

Exceptions handling

Unfortunately, exceptions handling in this library is a bit difficult in some places, but that have at least two reasons: flexibility and usability.

"In place" handling

In case you know, where exceptions are happening, you may use several tools for exceptions catching:

- Catching with result
- Catching with callback

Catching with result

If you prefer to receive `Result` objects instead of some weird callbacks, you may use the next syntax:

```
safelyWithResult {  
    // do something  
}.onSuccess { // will be called if everything is right  
    // handle success  
}.onFailure { // will be called if something went wrong  
    // handle error  
    it.printStackTrace()  
}.getOrElseThrow() // will return value or throw exception
```

Catching with callback

Also there is more simple (in some cases) way to handle exceptions with callbacks:

```
safely(  
    {  
        // handle error  
        it.printStackTrace()  
    }
```

```
        null // return value
    }
) {
    // do something
}
```

Bonus: different types of handling

There are two types of handling:

- Just safely - when you are using something to obviously retrieve value or throw exception. When handling callback has been skipped, it will throw exception by default. For example:

```
safely(
    {
        it.printStackTrace()
        "error"
    }
) {
    error("Hi :)") // emulate exception throwing
    "ok"
} // result will be with type String
```

- Safely without exceptions - almost the same as `safely`, but this type by default allow to return nullable value (when exception was thrown) instead of just throwing (as with `safely`):

```
safelyWithoutExceptions {
    // do something
} // will returns nullable result type
```

Global exceptions handling

The most simple way to configure exceptions handling is to change `CoroutineContext` when you are creating your `CoroutineScope` for bot processing:

```
val bot = telegramBot("TOKEN")

bot.buildBehaviour (
```

```
scope = scope,  
defaultExceptionHandler = {  
    it.printStackTrace()  
}  
) {  
    // ...  
}
```

OR

```
val bot = telegramBotWithBehaviour (  
    "TOKEN",  
    scope = scope,  
    defaultExceptionHandler = {  
        it.printStackTrace()  
    }  
) {  
    // ...  
}
```

Here we have used `ContextSafelyExceptionHandler` class. It will pass default handling of exceptions and will call the block in most cases when something inside of your bot logic has thrown exception.

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