

Alcor Training Flying

Mappers - is there a better way?

May 25, 2021

Andy Nyffengger

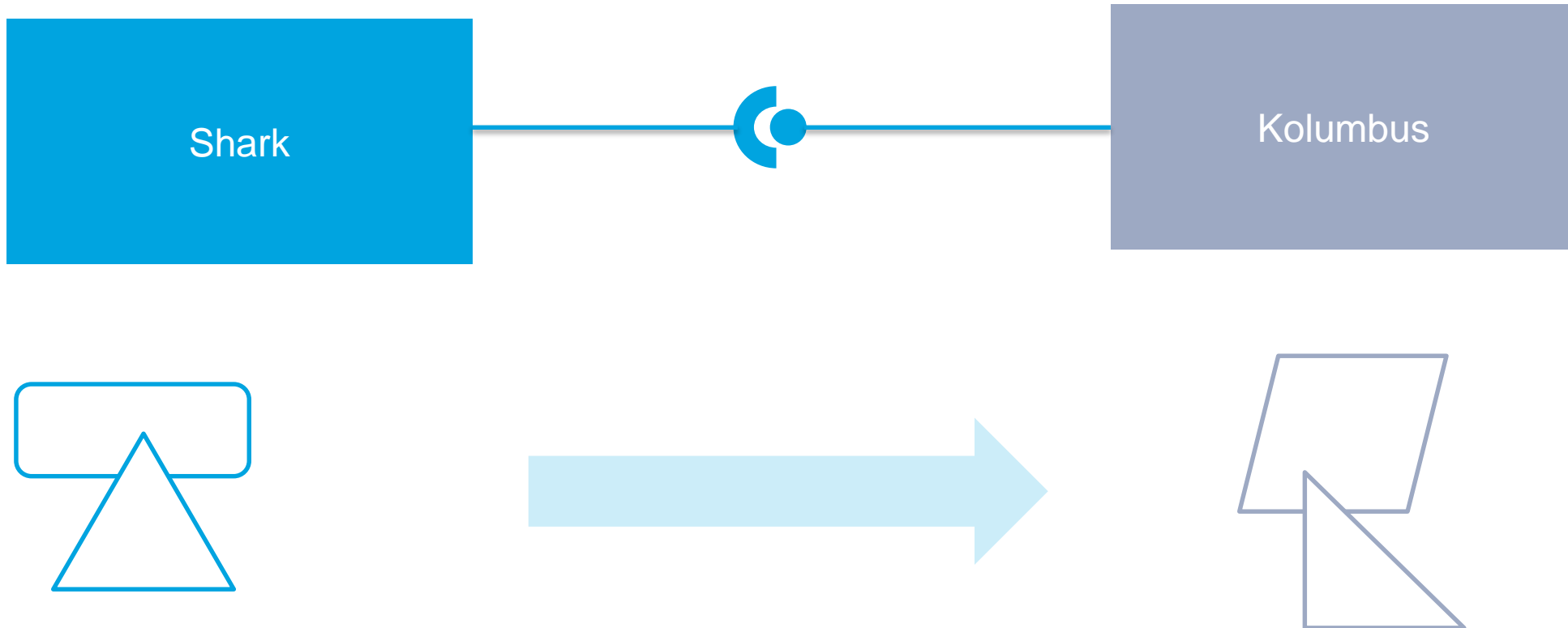
andy.nyffenegger@css.ch



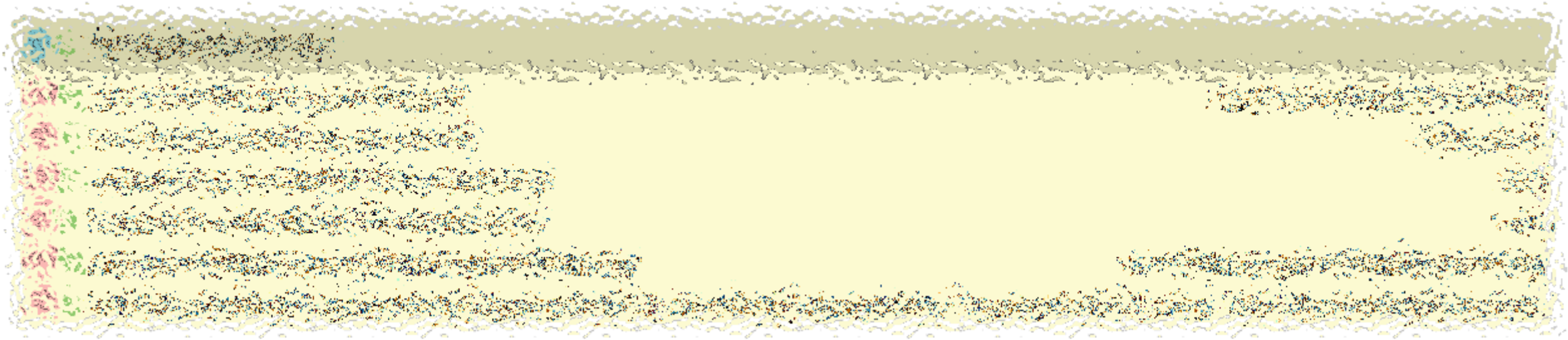
Mappers - is there a better way

- Interface Shark - Kolumbus
- a big class
- ... split up
- benefits
- changes in test
- some code
- questions

Interface Shark - Kolumbus

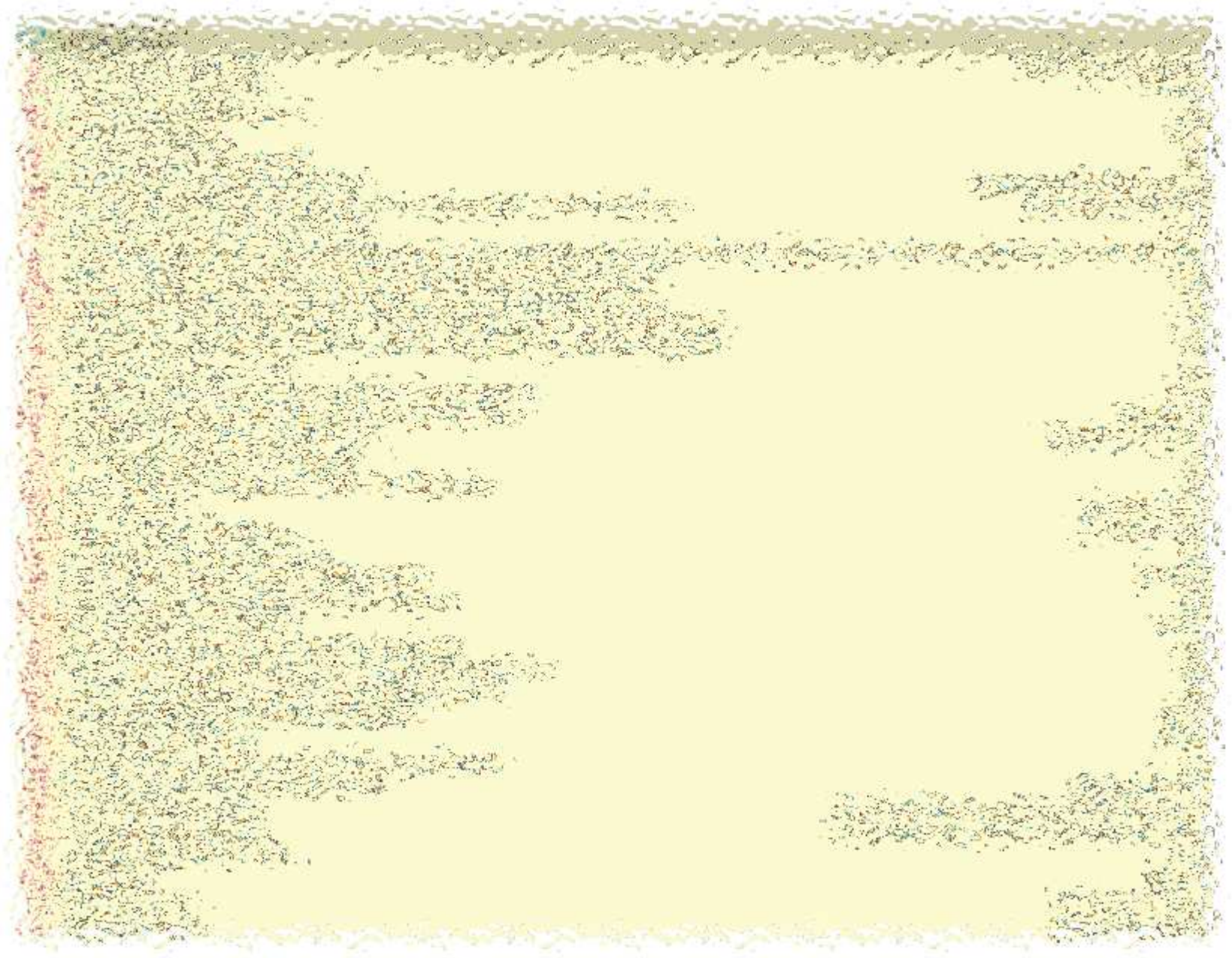


KolumbusAccessor



KolumbusAccessor

- 900 LoC
- Tests using package private methods to test certain parts



KolumbusAccessor split up

- 450 Loc
- 19 Methods:
6 public / 3 protected / 10 private

- 80 Loc
- 2 Methods:
1 public / 0 protected / 1 private

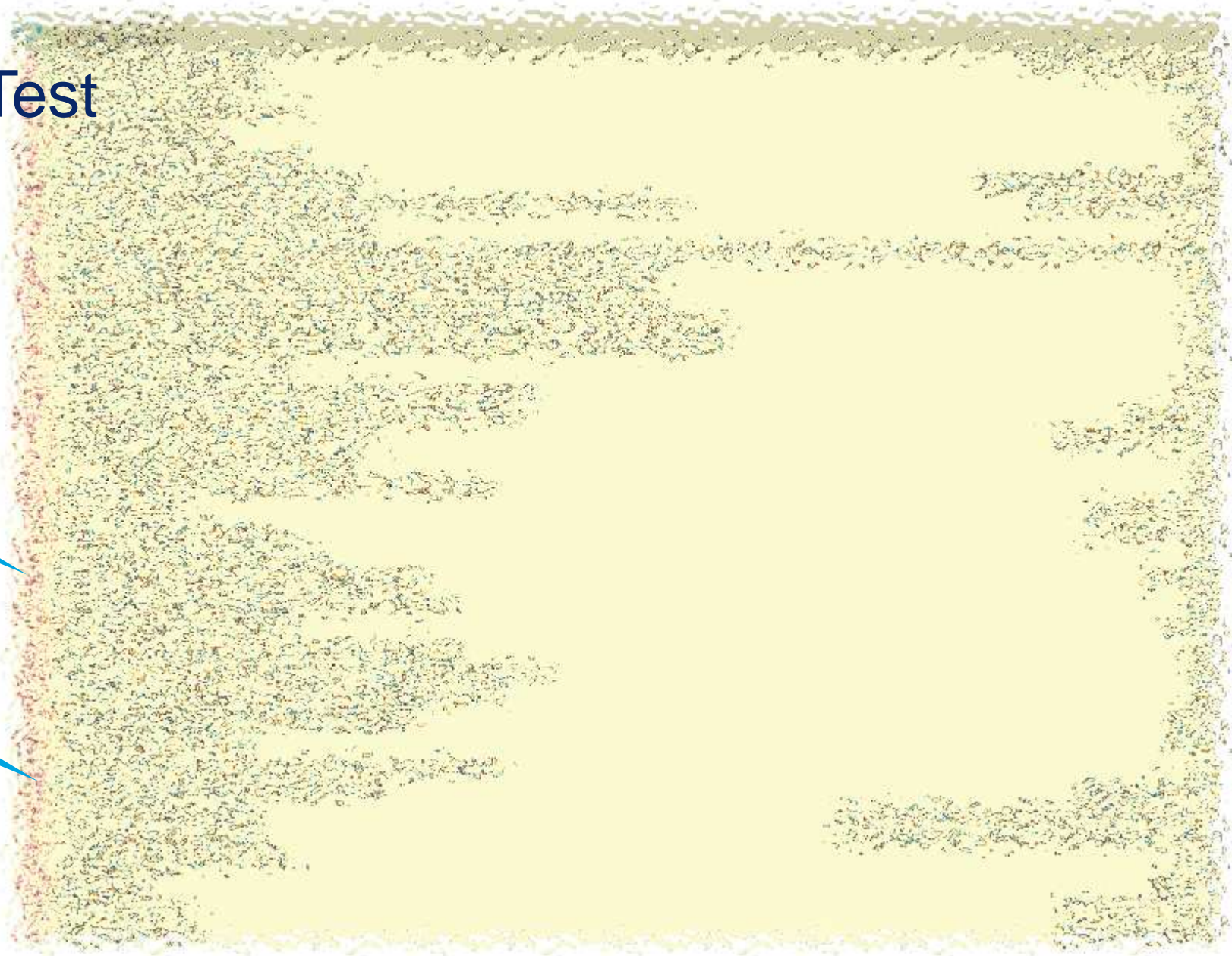
- 190 Loc
- 11 Methods:
1 public / 0 protected / 10 private

- 180 Loc
- 8 Methods:
1 public / 0 protected / 7 private

Benefits

- Single Response Principle
 - Each class does only produce one of the main target objects
- Smaller classes
- Tests can use public interface of classes
- Consolidation of test access points

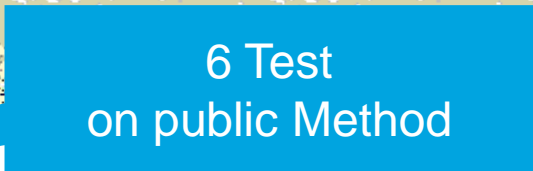
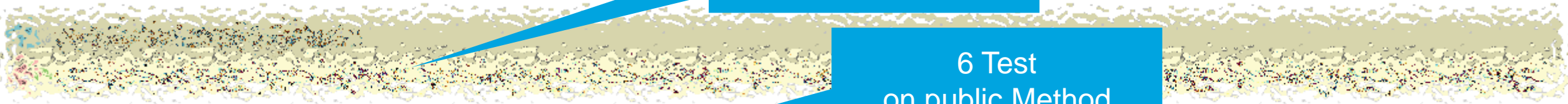
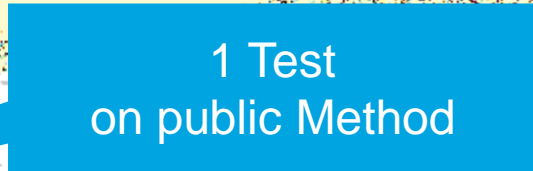
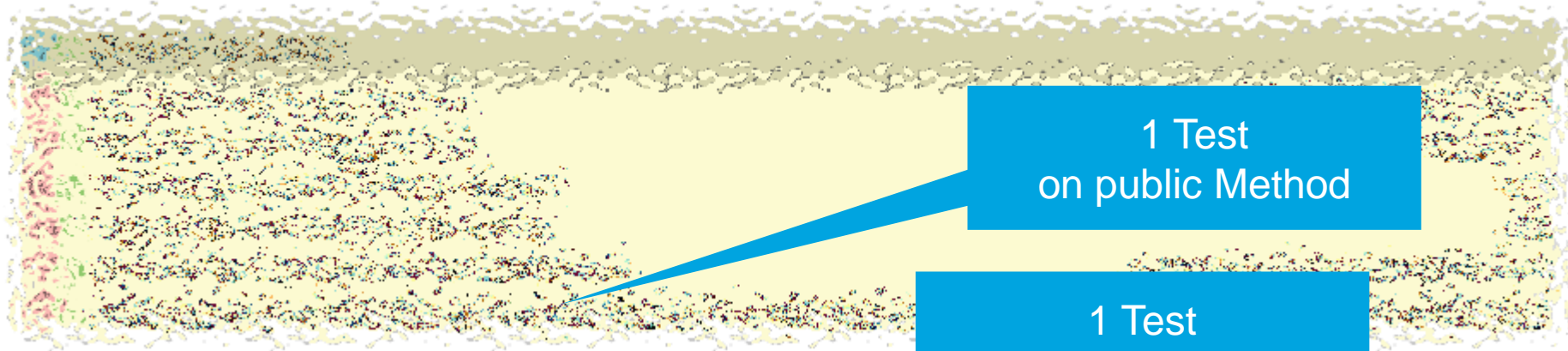
KolumbusAccessor Test



4 Test
on protected Method

2 Test
on protected Method

KolumbusAccessor Test



some code ...

```
function foo() {
  // ...
}

function bar() {
  // ...
}

// ...

function baz() {
  // ...
}

// ...

function qux() {
  // ...
}

// ...
```


[Redacted text block]

[Redacted text line]

[Redacted text block]

[Redacted text line]

Findings and Questions

- procedural code
 - very tedious code
 - no state in the classes
 - some minimal logic besides attribute mapping
-
- how has this to be tested?
 - on which level?
 - every single attribut?
-
- is there a better way for this kind of code?
-
- is it worth it?

Thank you for your suggestions!

andy.nyffenegger@css.ch