


```
val client: HttpClient = ApacheClient()
```

```
val response: Response = client(  
    Request(GET, "https://www.http4k.org/search")  
        .query("term", "http4k is cool")  
)
```



Apache

OkHttp3

HTTP Clients

“It turns an HTTP Request into an HTTP Response”

ie. it's an `HttpHandler`!

`HttpHandler: (Request) -> Response`

```
val client: HttpHandler = ApacheClient()
```

```
val response: Response = client(  
    Request(GET, "https://www.http4k.org/search")  
        .query("term", "http4k is cool")  
)
```



OkHttp3

Typesafe HTTP Contracts

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