

## Retrofit

<http://square.github.io/retrofit/>

Retrofit2 + OkHttp3 + Jackson + RxAndroid2/RxJava2

[Tips](#), [Restful](#), [web](#)

## Library

<https://mvnrepository.com/artifact/com.squareup.okhttp3/okhttp>

<https://mvnrepository.com/artifact/com.squareup.okhttp3/okhttp-urlconnection>

```
compile 'com.squareup.okhttp3:okhttp:3.8.0'
compile 'com.squareup.okhttp3:okhttp-urlconnection:3.8.0'
compile 'com.squareup.okhttp3:logging-interceptor:3.8.0'

compile 'com.squareup.retrofit2:retrofit:2.3.0'
compile 'com.squareup.retrofit2:converter-jackson:2.3.0'
compile 'com.squareup.retrofit2:adapter-rxjava2:2.3.0'

compile 'com.fasterxml.jackson.core:jackson-core:2.8.8'
compile 'com.fasterxml.jackson.core:jackson-databind:2.8.8.1'
compile 'com.fasterxml.jackson.core:jackson-annotations:2.8.8'

//Android
compile 'io.reactivex.rxjava2:rxandroid:2.0.1'
//Java
compile 'io.reactivex.rxjava2:rxjava:2.1.0'
```

## Source

```
public class RestfulAdapter {

    public static final int CONNECT_TIMEOUT = 15;
    public static final int WRITE_TIMEOUT = 15;
    public static final int READ_TIMEOUT = 15;

    private static volatile ConcurrentHashMap<String, Object> services = new
    ConcurrentHashMap<>();

    public static synchronized <T> T getInstance(Class<T> restfulInterface)
    throws Exception {
        if(!restfulInterface.isInterface())
            throw new IllegalArgumentException("argument must be
```

```

INTERFACE");

    T service = (T) services.get(restfulInterface.getName());

    if(service == null) {
        Field f = restfulInterface.getField("URL");
        String url = (String) f.get(null);

        HttpLoggingInterceptor httpLoggingInterceptor = new
HttpLoggingInterceptor();
httpLoggingInterceptor.setLevel(HttpLoggingInterceptor.Level.BODY);

        CookieManager cookieManager = new CookieManager();
        cookieManager.setCookiePolicy(CookiePolicy.ACCEPT_ALL);

        OkHttpClient client = configureClient() // 인증서 무시
            .connectTimeout(CONNECT_TIMEOUT, TimeUnit.SECONDS)
            .writeTimeout(WRITE_TIMEOUT, TimeUnit.SECONDS)
            .readTimeout(READ_TIMEOUT, TimeUnit.SECONDS)
            .cookieJar(new JavaNetCookieJar(cookieManager)) //쿠키 설
정
            .addInterceptor(httpLoggingInterceptor) //http 로그 확인
            .build();

        service = new Retrofit.Builder()
            .baseUrl(url)
            .client(client)
.addCallAdapterFactory(RxJava2CallAdapterFactory.create())
            .addConverterFactory(JacksonConverterFactory.create())
            .build().create(restfulInterface);

        services.put(restfulInterface.getName(), service);
    }

    return service;
}

/**
 * 인증서 무시
 * @return
 */
private static OkHttpClient.Builder configureClient() throws Exception {
    TrustManagerFactory trustManagerFactory =
TrustManagerFactory.getInstance(TrustManagerFactory.getDefaultAlgorithm());
    trustManagerFactory.init((KeyStore) null);
    TrustManager[] trustManagers =
trustManagerFactory.getTrustManagers();

    if (trustManagers.length != 1 || !(trustManagers[0] instanceof
X509TrustManager))
        throw new IllegalStateException("Unexpected default trust

```

```
managers:" + Arrays.toString(trustManagers));

    X509TrustManager trustManager = (X509TrustManager) trustManagers[0];

    SSLContext sslContext = SSLContext.getInstance("SSL");
    sslContext.init(null, new TrustManager[] { trustManager }, new
SecureRandom());

    OkHttpClient.Builder builder = new OkHttpClient.Builder();
    builder.sslSocketFactory(sslContext.getSocketFactory(),
trustManager).hostnameVerifier((hostname, session) -> true);

    return builder;
}
}
```

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