



# FASTAPI

# CRASH COURSE



## For Beginners

# WHAT IS FASTAPI ?



- FastAPI is a **modern and fast web framework** for building APIs
- FastAPI supports **concurrency and coroutines** without importing asyncio package
- One of the **fastest Python frameworks** available
  - **faster than Express or Nest JS [NodeJS FW]**
- Designed to be **easy to use and learn**. Less time reading docs.
  - Minimize code duplication (**fewer bugs**)

# FASTAPI FEATURES



- **OpenAPI for API creation**, including declarations of path operations, parameters, body requests etc.
- Automatic data model documentation with **JSON Schema** (as OpenAPI itself is based on JSON Schema).
- **Automatic docs**: Interactive API documentation (**OpenAPI**)
- **No new syntax to learn**. Just standard modern **Python**.



Concurrency | ASGI | UVICORN | NODEJS | GO



# FASTAPI USES ASGI

## [ ASYNCHRONOUS SERVER GATEWAY INTERFACE]

the standard interface between fastapi app and the server

UVICORN : Fast ASGI server implementation

ASGI helps enable an ecosystem of Python web frameworks that  
are highly competitive against Node and Go



# FastAPI USES ASGI SERVER



Uvicorn is one of few ASGI servers like (Daphne and hypercorn)



Starlette is a lightweight ASGI framework/toolkit, which is ideal for building high performance async services.



# FASTAPI CREATOR



Sebastien Ramirez

Creator of FastAPI and Typer (FastAPI of CLIs)

Dev at @explosion.

APIs, Deep Learning/ML, full-stack distributed systems,  
SQL/NoSQL, Python, and other techs..



## tiangolo - Overview

Creator of FastAPI and Typer. Dev at @explosion. APIs, Deep Learning/ML, full-stack distributed systems, SQL/NoSQL, Python, Docker, JS, TypeScript, etc - tiangolo

 GitHub



# BEFORE WE START



Install FastAPI:

```
>>> pip install fastapi
```

Install Uvicorn:

```
>>> pip install uvicorn
```

Install Starlette:

```
>>> pip install starlette
```

OR

```
>>> pip install fastapi uvicorn starlette
```

**IMPORTANT!**



FastAPI

Let's Build  
**CRUD ROUTER**