

IP Major

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UC Leuven

2020

Who we are

- ▶ Wannes Fransen
- ▶ Tom Eversdijk

Classes - contacturen

- ▶ $11/12 * 2\text{hrs} = 24\text{hrs}$
- ▶ $8/9 * 1\text{hrs} = 9\text{hrs}$ (support - nonobligatory)
- ▶ $3\text{stp} = 90\text{hrs}$

Evaluation

Project

- | | |
|--------------|------|
| ▶ Assignment | 30 % |
| ▶ Exam | 70 % |

Requirements

- ▶ The requirement to get a "tolereerbaar" result, is to correctly implement the required features at the exam.
- ▶ Following requirements (see ECTS) to participate at the exam are applicable:
 - ▶ You must submit your assignment before the deadline
 - ▶ Your submitted assignment must implement the required features in order to participate at the exam

How this course is structured

- ▶ Classes are theory / small demonstrations & exercises, with some time for questions
- ▶ You work independently, questions are asked in the support hours
- ▶ No questions through mail

IP major - purpose

- ▶ Concepts & purposes of a framework
- ▶ Use of generators
- ▶ Using a CI/CD platform with a non-standard language
- ▶ Implementing advanced features with the least possible effort
- ▶ Writing easy to maintain code
- ▶ ...

Language

Elixir

- ▶ Erlang VM
- ▶ Functional
- ▶ Process-oriented
- ▶ Fault-tolerant [LINK]

Quote uptime

The AXD301 has achieved a NINE nines reliability (yes, you read that right, 99.9999999%). Let's put this in context: 5 nines is reckoned to be good (5.2 minutes of downtime/year). 7 nines almost unachievable ... but we did 9. Why is this? No shared state, plus a sophisticated error recovery model.

Companies using the BEAM

- ▶ WhatsApp
- ▶ Pinterest
- ▶ Discord [LINK]
- ▶ IBM Cloudant
- ▶ AdRoll
- ▶ Bet365
- ▶ ...