

## Exercise Networking with threads (Handler)

Create an application that downloads a text file from the web and displays the contents in a TextView. Use a separate thread for communication and Handler to pass info between threads

Hint 1: You can request whatever data source from the network. In case you don't have any ideas, you can use the following <https://users.metropolia.fi/~jarkkov/koe.txt>

Hint 2: If you want to follow the communication between your application and the server, use Android Profiler. It can be activated when the application is running (either on your phone or on the emulator) by clicking the Android Profiler name on the bottom menu/icon line. If you select a time scale on the Network graph, you can see the query and response in clear text.

Hint 3: Remember to insert permissions for the Internet communication to the Android Manifest.xml file

```
<uses-permission android:name="android.permission.INTERNET" />
```

```
<uses-permission android:name="android.permission.ACCESS_NETWORK_STATE" />
```

Installing a new version of the application with these new permissions requires the old application to be removed from the emulator/phone by hand before a new version with new permission can be installed to the emulator/phone.