## **Coroutine Context**

## choosing a dispatcher















































































































































































































































changes the context of execution for this suspend function

```
suspend fun preheatOven(oven: Oven): HotOven = withContext(Dispatchers.IO) {
   when (oven) {
       is ColdOven -> {
           delay(PREHEAT_OVEN) //network call or file operations
            HotOven
       is HotOven -> oven
```

## Coroutine Context

## choosing a dispatcher

changes the context of execution for this suspend function

## Coroutine Scope structured concurrency

- coroutines can be launched only in a CoroutineScope
- coroutineScope builder create a coroutine scope that does not complete until all the launched children complete
- coroutineScope builder is suspended does not block a thread while waiting
- a coroutine launched in the scope of another coroutine inherits the context and the job (the
  job of the new coroutine becomes the child of the job of the old coroutine)
- if the parent job is canceled all the children of that job are cancelled, recursively
- if an exception is thrown and not cough, the job is cancelled
- prevents coroutine leaks