

Objectives

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|----------------------------|---|-----------------------------|
| 1) Fast & easy prototyping | ← | Matlab, Mathematica |
| 2) High-performance | ← | C, Fortran, Assembly |

- **Productivity vs. Performance**

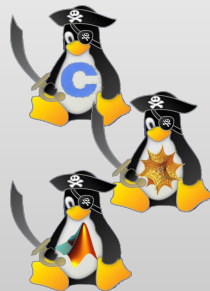
Mathematical abstraction → language choice

- **Numerical vs. Symbolic** computations

Floating point arithmetic, arbitrary precision, symbols

- Imperative vs. **Functional** programming

Pattern matching, rewrite rules, functions & maps



English – Programming challenges – Followup: “Parallel Programming”

- First lecture **Friday - April 13, 16:15pm**
MeT P 11, Kopernikusstr. 14
- Weekly structure
Monday 16:15–17:45 lecture
Friday 16:15–17:45 lecture + exercise
- Degree **Master**, Bachelor