Handling Exceptions



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Good Exception Handling

```
File file = new File("file.txt");
try (FileInputStream inputStream = new FileInputStream(file)) {
        // read a file
    } catch (FileNotFoundException e) {
        log.error(e);
    } catch (IOException e) {
        log.error(e);
```





Good Exception Handling?

```
File file = new File("file.txt");
FileInputStream stream;
  try {
              // read file
      } catch (FileNotFoundException e) {
            e.printStackTrace();
      } catch (Throwable e) {
            // oops...
```





Module Overview



Catching the wrong exceptions

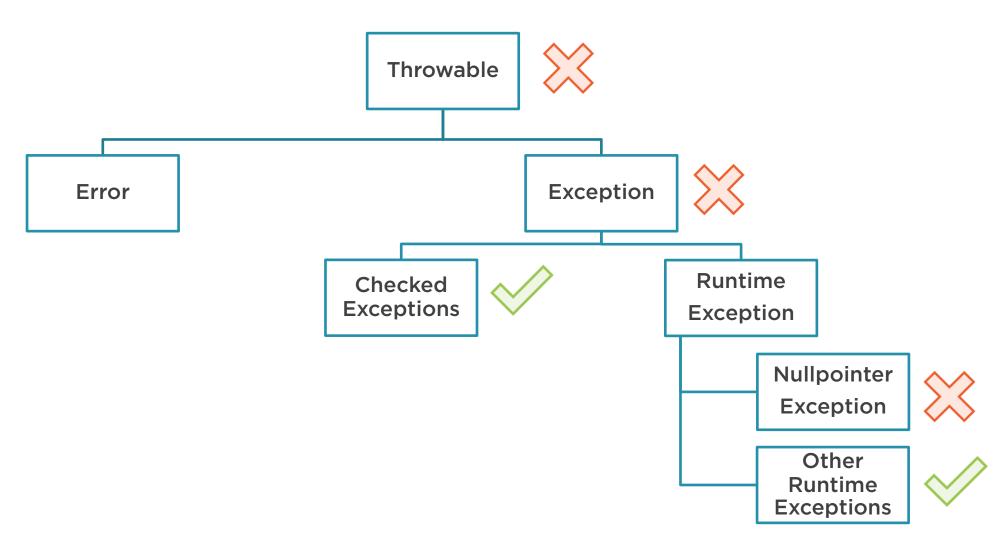
Ignoring exceptions

Useless code in catch block

Exceptions in finally block



Don't Catch Them All



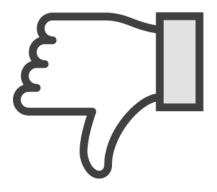




Don't handle NPEs. Prevent them!



Catch Block Anti-patterns



Catch block shouldn't:

- Be empty
- Have only comments
- Contain unhelpful code

```
catch {
catch { // should never happen }

catch { return null; }

catch { e.printStackTrace(); }

catch { log.error(e); }

catch { throw new CustomException(e); }
```



Avoid exceptions in finally { }



Summary



Catch specific exceptions



Proper handling in catch { }



Finally block and Java 7 try-with-resources

