



Let's try that again...

"A Lens targets a specific part of a complex object to either GET or SET a value"

ie. it's a function - or more precisely 2 functions!

Extract: (HttpMessage) -> X

Inject: (X, HttpMessage) -> HttpMessage

Lens example 1/3

- http4k provides a Lens implementation which targets our domain: HTTP messages.
- Violations result in an HTTP 400 (Bad Request).

```
val btcPath = Path.int().of("btc")

val miner: HttpHandler = CatchLensFailure.then(
    routes(
          "/mine/{btc}" bind POST to { r: Request ->
                val newTotal: Int = btcPath.extract(r) + 1
                val out = "You have $newTotal BTC"
                val json = """{ "value": "$out"}""
                Response(OK).body(json)
                }
                ))
```