## dotnet pills #001

A quick tour of dictionaries in C#

## dictionary

#### definition

a dictionary is a list of key-value pairs. It's mainly used when you need to store large or complex objects within the code while also optimizing for quick retrieval of data.

### types

#### ☆ default

- Keys are unique
- Can add and remove at will

https://learn.microsoft.com/en-us/dotnet/api/system.collections.generic.dictionary-2?view=net-7.0

#### sorted

- Same as default
- Sorted on the keys

https://learn.microsoft.com/en-us/dotnet/api/system.collections.generic.sorteddictionary-2?view=net-7.0

#### 

- Keys are unique
- Cannot add or remove

https://learn.microsoft.com/en-us/dotnet/api/system.collections.generic.ireadonlydictionary-2?view=net-7.0

#### → concurrent

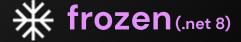
- Thread-safe
- AddOrUpdate operation

https://learn.microsoft.com/en-us/dotnet/api/system.collections.concurrent.concurrentdictionary-2?view=net-7.0



- Same as default
- Creates a copy

https://learn.microsoft.com/en-us/dotnet/api/system.collections.generic.ireadonlydictionary-2?view=net-7.0



- Same as read-only
- Optimized for reading

https://learn.microsoft.com/en-us/dotnet/api/system.collections.frozen.frozendictionary-2?view=net-8.0

### feedbacks?

https://app.sli.do/event/eteNzJ8CM1Fwv1T6PcPL9Q

#### references

https://dev.to/jlewis92/a-quick-tour-of-dictionaries-in-c-gg9

# about the guild

## previous

#### SM coffee time



#### planning presentation



### what is next?

18/05/2023	24/05/2023	01/06/2023	15/06/2023	30/06/2023
dotnet pills	get together	evaluation survey	dotnet pills	dotnet pills
Destruction in dotnet	Architectural decision records		TBD	TBD

# stay tuned!