

Okio & OkHttp

课程目标

- ✓ 掌握**I/O**操作的方法
- ✓ 掌握**传输数据**的方法

学习内容

- **Okio简介**
- **Okio的核心类**
- **OkHttp简介**
- **OkHttp核心类**
- **代码实践**

I/O

I

内存

buffer

O

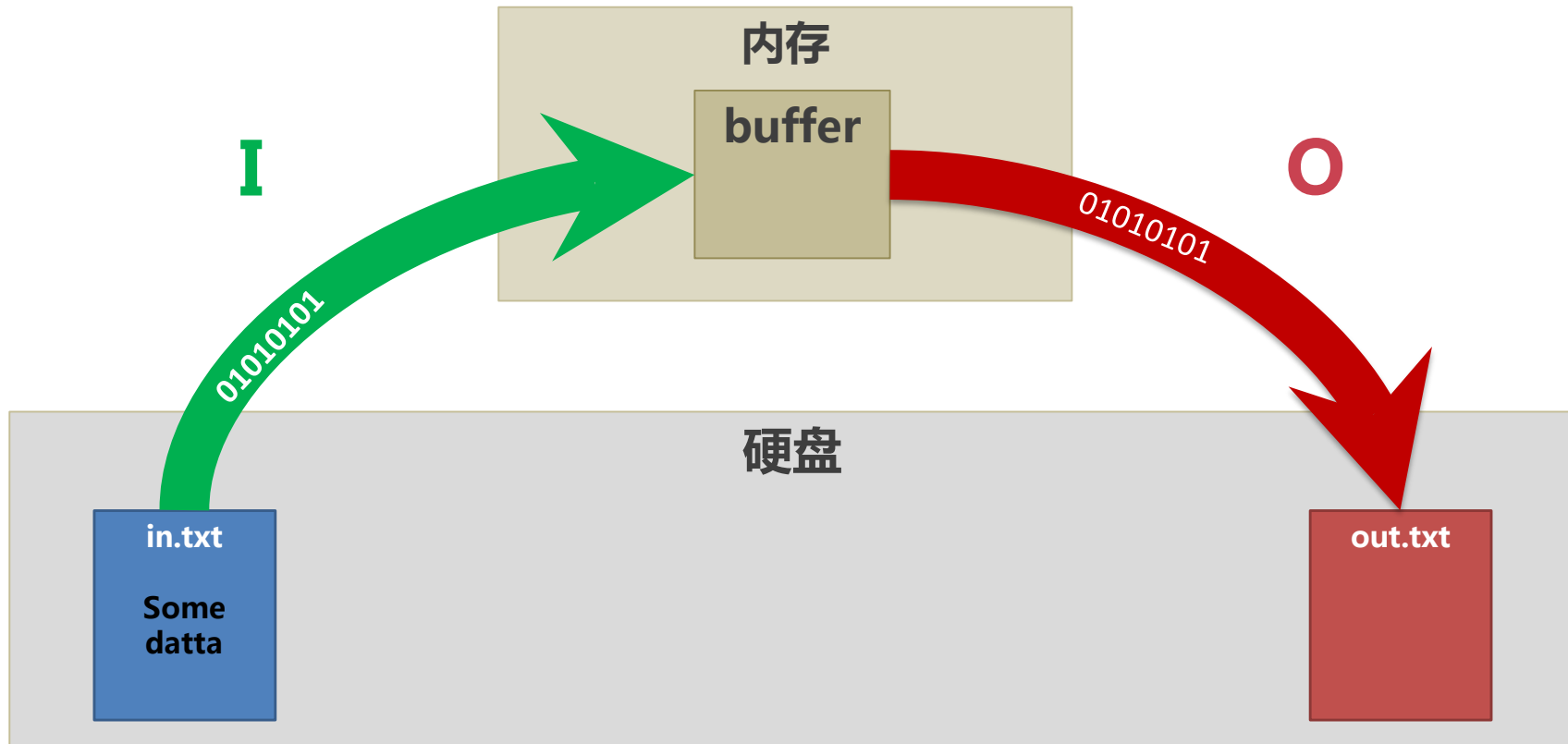
01010101

硬盘

in.txt

Some
datta

out.txt

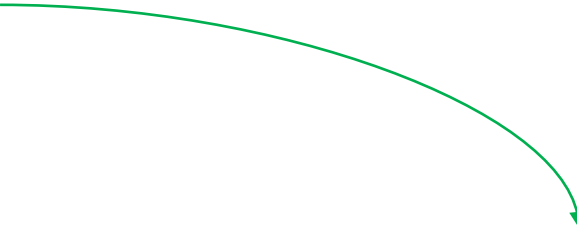


历史

➤ **java.io**

➤ **java.nio**

➤ **okio**



okio-1.12.0.jar

作用

➤ 访问数据

➤ 存储数据

➤ 处理数据

Easier

ByteString

➤ **String**

➤ **ByteString**

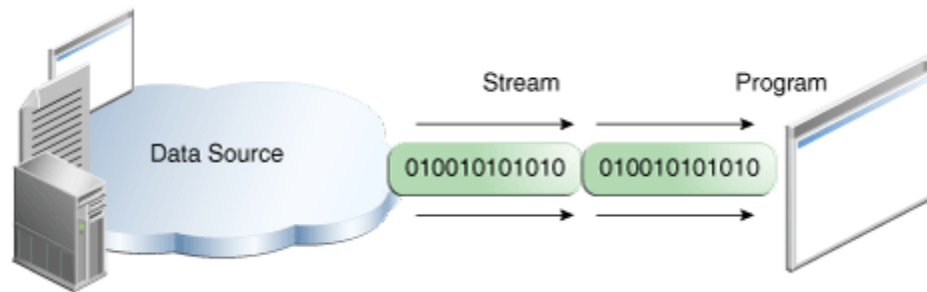
创建ByteString

- `okio.ByteString of(byte... data)`
- `okio.ByteString encodeUtf8(String str)`
- `okio.ByteString decodeHex(String hex)`
- `okio.ByteString decodeBase64(String base64)`
- `okio.ByteString read(InputStream in,int byteCount)`

ByteString常用方法

- **base64()**
- **hex()**
- **md5()**
- **sha1()**
- **write(java.io.OutputStream)**

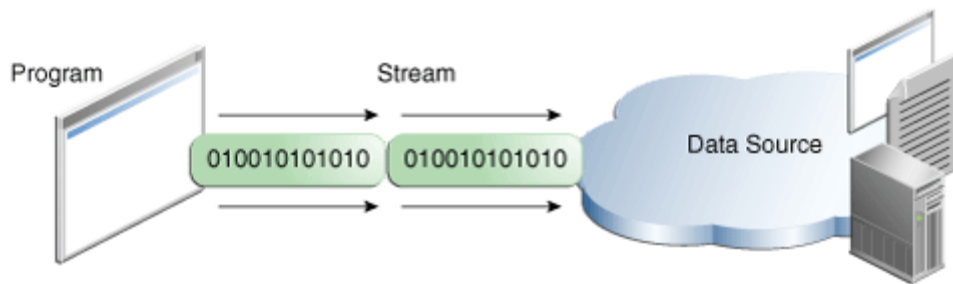
输入流



Source

- **read(Buffer sink,long byteCount)**
- **timeout()**
- **close()**

输出流



Sink

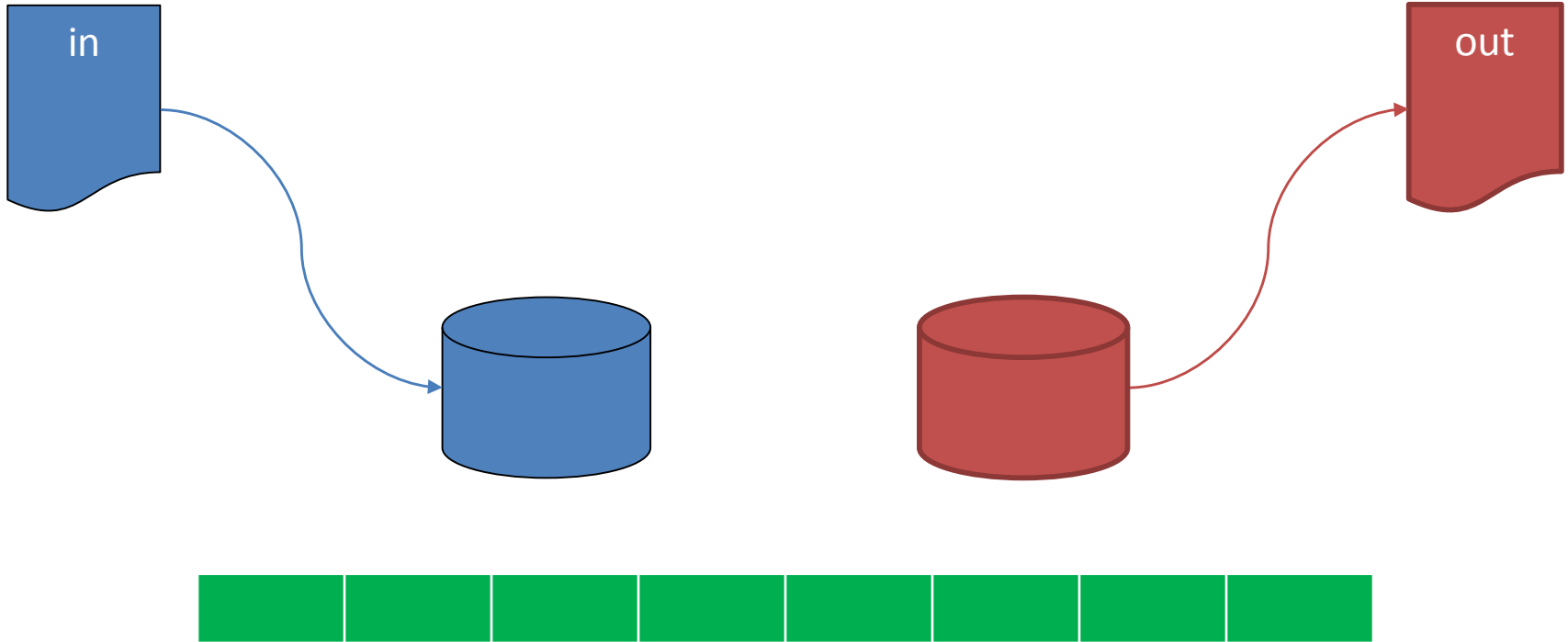
- **write(Buffer source,long byteCount)**
- **flush()**
- **timeout()**
- **close()write**

Buffer

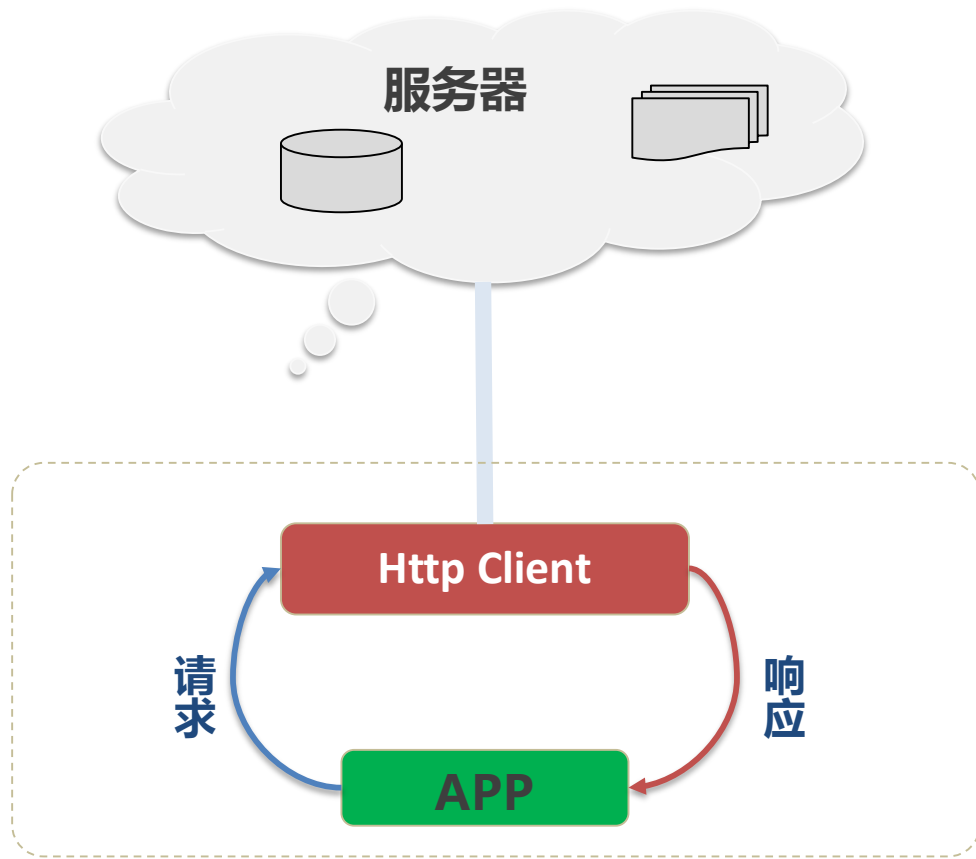
➤ **okio.*BufferedSource***

➤ **okio.*BufferedSink***

Buffer



Http Client

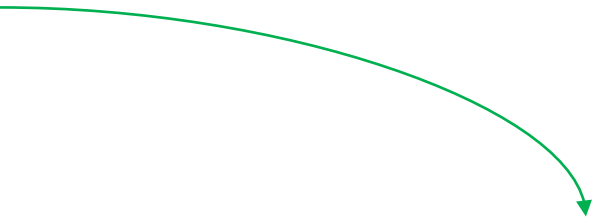


历史

➤ Apache HttpClient

➤ HttpURLConnection

➤ **OkHttp**



okhttp-3.7.0.jar

Request

➤ **URL**

➤ **method**

➤ **headers**

➤ **body**

Get

```
Request.Builder builder = new Request.Builder();  
builder.url("http://httpbin.org/get");  
Request request = builder.build();
```

Call

```
Call call = client.newCall(request);
```

```
Response response = call.execute();
```

Response

➤ **code**

➤ **headers**

➤ **body**

Call

```
Call call = client.newCall(request);
```

```
call.enqueue(callback);
```

Callback

```
Callback callback = new Callback() {  
    @Override  
    public void onFailure(Call call, IOException e) {  
    }  
  
    @Override  
    public void onResponse(Call call, Response response) throws IOException {  
    }  
};
```

HttpUrl

```
HttpUrl.Builder builder = HttpUrl.parse("https://httpbin.org/")  
    .newBuilder();  
builder.addEncodedPathSegment("get");  
builder.addEncodedQueryParameter("show_env", "1");  
HttpUrl httpUrl = builder.build();
```

Post

```
Request request = new Request.Builder()  
    .url("https://api.github.com/markdown/raw")  
    .post(RequestBody.create(MEDIA_TYPE_MARKDOWN, postBody))  
    .build();
```

课程总结

✓ Okio

- ByteString
- Buffer

课程总结

✓ OkHttp

- Request
- Response