

SM2-TES: Functional Programming and Property-Based Testing, Day 8

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Other QuickCheck Frameworks

John Hughes: Certifying Your Car with Erlang

Project Ideas

Project/exam formalities

Other QuickCheck Frameworks

[Your presentations]

John Hughes: Certifying Your Car with Erlang

[Video talk]

Project Ideas

Project ideas (1/3)

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- Test the last library you used
- Is there a program/library/module at work which could benefit from testing?
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- Test the implementation of the last non-trivial algorithm you wrote/reused

Project ideas (2/3)

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- **Test properties of a 2D/3D physical engine** (a generator of random 2D/3D shapes, ... which properties?)

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- **Test MIRs REST API – or another one** (which properties? general or domain-specific?)

Project/exam formalities

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- **Tuesday, May 1** (at the latest)
 - Hand in a project description (talk to me first)
 - After **a green light** you can start project work
 - You can do a group project (1-?? members)
- **Monday, May 14**, you give a preliminary project presentation (topic, prelim. results and ideas, . . .)
- **Thursday, May 31**, hand in project report (and code)
- **Mon-Tue, June 11-12**, oral exam: project presentation + answer questions
 - You receive a combined grade for
the project report + presentation + answers
 - Measure of success: ability to apply QuickCheck
(to a project of your choice)

Summary and conclusion

- We've seen **a number of frameworks** expressing the core ideas of QuickCheck in other languages
- We've seen an **extensive application** of the techniques to Volvo/AUTOSAR
- We've discussed various project ideas
 - Perhaps you got **an idea for a project** from one of the above?
- We've discussed the project/exam formalities