Performing Your First HTTP Requests



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HttpClient Module

module-info.java

```
module myapplication {
   requires java.net.http;
}
```

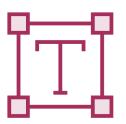


```
send(HttpRequest request,
    HttpResponse.BodyHandler<T> responseBodyHandler)
    throws IOException, InterruptedException
```



HttpResponse<T>

BodyHandlers



ofString()

String



ofByteArray()

byte[]



ofFile(Path)

Path



ofLines()

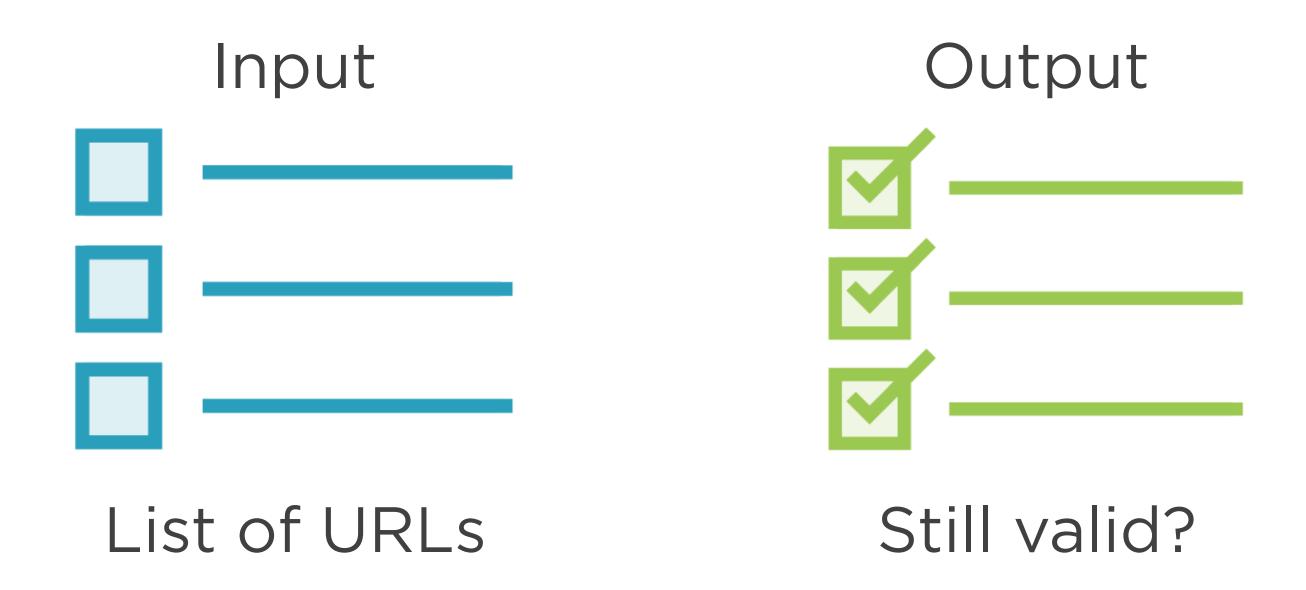
Stream<String>



discarding()

Void

Demo Scenario: Link Validator



Status code in 2xx range

Demo

Performing Your First HTTP Request with HttpClient

Download JDK & IDE



jdk.java.net/11/ jetbrains.com/idea/download

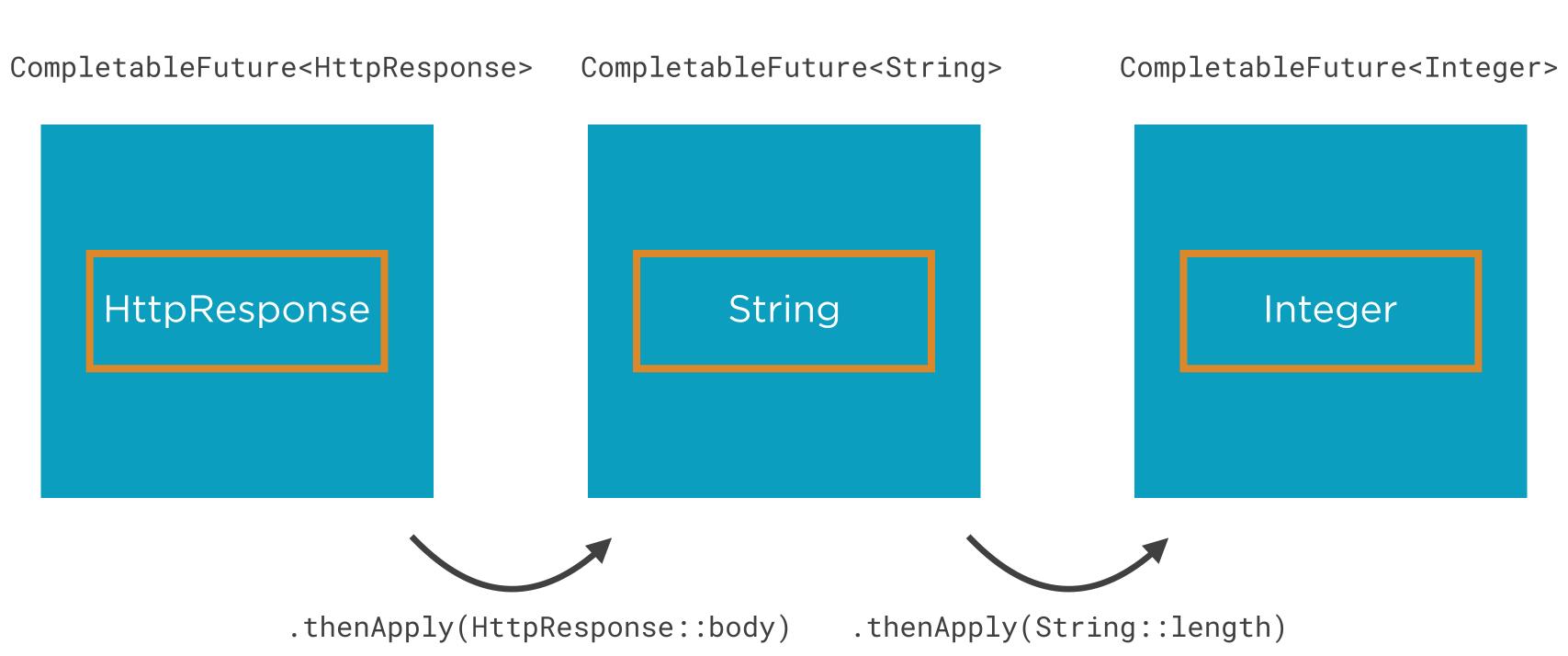
sendAsync(HttpRequest request,
 HttpResponse.BodyHandler<T> responseBodyHandler)



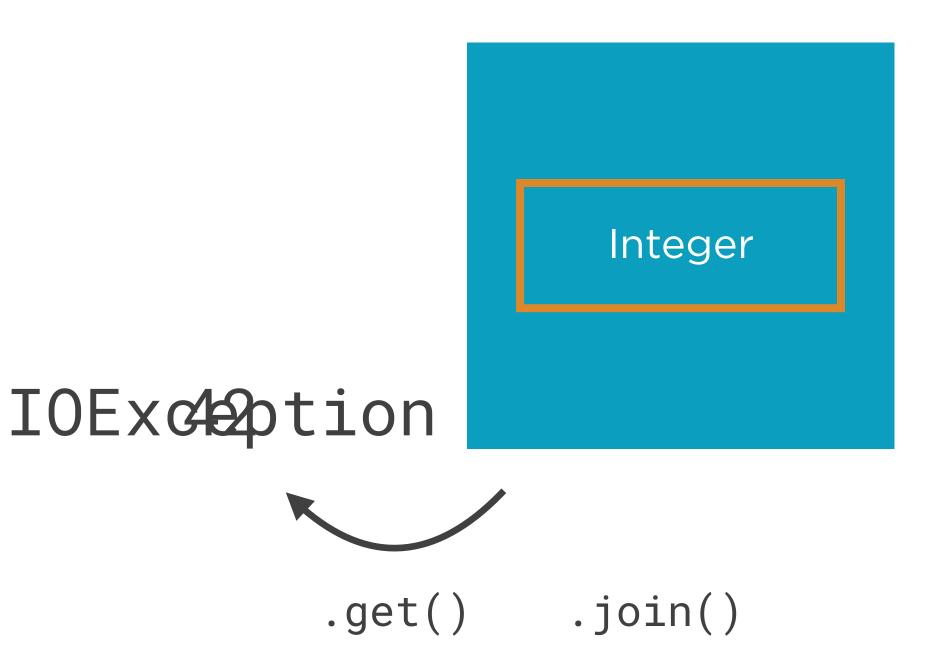
CompletableFuture<HttpResponse<T>>

CompletableFuture<T>





CompletableFuture<Integer>



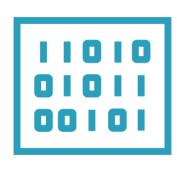
Using sendAsync

```
HttpClient client = ...
HttpRequest request = ..
CompletableFuture<HttpResponse<String>> responseFuture =
   client.sendAsync(request,
                    HttpResponse.BodyHandlers.ofString());
responseFuture.thenAccept(response ->
   System.out.println(response.body());
```

Demo

Performing Asynchronous HTTP Requests

Summary



BodyHandlers



Synchronous vs. asynchronous



CompletableFuture