

Property-Based Testing



Property-Based Testing

Validate statements with varying degrees of generality

```
// for all integers x,y,z, we have (x + y) + z == x + (y + z)
def spec = test("property-based-testing basics") {
  check(Gen.int, Gen.int, Gen.int) { (x,y,z) =>
    assertTrue((x + y) + z == (x + (y + z)))
  }
}
```

Generators

- primitive types: int, boolean, char, ...
- strings
- Option, Either
- lists, sets
- map/flatMap/filter/zip
- from ZIOs
- unfold

Shrinking

ZIO rocks

