Files

New Austrian Coding School

Programming - memo

When **finding** and **reading** a file, some things could go wrong. When this happens, an **exception** is thrown. We need to **protect** the rest of our application with a **try/catch** statement.

Finding a file

In order to find a file we need to: **locate** where it is, and **connect** it with our application.

```
URI uri = ClassLoader.getSystemResource(filePath).toURI();
Path path = Paths.get(uri);
```

Reading a file

We read the file using the *Files* class to obtain **all its lines** as a list of string.

```
List<String> lines = Files.readAllLines(path);
```

Trying instead of doing

When things go **wrong** finding or reading files, **exceptions** are thrown. An exception **breaks** our application if we are **not prepared** for it.

```
public class FileReader {

  public List<String> asLines(String filePath) {
    try {
      URI uri = ClassLoader.getSystemResource(filePath).toURI();
      Path path = Paths.get(uri);
      return Files.readAllLines(path);
    } catch (IOException | URISyntaxException e) {
      e.printStackTrace();
      return new ArrayList<>();
    }
  }
}
```