## What are generics in Python? Why we use it for TContext?

Generics are like empty boxes that can hold any type of thing — but you don't have to say what kind of thing right away.

Imagine you want to write a function or class that works with **different types** (like numbers, text, or custom objects) instead of writing separate code for each type, you use generics to make your code flexible.



What is TContext and Why Do We Use It?

In the OpenAl Agents SDK, TContext is just a name for "any context type."

 Every agent might have different data it needs to remember or work with.

## For example:

- A shopping agent may need a CartContext
- A chat agent may need a ChatContext

So instead of writing separate agents for each one, we use a generic TContext.

## This helps with:

- Flexibility same agent code works for different tasks.
- Safety Python can check you're using the right type of context.
- Clean Code no need to repeat similar code for every type.



## Think of it like this:

If an agent is a **chef**, and the context is the **recipe**, then:

TContext means: "Hey chef, you'll get some recipe, but I'll tell you what type of recipe it is later!"