# Study Jam
## Session 3

17.2.2015

# Retrofit

▸ Retrofit turns your REST API into a Java interface.

```
public interface GitHubService {
        @GET("/users/{user}/repos")
        List<Repo> listRepos(@Path("user") String user);
        }
```

▸ The RestAdapter class generates an implementation of the GitHubService interface.

```
RestAdapter restAdapter = new RestAdapter.Builder()
        .setEndpoint(https://api.github.com).build();
        GitHubService service = restAdapter.create(GitHubService.class);
```

▸ HTTP request to the remote webserver.

```
List<Repo> repos = service.listRepos("octocat");
```

# Jackson Annotations

```java
public class Name {
  @JsonProperty("firstName")
  public String _first_name;
}
```

```json
{ "firstName" : "Bob" }
```

```java
@JsonIgnoreProperties({ "extra", "uselessValue" })
public class Value {
  public int value;
}
```

```json
{
  "value" : 42,
  "extra" : "fluffy",
  "uselessValue" : -13
}
```

```java
@JsonIgnoreProperties(ignoreUnknown=true)
public class PojoWithAny {
  public int value;
}
```

# SimpleXML

```xml
<root id="123">
  <message>Example message</message>
</root>
```

▸ Object with explicit naming

```java
@Root(name="root")
public class Example {

    @Element(name="message")
    private String text;

    @Attribute(name="id")
    private int index;

    public Example() {
        super();
    }
```

▸ Deserialize an instance of the above object: Persister

```java
Serializer serializer = new Persister();
File source = new File("example.xml");

Example example = serializer.read(Example.class, source);
```

# Android Study Jam - Lesson 3

▸ New Activities and Intents (implicit and explicit)

▸ Interaction with onscreen elements: ListView -> onItemClickListener

▸ Toast

▸ Settings

▸ SharedPreferences

▸ Debugger

▸ ShareActions

▸ Broadcast Intents

# Links

- Retrofit

  - http://square.github.io/retrofit/

  - http://blog.robinchutaux.com/blog/a-smart-way-to-use-retrofit/

- Jackson

  - http://jackson.codehaus.org/Download

  - http://www.mkyong.com/java/jackson-streaming-api-to-read-and-write-json/

- SimpleXML

  - http://simple.sourceforge.net/download/stream/doc/tutorial/tutorial.php

- Kupferwerk Base Project

  - https://github.com/kupferwerk/BaseAndroidApp

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# Vielen Dank!

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