## Parallel Python Using IPyParallel

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## Performance & Python

## Python is an interpreted language

- No binary executable is created
- Interpreter executes source code line-by-line
- Instructions are executed naively
  - exactly as you wrote them
  - In the order you wrote them
  - no inherent vectorization

## Compiled languages are different

- A binary executable is created
- Instructions are executed holistically
  - Same outcome as naive approach
  - Compiler-assisted optimization & vectorization
  - Implementation differs between compilers