



# Async Programming

async / await

# Why Async Programming ?

Synchronous Programming	Asynchronous Programming
<p>Imagine you go to a restaurant.</p> <p>→ You order food</p> <p>→ Waiter stands next to your table doing nothing until your food arrives.</p> <p>→ That waiter cannot serve anyone else.</p>	<p>Imagine you go to a restaurant</p> <p>→ You order food</p> <p>→ Waiter goes and servers 10 other tables</p> <p>→ Comes back when your food is ready</p>

## Problem Async Solves

- Waiting for
  - API Calls
  - Database queries
  - File reading
  - Network requests
- CPU is idle but blocked

# **async & await**

- **async** → this function can pause
- **await** → wait without blocking
  - Can only be used inside **async** functions