## Pure functions are deterministic

```
// Non-deterministic
case class NonDeterministicClass(var n : Int = 0) {
    def whatDoIDo(i: Int) : Int = {
        n = n + 1
        i + n
    }
}

val c1 = NonDeterministicClass()
val f1 = c1.whatDoIDo(10) // 11
val f2 = c1.whatDoIDo(10) // 12
```

Harder to reason about

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## **Harder to test**