

# Functional programming

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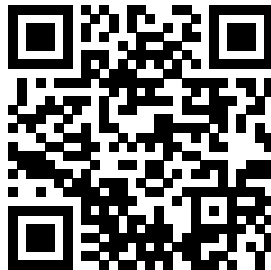
# What is this course about?

## Themes

- Haskell
- Lazy evaluation
- Wholemeal programming
- Using types to your advantage
- Abstraction
- $\lambda$ -calculus
- Combinatory logic
- Compilation and execution of functional languages
- GHC internals

## Structure

- 16 weeks, 2 classes per week
- 3 modules
  - Introduction to Haskell (6 weeks)
  - Functional abstractions (6 weeks)
  - Functional models of computation (4 weeks)
- ~10 homework assignments (10 points each)



<https://sys.pro/courses/haskell>

## Grading

- Final grade is assigned either based on points for homework assignments
  - **A** — 70+ points in total (6+ in each homework)
  - **B** — 60+ points in total (3+ in each homework)
  - **C** — 50+ points in total
- Or by passing grading theory test consisting of
  - 2 random questions from different modules
  - 1 random exercise from homework assignments
- Students wishing to improve grade based on homework points may pass theory test instead
  - In that case their grade from theory test will be the final grade

Q&A