

Introduction to Rust

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What is Rust

- Non-GC'd systems level language.
- Focused on **safety**, **performance**, **concurrency**, and **interoperability**.
- Designed to make systems level software more accessible to developers.

Why do I need Rust

High level languages offer low mental overhead and speed of development, but aren't usually performant.

Usecase: Python

Pros

- Beginner friendly
- Allows for fast prototyping
- Relatively clean terse code

Cons

- Very slow for many usecases
 - Scientific python users have to offload as much work as possible onto pandas/numpy