs in the development of a particular project.

- debug a program using the scientific method.

- assess for which problems functional languages and Clojure in particular are useful.

3   Exercises

No practical exercises here. Proceed with the usual 4clojure exercises. Make sure to think about the solution in a hammock before implementing it.

Questions

If you have any questions, please contact Philipp Körner (`p.koerner@hhu.de`) or post it to the Rocket.Chat group.