PDEs:
Discretisation:
(Non)linear solvers:
Large scale computations:
Other ingredients:
Embedded multilevel Monte Carlo for uncertainty quantification in random domains
our labs advanced software engineering high-performance
Open source
user library developer
Reuse:
developers very time-consuming
Start from scratch:
dynamic languages
static languages
Dynamic-static combinations:
Productive:
Performant:
everything %
Not OO:
use composition, not inheritance classify by their actions, not their attributes
Multiple dispatch-

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