**async rust**

# **What does async mean?**

Async rust is a protocol which allows programmers to run multiple IO bound processes at the same time on a single thread. As IO bound processes, they might have to wait for so IO response, so we can process more tasks at this waiting period. At the time when we are in need of that response we can simply **.await** it, such values are called futures.

# **how async of rust differs from others**

* Rust asynchronous function has to be started either by .await or some executor. Without them all you have is a future which hasn’t even started.
* In rust, u need an external library to do **asynchronous** programming. The standard library provides the executors which handles the futures. Most common executors are **async-std** and **tokio**.

# **coding example**

<https://thomashartmann.dev/blog/async-rust/?fbclid=IwAR2smLKOJnXGQEzH2E0-4gs1q4ha1X4fW650GylbeMY3GlyjJPXpilt9O8A>